

The Network of Nuclear Reaction Data Centres (NRDC)

EXFOR : Recent Compilation (Added in January 2008)

EXFOR is a world-wide database for experimental neutron induced, charged-particle induced and photonuclear reaction compiled by Nuclear Reaction Data Centres Network coordinated by IAEA Nuclear Data Section. This list gives newly compiled data to EXFOR. *This list consists of tables titled by target nuclide.*

Retrieval service is available at:

<http://www.jcprg.org/exfor/> (JCPRG)

<http://www-nds.iaea.org/exfor/> IAEA Nuclear Data Section (IAEA-NDS)

<http://www.nndc.bnl.gov/exfor/> National Nuclear Data Center (NNDC)

<http://cdfc.sinp.msu.ru/exfor/> Centre for Photonuclear Experiments Data (CDFE)

<http://www.nea.fr/html/dbdata/x4/> NEA Data Bank (NEA-DB)

http://www.ippe.obninsk.ru/podr/cjd/page4_9_cjd.html Center Jadernykh Dan-nykh(CJD)

Quantity code

ALF	Alpha	FY	Fission product yield
AMP	Length or amplitude	INT	Cross section integral over incident energy
CHG	Fragment charge	KE	Kinetic energy
CS	Cross section	KER	Kerma factor
CSN	Differential with respect to number of particles	MLT	Multiplicity
CSP	Partial cross section	NQ	Nuclear quantity
CST	Temperature dependent cross section	NU	Nu
D3A	Triple differential $d\Omega_1/d\Omega_2/dE'$	NUD	Nu delayed
D3E	Triple differential $d\Omega/dE'_1/dE'_2$	NUF	Fragment neutrons
D4A	Quadruple diff. $d\Omega_1/d\Omega_2/dE'_1/dE'_2$	POL	Polarization
DA	Differential $d/d\Omega$	POD	Differential polarization
DAA	Double differential $d\Omega_1/d\Omega_2$	PY	Product yield (other than fission)
DAE	Double differential $d\Omega/dE'$	RI	Resonance integral
DAP	Partial differential $d/d\Omega$	RP	Resonance parameter
DAT	Temperature-dependent Legendre coefficient	RR	Reaction rate
DE	Differential d/dE'	SIF	Self indication
DEP	Energy spectrum for specific group	SPC	Gamma spectrum
DP	Diff. by linear momentum of outgoing part.	TSL	Thermal scattering
DT	Diff. by 4-momentum transfer squared	TT	Thick target yield
ETA	Eta	TTD	Differential thick target yield, $d/d\Omega$
EVL	Evaluation	TTP	Partial thick target yield

Special codes in outgoing particle field

abs	Absorption	fus	Fusion	sct	Scattering	tot	Total
el	Elastic	inel	Inelastic	tcx	Total charge changing		
fis	Fission	non	Nonelastic	ths	Thermal scattering		

Special codes in incident energy field

Fast	Fast reactor spectrum average	Maxw	Maxwellian spectrum average
Fiss	Fission spectrum average	Spont	Spontaneous (for fission)

1 Hydrogen 1										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,el	1H	CS	2JPNTOK	3.3+08	9.1+08	Jour	JPJ,36,(5),1499	May 74	S.Homma+	K2066
γ,el	1H	DA	2GERMNZ	2.2+08	4.7+08	Jour	PR/C,65,032202	02	M.Camen+	M0730
γ,el	1H	DA	2JPNTOK	3.8+08	1.2+09	Jour	NP/B,165,(2),189	Mar 80	T.Ishii+	K2068
γ,el	1H	DA	2JPNTOK	4.0+08	1.0+09	Jour	NP/B,247,(2),313	Dec 84	Y.Wada+	K2069
γ,el	1H	DA	2JPNTOK	4.2+08	1.2+09	Jour	NP/B,165,(2),189	Mar 80	T.Ishii+	K2068
γ,el	1H	DA	2JPNTOK	4.5+08	9.5+08	Jour	NP/B,141,(4),364	Sep 78	K.Toshioka+	K2067
γ,el	1H	DA	2JPNTOK	4.8+08	1.0+09	Jour	NP/B,247,(2),313	Dec 84	Y.Wada+	K2069
γ,el	1H	DA	2JPNTOK	6.0+08	8.0+08	Jour	NP/B,141,(4),364	Sep 78	K.Toshioka+	K2067
γ,el	1H	DA	2JPNTOK	7.5+08	1.0+09	Jour	NP/B,165,(2),189	Mar 80	T.Ishii+	K2068
γ,el	1H	DT	2JPNTOK	4.0+08	1.0+09	Jour	NP/B,247,(2),313	Dec 84	Y.Wada+	K2069
γ,π^0	1H	CS	2JPNTOK	3.3+08	9.1+08	Jour	JPJ,36,(5),1499	May 74	S.Homma+	K2066
γ,tot		CS	2JPNTOK	3.3+08	9.1+08	Jour	JPJ,36,(5),1499	May 74	S.Homma+	K2066
n,el	1H	DA	1USABRK	4.2+06	9.0+07	Jour	PR,75,351	Feb 49	J.Hadley+	11167
π^+,el	1H	DA	2JPNKEK			Jour	PR/C,76,(2),024610	Aug 07	K.Aoki+	J2058
π^-,el	1H	DA	2JPNKEK			Jour	PR/C,76,(2),024610	Aug 07	K.Aoki+	J2058
π^-,el	1H	DT	2JPNLEP			Jour	NP/B,175,(1),1	Nov 80	S.Terada+	J2071
π^-, π^0	1Nn	CS	2JPNLEP			Jour	NP/B,294,961	87	Y.Suzuki+	J2072
π^-, π^0	1Nn	DA	2JPNLEP			Jour	NP/B,294,961	87	Y.Suzuki+	J2072
$K^-,x+K^+$	inclusive	DAE	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
p,el	1H	DA	2JPNTOK	1.4+07	1.4+07	Jour	JPJ,15,(1),9	Jan 60	S.Kikuchi+	E2038
d,el	1H	DA	2JPNIPC	2.7+08	2.7+08	Jour	PL/B,367,(1-4),60	Jan 96	N.Sakamoto+	E1627
d,el	1H	POD	2JPNIPC	1.3+08	1.3+08	Jour	EPJ/A,31,(3),383	Mar 07	H.Mardanpour+	E2052
d,el	1H	POD	2JPNIPIC	1.7+07	1.7+07	Jour	PR/C,27,(3),1932	May 83	M.Sawada+	E0811
d,el	1H	POD	2JPNIPIC	1.8+08	1.8+08	Jour	EPJ/A,31,(3),383	Mar 07	H.Mardanpour+	E2052
d,el	1H	POD	2JPNIPIC	2.0+07	2.2+07	Jour	PR/C,27,(3),1932	May 83	M.Sawada+	E0811
d,el	1H	POD	2JPNIPIC	2.7+08	2.7+08	Jour	PL/B,367,(1-4),60	Jan 96	N.Sakamoto+	E1627
d,γ	3He	DA	2JPNOSA	2.0+08	2.0+08	Jour	MPL/A,18,(2-6),322	Feb 03	T.Yagita+	E2077
d,γ	3He	POD	2JPNKYU	1.8+07	1.8+07	Jour	PR/C,64,(3),034001	Sep 01	H.Akiyoshi+	E2078
d,γ	3He	POD	2JPNOSA	2.0+08	2.0+08	Jour	MPL/A,18,(2-6),322	Feb 03	T.Yagita+	E2077
6He,el	1H	?	2JPNIPIC	4.3+08	4.3+08	Jour	EPJ/AS,25,(1),255	Sep 05	M.Hatano+	E1987
$^{13}N,el$	1H	DA	2JPNIPIC	4.1+05	3.3+06	Jour	PL/B,650,(2-3),129	Jun 07	T.Teranishi+	E2057
$^{40}Ar,tcc$		CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
$^{40}Ar,x$	Many	CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056

1 Hydrogen 2										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,π^-+p	1H	CS	2JPNTOK	3.8+08	8.4+08	Jour	PR/C,42,(3),837	Sep 90	M.Asai+	K2070
π^+,el	2H	POD	2JPNLEP			Jour	PR/C,35,(1),352	Jan 87	I.Yamauchi+	J1270
p,el	2H	DA	2JPNTOK	1.0+07	1.0+07	Jour	JPJ,15,(1),9	Jan 60	S.Kikuchi+	E2038
p,el	2H	DA	2JPNIPIC	1.1+07	1.1+07	Jour	PR/C,27,(3),1932	May 83	M.Sawada+	E0811
p,el	2H	DA	2JPNTOK	1.4+07	1.4+07	Jour	JPJ,15,(1),9	Jan 60	S.Kikuchi+	E2038
p,el	2H	POD	2JPNIPIC	1.1+07	1.1+07	Jour	PR/C,27,(3),1932	May 83	M.Sawada+	E0811
p,el	2H	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,188,(1),21	Apr 87	M.Nakamura+	E1138
$p,n+p$	1H	?	2JPNOSA	5.0+07	8.0+07	Jour	PL/B,177,(2),155	Sep 86	H.Sakai+	E1214
$p,x+n$	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+n$	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075

$p,x+p$	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU		Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU		Dec 95	H.Otsu	E2075
d,el	^2H	DA	2JPNKTO	1.4+07	1.4+07	Jour	PTP,39,(5),1361		May 68	H.Itoh	E2044
d,n	^3He	POD	2JPNIPC	2.7+08	2.7+08	Jour	EPJ/A,33,(1),39		Jul 07	M.Janek+	E2049

1 Hydrogen 3

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					

$\alpha,p+t$	^3H	?	4UKRIJD	6.7+07	6.7+07	Jour	ZNJD,,(2),131	07	O.M.Povoroznyk	D5053
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1 Hydrogen

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					

$^{12}\text{C},tcc$		CS	2JPNIRS	3.1+09	4.4+09	Jour	PR/C,75,(5),054606	May 07	T.Toshito+	E2053
$^{12}\text{C},x$	Many	CS	2JPNIRS	3.1+09	4.4+09	Jour	PR/C,75,(5),054606	May 07	T.Toshito+	E2053
$p,x+n$	inclusive	DAE	2JPNOSA	8.0+07	8.0+07	Jour	PL/B,177,(2),155	Sep 86	H.Sakai+	E1214
$p,x+n$	inclusive	POD	2JPNOSA	8.0+07	8.0+07	Jour	PL/B,177,(2),155	Sep 86	H.Sakai+	E1214
$^{56}\text{Fe},x+n$	inclusive	DAE	2JPNIRS	2.8+10	2.8+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr},x+n$	inclusive	CSP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr},x+n$	inclusive	DAE	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr},x+n$	inclusive	DAP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	CSP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	DAE	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	DAP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{12}\text{C},tcc$		CS	2JPNIRS	2.5+09	4.5+09	Jour	PR/C,75,(5),054606	May 07	T.Toshito+	E2053
$^{12}\text{C},x$	Many	CS	2JPNIRS	3.1+09	4.4+09	Jour	PR/C,75,(5),054606	May 07	T.Toshito+	E2053

2 Helium 3

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					

$\gamma,n+p$	^1H	DAA	1USAUI	9.0+06	2.1+07	Jour	PR,133,B117	64	B.L.Berman+	M0469
γ,p	^2H	DA	1USAYAL	8.9+06	4.6+07	Jour	PR,138,B372	65	J.R.Stewart+	M0470
γ,p	^2H	DA	1USAUI	9.0+06	2.1+07	Jour	PR,133,B117	64	B.L.Berman+	M0469
γ,p	^2H	INT	1USAYAL		4.6+07	Jour	PR,138,B372	65	J.R.Stewart+	M0470
$n,2n+p$	^1H	?	3CRORBZ	1.4+07	1.4+07	Jour	PL,23,477	Nov 66	B.Antolkovic+	30043
n,d	^2H	DA	3CRORBZ	1.4+07	1.4+07	Jour	PL,23,477	Nov 66	B.Antolkovic+	30043
n,el	^3He	DA	3CRORBZ	1.4+07	1.4+07	Jour	PL,23,477	Nov 66	B.Antolkovic+	30043
$n,n+p$	^2H	?	3CRORBZ	1.4+07	1.4+07	Jour	PL,23,477	Nov 66	B.Antolkovic+	30043
n,p	^3H	DA	3CRORBZ	1.4+07	1.4+07	Jour	PL,23,477	Nov 66	B.Antolkovic+	30043
$p,p+p$	^2H	?	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,473,(1),31	Oct 87	S.Kakigi+	E1133
$d,p+d$	^2H	?	2JPNOSA	6.0+07	6.0+07	Jour	NP/A,443,(3),435	Oct 85	A.Okihana	E1222

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Helium

4

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁴ He	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,456,(1),48	Aug 86	K.Fukunaga+	E1203
<i>p,el</i>	⁴ He	?	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,456,(1),48	Aug 86	K.Fukunaga+	E1203
<i>p,inel</i>	⁴ He	DAE	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,456,(1),48	Aug 86	K.Fukunaga+	E1203
<i>p,inel</i>	⁴ He	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,456,(1),48	Aug 86	K.Fukunaga+	E1203
<i>p,p+p</i>	³ H	?	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,456,(1),48	Aug 86	K.Fukunaga+	E1203
<i>d,el</i>	⁴ He	DA	2JPNKTO	1.4+07	1.4+07	Jour	PTP,39,(5),1361	May 68	H.Itoh	E2044
<i>d,el</i>	⁴ He	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,432,(2),378	Jan 85	K.Nisimura+	E0930
<i>d,el</i>	⁴ He	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,432,(2),378	Jan 85	K.Nisimura+	E0930
⁷ Li,x	⁷ Be	DAE	2JPNOSA	4.6+08	4.6+08	Jour	PR/C,76,(2),021305	Aug 07	S.Nakayama+	E2037
⁷ Li,x	⁷ Be	?	2JPNOSA	4.6+08	4.6+08	Jour	PR/C,76,(2),021305	Aug 07	S.Nakayama+	E2037

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Lithium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,abs</i>		?	1CANMRC	Maxwl		Jour	CJR/A,25,73	Mar 47	F.W.Fenning+	11156

3

Lithium

6

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	⁶ Li	DAE	2JPNOSA	6.5+07	8.0+07	Jour	NP/A,493,(1),1	Feb 89	M.Tosaki+	E1228
<i>p,inel</i>	⁶ Li	POD	2JPNOSA	6.5+07	8.0+07	Jour	NP/A,493,(1),1	Feb 89	M.Tosaki+	E1228
<i>p,x+n</i>	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+n</i>	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
⁷ Li,x+α	inclusive	DAE	3INDTRM	1.4+07	1.6+07	Jour	EPJ/AS,25,299	05	S.Adhikari+	D6009

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Lithium

7

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	⁷ Li	DAE	2JPNOSA	6.5+07	8.0+07	Jour	NP/A,493,(1),1	Feb 89	M.Tosaki+	E1228
<i>p,inel</i>	⁷ Li	POD	2JPNOSA	6.5+07	8.0+07	Jour	NP/A,493,(1),1	Feb 89	M.Tosaki+	E1228
<i>p,x+n</i>	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+n</i>	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>α,n+α</i>	⁶ Li	DAA	4UKRIJD	2.7+07	2.7+07	Jour	ZNJD,,(1),36	07	O.F.Nemets+	D5050
<i>α,n+α</i>	⁶ Li	?	4UKRIJD	2.7+07	2.7+07	Jour	ZNJD,,(1),36	07	O.F.Nemets+	D5050
<i>α,n+α</i>	⁶ Li	?	4UKRIJD	2.7+07	2.7+07	Jour	ZNJD,,(2),65	07	Yu.N.Pavlenko+	D5051
<i>α,t+α</i>	⁴ He	?	4UKRIJD	2.7+07	2.7+07	Jour	ZNJD,,(2),65	07	Yu.N.Pavlenko+	D5051
<i>α,x+α</i>	inclusive	DAE	4UKRIJD	2.7+07	2.7+07	Jour	ZNJD,,(1),36	07	O.F.Nemets+	D5050
<i>α,x+α</i>	inclusive	DAE	4UKRIJD	2.7+07	2.7+07	Jour	ZNJD,,(2),65	07	Yu.N.Pavlenko+	D5051
¹⁰ B, ⁷ Li	¹⁰ B	DAP	3POLWWA	5.1+07	5.1+07	Jour	EPJ/A,33,317	07	A.T.Rudchik+	D5052

$^{10}\text{B,el}$	^7Li	DA	3POLWWA	5.1+07	5.1+07	Jour	EPJ/A,33,317	07	A.T.Rudchik+	D5052
$^{10}\text{B,inel}$	^7Li	DAP	3POLWWA	5.1+07	5.1+07	Jour	EPJ/A,33,317	07	A.T.Rudchik+	D5052
$^{56}\text{Fe,x+n}$	inclusive	DAE	2JPNIRS	2.8+10	2.8+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr,x+n}$	inclusive	CSP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr,x+n}$	inclusive	DAE	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr,x+n}$	inclusive	DAP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe,x+n}$	inclusive	CSP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe,x+n}$	inclusive	DAE	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe,x+n}$	inclusive	DAP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050

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Beryllium

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^9Li	CS	3HUNDEB	1.5+07	1.5+07	Jour	AK,4,79	Aug 62	J.Csikai	31309
$p,x+n$	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+n$	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075

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Carbon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\gamma,x+\eta$	inclusive	CS	2JPNTOH	6.3+08	1.1+09	Jour	PL/B,639,(5),429	Aug 06	T.Kinoshita+	K2063
$\gamma,x+\eta$	inclusive	?	2JPNTOH	7.5+08	1.1+09	Jour	PL/B,639,(5),429	Aug 06	T.Kinoshita+	K2063
$\alpha,x+n$	inclusive	PY	2JPNIRS	4.0+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$\alpha,x+n$	inclusive	?	2JPNIRS	4.0+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C,x+n}$	inclusive	PY	2JPNIRS	1.2+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C,x+n}$	inclusive	?	2JPNIRS	1.2+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{20}\text{Ne,x+n}$	inclusive	PY	2JPNIRS	2.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne,x+n}$	inclusive	?	2JPNIRS	2.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{28}\text{Si,x+n}$	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{28}\text{Si,x+n}$	inclusive	?	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{40}\text{Ar,x+n}$	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{40}\text{Ar,x+n}$	inclusive	?	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{56}\text{Fe,x+n}$	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{56}\text{Fe,x+n}$	inclusive	?	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{132}\text{Xe,x+n}$	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{132}\text{Xe,x+n}$	inclusive	?	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756

6

Carbon

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	^{11}C	CS	1CANSAS	1.9+07	2.7+07	Jour	CJP,29,518	51	L.Katz+	M0273
γ,tot		CS	2JPNTOK	3.3+08	5.3+08	Jour	JPJ,36,(5),1499	May 74	S.Homma+	K2066
$\gamma,x+K^0$	inclusive	CS	2JPNTOH	8.8+08	1.1+09	Jour	PL/B,651,(4),269	Aug 07	T.Watanabe+	K2064
$\gamma,x+K^0$	inclusive	?	2JPNTOH	9.0+08	1.1+09	Jour	PL/B,651,(4),269	Aug 07	T.Watanabe+	K2064
$\gamma,x+K^+$	inclusive	DA	2JPNTOK	8.2+08	1.1+09	Jour	PR/C,52,(3),1157	Sep 95	H.Yamazaki+	K2065

$n,inel$	^{12}C	CSP	1USARIC	1.4+06	1.4+06	Jour	PR,94,941	May 54	L.C.Thompson+	11362
π^+,el	^{12}C	DA	2JPNKEK			Jour	PR/C,76,(2),024610	Aug 07	K.Aoki+	J2058
π^-,el	^{12}C	DA	2JPNKEK			Jour	PR/C,76,(2),024610	Aug 07	K.Aoki+	J2058
$\pi^+,inel$	^{12}C	DAP	2JPNKEK			Jour	PR/C,76,(2),024610	Aug 07	K.Aoki+	J2058
$\pi^-,inel$	^{12}C	DAP	2JPNKEK			Jour	PR/C,76,(2),024610	Aug 07	K.Aoki+	J2058
$K^-,x+K^+$	inclusive	DAE	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
$K^-,x+K^+$	inclusive	?	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
$\pi^-,x+\Lambda$	inclusive	POD	2JPNLEP			Jour	PRL,63,(5),490	Jul 89	A.Manabe+	J1333
p,el	^{12}C	DA	2JPNOSA	2.1+07	2.2+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	DA	2JPNTOK	2.2+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
p,el	^{12}C	DA	2JPNOSA	2.4+07	2.5+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	DA	2JPNTOK	2.6+07	2.6+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
p,el	^{12}C	DA	2JPNOSA	2.6+07	2.8+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	DA	2JPNTOK	2.9+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
p,el	^{12}C	DA	2JPNOSA	3.0+07	6.0+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
p,el	^{12}C	DA	2JPNOSA	6.5+07	8.4+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	POD	2JPNOSA	2.1+07	2.2+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	POD	2JPNTOK	2.2+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
p,el	^{12}C	POD	2JPNOSA	2.4+07	2.5+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	POD	2JPNTOK	2.6+07	2.6+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
p,el	^{12}C	POD	2JPNOSA	2.6+07	2.8+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	POD	2JPNTOK	2.9+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
p,el	^{12}C	POD	2JPNOSA	3.0+07	6.5+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
p,el	^{12}C	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
p,el	^{12}C	POD	2JPNOSA	6.5+07	8.4+07	Jour	NIM/A,257,(2),253	Jun 87	M.Ieiri+	E2076
$p,inel$	^{12}C	DAP	2JPNTOK	2.2+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
$p,inel$	^{12}C	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
$p,inel$	^{12}C	POD	2JPNTOK	2.2+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
$p,inel$	^{12}C	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
$p,inel$	^{12}C	?	2JPNTOK	2.2+07	2.9+07	Jour	JPJ,50,(10),3198	Oct 81	T.Fujisawa+	E1406
$p,x+n$	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+n$	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	CS	1USALAS	8.0+08	8.0+08	Jour	PR/C,29,204	Jan 84	J.A.McGill+	T0156
$p,x+p$	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$d,^6\text{Li}$	^8Be	DAP	2JPNOSA	5.2+07	5.2+07	Jour	PR/C,34,(6),2369	Dec 86	T.Yamaya+	E1200
$d,^6\text{Li}$	^8Be	POD	2JPNOSA	5.2+07	5.2+07	Jour	PR/C,34,(6),2369	Dec 86	T.Yamaya+	E1200
d,el	^{12}C	DA	2JPNOSA	3.5+07	5.6+07	Jour	NIM/A,238,(2-3),453	Aug 85	S.Kato+	E0934
d,el	^{12}C	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
d,el	^{12}C	DA	2JPNOSA	6.5+07	7.0+07	Jour	NIM/A,238,(2-3),453	Aug 85	S.Kato+	E0934
d,el	^{12}C	POD	2JPNOSA	3.5+07	5.6+07	Jour	NIM/A,238,(2-3),453	Aug 85	S.Kato+	E0934
d,el	^{12}C	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
d,el	^{12}C	POD	2JPNOSA	6.5+07	7.0+07	Jour	NIM/A,238,(2-3),453	Aug 85	S.Kato+	E0934
α,el	^{12}C	DA	2JPNOSA	4.0+08	4.0+08	Jour	PL/B,653,(2-4),173	Sep 07	T.Wakasa+	E2060
$\alpha,inel$	^{12}C	DAP	2JPNOSA	4.0+08	4.0+08	Jour	PL/B,653,(2-4),173	Sep 07	T.Wakasa+	E2060
$\alpha,x+n$	inclusive	PY	2JPNIRS	4.0+08	7.2+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^7\text{Li},\alpha$	^{15}N	DAP	3INDTRM	7.5+06	1.5+07	Jour	NP/A,792,187	07	V.V.Parkar+	D6015
$^7\text{Li},el$	^{12}C	DA	3INDTRM	7.5+06	1.5+07	Jour	NP/A,792,187	07	V.V.Parkar+	D6015
$^7\text{Li},fus$		CS	3INDTRM	4.7+06	9.5+06	Jour	NP/A,792,187	07	V.V.Parkar+	D6015
$^7\text{Li},x+\alpha$	inclusive	DA	3INDTRM	7.5+06	1.5+07	Jour	NP/A,792,187	07	V.V.Parkar+	D6015
$^7\text{Li},x+\alpha$	inclusive	DAE	3INDTRM	7.5+06	1.5+07	Jour	NP/A,792,187	07	V.V.Parkar+	D6015
$^{14}\text{Be},inel$	^{12}C	CSP	2JPNIPC	9.5+08	9.5+08	Jour	PL/B,654,(5-6),160	Oct 07	T.Sugimoto+	E2048
$^{14}\text{Be},inel$	^{12}C	DAP	2JPNIPC	9.5+08	9.5+08	Jour	PL/B,654,(5-6),160	Oct 07	T.Sugimoto+	E2048
$^{14}\text{Be},inel$	^{12}C	DE	2JPNIPC	9.5+08	9.5+08	Jour	PL/B,654,(5-6),160	Oct 07	T.Sugimoto+	E2048
$^{12}\text{C},el$	^{12}C	DA	2JPNOSA	1.4+08	1.4+08	Jour	PR/C,31,(6),2082	Jun 85	S.Kubono+	E1161
$^{12}\text{C},el$	^{12}C	DA	2JPNOSA	1.4+08	1.4+08	Jour	PL/B,127,(1-2),19	Jul 83	S.Kubono+	E1185

¹² C,el	¹² C	DA	2JPNOSA	1.6+08	1.6+08	Jour	PR/C,31,(6),2082	Jun 85	S.Kubono+	E1161
¹² C,el	¹² C	DA	2JPNOSA	1.6+08	1.6+08	Jour	PL/B,127,(1-2),19	Jul 83	S.Kubono+	E1185
¹² C,incl	¹² C	DAP	2JPNOSA	1.4+08	1.6+08	Jour	PR/C,31,(6),2082	Jun 85	S.Kubono+	E1161
¹² C,x+n	inclusive	PY	2JPNIRS	1.2+09	4.8+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
¹⁴ N,x+n	inclusive	CSP	2JPNIRS	5.6+09	5.6+09	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹⁴ N,x+n	inclusive	DAE	2JPNIRS	5.6+09	5.6+09	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹⁴ N,x+n	inclusive	DAP	2JPNIRS	5.6+09	5.6+09	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹⁶ O,el	¹² C	DA	2JPNJAE	7.0+07	1.3+08	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²¹ Ne	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²² Ne	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²¹ Na	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²² Na	CS	2JPNJAE	3.0+07	5.6+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²³ Na	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁴ Na	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁵ Na	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²² Mg	CS	2JPNJAE	3.9+07	5.6+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²³ Mg	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁴ Mg	CS	2JPNJAE	3.0+07	5.6+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁵ Mg	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁶ Mg	CS	2JPNJAE	3.0+07	5.6+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁵ Al	CS	2JPNJAE	3.0+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
¹⁶ O,x	²⁶ Al	CS	2JPNJAE	3.0+07	5.6+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezo+	E1147
²⁰ Ne,α+α	²⁴ Mg	?	2JPN TOK	5.2+07	5.2+07	Jour	NP/A,457,(2),461	Sep 86	S.Kubono+	E1140
²⁰ Ne,α+α	²⁴ Mg	?	2JPN TOK	5.2+07	5.2+07	Jour	PR/C,33,(4),1524	Apr 86	S.Kubono+	E1152
²⁰ Ne,α+p	²⁷ Al	?	2JPN TOK	5.2+07	5.2+07	Jour	NP/A,457,(2),461	Sep 86	S.Kubono+	E1140
²⁰ Ne,x+α	inclusive	DAE	3INDVEC	1.4+08	2.0+08	Jour	PR/C,74,(4),044605	06	Aparajitadey+	D6048
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	2.0+09	8.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
²³ Al,non		CS	2JPNIPC	1.7+09	1.7+09	Jour	PR/C,76,(3),031601	Sep 07	D.Q.Fang+	E2047
²³ Al,x	²² Mg	DP	2JPNIPC	1.7+09	1.7+09	Jour	PR/C,76,(3),031601	Sep 07	D.Q.Fang+	E2047
²⁴ Al,non		CS	2JPNIPC	1.8+09	1.8+09	Jour	PR/C,76,(3),031601	Sep 07	D.Q.Fang+	E2047
²⁸ Si,x+n	inclusive	CSP	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁸ Si,x+n	inclusive	DAE	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁸ Si,x+n	inclusive	DAP	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁸ Si,x+n	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
⁴⁰ Ar,tcc		CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
⁴⁰ Ar,x	Many	CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
⁴⁰ Ar,x+n	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
⁵⁶ Fe,x+n	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
⁸⁴ Kr,x+n	inclusive	CSP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
⁸⁴ Kr,x+n	inclusive	DAE	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
⁸⁴ Kr,x+n	inclusive	DAP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	CSP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	DAE	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	DAP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079

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Carbon

13

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>p,x+n</i>	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+n</i>	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075

7 Nitrogen 13

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,0$		RP	2JPNIPC			Jour	PL/B,650,(2-3),129	Jun 07	T.Teranishi+	E2057

7 Nitrogen 14

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,el	^{14}N	DA	1USAORL	4.3+06	8.6+06	Rept	ORNL-4805	Feb 74	F.G.Perey+	10283
$n,inel$	^{14}N	DAP	1USAORL	6.0+06	8.6+06	Rept	ORNL-4805	Feb 74	F.G.Perey+	10283

7 Nitrogen 15

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,tot		CS	1USALOK	2.2+06	4.5+06	Jour	PR,135,B1347	64	D.B.Fossan+	11333

8 Oxygen 16

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,inel$	^{16}O	CSP	1USARIC	1.4+07	1.4+07	Jour	PR,94,941	May 54	L.C.Thompson+	11362
p,el	^{16}O	DA	2JPNTOK	1.0+07	1.6+07	Jour	JPJ,15,(7),1164	Jul 60	S.Kobayashi	E2035
p,el	^{16}O	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	^{16}O	DA	2JPNTOK	6.9+06	9.4+06	Jour	JPJ,15,(7),1164	Jul 60	S.Kobayashi	E2035
p,el	^{16}O	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
$p,inel$	^{16}O	CSP	2JPNTOK	1.6+07	1.6+07	Jour	JPJ,15,(7),1164	Jul 60	S.Kobayashi	E2035
$d,^6\text{Li}$	^{12}C	DAP	2JPNOSA	5.2+07	5.2+07	Jour	PR/C,34,(6),2369	Dec 86	T.Yamaya+	E1200
$d,^6\text{Li}$	^{12}C	POD	2JPNOSA	5.2+07	5.2+07	Jour	PR/C,34,(6),2369	Dec 86	T.Yamaya+	E1200
d,el	^{16}O	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
d,el	^{16}O	DA	2ITYCAT	9.8+05	2.0+06	Jour	NC,14,692	73	S.Cavallaro+	D0152
d,el	^{16}O	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
α,d	^{18}F	DAP	2JPNTOK	6.5+07	6.5+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1148
α,d	^{18}F	DAP	2JPNTOK	6.5+07	6.5+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1378
$^{16}\text{O},el$	^{16}O	DA	2JPNJAE	7.0+07	1.3+08	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{20}Ne	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{21}Ne	CS	2JPNJAE	4.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{22}Ne	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{22}Na	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{23}Na	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{24}Na	CS	2JPNJAE	4.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{25}Na	CS	2JPNJAE	5.4+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{23}Mg	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{24}Mg	CS	2JPNJAE	3.5+07	6.6+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{25}Mg	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{26}Mg	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147

$^{16}\text{O},x$	^{26}Al	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{27}Al	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{28}Al	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{27}Si	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{28}Si	CS	2JPNJAE	3.5+07	6.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{16}\text{O},x$	^{29}Si	CS	2JPNJAE	3.5+07	5.5+07	Jour	NP/A,456,(2),298	Aug 86	H.Ikezoe+	E1147
$^{20}\text{Ne},\alpha+\alpha$	^{28}Si	?	2JPNTOK	5.2+07	5.2+07	Jour	PRL,55,(2),185	Jul 85	K.Morita+	E1166

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Oxygen

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	2JPNETL	8.1+06	1.4+07	Jour	PRL,80,(1),33	Jan 98	H.Harada+	K2061
γ,abs		RP	2JPNETL			Jour	PRL,80,(1),33	Jan 98	H.Harada+	K2061
γ,n	^{17}O	CSP	1USAPEN	9.8+06	2.0+07	Jour	PR,133,(3),B660	64	S.F.Mughabghab+	M0322
γ,n	^{17}O	DAE	1USAPEN		2.0+07	Jour	PR,133,(3),B660	64	S.F.Mughabghab+	M0322
α,d	^{20}F	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1148
α,d	^{20}F	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1378

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Fluorine

19

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSLEB	7.6+06	2.9+07	Jour	IZV,30,349	66	B.S.Dolbilkin+	M0727

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Neon

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{20}Ne	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	^{20}Ne	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
α,d	^{22}Na	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1148
α,d	^{22}Na	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1378

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Neon

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,d	^{24}Na	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1148
α,d	^{24}Na	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1378

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Magnesium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,p		CSP	4RUSMOS	1.4+07	3.0+07	Jour	IZV,30,378	66	B.S.Ishkhanov+	M0725

γ,p		DAE	4RUSMOS		3.4+07	Jour	IZV,30,378	66	B.S.Ishkhanov+	M0725
γ,p		DAP	4RUSMOS		3.2+07	Jour	IZV,30,378	66	B.S.Ishkhanov+	M0725
n,el	^{nat}Mg	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
$n,inel$	^{nat}Mg	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
n,sct	^{nat}Mg	CS	1USAANL	2.2+06	4.5+06	Conf	65ANTWERP,,288(103)	Jul 65	A.J.Elwyn	11506
n,sct	^{nat}Mg	DA	1USAANL	2.2+06	4.5+06	Conf	65ANTWERP,,288(103)	Jul 65	A.J.Elwyn	11506
n,sct	^{nat}Mg	DA	1USATEX	2.8+06	2.8+06	Jour	RMF,4,1	54	P.Okhuysen+	11498

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Magnesium

24

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSLEB	1.1+07	3.0+07	Jour	IZV,30,349	66	B.S.Dolbilkin+	M0727
p,el	^{24}Mg	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	^{24}Mg	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
p,el	^{24}Mg	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	^{24}Mg	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
p,γ		RP	4UKRUFT	2.4+06	2.4+06	Jour	IZV,63,(5),1021	99	A.N.Vodin+	D5031
$p,inel$	^{24}Mg	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
$p,inel$	^{24}Mg	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
t,p	^{26}Mg	CSP	2JPNNIG	1.6+06	3.4+06	Priv	MURATA	Dec 06	S.Takayanagi+	E2031
t,p	^{26}Mg	DAP	2JPNNIG	1.5+06	3.5+06	Priv	MURATA	Dec 06	S.Takayanagi+	E2031
$^3\text{He},x$	Many	CS	1USAINU	8.0+07	8.0+07	Jour	PR/C,14,4	76	P.P.Singh+	D6020
α,d	^{26}Al	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1148
α,d	^{26}Al	DAP	2JPNTOK	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1378
$^6\text{Li},d$	^{28}Si	DAP	2JPNTOK	7.3+07	7.3+07	Jour	NP/A,399,(1),241	Mar 83	T.Tanabe+	E1189
$^6\text{Li},el$	^{24}Mg	DA	2JPNTOK	7.3+07	7.3+07	Jour	NP/A,399,(1),241	Mar 83	T.Tanabe+	E1189

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Magnesium

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,γ		RP	4UKRUFT			Jour	IZV,63,(5),1021	99	A.N.Vodin+	D5031
p,γ	^{27}Al	DAP	4UKRUFT	2.4+06	2.4+06	Jour	IZV,63,(5),1021	99	A.N.Vodin+	D5031
$^3\text{He},x$	Many	CS	1USAINU	8.0+07	8.0+07	Jour	PR/C,14,4	76	P.P.Singh+	D6020
$^6\text{Li},d$	^{30}Si	DAP	2JPNTOK	7.3+07	7.3+07	Jour	NP/A,399,(1),241	Mar 83	T.Tanabe+	E1189
$^6\text{Li},el$	^{26}Mg	DA	2JPNTOK	7.3+07	7.3+07	Jour	NP/A,399,(1),241	Mar 83	T.Tanabe+	E1189

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Aluminium

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,tot		CS	2JPNTOK	2.3+08	9.1+08	Jour	JPJ,36,(5),1499	May 74	S.Homma+	K2066
$K^-,x+K^+$	inclusive	DAE	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
$K^-,x+K^+$	inclusive	?	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
p,α	^{24}Mg	DAP	2JPNTOK	1.1+07	1.5+07	Jour	JPJ,15,(10),1719	Oct 60	H.Ogata+	E2039
p,non		CS	2JPNTSU	1.5+07	1.7+07	Jour	NIM/A,487,(3),565	Jul 02	N.Okumura+	E2041
$^3\text{He},x$	Many	CS	1USAINU	8.0+07	8.0+07	Jour	PR/C,14,4	76	P.P.Singh+	D6020
$\alpha,x+n$	inclusive	CSP	2JPNIRS	9.2+08	9.2+08	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$\alpha,x+n$	inclusive	DAE	2JPNIRS	9.2+08	9.2+08	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050

$\alpha, x+n$	inclusive	DAP	2JPNIRS	9.2+08	9.2+08	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$\alpha, x+n$	inclusive	PY	2JPNIRS	4.0+08	4.0+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$\alpha, x+n$	inclusive	PY	2JPNIRS	4.0+08	4.0+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$\alpha, x+n$	inclusive	PY	2JPNIRS	7.2+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$\alpha, x+n$	inclusive	PY	2JPNIRS	7.2+08	7.2+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$\alpha, x+n$	inclusive	?	2JPNIRS	4.0+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C}, x+n$	inclusive	PY	2JPNIRS	1.2+09	1.2+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C}, x+n$	inclusive	PY	2JPNIRS	1.2+09	1.2+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{12}\text{C}, x+n$	inclusive	PY	2JPNIRS	2.2+09	2.2+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C}, x+n$	inclusive	PY	2JPNIRS	2.2+09	2.2+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{12}\text{C}, x+n$	inclusive	PY	2JPNIRS	4.8+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C}, x+n$	inclusive	PY	2JPNIRS	4.8+09	4.8+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{12}\text{C}, x+n$	inclusive	?	2JPNIRS	1.2+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{16}\text{O}, x$	^{24}Ne	CS	3INDNSD	8.6+07	9.4+07	Jour	PR/C,75,064608	07	Manojkumarsharma+	D6052
$^{16}\text{O}, x$	^{24}Na	CS	3INDNSD	5.8+07	9.4+07	Jour	PR/C,75,064608	07	Manojkumarsharma+	D6052
$^{16}\text{O}, x$	^{27}Mg	CS	3INDNSD	8.8+07	9.4+07	Jour	PR/C,75,064608	07	Manojkumarsharma+	D6052
$^{16}\text{O}, x$	^{28}Mg	CS	3INDNSD	7.6+07	9.4+07	Jour	PR/C,75,064608	07	Manojkumarsharma+	D6052
$^{16}\text{O}, x$	^{34}Cl	CS	3INDNSD	5.8+07	9.4+07	Jour	PR/C,75,064608	07	Manojkumarsharma+	D6052
$^{20}\text{Ne}, x+\alpha$	inclusive	DAE	3INDVEC	1.6+08	1.6+08	Jour	PR/C,74,(4),044605	06	Aparajitadey+	D6048
$^{20}\text{Ne}, x+n$	inclusive	PY	2JPNIRS	2.0+09	2.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne}, x+n$	inclusive	PY	2JPNIRS	2.0+09	2.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{20}\text{Ne}, x+n$	inclusive	PY	2JPNIRS	3.6+09	3.6+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne}, x+n$	inclusive	PY	2JPNIRS	3.6+09	3.6+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{20}\text{Ne}, x+n$	inclusive	PY	2JPNIRS	8.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne}, x+n$	inclusive	PY	2JPNIRS	8.0+09	8.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{20}\text{Ne}, x+n$	inclusive	?	2JPNIRS	2.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{40}\text{Ar}, \text{tcc}$		CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
$^{40}\text{Ar}, x$	Many	CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
$^{40}\text{Ar}, x+n$	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{40}\text{Ar}, x+n$	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{40}\text{Ar}, x+n$	inclusive	?	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{56}\text{Fe}, x+n$	inclusive	DAE	2JPNIRS	2.8+10	2.8+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{56}\text{Fe}, x+n$	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{56}\text{Fe}, x+n$	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{56}\text{Fe}, x+n$	inclusive	?	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{84}\text{Kr}, x+n$	inclusive	CSP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr}, x+n$	inclusive	DAE	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr}, x+n$	inclusive	DAP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe}, x+n$	inclusive	CSP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe}, x+n$	inclusive	DAE	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe}, x+n$	inclusive	DAP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe}, x+n$	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{132}\text{Xe}, x+n$	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{132}\text{Xe}, x+n$	inclusive	?	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756

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Silicon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
n, el	^{nat}Si	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
n, inel	^{nat}Si	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
p, non		CS	2JPNITSU	1.4+07	1.7+07	Jour	NIM/A,487,(3),565	Jul 02	N.Okumura+	E2041
n, tot		CS	1USACOL	3.0+06	8.0+06	Jour	RSI,36,887	65	B.M.Rustad+	11586

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	²⁸ Si	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	²⁸ Si	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>p,el</i>	²⁸ Si	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	²⁸ Si	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>p,inel</i>	²⁸ Si	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>p,inel</i>	²⁸ Si	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>α,d</i>	³⁰ P	DAP	2JPNOSA	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1148
<i>α,d</i>	³⁰ P	DAP	2JPNOSA	6.4+07	6.4+07	Jour	NP/A,458,(3),523	Oct 86	Y.Kadota+	E1378
⁷ Li,fus		CS	3INDTRM	9.1+06	2.1+07	Jour	PR/C,76,027603	07	Mandirasinha+	D6053
⁷ Li,x+α	inclusive	DA	3INDTRM	1.6+07	2.6+07	Jour	PR/C,76,027603	07	Mandirasinha+	D6053
⁷ Li,x+α	inclusive	DAE	3INDTRM	1.6+07	2.6+07	Jour	PR/C,76,027603	07	Mandirasinha+	D6053

15 Phosphorus 31

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,n</i>	³⁰ P	CS	1CANSAS	1.3+07	2.5+07	Jour	CJP,29,518	51	L.Katz+	M0273
<i>γ,p</i>	³⁰ Si	DE	4RUSMOS		3.4+07	Jour	IZV,30,1385	66	B.S.Ishkhanov+	M0724

16 Sulphur

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	^{nat} S	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527

16 Sulphur 32

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,n+p</i>	³⁰ P	CS	1CANSAS	2.0+07	2.7+07	Jour	CJP,29,518	51	L.Katz+	M0273
<i>p,el</i>	³² S	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>p,el</i>	³² S	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>p,inel</i>	³² S	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926
<i>p,inel</i>	³² S	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,31,(5),1616	May 85	S.Kato+	E0926

17 Chlorine 35

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,α</i>	³¹ P	?	4RUSMOS		3.2+07	Jour	YF,57,2300	94	B.S.Ishkhanov+	M0723
<i>γ,n</i>	³⁴ Cl	?	4RUSMOS		3.2+07	Jour	YF,57,2300	94	B.S.Ishkhanov+	M0723
<i>γ,p</i>	³⁴ S	?	4RUSMOS		3.2+07	Jour	YF,57,2300	94	B.S.Ishkhanov+	M0723

17

Chlorine

37

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,α	³³ P	?	4RUSMOS		3.2+07	Jour	YF,57,2300	94	B.S.Ishkhanov+	M0723
γ,n	³⁶ Cl	?	4RUSMOS		3.2+07	Jour	YF,57,2300	94	B.S.Ishkhanov+	M0723
γ,p	³⁶ S	?	4RUSMOS		3.2+07	Jour	YF,57,2300	94	B.S.Ishkhanov+	M0723

18

Argon

40

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	⁴⁰ Ar	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	⁴⁰ Ar	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166

19

Potassium

41

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,π^+	⁴¹ Ar	CS	2JPNTOH		5.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026

20

Calcium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,x+n$	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+n$	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075

20

Calcium

40

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSLEB	1.1+07	2.8+07	Jour	IZV,30,349	66	B.S.Dolbilkin+	M0727
n,γ		RP	3AULAML			Jour	AUJ,24,671	Oct 71	D.M.H.Chan+	31475
p,el	⁴⁰ Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	⁴⁰ Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
p,el	⁴⁰ Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p,el	⁴⁰ Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
$p,x+p$	inclusive	CS	1USALAS	8.0+08	8.0+08	Jour	PR/C,29,204	Jan 84	J.A.McGill+	T0156
d,el	⁴⁰ Ca	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
d,el	⁴⁰ Ca	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
d,el	⁴⁰ Ca	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
d,el	⁴⁰ Ca	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194

20 Calcium 42										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		RP	3AULAML			Jour	AUJ,24,671	Oct 71	D.M.H.Chan+	31475
<i>p,el</i>	⁴² Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁴² Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249

20 Calcium 44										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		RP	3AULAML			Jour	AUJ,24,671	Oct 71	D.M.H.Chan+	31475
<i>p,el</i>	⁴⁴ Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	⁴⁴ Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁴⁴ Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	⁴⁴ Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249

20 Calcium 48										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁴⁸ Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	⁴⁸ Ca	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁴⁸ Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	⁴⁸ Ca	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249

21 Scandium 45										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	⁴⁴ Sc	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449
¹⁶ O,x	⁴⁸ V	CS	3INDVEC	6.6+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁴⁹ Cr	CS	3INDVEC	9.7+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵¹ Cr	CS	3INDVEC	6.6+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵² Mn	CS	3INDVEC	4.5+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁴ Mn	CS	3INDVEC	5.1+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁵ Co	CS	3INDVEC	3.9+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁶ Co	CS	3INDVEC	5.1+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁷ Co	CS	3INDVEC	4.5+07	1.0+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁸ Co	CS	3INDVEC	3.9+07	8.6+07	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁶ Ni	CS	3INDVEC	8.0+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003
¹⁶ O,x	⁵⁷ Ni	CS	3INDVEC	3.9+07	1.1+08	Jour	JPJ,75,(10),104201	06	D.Singh+	D6003

22 Titanium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,el	^{nat} Ti	DA	1USAORL	4.1+06	8.6+06	Rept	ORNL-4810	Oct 73	W.E.Kinney+	10285
<i>n</i> ,el	^{nat} Ti	?	1USAORL	5.2+06	5.2+06	Rept	ORNL-4810	Oct 73	W.E.Kinney+	10285
<i>n</i> ,inel	^{nat} Ti	DAE	1USAORL	5.2+06	8.6+06	Rept	ORNL-4810	Oct 73	W.E.Kinney+	10285
<i>n</i> ,inel	⁴⁸ Ti	DAP	1USAORL		8.6+06	Rept	ORNL-4810	Oct 73	W.E.Kinney+	10285
<i>p</i> ,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,28,(4),1718	Oct 83	T.Asano+	E1243
<i>p</i> ,x	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,60,(1),107	Jan 91	Y.Asano+	E1251

22 Titanium 46

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁴⁶ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p</i> ,el	⁴⁶ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p</i> ,el	⁴⁶ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p</i> ,el	⁴⁶ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249

22 Titanium 48

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁴⁸ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p</i> ,el	⁴⁸ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p</i> ,el	⁴⁸ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p</i> ,el	⁴⁸ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p</i> ,inel	⁴⁸ Ti	DAP	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,inel	⁴⁸ Ti	POD	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,inel	⁴⁸ Ti	?	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242

22 Titanium 50

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁵⁰ Ti	DA	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,el	⁵⁰ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p</i> ,el	⁵⁰ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p</i> ,el	⁵⁰ Ti	POD	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,el	⁵⁰ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p</i> ,el	⁵⁰ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p</i> ,inel	⁵⁰ Ti	DAP	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,inel	⁵⁰ Ti	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,32,(3),830	Sep 85	M.Fujiwara+	E1089
<i>p</i> ,inel	⁵⁰ Ti	POD	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466
<i>p</i> ,inel	⁵⁰ Ti	?	2JPNTSU	1.1+07	1.8+07	Jour	PR/C,41,(4),1486	Apr 90	M.Tomizawa+	E1466

23 Vanadium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,tot		CS	1USACOL	2.5+06	2.5+06	Jour	RSI,36,887	65	B.M.Rustad+	11586

23 Vanadium 51

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,π^-	^{51}Cr	CS	2JPNTOH		3.0+07	Jour	NP/A,501,(4),693	Oct 89	K.Sakamoto+	K2030
γ,π^-+2n	^{49}Cr	CS	2JPNTOH		3.0+07	Jour	NP/A,501,(4),693	Oct 89	K.Sakamoto+	K2030
γ,π^-+3n	^{48}Cr	CS	2JPNTOH		3.0+07	Jour	NP/A,501,(4),693	Oct 89	K.Sakamoto+	K2030
γ,π^+	^{51}Ti	CS	2JPNTOH		4.0+07	Jour	NP/A,501,(4),693	Oct 89	K.Sakamoto+	K2030
γ,x	^{24}Na	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{27}Mg	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{28}Mg	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{28}Al	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{29}Al	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{38}S	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{34}Cl	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{38}Cl	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{39}Cl	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{41}Ar	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{42}K	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{43}K	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{44}K	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{45}K	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{47}Ca	CS	2JPNTOK		7.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{43}Sc	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{44}Sc	CS	2JPNTOK		1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{46}Sc	CS	2JPNTOK		6.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{47}Sc	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{48}Sc	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{48}V	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
n,α	^{48}Sc	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449
p,n	^{51}Cr	CS	3INDTRM	1.9+06	5.5+06	Jour	PRM,9,(4),419	77	M.K.Mehta+	D6059

24 Chromium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,el	^{nat}Cr	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
$n,inel$	^{nat}Cr	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527

24 Chromium 50

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{50}Cr	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249

<i>p,el</i>	⁵⁰ Cr	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,n</i>	⁵⁰ Mn	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110

24 Chromium 52

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁵² Cr	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁵² Cr	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,inel</i>	⁵² Cr	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,32,(3),830	Sep 85	M.Fujiwara+	E1089
<i>p,n</i>	⁵² Mn	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110

24 Chromium 53

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁵³ Mn	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110

24 Chromium 54

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁵⁴ Cr	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁵⁴ Cr	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249

25 Manganese 55

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,x+n</i>	inclusive	CS	4RUSMOS	1.0+07	2.9+07	Jour	IZV,34,2228	70	B.S.Ishkhanov+	M0726
<i>γ,x+n</i>	inclusive	INT	4RUSMOS		3.0+07	Jour	IZV,34,2228	70	B.S.Ishkhanov+	M0726
<i>n,tot</i>		CS	1USAKAP	2.2+06	5.6+06	Jour	RSI,28,514	Jul 57	R.Fulwood+	11681
<i>p,α</i>	⁵² Cr	DAP	2JPNTOK	7.6+06	1.3+07	Jour	JPJ,15,(10),1726	Oct 60	H.Ogata+	E2040

26 Iron

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,28,(4),1718	Oct 83	T.Asano+	E1243
<i>p,x</i>	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,60,(1),107	Jan 91	Y.Asano+	E1251

				26		Iron		54			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #	
				Min	Max						
γ,n	⁵³ Fe	CS	1CANSAS	1.4+07	2.4+07	Jour	CJP,29,518	51	L.Katz+	M0273	
p,el	⁵⁴ Fe	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166	
p,el	⁵⁴ Fe	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249	
p,el	⁵⁴ Fe	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166	
p,el	⁵⁴ Fe	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249	
$p,inel$	⁵⁴ Fe	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,32,(3),830	Sep 85	M.Fujiwara+	E1089	
p,n	⁵⁴ Co	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110	

				26		Iron		56			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #	
				Min	Max						
p,el	⁵⁶ Fe	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249	
p,el	⁵⁶ Fe	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201	
p,el	⁵⁶ Fe	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249	
p,el	⁵⁶ Fe	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201	
p,n	⁵⁶ Co	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110	
p,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242	
³ He,x	Many	CS	1USAINU	8.0+07	8.0+07	Jour	PR/C,14,4	76	P.P.Singh+	D6020	

				26		Iron		57			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #	
				Min	Max						
p,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242	

				26		Iron		58			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #	
				Min	Max						
p,n	⁵⁸ Co	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110	

				27		Cobalt		59			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #	
				Min	Max						
γ,x	³⁴ Cl	CS	2JPNTOK		5.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	³⁸ Cl	CS	2JPNTOK		4.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	³⁹ Cl	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	⁴¹ Ar	CS	2JPNTOK		2.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	⁴² K	CS	2JPNTOK		4.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	⁴³ K	CS	2JPNTOK		2.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	⁴⁷ Ca	CS	2JPNTOK		2.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	
γ,x	⁴³ Sc	CS	2JPNTOK		2.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027	

γ,x	⁴⁴ Sc	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁴⁶ Sc	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁴⁷ Sc	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁴⁸ Sc	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁴⁸ V	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁴⁸ Cr	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁴⁹ Cr	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵¹ Cr	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵² Mn	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵⁴ Mn	CS	2JPNTOK		4.0+07	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵⁶ Mn	CS	2JPNTOK		4.0+07	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵² Fe	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵³ Fe	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵⁵ Co	CS	2JPNTOK		6.8+07	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵⁶ Co	CS	2JPNTOK		4.0+07	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵⁷ Co	CS	2JPNTOK		4.0+07	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
γ,x	⁵⁸ Co	CS	2JPNTOK		4.0+07	Jour	RCA,55,(3),113		91	S.R.Sarkar+	K2027
<i>n,2n</i>	⁵⁸ Co	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+		31449
<i>n,α</i>	⁵⁶ Mn	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+		31449
<i>n,p</i>	⁵⁹ Fe	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+		31449
<i>p,α</i>	⁵⁶ Fe	DAP	2JPNTOK	7.7+06	1.4+07	Jour	JPJ,15,(10),1726	Oct 60	H.Ogata+		E2040
<i>p,el</i>	⁵⁹ Co	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+		E1201
<i>p,el</i>	⁵⁹ Co	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+		E1201
<i>p,n</i>	⁵⁹ Ni	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+		T0110
<i>p,x</i>	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,28,(4),1718	Oct 83	T.Asano+		E1243
<i>p,x</i>	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,60,(1),107	Jan 91	Y.Asano+		E1251
³ He, <i>n</i>	⁶¹ Cu	CS	2JPNIPC	1.9+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+		E1961
³ He, <i>n</i>	⁶¹ Cu	CS	2JPNIPC	1.9+07	4.0+07	Jour	CL,5,(5),397	May 76	Y.Homma+		E2073
³ He, <i>n</i>	⁶¹ Cu	TT	2JPNIPC	1.9+07	4.1+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+		E1961
³ He, <i>n</i>	⁶¹ Cu	TT	2JPNIPC	1.9+07	4.1+07	Jour	CL,5,(5),397	May 76	Y.Homma+		E2073
$\alpha,2n$	⁶¹ Cu	CS	2JPNIPC	1.3+07	3.7+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+		E1961
$\alpha,2n$	⁶¹ Cu	CS	2JPNIPC	1.3+07	3.7+07	Jour	CL,5,(5),397	May 76	Y.Homma+		E2073
$\alpha,2n$	⁶¹ Cu	TT	2JPNIPC	1.6+07	3.7+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+		E1961
$\alpha,2n$	⁶¹ Cu	TT	2JPNIPC	1.6+07	3.7+07	Jour	CL,5,(5),397	May 76	Y.Homma+		E2073

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Nickel

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	^{nat} Ni	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
<i>n,inel</i>	^{nat} Ni	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
<i>p,x</i>	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,28,(4),1718	Oct 83	T.Asano+	E1243
<i>p,x</i>	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,60,(1),107	Jan 91	Y.Asano+	E1251

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Nickel

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	⁵⁷ Ni	CS	1CANSAS	1.2+07	2.2+07	Jour	CJP,29,518	51	L.Katz+	M0273
<i>n,γ</i>	⁵⁹ Ni	CS	3BZLIPE	2.5-02	2.5-02	Conf	88MITO,,133	Jun 88	A.W.Carbonari+	30926
<i>n,γ</i>	⁵⁹ Ni	CSP	3BZLIPE	2.5-02	2.5-02	Conf	88MITO,,133	Jun 88	A.W.Carbonari+	30926
<i>n,γ</i>	⁵⁹ Ni	SPC	3BZLIPE	2.5-02	2.5-02	Conf	88MITO,,133	Jun 88	A.W.Carbonari+	30926
<i>p,el</i>	⁵⁸ Ni	DA	2JPNOSA	2.5+08	2.5+08	Jour	MSK/A,44,(1),1	Mar 03	H.Takeda	E2042

<i>p,el</i>	⁵⁸ Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁵⁸ Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,el</i>	⁵⁸ Ni	POD	2JPNOSA	2.0+08	4.0+08	Jour	MSK/A,44,(1),1	Mar 03	H.Takeda	E2042
<i>p,el</i>	⁵⁸ Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁵⁸ Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,n</i>	⁵⁸ Cu	POD	2JPNOSA	8.0+07	8.0+07	Jour	PR/C,35,(4),1280	Apr 87	H.Sakai+	E1139
<i>p,n</i>	⁵⁸ Cu	?	2JPNOSA	8.0+07	8.0+07	Jour	PR/C,35,(4),1280	Apr 87	H.Sakai+	E1139
<i>p,t</i>	⁵⁶ Ni	DAP	2JPNTSU	2.2+04	2.2+04	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,t</i>	⁵⁶ Ni	POD	2JPNTSU	2.2+04	2.2+04	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,x</i>	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242
<i>d,el</i>	⁵⁸ Ni	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁵⁸ Ni	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d,el</i>	⁵⁸ Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁵⁸ Ni	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
³ He,x	Many	CS	1USAINU	8.0+07	8.0+07	Jour	PR/C,14,4	76	P.P.Singh+	D6020

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Nickel

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,d</i>	⁵⁹ Ni	DAP	2JPNTSU	2.2+04	2.2+04	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,d</i>	⁵⁹ Ni	POD	2JPNTSU	2.2+04	2.2+04	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,el</i>	⁶⁰ Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁶⁰ Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,el</i>	⁶⁰ Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁶⁰ Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,n</i>	⁶⁰ Cu	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
<i>p,t</i>	⁵⁸ Ni	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,t</i>	⁵⁸ Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,x</i>	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242
<i>d,el</i>	⁶⁰ Ni	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁶⁰ Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

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Nickel

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁶² Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁶² Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,el</i>	⁶² Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁶² Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,t</i>	⁶⁰ Ni	DAP	2JPNTSU	1.8+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,t</i>	⁶⁰ Ni	POD	2JPNTSU	1.8+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>d,el</i>	⁶² Ni	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁶² Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

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Nickel

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					

<i>p,d</i>	⁶³ Ni	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,d</i>	⁶³ Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,el</i>	⁶⁴ Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁶⁴ Ni	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,el</i>	⁶⁴ Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	NP/A,366,(2),189	Aug 81	T.Noro+	E0249
<i>p,el</i>	⁶⁴ Ni	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
<i>p,t</i>	⁶² Ni	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>p,t</i>	⁶² Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	PR/C,29,(1),328	Jan 84	H.Iida+	E0970
<i>d,el</i>	⁶⁴ Ni	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁶⁴ Ni	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

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Copper

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,tot		CS	2JPNTOK	3.3+08	5.3+08	Jour	JPJ,36,(5),1499	May 74	S.Homma+	K2066
γ ,x	Many	CS	2JPNTOK	1.0+08	1.0+09	Jour	PR/C,35,(1),254	Jan 87	S.Shibata+	K2028
γ ,x+ η	inclusive	CS	2JPNTOH	5.9+08	1.1+09	Jour	PL/B,639,(5),429	Aug 06	T.Kinoshita+	K2063
γ ,x+ η	inclusive	?	2JPNTOH	7.5+08	1.1+09	Jour	PL/B,639,(5),429	Aug 06	T.Kinoshita+	K2063
K^- ,x+ K^+	inclusive	DAE	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
K^- ,x+ K^+	inclusive	?	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
<i>p,x</i>	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,28,(4),1718	Oct 83	T.Asano+	E1243
<i>p,x</i>	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,60,(1),107	Jan 91	Y.Asano+	E1251
<i>p,x+p</i>	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
α ,x+n	inclusive	CSP	2JPNIRS	9.2+08	9.2+08	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
α ,x+n	inclusive	DAE	2JPNIRS	9.2+08	9.2+08	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
α ,x+n	inclusive	DAP	2JPNIRS	9.2+08	9.2+08	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
α ,x+n	inclusive	PY	2JPNIRS	4.0+08	4.0+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
α ,x+n	inclusive	PY	2JPNIRS	4.0+08	4.0+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
α ,x+n	inclusive	PY	2JPNIRS	7.2+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
α ,x+n	inclusive	PY	2JPNIRS	7.2+08	7.2+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
α ,x+n	inclusive	?	2JPNIRS	4.0+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
¹² C,x+n	inclusive	PY	2JPNIRS	1.2+09	1.2+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
¹² C,x+n	inclusive	PY	2JPNIRS	1.2+09	1.2+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
¹² C,x+n	inclusive	PY	2JPNIRS	2.2+09	2.2+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
¹² C,x+n	inclusive	PY	2JPNIRS	2.2+09	2.2+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
¹² C,x+n	inclusive	PY	2JPNIRS	4.8+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
¹² C,x+n	inclusive	PY	2JPNIRS	4.8+09	4.8+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
¹² C,x+n	inclusive	?	2JPNIRS	1.2+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
¹⁴ N,x+n	inclusive	CSP	2JPNIRS	5.6+09	5.6+09	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹⁴ N,x+n	inclusive	DAE	2JPNIRS	5.6+09	5.6+09	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹⁴ N,x+n	inclusive	DAP	2JPNIRS	5.6+09	5.6+09	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	2.0+09	2.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	2.0+09	2.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	3.6+09	3.6+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	3.6+09	3.6+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	8.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
²⁰ Ne,x+n	inclusive	PY	2JPNIRS	8.0+09	8.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
²⁰ Ne,x+n	inclusive	?	2JPNIRS	2.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
²⁸ Si,x+n	inclusive	CSP	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁸ Si,x+n	inclusive	DAE	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁸ Si,x+n	inclusive	DAP	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
²⁸ Si,x+n	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756

²⁸ Si,x+n	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
²⁸ Si,x+n	inclusive	?	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
⁴⁰ Ar,tcc		CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
⁴⁰ Ar,x	Many	CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
⁴⁰ Ar,x+n	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
⁴⁰ Ar,x+n	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
⁴⁰ Ar,x+n	inclusive	?	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
⁵⁶ Fe,x+n	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
⁵⁶ Fe,x+n	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
⁵⁶ Fe,x+n	inclusive	?	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
⁸⁴ Kr,x+n	inclusive	CSP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
⁸⁴ Kr,x+n	inclusive	DAE	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
⁸⁴ Kr,x+n	inclusive	DAP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	CSP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	DAE	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	DAP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
¹³² Xe,x+n	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
¹³² Xe,x+n	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
¹³² Xe,x+n	inclusive	?	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756

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Copper

63

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	⁶² Cu	CS	1CANSAS	1.1+07	2.1+07	Jour	CJP,29,518	51	L.Katz+	M0273
p,n	⁶³ Zn	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
p,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242

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Copper

65

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	⁶⁴ Cu	CS	1CANSAS	1.1+07	2.2+07	Jour	CJP,29,518	51	L.Katz+	M0273
$n,2n$	⁶⁴ Cu	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449
n,α	⁶² Co	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449
n,p	⁶⁵ Ni	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449
p,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,38,(4),1811	Oct 88	M.Noguchi+	E1242

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Zinc

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,el	^{nat} Zn	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
$n,inel$	^{nat} Zn	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
p,x	Many	CS	2JPNLEP	1.2+10	1.2+10	Jour	PR/C,28,(4),1718	Oct 83	T.Asano+	E1243
p,x	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,60,(1),107	Jan 91	Y.Asano+	E1251

30

Zinc

64

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ, n	^{63}Zn	CS	1CANSAS	1.1+07	2.3+07	Jour	CJP,29,518	51	L.Katz+	M0273
$n, 2n$	^{63}Zn	CS	1USAKEY	1.3+06	1.8+06	Jour	NUK,7,117	65	F.Gabbard+	11814
n, p	^{64}Cu	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449
$^3\text{He}, x$	Many	CS	1USAINU	8.0+07	8.0+07	Jour	PR/C,14,4	76	P.P.Singh+	D6020

30

Zinc

66

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p, n	^{66}Ga	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

30

Zinc

68

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, α	^{65}Ni	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449

30

Zinc

70

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n, 2n$	^{69}Zn	CS	3BANRAM	1.4+07	1.5+07	Conf	94GATLIN,2,938	May 94	N.I.Molla+	31449

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Selenium

74

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p, el	^{74}Se	DA	2JPNKYU	2.9+06	4.5+06	Jour	NP/A,417,(2),331	Apr 84	A.Shibuya	E1033
$p, inel$	^{74}Se	DAP	2JPNKYU	3.9+06	4.3+06	Jour	NP/A,417,(2),331	Apr 84	A.Shibuya	E1033
p, tot		RP	2JPNKYU			Jour	NP/A,417,(2),331	Apr 84	A.Shibuya	E1033

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Rubidium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α, x	^{88}Y	TT	2GERJUL	1.2+07	1.8+07	Jour	RCA,95,313	07	S.M.Qaim+	D4191

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Rubidium

87

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ, α	⁸³ Br	CS	1CANSAS	1.5+07	2.7+07	Jour	CJP,29,518	51	L.Katz+	M0273
γ, π^+	⁸⁷ Kr	CS	2JPNTOH		5.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026

38

Strontium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p, x	⁸⁸ Y	TT	2GERJUL	9.0+06	1.4+07	Jour	RCA,95,313	07	S.M.Qaim+	D4191

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Yttrium

89

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ, x	⁷¹ As	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷² As	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁴ As	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷² Se	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷³ Se	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁵ Se	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁵ Br	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁶ Br	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁷ Br	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁶ Kr	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁷ Kr	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁷⁹ Kr	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸¹ Rb	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸² Rb	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸³ Rb	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁴ Rb	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁰ Sr	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸¹ Sr	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸² Sr	CS	2JPNTOK		5.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸³ Sr	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁵ Sr	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁷ Sr	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁴ Y	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁵ Y	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁶ Y	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁷ Y	CS	2JPNTOK		1.6+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	⁸⁸ Y	CS	2JPNTOK		3.0+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
n, ths	⁸⁹ Y	AMP	3AULUWA	2.5-02	2.5-02	Jour	ACR,19,679	65	M.G.Paton+	31007
n, ths	⁸⁹ Y	TSL	3AULUWA	2.5-02	2.5-02	Jour	ACR,19,679	65	M.G.Paton+	31007
p, el	⁸⁹ Y	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p, el	⁸⁹ Y	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
p, n	⁸⁹ Zr	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
$d, 2n$	⁸⁹ Zr	CS	2JPNTOH	1.0+07	3.9+07	Jour	RCA,95,(4),187	Apr 07	M.S.Uddin+	E2051
$d, 3n$	⁸⁸ Zr	CS	2JPNTOH	1.0+07	3.9+07	Jour	RCA,95,(4),187	Apr 07	M.S.Uddin+	E2051
d, x	⁸⁵ Sr	CS	2JPNTOH	3.1+07	3.9+07	Jour	RCA,95,(4),187	Apr 07	M.S.Uddin+	E2051

<i>d,x</i>	⁸⁷ Y	CS	2JPNTOH	2.4+07	3.9+07	Jour	RCA,95,(4),187	Apr 07	M.S.Uddin+	E2051
<i>d,x</i>	⁸⁸ Y	CS	2JPNTOH	1.6+07	3.9+07	Jour	RCA,95,(4),187	Apr 07	M.S.Uddin+	E2051
<i>d,x</i>	⁹⁰ Y	CS	2JPNTOH	1.0+07	3.9+07	Jour	RCA,95,(4),187	Apr 07	M.S.Uddin+	E2051
<i>α,p</i>	⁹² Zr	DAP	2JPNTSU	2.8+07	2.8+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
¹² C,fus	⁹⁹ Rh	CS	3INDTRM	3.2+07	4.5+07	Jour	PR/C,72,067602	05	S.Mukherjee+	D6043

40 Zirconium 90

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁹⁰ Zr	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,el</i>	⁹⁰ Zr	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,89,(1),40	Dec 79	H.Sakaguchi+	E0166
<i>p,n</i>	⁹⁰ Nb	DAP	2JPNTOH	4.1+07	4.1+07	Jour	PL/B,160,(6),369	Oct 85	S.Nishihara+	E1221
<i>p,n</i>	⁹⁰ Nb	POD	2JPNOSA	8.0+07	8.0+07	Jour	PR/C,35,(4),1280	Apr 87	H.Sakai+	E1139
<i>p,n</i>	⁹⁰ Nb	?	2JPNOSA	8.0+07	8.0+07	Jour	PR/C,35,(4),1280	Apr 87	H.Sakai+	E1139
<i>d,α</i>	⁸⁸ Y	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,α</i>	⁸⁸ Y	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,el</i>	⁹⁰ Zr	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁹⁰ Zr	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d,el</i>	⁹⁰ Zr	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,el</i>	⁹⁰ Zr	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	⁹⁰ Zr	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d,³He</i>	⁸⁹ Y	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,³He</i>	⁸⁹ Y	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,p</i>	⁹¹ Zr	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,p</i>	⁹¹ Zr	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,t</i>	⁸⁹ Zr	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,t</i>	⁸⁹ Zr	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
³ He,inel	⁹⁰ Zr	DAP	2JPNOSA	1.4+08	1.4+08	Jour	PR/C,23,(2),937	Feb 81	T.Yamagata+	E1198
⁵⁸ Ni,el	⁹⁰ Zr	DA	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,(2),157	Feb 99	Y.Sugiyama+	E2033
⁵⁸ Ni,inel	⁹⁰ Zr	CSP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,(2),157	Feb 99	Y.Sugiyama+	E2033
⁵⁸ Ni,inel	⁹⁰ Zr	DAP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,(2),157	Feb 99	Y.Sugiyama+	E2033

40 Zirconium 92

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	⁹² Zr	DAP	1USAINU	1.2+08	1.2+08	Jour	PR/C,26,(4),1733	82	S.Kailas+	D6024
<i>p,t</i>	⁹⁰ Zr	DAP	2JPNTSU	1.7+07	2.2+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>p,t</i>	⁹⁰ Zr	DAP	2JPNTOK	2.8+07	2.8+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>p,t</i>	⁹⁰ Zr	POD	2JPNTSU	1.7+07	2.2+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>p,t</i>	⁹⁰ Zr	POD	2JPNTOK	2.8+07	2.8+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117

40 Zirconium 94

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
⁵⁸ Ni,el	⁹⁴ Zr	DA	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,(2),157	Feb 99	Y.Sugiyama+	E2033
⁵⁸ Ni,inel	⁹⁴ Zr	CSP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,(2),157	Feb 99	Y.Sugiyama+	E2033
⁵⁸ Ni,inel	⁹⁴ Zr	DAP	2JPNJAE	2.3+08	2.4+08	Jour	EPJ/A,4,(2),157	Feb 99	Y.Sugiyama+	E2033

41

Niobium

93

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\alpha,2n$	^{95}Tc	CS	3INDVEC	1.6+07	3.9+07	Jour	EPJ/A,31,43	07	M.K.Sharma+	D6008
$\alpha,3n$	^{94}Tc	CS	3INDVEC	2.7+07	3.9+07	Jour	EPJ/A,31,43	07	M.K.Sharma+	D6008
α,n	^{96}Tc	CS	3INDVEC	1.2+07	3.9+07	Jour	EPJ/A,31,43	07	M.K.Sharma+	D6008
$^{12}\text{C,x}$	Many	CS	2JPNIRS	2.2+09	4.8+09	Jour	RCA,89,(11-12),703	Nov 01	A.Yokoyama+	E2074
$^{14}\text{N,x}+\alpha$	inclusive	DAE	2JPNOSA	1.3+08	2.1+08	Jour	NP/A,425,(3),548	Sep 84	T.Fukuda+	E1192
$^{14}\text{N,x+d}$	inclusive	DAE	2JPNOSA	1.3+08	2.1+08	Jour	NP/A,425,(3),548	Sep 84	T.Fukuda+	E1192
$^{14}\text{N,x+p}$	inclusive	DAE	2JPNOSA	1.3+08	2.1+08	Jour	NP/A,425,(3),548	Sep 84	T.Fukuda+	E1192
$^{14}\text{N,x+t}$	inclusive	DAE	2JPNOSA	1.3+08	2.1+08	Jour	NP/A,425,(3),548	Sep 84	T.Fukuda+	E1192

42

Molybdenum

92

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{92}Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
d,el	^{92}Mo	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
d,el	^{92}Mo	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

42

Molybdenum

94

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{94}Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
p,t	^{92}Mo	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
p,t	^{92}Mo	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

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Molybdenum

95

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{95}Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110

42

Molybdenum

96

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{96}Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
p,t	^{94}Mo	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
p,t	^{94}Mo	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

42 Molybdenum 97

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁷ Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110

42 Molybdenum 98

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁹⁸ Mo	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,el</i>	⁹⁸ Mo	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,n</i>	⁹⁸ Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
<i>p,t</i>	⁹⁶ Mo	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	⁹⁶ Mo	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

42 Molybdenum 100

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁰⁰ Mo	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,el</i>	¹⁰⁰ Mo	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,inel</i>	¹⁰⁰ Mo	CSP	1USALRL	1.5+07	1.5+07	Jour	PR/C,4,934	71	H.F.Lutz+	T0289
<i>p,n</i>	¹⁰⁰ Tc	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
<i>d,el</i>	¹⁰⁰ Mo	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	¹⁰⁰ Mo	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

44 Ruthenium 100

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	⁹⁸ Ru	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	⁹⁸ Ru	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	⁹⁸ Ru	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	⁹⁸ Ru	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

44 Ruthenium 102

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹⁰⁰ Ru	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁰ Ru	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰⁰ Ru	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁰ Ru	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

44 Ruthenium 104

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹⁰² Ru	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰² Ru	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰² Ru	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰² Ru	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

46 Palladium 104

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁰⁴ Pd	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,el</i>	¹⁰⁴ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹⁰⁴ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹⁰⁴ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,t</i>	¹⁰² Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰² Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰² Pd	DAP	2JPNTSU	5.2+07	5.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰² Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰² Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰² Pd	POD	2JPNTSU	5.2+07	5.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>d,el</i>	¹⁰⁴ Pd	DA	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	¹⁰⁴ Pd	POD	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

46 Palladium 106

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁰⁶ Pd	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,el</i>	¹⁰⁶ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹⁰⁶ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹⁰⁶ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,t</i>	¹⁰⁴ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁴ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰⁴ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁴ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>d,el</i>	¹⁰⁶ Pd	DA	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	¹⁰⁶ Pd	POD	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

46 Palladium 108

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁰⁸ Pd	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,el</i>	¹⁰⁸ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹⁰⁸ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹⁰⁸ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,t</i>	¹⁰⁶ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084

<i>p,t</i>	¹⁰⁶ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰⁶ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁶ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>d,el</i>	¹⁰⁸ Pd	DA	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	¹⁰⁸ Pd	POD	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

46

Palladium

110

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹¹⁰ Pd	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,el</i>	¹¹⁰ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹¹⁰ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,inel</i>	¹¹⁰ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,394,(3),413	Feb 83	Y.Aoki+	E0833
<i>p,n</i>	¹¹⁰ Ag	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110
<i>p,t</i>	¹⁰⁸ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁸ Pd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰⁸ Pd	DAP	2JPNOSA	5.2+07	5.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰⁸ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁰⁸ Pd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹⁰⁸ Pd	POD	2JPNOSA	5.2+07	5.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>d,el</i>	¹¹⁰ Pd	DA	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368
<i>d,el</i>	¹¹⁰ Pd	POD	2JPNTSU	2.1+07	2.1+07	Jour	NP/A,472,(1),41	Sep 87	M.Takei+	E1368

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Silver

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	3MEXIFM	1.3+07	1.6+07	Jour	PR,97,985	Feb 55	T.W.Bonner+	31336
<i>K⁻,x+K⁺</i>	inclusive	DAE	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
<i>K⁻,x+K⁺</i>	inclusive	?	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484

48

Cadmium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,el</i>	^{nat} Cd	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
<i>n,inel</i>	^{nat} Cd	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527

48

Cadmium

112

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹¹⁰ Cd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹¹⁰ Cd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹¹⁰ Cd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹¹⁰ Cd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

48

Cadmium

114

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹¹² Cd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹¹² Cd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹¹² Cd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹¹² Cd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

48

Cadmium

116

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹¹⁴ Cd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹¹⁴ Cd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹¹⁴ Cd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹¹⁴ Cd	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

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Indium

113

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,inel</i>	¹¹³ In	CS	4UKRIEP	7.0+06	9.0+06	Jour	IZV,70,255	06	Z.M.Bigan+	M0686
<i>n,γ</i>	¹¹⁴ In	CS	1USACOR	Maxwl		Jour	BAP,12,544(GH2)	67	D.Clark+	12609

49

Indium

115

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹¹⁶ In	CS	1USACOR	Maxwl		Jour	BAP,12,544(GH2)	67	D.Clark+	12609
¹² C,fus		CS	3INDTRM	5.4+07	8.5+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,tot		CS	3INDTRM	5.4+07	8.5+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹¹⁶ Sb	CS	3INDTRM	6.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹¹⁷ Sb	CS	3INDTRM	5.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹¹⁸ Sb	CS	3INDTRM	5.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹¹⁹ I	CS	3INDTRM	5.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹²⁰ I	CS	3INDTRM	5.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹²¹ I	CS	3INDTRM	5.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹²² Xe	CS	3INDTRM	5.9+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹²³ Xe	CS	3INDTRM	5.4+07	8.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010
¹² C,x	¹²⁵ Xe	CS	3INDTRM	5.4+07	7.4+07	Jour	IMP/E,15,237	06	S.Mukherjee+	D6010

50

Tin

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					

<i>n</i> ,el	^{nat} Sn	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
<i>n</i> ,inel	^{nat} Sn	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
⁴⁰ Ar,tcc		CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
⁴⁰ Ar,x	Many	CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
				50		Tin		112		
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
α ,inel	¹¹² Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080
				50		Tin		114		
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
α ,inel	¹¹⁴ Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080
				50		Tin		116		
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
α ,inel	¹¹⁶ Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080
				50		Tin		118		
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>p</i> , <i>t</i>	¹¹⁶ Sn	DAP	2JPNNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p</i> , <i>t</i>	¹¹⁶ Sn	DAP	2JPNNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p</i> , <i>t</i>	¹¹⁶ Sn	POD	2JPNNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p</i> , <i>t</i>	¹¹⁶ Sn	POD	2JPNNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>d</i> ,el	¹¹⁸ Sn	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d</i> ,el	¹¹⁸ Sn	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
³ He,iinel	¹¹⁸ Sn	DAP	2JPNOSA	1.2+08	1.2+08	Jour	PR/C,23,(2),937	Feb 81	T.Yamagata+	E1198
α ,inel	¹¹⁸ Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080
				50		Tin		120		
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
<i>p</i> , α	¹¹⁷ In	CS	1USAORL	3.5+06	7.0+07	Jour	PR,129,1298	63	J.L.Need+	C0130
<i>p</i> ,el	¹²⁰ Sn	DA	2JPNOSA	2.0+08	4.0+08	Jour	MSK/A,44,(1),1	Mar 03	H.Takeda	E2042
<i>p</i> ,el	¹²⁰ Sn	POD	2JPNOSA	2.0+08	4.0+08	Jour	MSK/A,44,(1),1	Mar 03	H.Takeda	E2042
<i>p</i> , <i>n</i>	¹²⁰ Sb	DAP	2JPNTOH	4.1+07	4.1+07	Jour	PL/B,160,(6),369	Oct 85	S.Nishihara+	E1221
³ He,iinel	¹²⁰ Sn	DAP	2JPNOSA	1.2+08	1.2+08	Jour	PR/C,23,(2),937	Feb 81	T.Yamagata+	E1198
α ,inel	¹²⁰ Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080

				50		Tin		122			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #	
				Min	Max	Ref Vol Page					
α ,inel	^{122}Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080	

				50		Tin		124			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #	
				Min	Max	Ref Vol Page					
α ,inel	^{124}Sn	DAE	2JPNOSA	4.0+08	4.0+08	Jour	PRL,99,(16),162503	Oct 07	T.Li+	E2080	

				51		Antimony					
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #	
				Min	Max	Ref Vol Page					
n ,el	^{nat}Sb	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527	
n ,inel	^{nat}Sb	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527	

				51		Antimony		121			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #	
				Min	Max	Ref Vol Page					
γ ,n	^{120}Sb	CS	1CANSAS	1.0+07	1.8+07	Jour	CJP,29,518	51	L.Katz+	M0273	

				51		Antimony		123			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #	
				Min	Max	Ref Vol Page					
γ ,n	^{122}Sb	CS	1CANSAS	1.0+07	1.8+07	Jour	CJP,29,518	51	L.Katz+	M0273	

				52		Tellurium		122			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #	
				Min	Max	Ref Vol Page					
p ,t	^{120}Te	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084	
p ,t	^{120}Te	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363	
p ,t	^{120}Te	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084	
p ,t	^{120}Te	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363	

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Tellurium

128

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,t	^{126}Te	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
p,t	^{126}Te	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
p,t	^{126}Te	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
p,t	^{126}Te	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

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Tellurium

130

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,t	^{128}Te	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
p,t	^{128}Te	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
p,t	^{128}Te	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
p,t	^{128}Te	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363

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Iodine

127

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,π^-	^{127}Xe	CS	2JPNTOH		8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,π^-+2n	^{125}Xe	CS	2JPNTOH		8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,π^-+4n	^{123}Xe	CS	2JPNTOH		8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,π^-+5n	^{122}Xe	CS	2JPNTOH		8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,π^-+6n	^{121}Xe	CS	2JPNTOH		8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	^{107}In	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{108}In	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{109}In	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{110}In	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{111}In	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{113}In	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{115}In	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{116}In	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{110}Sn	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{113}Sn	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{115}Sb	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{116}Sb	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{117}Sb	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{118}Sb	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{120}Sb	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{122}Sb	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{116}Te	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{117}Te	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{119}Te	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{121}Te	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{119}I	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{120}I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{121}I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{124}I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{126}I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027

$n,2n$	^{126}I	CS	4ZZZDUB	1.0+05	1.0+08	Priv	KUMAR	07	V.Kumar+	33012
$n,4n$	^{124}I	CS	4ZZZDUB	1.0+05	1.0+08	Priv	KUMAR	07	V.Kumar+	33012
$n,5n$	^{123}I	CS	4ZZZDUB	1.0+05	1.0+08	Priv	KUMAR	07	V.Kumar+	33012

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Iodine

129

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
$n,4n$	^{126}I	CS	4ZZZDUB	1.0+05	1.0+08	Priv	KUMAR		07	V.Kumar+	33012
n,γ	^{130}I	CS	4ZZZDUB	1.0+05	1.0+08	Priv	KUMAR		07	V.Kumar+	33012

54

Xenon

124

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{125}Xe	?	3HUNKFI	Maxwl		Jour	YF,10,27		Jul 69	B.Kardon+	30323

54

Xenon

126

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{127}Xe	?	3HUNKFI	Maxwl		Jour	YF,10,27		Jul 69	B.Kardon+	30323

54

Xenon

132

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{133}Xe	?	3HUNKFI	Maxwl		Jour	YF,10,27		Jul 69	B.Kardon+	30323

54

Xenon

134

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{135}Xe	CS	3HUNKFI	Maxwl		Jour	YF,10,27		Jul 69	B.Kardon+	30323

55

Cesium

133

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
γ,π^-	^{133}Ba	CS	2JPNTOH		3.0+07	Jour	PR/C,42,(4),1545		Oct 90	K.Sakamoto+	K2029
γ,π^-+2n	^{131}Ba	CS	2JPNTOH		3.0+07	Jour	PR/C,42,(4),1545		Oct 90	K.Sakamoto+	K2029
γ,π^-+4n	^{129}Ba	CS	2JPNTOH		3.0+07	Jour	PR/C,42,(4),1545		Oct 90	K.Sakamoto+	K2029
γ,π^-+5n	^{128}Ba	CS	2JPNTOH		3.0+07	Jour	PR/C,42,(4),1545		Oct 90	K.Sakamoto+	K2029
γ,π^-+6n	^{127}Ba	CS	2JPNTOH		1.4+08	Jour	PR/C,42,(4),1545		Oct 90	K.Sakamoto+	K2029

$\gamma, \pi^- + 7n$	¹²⁶ Ba	CS	2JPNTOH	3.0+07	Jour	PR/C,42,(4),1545	Oct 90	K.Sakamoto+	K2029
$\gamma, \pi^- + 9n$	¹²⁴ Ba	CS	2JPNTOH	1.4+08	Jour	PR/C,42,(4),1545	Oct 90	K.Sakamoto+	K2029
γ, π^+	¹³³ Xe	CS	2JPNTOH	5.0+08	Jour	PR/C,42,(4),1545	Oct 90	K.Sakamoto+	K2029
γ, π^+	¹³³ Xe	CS	2JPNTOH	8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹⁰⁷ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹⁰⁸ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹⁰⁹ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁰ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹¹ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹³ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁶ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁷ In	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁰ Sn	CS	2JPNTOK	8.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹³ Sn	CS	2JPNTOK	4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁵ Sb	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁶ Sb	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁷ Sb	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁸ Sb	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁰ Sb	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²² Sb	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁶ Te	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁷ Te	CS	2JPNTOK	3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁹ Te	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²¹ Te	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹¹⁹ I	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁰ I	CS	2JPNTOK	2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²¹ I	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²³ I	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁴ I	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁶ I	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁸ I	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹³⁰ I	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²¹ Xe	CS	2JPNTOH	1.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹²¹ Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²² Xe	CS	2JPNTOH	1.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹²² Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²³ Xe	CS	2JPNTOH	1.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹²³ Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁵ Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁵ Xe	CS	2JPNTOH	8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹²⁷ Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁷ Xe	CS	2JPNTOH	8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹²⁹ Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁹ Xe	CS	2JPNTOH	8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹³¹ Xe	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹³¹ Xe	CS	2JPNTOH	8.0+07	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ, x	¹²⁵ Cs	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁷ Cs	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹²⁹ Cs	CS	2JPNTOK	4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹³⁰ Cs	CS	2JPNTOK	1.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ, x	¹³² Cs	CS	2JPNTOK	3.0+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027

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Barium

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Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,t</i>	¹³⁶ Ba	DAP	2JPNTSU	1.8+07	2.2+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>p,t</i>	¹³⁶ Ba	DAP	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹³⁶ Ba	DAP	2JPNTOK	2.8+07	2.8+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>p,t</i>	¹³⁶ Ba	POD	2JPNTSU	1.8+07	2.2+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>p,t</i>	¹³⁶ Ba	POD	2JPNTSU	2.2+07	2.2+07	Jour	JPJ,56,(6),1974	Jun 87	K.Nagano+	E1363
<i>p,t</i>	¹³⁶ Ba	POD	2JPNTOK	2.8+07	2.8+07	Jour	PR/C,31,(1),120	Jan 85	K.Yagi+	E1117
<i>d,el</i>	¹³⁸ Ba	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,el</i>	¹³⁸ Ba	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,p</i>	¹³⁹ Ba	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,p</i>	¹³⁹ Ba	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705

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Lanthanum

139

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,x	¹⁰³ Ag	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁰⁴ Ag	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁰⁵ Ag	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁰⁶ Ag	CS	2JPNTOK		8.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹¹ Cd	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁷ Cd	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁰⁹ In	CS	2JPNTOK		3.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁰ In	CS	2JPNTOK		3.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹¹ In	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁰ Sn	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁷ Sn	CS	2JPNTOK		6.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁵ Sb	CS	2JPNTOK		3.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁶ Sb	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁷ Sb	CS	2JPNTOK		2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁸ Sb	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²⁰ Sb	CS	2JPNTOK		2.2+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁶ Te	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁷ Te	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁹ Te	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²¹ Te	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²³ Te	CS	2JPNTOK		2.5+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹¹⁹ I	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²⁰ I	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²¹ I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²³ I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²⁴ I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²⁶ I	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹³⁰ I	CS	2JPNTOK		1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²¹ Xe	CS	2JPNTOH		2.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	¹²² Xe	CS	2JPNTOH		2.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	¹²³ Xe	CS	2JPNTOH		2.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	¹²⁵ Xe	CS	2JPNTOH		2.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	¹²⁷ Xe	CS	2JPNTOH		2.8+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	¹²⁹ Xe	CS	2JPNTOH		2.5+08	Jour	RCA,68,(1),27	95	Y.Oura+	K2026
γ,x	¹²⁵ Cs	CS	2JPNTOK		1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹²⁷ Cs	CS	2JPNTOK		1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027

γ,x	^{129}Cs	CS	2JPNTOK	1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{130}Cs	CS	2JPNTOK	1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{132}Cs	CS	2JPNTOK	1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{134}Cs	CS	2JPNTOK	3.3+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{135}Cs	CS	2JPNTOK	1.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{136}Cs	CS	2JPNTOK	1.4+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{126}Ba	CS	2JPNTOK	1.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{127}Ba	CS	2JPNTOK	1.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{128}Ba	CS	2JPNTOK	1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{129}Ba	CS	2JPNTOK	3.3+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{131}Ba	CS	2JPNTOK	1.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{133}Ba	CS	2JPNTOK	6.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{135}Ba	CS	2JPNTOK	4.0+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{131}La	CS	2JPNTOK	1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{132}La	CS	2JPNTOK	1.8+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{133}La	CS	2JPNTOK	6.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{135}La	CS	2JPNTOK	4.0+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027

58 Cerium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^3\text{He},x$	^{140}Nd	TT	2GERJUL	2.0+07	3.5+07	Jour	RCA,95,313	07	S.M.Qaim+	D4191

58 Cerium 140

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{140}Pr	DAP	2JPNTOH	4.1+07	4.1+07	Jour	PL/B,160,(6),369	Oct 85	S.Nishihara+	E1221

59 Praesodymium 141

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,2n$	^{140}Nd	TT	2GERJUL	1.5+07	3.0+07	Jour	RCA,95,313	07	S.M.Qaim+	D4191
$^{12}\text{C},x$	Many	CS	2JPNIRS	2.2+09	4.8+09	Jour	RCA,89,(11-12),703	Nov 01	A.Yokoyama+	E2074

60 Neodymium 142

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,d	^{141}Nd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,359,(1),76	Apr 81	Y.Toba+	E1420
p,d	^{141}Nd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,359,(1),76	Apr 81	Y.Toba+	E1420

60 Neodymium 144

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,d</i>	¹⁴³ Nd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,359,(1),76	Apr 81	Y.Toba+	E1420
<i>p,d</i>	¹⁴³ Nd	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,359,(1),76	Apr 81	Y.Toba+	E1420
<i>p,t</i>	¹⁴² Nd	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084
<i>p,t</i>	¹⁴² Nd	POD	2JPNTSU	2.2+07	2.2+07	Jour	PRL,43,(15),1087	Oct 79	K.Yagi+	E0084

60 Neodymium 150

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,n	¹⁵³ Sm	CS	2GERJUL	1.1+07	2.6+07	Jour	RCA,95,313	07	S.M.Qaim+	D4191

62 Samarium 144

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁴⁴ Sm	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,el</i>	¹⁴⁴ Sm	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p,el</i>	¹⁴⁴ Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,el</i>	¹⁴⁴ Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>d,el</i>	¹⁴⁴ Sm	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d,el</i>	¹⁴⁴ Sm	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194

62 Samarium 148

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁴⁸ Sm	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p,el</i>	¹⁴⁸ Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

62 Samarium 150

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁵⁰ Sm	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p,el</i>	¹⁵⁰ Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

62 Samarium 152

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	¹⁵¹ Sm	CS	2JPN AIS	8.3+06	1.2+07	Jour	NST,44,(7),938	Jul 07	K.Y.Hara+	K2062
<i>p,el</i>	¹⁵² Sm	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

<i>p</i> ,el	¹⁵² Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p</i> ,inel	¹⁵² Sm	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p</i> ,inel	¹⁵² Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

62 Samarium 154

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁵⁴ Sm	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p</i> ,el	¹⁵⁴ Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p</i> ,inel	¹⁵⁴ Sm	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p</i> ,inel	¹⁵⁴ Sm	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

64 Gadolinium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,tot		CS	1USACOL	2.5-02	9.2+06	Jour	RSI,36,887	65	B.M.Rustad+	11586

64 Gadolinium 160

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁶⁰ Gd	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043
<i>p</i> ,el	¹⁶⁰ Gd	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043
<i>p</i> ,inel	¹⁶⁰ Gd	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043
<i>p</i> ,inel	¹⁶⁰ Gd	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043

65 Terbium 159

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,n	¹⁵⁹ Dy	DAE	1USALRL	2.5+07	2.5+07	Jour	PR/C,30,1480	Nov 84	W.Scobel+	T0110

66 Dysprosium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> , γ		CS	1USAMTR	Maxwl		Jour	NSE,25,12	66	J.J.Scoville+	12101
<i>n</i> , γ		RI	1USAMTR		5.0-01	Jour	NSE,25,12	66	J.J.Scoville+	12101

66

Dysprosium

164

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁶⁴ Dy	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p,el</i>	¹⁶⁴ Dy	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p,inel</i>	¹⁶⁴ Dy	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p,inel</i>	¹⁶⁴ Dy	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

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Holmium

165

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
¹⁹ F, <i>3n</i>	¹⁸¹ Os	CS	3INDTRM	4.3+07	4.8+07	Jour	PR/C,54,767	96	A.Navin+	D6027
¹⁹ F, <i>4n</i>	¹⁸⁰ Os	CS	3INDTRM	4.2+07	6.3+07	Jour	PR/C,54,767	96	A.Navin+	D6027
¹⁹ F, <i>5n</i>	¹⁷⁹ Os	CS	3INDTRM	5.0+07	6.3+07	Jour	PR/C,54,767	96	A.Navin+	D6027
¹⁹ F, <i>6n</i>	¹⁷⁸ Os	CS	3INDTRM	4.8+07	6.3+07	Jour	PR/C,54,767	96	A.Navin+	D6027
¹⁹ F, <i>fus</i>		CS	3INDTRM	6.4+07	8.5+07	Jour	PR/C,54,767	96	A.Navin+	D6027

68

Erbium

166

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁶⁶ Er	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,el</i>	¹⁶⁶ Er	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,inel</i>	¹⁶⁶ Er	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,inel</i>	¹⁶⁶ Er	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809

68

Erbium

168

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁶⁸ Er	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,el</i>	¹⁶⁸ Er	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,inel</i>	¹⁶⁸ Er	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,inel</i>	¹⁶⁸ Er	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,149,(1-3),55	Dec 84	T.Ichihara+	E0927
<i>p,inel</i>	¹⁶⁸ Er	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p,inel</i>	¹⁶⁸ Er	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,149,(1-3),55	Dec 84	T.Ichihara+	E0927

70

Ytterbium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,x	¹⁶⁹ Yb	CS	2GERKFK	2.9+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190
α ,x	¹⁷⁵ Yb	CS	2GERKFK	1.6+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190
α ,x	¹⁷¹ Lu	CS	2GERKFK	1.6+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190
α ,x	¹⁷² Lu	CS	2GERKFK	2.9+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190
α ,x	¹⁷³ Lu	CS	2GERKFK	1.6+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190

α,x	¹⁷² Hf	CS	2GERKFK	1.6+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190
α,x	¹⁷⁵ Hf	CS	2GERKFK	1.6+07	8.3+07	Jour	RCA,57,57	92	A.S.M.A.Romo+	D4190

70 Ytterbium 172

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁷² Yb	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904
<i>p</i> ,el	¹⁷² Yb	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,28,(1),120	Jul 83	F.Ohtani+	E0904

70 Ytterbium 174

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁷⁴ Yb	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p</i> ,el	¹⁷⁴ Yb	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p</i> ,inel	¹⁷⁴ Yb	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p</i> ,inel	¹⁷⁴ Yb	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809

70 Ytterbium 176

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	¹⁷⁶ Yb	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p</i> ,el	¹⁷⁶ Yb	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p</i> ,inel	¹⁷⁶ Yb	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809
<i>p</i> ,inel	¹⁷⁶ Yb	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,29,(4),1228	Apr 84	T.Ichihara+	E0809

72 Hafnium 178

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	¹⁷⁸ Hf	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p</i> ,inel	¹⁷⁸ Hf	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p</i> ,inel	¹⁷⁸ Hf	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090

72 Hafnium 180

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	¹⁸⁰ Hf	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p</i> ,inel	¹⁸⁰ Hf	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p</i> ,inel	¹⁸⁰ Hf	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090

73 Tantalum

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	Many	CS	2JPNKEK	1.2+10	1.2+10	Jour	JPJ,57,(9),2995	Sep 88	Y.Asano+	E1240
<i>p,x</i>	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,54,(10),3734	Oct 85	Y.Asano+	E1241
⁴⁰ Ar,x	²⁸ O	CS	2JPNIPC	3.8+09	3.8+09	Jour	PL/B,448,(3-4),180	Feb 99	H.Sakurai+	E2045
⁴⁰ Ar,x	³¹ F	CS	2JPNIPC	3.8+09	3.8+09	Jour	PL/B,448,(3-4),180	Feb 99	H.Sakurai+	E2045

73 Tantalum 181

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	¹⁸⁰ Ta	CS	1CANSAS	9.0+06	1.8+07	Jour	CJP,29,518	51	L.Katz+	M0273
<i>p,x+n</i>	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+n</i>	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
<i>p,x+p</i>	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075

74 Tungsten

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	1USAANL	1.5+06	8.1+06	Jour	BAP,9,651(Q13)	Oct 64	J.F.Whalen+	12176
<i>p,x</i>	Many	CS	2JPNKEK	1.2+10	1.2+10	Jour	JPJ,57,(9),2995	Sep 88	Y.Asano+	E1240
<i>p,x</i>	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,54,(10),3734	Oct 85	Y.Asano+	E1241

74 Tungsten 182

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	¹⁸² W	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p,inel</i>	¹⁸² W	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p,inel</i>	¹⁸² W	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090

74 Tungsten 184

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,inel</i>	¹⁸⁴ W	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p,inel</i>	¹⁸⁴ W	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090
<i>p,inel</i>	¹⁸⁴ W	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,33,(3),834	Mar 86	H.Ogawa+	E1090

76

Osmium

192

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁹² Os	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043
<i>p,el</i>	¹⁹² Os	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043
<i>p,inel</i>	¹⁹² Os	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043
<i>p,inel</i>	¹⁹² Os	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,36,(5),1754	Nov 87	T.Ichihara+	E2043

78

Platinum

198

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
²⁸ Si,x	²¹⁷ Th	CS	2JPNJAE	1.2+08	1.5+08	Jour	PR/C,61,(3),034309	Feb 00	K.Nishio+	E2046

79

Gold

197

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	¹⁹⁶ Au	CS	2JPN AIS	8.2+06	1.2+07	Jour	NST,44,(7),938	Jul 07	K.Y.Hara+	K2062
γ,x	¹⁷⁵ W	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁷⁶ W	CS	2JPNTOK		4.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁷⁷ W	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁷⁸ Re	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁷⁹ Re	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸¹ Re	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁰ Os	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸¹ Os	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸² Os	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸³ Os	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸² Ir	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸³ Ir	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁴ Ir	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁵ Ir	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁶ Ir	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁷ Ir	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁸ Ir	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁹⁰ Ir	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁴ Pt	CS	2JPNTOK		2.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁵ Pt	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁶ Pt	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁷ Pt	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁸ Pt	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁹ Pt	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁹¹ Pt	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁹⁵ Pt	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁶ Au	CS	2JPNTOK		3.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁷ Au	CS	2JPNTOK		7.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁸ Au	CS	2JPNTOK		1.0+08	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁸⁹ Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁹⁰ Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	¹⁹¹ Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027

γ,x	^{192}Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{193}Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{194}Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{195}Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
γ,x	^{196}Au	CS	2JPNTOK		4.5+07	Jour	RCA,55,(3),113	91	S.R.Sarkar+	K2027
p,x	Many	CS	2JPNKEK	1.2+10	1.2+10	Jour	JPJ,57,(9),2995	Sep 88	Y.Asano+	E1240
p,x	Many	CS	2JPNLEP	5.0+08	5.0+08	Jour	JPJ,54,(10),3734	Oct 85	Y.Asano+	E1241
$\alpha,^8\text{He}$	^{193}Au	DAP	2JPNTOK	6.5+07	6.5+07	Jour	PR/C,39,(3),818	Mar 89	S.Kato+	E1285
$\alpha,2n$	^{199}Tl	CS	2NEDIKO	2.2+07	4.0+07	Jour	PHY,29,1214	63	R.E.Vandevijver	P0086
$\alpha,3n$	^{198}Tl	CS	2NEDIKO	2.6+07	5.1+07	Jour	PHY,29,1214	63	R.E.Vandevijver	P0086
$\alpha,4n$	^{197}Tl	CS	2NEDIKO	4.0+07	5.1+07	Jour	PHY,29,1214	63	R.E.Vandevijver	P0086
$\alpha,5n$	^{196}Tl	CS	2NEDIKO	5.0+07	5.1+07	Jour	PHY,29,1214	63	R.E.Vandevijver	P0086
α,n	^{200}Tl	CS	2NEDIKO	2.2+07	2.6+07	Jour	PHY,29,1214	63	R.E.Vandevijver	P0086
$^{12}\text{C},x$	Many	CS	2JPNOSA	1.1+08	1.1+08	Jour	ZP/A,332,(1),61	Mar 89	A.Yokoyama+	E1231
$^{12}\text{C},x$	Many	CS	2JPNIRS	2.2+09	4.8+09	Jour	RCA,89,(11-12),703	Nov 01	A.Yokoyama+	E2074
$^{12}\text{C},x$	^{196}Au	CS	3INDTAT	5.5+07	8.2+07	Jour	JRN,266,(1),79	05	T.Datta+	D6011
$^{12}\text{C},x$	^{198}Au	?	3INDTAT	5.5+07	8.2+07	Jour	JRN,266,(1),79	05	T.Datta+	D6011
$^{14}\text{N},x$	Many	CS	2JPNOSA	8.9+07	1.0+08	Jour	ZP/A,332,(1),61	Mar 89	A.Yokoyama+	E1231
$^{14}\text{N},x$	Many	?	2JPNOSA	1.2+08	1.2+08	Jour	ZP/A,332,(1),61	Mar 89	A.Yokoyama+	E1231
$^{16}\text{O},x$	Many	CS	2JPNJAE	9.4+07	1.1+08	Jour	ZP/A,332,(1),61	Mar 89	A.Yokoyama+	E1231
$^{16}\text{O},x$	^{196}Au	CS	3INDTAT	5.5+07	8.2+07	Jour	JRN,266,(1),79	05	T.Datta+	D6011
$^{16}\text{O},x$	^{198}Au	?	3INDTAT	7.4+07	9.2+07	Jour	JRN,266,(1),79	05	T.Datta+	D6011
$^{19}\text{F},x$	Many	CS	3INDTRM	9.6+07	1.0+08	Jour	EPJ/A,26,271	05	R.Tripathi+	D6004
$^{37}\text{Cl},x$	Many	CS	2JPNJAE	1.8+08	1.8+08	Jour	ZP/A,332,(1),61	Mar 89	A.Yokoyama+	E1231
$^{37}\text{Cl},x$	Many	?	2JPNJAE	2.0+08	2.0+08	Jour	ZP/A,332,(1),61	Mar 89	A.Yokoyama+	E1231
$^{40}\text{Ar},x$	Many	CS	2JPNIRS	1.2+10	2.6+10	Jour	RCA,89,(11-12),703	Nov 01	A.Yokoyama+	E2074

80

Mercury

199

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,inel	^{199}Hg	CS	4UKRIEP	6.0+06	6.5+06	Jour	IZV,70,255	06	Z.M.Bigan+	M0686

81

Thallium

205

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{205}Tl	DA	2JPNTSU	3.3+07	3.3+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367

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Lead

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,el	^{nat}Pb	DA	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
n,inel	^{nat}Pb	DAP	1USAORL	1.4+06	1.4+06	Jour	NP,68,97	Jun 65	P.H.Stelson+	11527
$K^-,x+K^+$	inclusive	DAE	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
$K^-,x+K^+$	inclusive	?	2JPNLEP			Jour	NP/A,546,(3),588	Aug 92	T.Iijima+	J1484
$p,x+n$	inclusive	DAE	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+n$	inclusive	POD	2JPNOSA	3.9+08	3.9+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$\alpha,x+n$	inclusive	PY	2JPNIRS	4.0+08	4.0+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810

$\alpha,x+n$	inclusive	PY	2JPNIRS	4.0+08	4.0+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$\alpha,x+n$	inclusive	PY	2JPNIRS	7.2+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$\alpha,x+n$	inclusive	PY	2JPNIRS	7.2+08	7.2+08	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$\alpha,x+n$	inclusive	?	2JPNIRS	4.0+08	7.2+08	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C},x+n$	inclusive	PY	2JPNIRS	1.2+09	1.2+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C},x+n$	inclusive	PY	2JPNIRS	1.2+09	1.2+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{12}\text{C},x+n$	inclusive	PY	2JPNIRS	2.2+09	2.2+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C},x+n$	inclusive	PY	2JPNIRS	2.2+09	2.2+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{12}\text{C},x+n$	inclusive	PY	2JPNIRS	4.8+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{12}\text{C},x+n$	inclusive	PY	2JPNIRS	4.8+09	4.8+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{12}\text{C},x+n$	inclusive	?	2JPNIRS	1.2+09	4.8+09	Jour	NSE,132,(1),30	May 99	T.Kurosawa+	E1810
$^{20}\text{Ne},x+n$	inclusive	PY	2JPNIRS	2.0+09	2.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne},x+n$	inclusive	PY	2JPNIRS	2.0+09	2.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{20}\text{Ne},x+n$	inclusive	PY	2JPNIRS	3.6+09	3.6+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne},x+n$	inclusive	PY	2JPNIRS	3.6+09	3.6+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{20}\text{Ne},x+n$	inclusive	PY	2JPNIRS	8.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{20}\text{Ne},x+n$	inclusive	PY	2JPNIRS	8.0+09	8.0+09	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{20}\text{Ne},x+n$	inclusive	?	2JPNIRS	2.0+09	8.0+09	Jour	NST,36,(1),41	Jan 99	T.Kurosawa+	E1759
$^{28}\text{Si},x+n$	inclusive	CSP	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{28}\text{Si},x+n$	inclusive	DAE	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{28}\text{Si},x+n$	inclusive	DAP	2JPNIRS	1.7+10	1.7+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{40}\text{Ar},\text{tcc}$		CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
$^{40}\text{Ar},x$	Many	CS	2JPNIRS	1.6+10	1.6+10	Jour	NP/A,791,(3-4),434	Jul 07	C.Latessa+	E2056
$^{40}\text{Ar},x+n$	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{40}\text{Ar},x+n$	inclusive	PY	2JPNIRS	1.6+10	1.6+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{40}\text{Ar},x+n$	inclusive	?	2JPNIRS	1.6+10	1.6+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{56}\text{Fe},x+n$	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{56}\text{Fe},x+n$	inclusive	PY	2JPNIRS	2.2+10	2.2+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{56}\text{Fe},x+n$	inclusive	?	2JPNIRS	2.2+10	2.2+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{84}\text{Kr},x+n$	inclusive	CSP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr},x+n$	inclusive	DAE	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{84}\text{Kr},x+n$	inclusive	DAP	2JPNIRS	3.4+10	3.4+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	CSP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	DAE	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	DAP	2JPNIRS	5.3+10	5.3+10	Jour	NSE,157,(2),142	Oct 07	L.Heilbronn+	E2050
$^{132}\text{Xe},x+n$	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756
$^{132}\text{Xe},x+n$	inclusive	PY	2JPNIRS	5.3+10	5.3+10	Jour	NIM/A,583,(2-3),507	Dec 07	D.Satoh+	E2079
$^{132}\text{Xe},x+n$	inclusive	?	2JPNIRS	5.3+10	5.3+10	Jour	PR/C,62,(4),044615	Oct 00	T.Kurosawa+	E1756

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Lead

208

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,d	^{207}Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,359,(1),76	Apr 81	Y.Toba+	E1420
p,d	^{207}Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,359,(1),76	Apr 81	Y.Toba+	E1420
p,el	^{208}Pb	DA	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
p,el	^{208}Pb	POD	2JPNOSA	6.5+07	6.5+07	Jour	PL/B,99,(2),92	Feb 81	H.Sakaguchi+	E1201
p,n	^{208}Bi	DAP	2JPNTOH	4.1+07	4.1+07	Jour	PL/B,160,(6),369	Oct 85	S.Nishihara+	E1221
p,t	^{206}Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,470,(2),377	Aug 87	M.Kurokawa+	E1365
p,t	^{206}Pb	DAP	2JPNOSA	3.5+07	5.0+07	Jour	PR/C,31,(2),676	Feb 85	K.Yagi+	E1118
p,t	^{206}Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,470,(2),377	Aug 87	M.Kurokawa+	E1365
p,t	^{206}Pb	POD	2JPNOSA	3.5+07	5.0+07	Jour	PR/C,31,(2),676	Feb 85	K.Yagi+	E1118
$p,x+p$	inclusive	CS	1USALAS	8.0+08	8.0+08	Jour	PR/C,29,204	Jan 84	J.A.McGill+	T0156
$p,x+p$	inclusive	DAE	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075
$p,x+p$	inclusive	POD	2JPNOSA	4.0+08	4.0+08	Thes	OTSU	Dec 95	H.Otsu	E2075

<i>d,α</i>	²⁰⁶ Tl	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,α</i>	²⁰⁶ Tl	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,el</i>	²⁰⁸ Pb	DA	2JPNTSU	1.0+07	1.8+07	Jour	NP/A,486,(2),261	Sep 88	T.Murayama+	E1369
<i>d,el</i>	²⁰⁸ Pb	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,el</i>	²⁰⁸ Pb	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,486,(2),261	Sep 88	T.Murayama+	E1369
<i>d,el</i>	²⁰⁸ Pb	DA	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,el</i>	²⁰⁸ Pb	DA	2JPNTSU	2.3+07	2.3+07	Jour	NP/A,486,(2),261	Sep 88	T.Murayama+	E1369
<i>d,el</i>	²⁰⁸ Pb	DA	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d,el</i>	²⁰⁸ Pb	POD	2JPNTSU	1.0+07	1.8+07	Jour	NP/A,486,(2),261	Sep 88	T.Murayama+	E1369
<i>d,el</i>	²⁰⁸ Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,el</i>	²⁰⁸ Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,486,(2),261	Sep 88	T.Murayama+	E1369
<i>d,el</i>	²⁰⁸ Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,el</i>	²⁰⁸ Pb	POD	2JPNTSU	2.3+07	2.3+07	Jour	NP/A,486,(2),261	Sep 88	T.Murayama+	E1369
<i>d,el</i>	²⁰⁸ Pb	POD	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,455,(3),413	Jul 86	N.Matsuoka+	E1194
<i>d,³He</i>	²⁰⁷ Tl	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,p</i>	²⁰⁹ Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,p</i>	²⁰⁹ Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,628,(4),547	Jan 98	K.Hirota+	E1705
<i>d,t</i>	²⁰⁷ Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
<i>d,t</i>	²⁰⁷ Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	NP/A,471,(3-4),520	Sep 87	K.Hashimoto+	E1367
³ He,inel	²⁰⁸ Pb	DAP	2JPNOSA	1.4+08	1.4+08	Jour	PR/C,23,(2),937	Feb 81	T.Yamagata+	E1198
<i>α,⁶He</i>	²⁰⁶ Pb	DAP	2JPNOK	6.4+07	6.4+07	Jour	PL/B,161,(1-3),52	Oct 85	M.H.Tanaka+	E1172
<i>α,inel</i>	²⁰⁸ Pb	DAP	2JPNOSA	7.0+07	7.0+07	Jour	PR/C,45,(3),993	Mar 92	Y.Fujita+	E1376
¹¹ B,el	²⁰⁸ Pb	DA	3INDTRM	6.9+07	6.9+07	Jour	PR/C,68,054612	03	P.K.Sahu+	D6035
¹¹ B,fus		CS	3INDTRM	6.9+07	6.9+07	Jour	PR/C,68,054612	03	P.K.Sahu+	D6035
¹¹ B,tot		CS	3INDTRM	6.9+07	6.9+07	Jour	PR/C,68,054612	03	P.K.Sahu+	D6035
⁷⁰ Zn,n	²⁷⁷ *	CS	2JPNIPC	3.5+08	3.5+08	Jour	JPJ,76,(4),043201	Apr 07	K.Morita+	E2054

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Bismuth

209

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	²¹⁰ Bi	CS	3HUNII	Maxwl		Jour	JRN,265,267	05	A.Borella+	31552
<i>p,el</i>	²⁰⁹ Bi	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>p,el</i>	²⁰⁹ Bi	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,26,(3),944	Sep 82	H.Sakaguchi+	E0773
<i>α,el</i>	²⁰⁹ Bi	DA	3INDVEC	5.0+07	5.0+07	Jour	PR/C,37,(4),1420	88	A.Chatterjee+	D6025
<i>α,inel</i>	²⁰⁹ Bi	DAP	3INDVEC	5.0+07	5.0+07	Jour	PR/C,37,(4),1420	88	A.Chatterjee+	D6025
¹¹ B,el	²⁰⁹ Bi	DA	3INDTRM	6.9+07	6.9+07	Jour	PR/C,68,054612	03	P.K.Sahu+	D6035
¹¹ B,fis		CS	3INDTRM	5.3+07	6.3+07	Jour	PR/C,57,971	98	G.V.Raviprasad+	D6028
¹¹ B,fus		CS	3INDTRM	6.9+07	6.9+07	Jour	PR/C,68,054612	03	P.K.Sahu+	D6035
¹¹ B,tot		CS	3INDTRM	6.9+07	6.9+07	Jour	PR/C,68,054612	03	P.K.Sahu+	D6035
¹² C,fis		CS	3INDTRM	6.0+07	8.0+07	Jour	PR/C,57,971	98	G.V.Raviprasad+	D6028
¹⁴ N,fis		CS	3INDTRM	6.9+07	8.2+07	Jour	PR/C,57,971	98	G.V.Raviprasad+	D6028
⁷⁰ Zn,n	²⁷⁸ *	CS	2JPNIPC	3.5+08	3.5+08	Jour	JPJ,76,(4),045001	Apr 07	K.Morita+	E2055

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Radium

228

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	²²⁹ Ra	CS	1CANCRC	2.5-02	2.5-02	Jour	PR,85,499	Feb 52	F.Depocas+	12308

90 Thorium 229

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,fis	Many	?	3INDTRM	Fiss		Jour	RCA,31,69	82	R.J.Singh+	33002
<i>n</i> ,fis	¹³⁵ I	?	3INDTRM	2.5+04	2.5+04	Jour	RCA,33,189	83	S.S.Rattan+	33007
<i>n</i> ,fis	¹⁴⁰ Ba	?	3INDTRM	2.5+04	2.5+04	Jour	RCA,33,189	83	S.S.Rattan+	33007

90 Thorium 232

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,2 <i>n</i>	²³⁰ Th	CS	4RUSMOS	1.1+07	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ ,2 <i>n</i>	²³⁰ Th	CS	2FR SAC	9.3+06	1.6+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ ,fis		CS	4RUSMOS	5.3+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ ,fis		CS	2FR SAC	9.3+06	1.6+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ , <i>n</i>	²³¹ Th	CS	4RUSMOS	6.1+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ , <i>n</i>	²³¹ Th	?	2FR SAC	9.3+06	1.6+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ , <i>x+n</i>	inclusive	CS	1USALRL	5.1+06	1.8+07	Jour	PR/C,21,1215	Apr 80	J.T.Caldwell+	L0050
γ , <i>x+n</i>	inclusive	CS	4RUSMOS	5.3+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ , <i>x+n</i>	inclusive	CS	2FR SAC	9.3+06	1.6+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
<i>n</i> ,tot		CS	1USAANL	1.1+05	5.0+06	Jour	NSE,67,129	Jul 78	J.F.Whalen+	10797
<i>p</i> ,el	²³² Th	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
<i>p</i> ,el	²³² Th	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
<i>p</i> ,inel	²³² Th	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
<i>p</i> ,inel	²³² Th	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
¹³ C,fis		DA	3INDTRM	6.0+07	8.0+07	Jour	PR/C,72,067601	05	B.P.Ajithkumar+	D6042
¹³ C,fus		CS	3INDTRM	5.6+07	7.5+07	Jour	PR/C,72,067601	05	B.P.Ajithkumar+	D6042
¹⁴ N, α +fis		?	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>d</i> +fis		?	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>p</i> +fis		?	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>t</i> +fis		?	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>x</i> + α	inclusive	DAE	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>x</i> + <i>d</i>	inclusive	DAE	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>x</i> + <i>p</i>	inclusive	DAE	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181
¹⁴ N, <i>x</i> + <i>t</i>	inclusive	DAE	2JPNOSA	2.1+08	2.1+08	Jour	NP/A,429,(1),193	Oct 84	T.Fukuda+	E1181

90 Thorium 233

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,fis	Many	FY	3INDTRM	2.5-02	2.5-02	Jour	PR/C,71,014304	05	H.Naik+	33011

92 Uranium 233

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,fis		CS	1USALRL	5.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ , <i>n</i>	²³² U	?	1USALRL	5.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ , <i>x+n</i>	inclusive	CS	1USALRL	5.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058

n ,fis		CS	3CPRAEP	5.0+05	1.0+06	Jour	CST,9,(2),133	May 75	Yanwuguang+	32625
n ,fis	Many	FY	3INDTRM	2.5+04	2.5+04	Jour	RCA,42,169	87	S.A.Chitambar+	33003
n ,fis	Many	FY	3INDTRM	2.5-02	2.5-02	Jour	PR/C,71,014304	05	H.Naik+	33011
n ,fis	Many	FY	3INDTRM	Fiss		Jour	JIN,43,3067	81	A.Ramaswami+	33010
n ,tot		CS	1USAKAP	1.6+06	9.0+06	Prog	KAPL-1770,65	Apr 57	R.Fulwood+	11681
^{12}C ,fis	Many	CS	2JPNJAE	8.6+07	8.6+07	Jour	RCA,68,21	95	N.Shinohara+	E2034
^{19}F ,fis	Many	CS	2JPNJAE	1.1+08	1.1+08	Jour	RCA,68,21	95	N.Shinohara+	E2034

92 Uranium 234

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,fis		CS	1USALRL	7.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ ,n	^{233}U	?	1USALRL	7.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ ,x+n	inclusive	CS	1USALRL	7.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058

92 Uranium 235

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,x+n	inclusive	CS	1USALRL	5.2+06	1.8+07	Jour	PR/C,21,1215	Apr 80	J.T.Caldwell+	L0050
n ,fis		CS	3CPRAEP	1.4+07	1.4+07	Prog	INDC(CPR)-009/L,3	Aug 86	Lijingwen+	30721
n ,fis		CS	3CPRAEP	1.5+07	1.5+07	Conf	82ANTWER,,55	Sep 82	Lijing-Wen+	30634
n ,fis		CS	3CPRAEP	5.0+05	1.0+06	Jour	CST,9,(2),133	May 75	Yanwuguang+	32625
n ,fis	Many	FY	3INDTRM	2.5+04	2.5+04	Jour	RCA,42,169	87	S.A.Chitambar+	33003
n ,fis		?	3HUNKFI	1.4+07	1.4+07	Jour	NP/A,153,652	Sep 70	I.Kovacs+	30326
n ,tot		CS	1USAKAP	2.1+00	7.9+00	Prog	KAPL-1770,65	Apr 57	R.Fulwood+	11681
^{12}C ,fis	Many	CS	2JPNJAE	8.6+07	8.6+07	Jour	RCA,68,21	95	N.Shinohara+	E2034
^{19}F ,fis	Many	CS	2JPNJAE	1.1+08	1.1+08	Jour	RCA,68,21	95	N.Shinohara+	E2034

92 Uranium 236

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,x+n	inclusive	CS	1USALRL	5.2+06	1.8+07	Jour	PR/C,21,1215	Apr 80	J.T.Caldwell+	L0050

92 Uranium 238

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,2n	^{236}U	CS	2FR SAC	7.8+06	1.8+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ ,2n	^{236}U	CS	4RUSMOS	9.7+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ ,fis		CS	4RUSMOS	5.3+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ ,fis		CS	2FR SAC	7.8+06	1.8+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ ,n	^{237}U	CS	4RUSMOS	5.3+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ ,n	^{237}U	?	2FR SAC	7.8+06	1.8+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ ,x+n	inclusive	CS	1USALRL	5.0+06	1.8+07	Jour	PR/C,21,1215	Apr 80	J.T.Caldwell+	L0050
γ ,x+n	inclusive	CS	4RUSMOS	5.3+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722

$\gamma, x+n$	inclusive	CS	2FR SAC	7.8+06	1.8+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
n, fis		?	3HUNKFI	1.4+07	1.4+07	Jour	NP/A,153,652	Sep 70	I.Kovacs+	30326
n, γ	^{239}U	CS	1USABNL	2.5+06	2.5+06	Conf	55GENEVA,4,147(832)	55	H.Palevsky+	12446
p, el	^{238}U	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
p, el	^{238}U	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
p, fis	Many	CHG	2JPNJAE	9.4+06	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
p, fis	Many	CS	2JPNJAE	1.2+07	1.2+07	Jour	ZP/A,356,(1),61	Oct 96	H.Baba+	E2036
$p, inel$	^{238}U	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
$p, inel$	^{238}U	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,34,(2),493	Aug 86	Y.Takeuchi+	E1236
$^{12}\text{C}, fis$	Many	CS	2JPNJAE	8.6+07	8.6+07	Jour	RCA,68,21	95	N.Shinohara+	E2034
$^{19}\text{F}, fis$	Many	CS	2JPNJAE	1.1+08	1.1+08	Jour	RCA,68,21	95	N.Shinohara+	E2034

92

Uranium

239

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n, fis	Many	FY	3INDTRM	2.5-02	2.5-02	Jour	PR/C,71,014304	05	H.Naik+	33011

93

Neptunium

237

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\gamma, 2n$	^{235}Np	CS	4RUSMOS	1.2+07	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
$\gamma, 2n$	^{235}Np	CS	2FR SAC	1.3+07	1.7+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
$\gamma, 2n$	^{235}Np	?	1USALRL	1.2+07	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ, fis		CS	4RUSMOS	5.1+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ, fis		CS	1USALRL	5.5+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ, fis		CS	2FR SAC	9.3+06	1.7+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
γ, n	^{236}Np	CS	4RUSMOS	5.1+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ, n	^{236}Np	?	1USALRL	5.5+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ, n	^{236}Np	?	2FR SAC	9.3+06	1.7+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
$\gamma, x+n$	inclusive	CS	4RUSMOS	5.4+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
$\gamma, x+n$	inclusive	CS	1USALRL	5.5+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
$\gamma, x+n$	inclusive	CS	2FR SAC	9.3+06	1.7+07	Jour	NP/A,199,45	73	A.Veyssiere+	L0031
n, fis		CS	3DDRTUD	1.5+07	1.5+07	Jour	KE,24,48	Feb 81	R.Arlt+	30475
n, γ	^{238}Np	CS	4ZZZDUB	1.0+05	1.0+08	Priv	KUMAR	07	V.Kumar+	33012
$^{10}\text{B}, fis$		CS	3INDTRM	5.1+07	6.7+07	Jour	PR/C,65,057601	02	R.G.Thomas+	D6030
$^{10}\text{B}, fis$		DA	3INDTRM	5.3+07	7.0+07	Jour	PR/C,65,057601	02	R.G.Thomas+	D6030
$^{11}\text{B}, fis$		CS	3INDTRM	5.3+07	6.7+07	Jour	PR/C,65,057601	02	R.G.Thomas+	D6030
$^{11}\text{B}, fis$		DA	3INDTRM	5.6+07	7.0+07	Jour	PR/C,65,057601	02	R.G.Thomas+	D6030
$^{12}\text{C}, fis$	Many	CS	2JPNJAE	8.6+07	8.6+07	Jour	RCA,68,21	95	N.Shinohara+	E2034
$^{19}\text{F}, fis$	Many	CS	2JPNJAE	1.1+08	1.1+08	Jour	RCA,68,21	95	N.Shinohara+	E2034

94 Plutonium 238										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max	Ref Vol Page				
n, fis		CS	1USALRL	2.0+06	3.0+06	Jour	PR,154,1111	67	W.F.Stubbins+	12489

94 Plutonium 239										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max	Ref Vol Page				
$\gamma, 2n$	²³⁷ Pu	CS	1USALRL	1.3+07	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
$\gamma, 2n$	²³⁷ Pu	CS	4RUSMOS	1.3+07	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ, fis		CS	4RUSMOS	5.9+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ, fis		CS	1USALRL	6.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
γ, n	²³⁸ Pu	CS	4RUSMOS	5.9+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
γ, n	²³⁸ Pu	?	1USALRL	6.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
$\gamma, x+n$	inclusive	CS	4RUSMOS	5.1+06	1.8+07	Rept	MSU-INP-2007-8/829	07	V.V.Varlamov+	M0722
$\gamma, x+n$	inclusive	CS	1USALRL	6.0+06	1.8+07	Jour	PR/C,34,2201	Dec 86	B.L.Berman+	L0058
n, fis		CS	3CPRAEP	1.5+07	1.5+07	Conf	82ANTWER,,55	Sep 82	Lijing-Wen+	30634
n, fis	Many	FY	3INDTRM	2.5+04	2.5+04	Jour	RCA,42,169	87	S.A.Chitambar+	33003
n, fis	Many	FY	3INDTRM	2.5-02	2.5-02	Jour	PR/C,71,014304	05	H.Naik+	33011

94 Plutonium 241										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max	Ref Vol Page				
n, fis	Many	FY	3INDTRM	2.5+04	2.5+04	Jour	RCA,42,169	87	S.A.Chitambar+	33003
n, fis	Many	FY	3INDTRM	2.5-02	2.5-02	Jour	PR/C,71,014304	05	H.Naik+	33011

95 Americium 241										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max	Ref Vol Page				
γ, fis		CS	4RUSFEI	6.0+06	1.2+07	Jour	YF,64,211	01	A.S.Soldatov	M0728
γ, fis		?	4RUSFEI		1.2+07	Jour	YF,64,211	01	A.S.Soldatov	M0728

95 Americium 242										
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max	Ref Vol Page				
γ, fis		CS	4RUSFEI	6.0+06	1.2+07	Jour	YF,64,211	01	A.S.Soldatov	M0728
γ, fis		?	4RUSFEI		1.2+07	Jour	YF,64,211	01	A.S.Soldatov	M0728

		95		Americium			243			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
				Ref	Vol	Page				
γ ,fis		CS	4RUSFEI	6.0+06	1.2+07	Jour	YF,64,211	01	A.S.Soldatov	M0728
γ ,fis		?	4RUSFEI		1.2+07	Jour	YF,64,211	01	A.S.Soldatov	M0728

		96		Curium			243			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
				Ref	Vol	Page				
γ ,fis		CS	4RUSFEI	6.1+06	1.2+07	Jour	YF,66,574	03	A.S.Soldatov	M0729
γ ,fis		?	4RUSFEI		1.2+07	Jour	YF,66,574	03	A.S.Soldatov	M0729

		96		Curium			245			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
				Ref	Vol	Page				
γ ,fis		CS	4RUSFEI	5.1+06	1.0+07	Jour	YF,66,574	03	A.S.Soldatov	M0729
γ ,fis		?	4RUSFEI		1.0+07	Jour	YF,66,574	03	A.S.Soldatov	M0729
n ,fis	Many	FY	3INDTRM	2.5-02	2.5-02	Jour	PR/C,71,014304	05	H.Naik+	33011
n ,fis	¹³⁵ I	?	3INDTRM	2.5+04	2.5+04	Jour	RCA,33,189	83	S.S.Rattan+	33007

		97		Berkelium			249			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
				Ref	Vol	Page				
γ ,fis		CS	4RUSFEI	5.6+06	1.0+07	Jour	YF,66,574	03	A.S.Soldatov	M0729
γ ,fis		?	4RUSFEI		1.0+07	Jour	YF,66,574	03	A.S.Soldatov	M0729

		98		Californium			249			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
				Ref	Vol	Page				
γ ,fis		CS	4RUSFEI	6.0+06	1.2+07	Jour	YF,66,574	03	A.S.Soldatov	M0729
γ ,fis		?	4RUSFEI		1.2+07	Jour	YF,66,574	03	A.S.Soldatov	M0729

		98		Californium			252			
Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
				Ref	Vol	Page				
0,fis	¹³⁵ I	?	3INDTRM	Spont		Jour	RCA,33,189	83	S.S.Rattan+	33007