

Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

EXFOR : Recent Compilation (Added in December 2006)

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Retrieval service is available at:

<http://www.jcprg.org/exfor/>

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)

$^{18}\text{O},\text{fus}$	CS	3BZLUSP		8.4+06	2.4+07	Jour	PR/C,49,2018	94	R.M.Anjos+	D0407
$^{18}\text{O},\text{fus}$	DA	3BZLUSP		4.0+07	6.3+07	Jour	PR/C,49,2018	94	R.M.Anjos+	D0407

6 Carbon

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,x	^7Be	CS	2JPNIRS	4.0+08	4.0+08	Jour	RCA,93,(9-10),497	Sep 05	H.Matsumura+	E1969

6 Carbon 12

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,tot		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
$n,x+\alpha$	inclusive	CSP	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+\alpha$	inclusive	DA	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+\alpha$	inclusive	DAE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+\alpha$	inclusive	DE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+d$	inclusive	CSP	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+d$	inclusive	DA	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+d$	inclusive	DAE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+d$	inclusive	DE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+p$	inclusive	CSP	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+p$	inclusive	DA	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+p$	inclusive	DAE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+p$	inclusive	DE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+t$	inclusive	CSP	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+t$	inclusive	DA	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+t$	inclusive	DAE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
$n,x+t$	inclusive	DE	2BLGLVN	4.2+07	7.3+07	Jour	PR/C,51,(3),1303	Mar 95	I.Slypen+	22303
d,p	^{13}C	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
$^{16}\text{O},\text{el}$	^{12}C	DA	3BZLUSP	1.7+07	2.6+07	Jour	NP/A,501,605	89	A.C.C.Villari+	D0409
$^{16}\text{O},\text{tot}$		CS	3BZLUSP	8.5+06	2.7+07	Jour	NP/A,501,605	89	A.C.C.Villari+	D0409

6 Carbon 13

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^3\text{He},\alpha$	^{12}C	DAP	3CZRUIJF	3.8+07	3.8+07	Jour	PR/C,49,977	94	V.Burjan+	D0377
$^3\text{He},\text{el}$	^{13}C	DA	3CZRUIJF	3.8+07	3.8+07	Jour	PR/C,49,977	94	V.Burjan+	D0377

6 Carbon 14

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^3\text{He},\alpha$	^{13}C	DAP	3CZRUIJF	3.8+07	3.8+07	Jour	PR/C,49,977	94	V.Burjan+	D0377
$^3\text{He},\text{el}$	^{14}C	DA	3CZRUIJF	3.8+07	3.8+07	Jour	PR/C,49,977	94	V.Burjan+	D0377

p,α	^{16}O	DAP	2FR ENS	7.8+05	1.8+06	Jour	NIM,168,93	80	D.Dieumegard+	D0134
d,α	^{17}O	DAP	2FR ENS	7.1+05	1.9+06	Jour	NIM,168,93	80	D.Dieumegard+	D0134
$^{19}\text{F},\text{fus}$		CS	3BZLUSP	1.6+07	3.6+07	Jour	PR/C,42,354	90	R.M.Anjos+	D0415
$^{19}\text{F},\text{fus}$		DA	3BZLUSP	3.6+07	7.2+07	Jour	PR/C,42,354	90	R.M.Anjos+	D0415

12 Magnesium 24

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
n,γ		RP	2JPNITIT	4.6+04	8.4+04	Conf	2005NOTRED,,378	05	T.Ohsaki+	22929
n,γ		SPC	2JPNITIT	4.6+04	4.6+04	Conf	2005NOTRED,,378	05	T.Ohsaki+	22929
$^{12}\text{C},\text{el}$	^{24}Mg	DA	3BZLUSP	1.6+07	2.4+07	Jour	NP/A,620,91	97	W.Sciani+	D0421
$^{12}\text{C},\text{inel}$	^{24}Mg	DAP	3BZLUSP	1.9+07	2.3+07	Jour	NP/A,620,91	97	W.Sciani+	D0421

12 Magnesium 25

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
d,p	^{26}Mg	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970

13 Aluminium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
$^{20}\text{Ne},x+n$	inclusive	CSP	2JPNIRS	7.6+09	7.6+09	Jour	PR/C,73,(2),024603	Feb 06	L.Heilbronn+	E1978
$^{20}\text{Ne},x+n$	inclusive	DAE	2JPNIRS	7.6+09	7.6+09	Jour	PR/C,73,(2),024603	Feb 06	L.Heilbronn+	E1978
$^{20}\text{Ne},x+n$	inclusive	DAP	2JPNIRS	7.6+09	7.6+09	Jour	PR/C,73,(2),024603	Feb 06	L.Heilbronn+	E1978

13 Aluminium 27

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
d,p	^{28}Al	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
α,x	^7Be	CS	2JPNIRS	4.0+08	4.0+08	Jour	RCA,93,(9-10),497	Sep 05	H.Matsumura+	E1969
$^{11}\text{B},\text{fus}$		CS	3BZLUSP	1.3+07	3.6+07	Jour	PR/C,42,354	90	R.M.Anjos+	D0415
$^{11}\text{B},\text{fus}$		DA	3BZLUSP	2.4+07	4.8+07	Jour	PR/C,42,354	90	R.M.Anjos+	D0415

16 Sulphur 32

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation	Date	Author	Data #
				Min	Max					
n,p	^{32}P	CS	2GERJUL	3.0+06	3.0+06	Jour	ARI,64,717	06	M.Al-Abyad+	22857

21 Scandium 45

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁴⁶ Sc	CS	2GERKFK	Maxwl		Conf	2005NOTRED,,265	05	M.Heil+	22928
<i>p,x</i>	⁴⁴ Sc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n</i>	⁴⁸ V	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n+α</i>	⁴⁴ Sc	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁴⁷ Sc	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

22 Titanium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁴⁸ V	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁵¹ Cr	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

22 Titanium 46

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	⁴³ Sc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,el</i>	⁴⁶ Ti	DA	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,35,(4),1257	Apr 87	M.Fujiwara+	E1131
<i>p,el</i>	⁴⁶ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,35,(4),1257	Apr 87	M.Fujiwara+	E1131
<i>p,inel</i>	⁴⁶ Ti	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,35,(4),1257	Apr 87	M.Fujiwara+	E1131
<i>p,inel</i>	⁴⁶ Ti	POD	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,35,(4),1257	Apr 87	M.Fujiwara+	E1131
<i>α,2n</i>	⁴⁸ Cr	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n</i>	⁴⁹ Cr	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁴⁸ V	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
¹⁶ O, <i>2n+p</i>	⁵⁹ Cu	CS	3BZLUSP	2.5+07	4.2+07	Jour	NP/A,512,333	90	R.Liguorineto+	D0351
¹⁶ O, <i>2p+α</i>	⁵⁶ Fe	CS	3BZLUSP	2.5+07	4.2+07	Jour	NP/A,512,333	90	R.Liguorineto+	D0351
¹⁶ O, <i>fus</i>		CS	3BZLUSP	2.2+07	4.3+07	Jour	NP/A,512,333	90	R.Liguorineto+	D0351
¹⁶ O, <i>n+2p</i>	⁵⁹ Ni	CS	3BZLUSP	2.2+07	4.2+07	Jour	NP/A,512,333	90	R.Liguorineto+	D0351

22 Titanium 47

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,α</i>	⁴⁴ Sc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

22 Titanium 48

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁴⁸ V	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
<i>d,p</i>	⁴⁹ Ti	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970

22

Titanium

50

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{16}\text{O},2n+p$	^{63}Cu	CS	3BZLUSP	2.2+07	4.8+07	Jour	NP/A,512,333	90	R.Liguorinetto+	D0351
$^{16}\text{O},3n$	^{63}Zn	CS	3BZLUSP	2.2+07	4.8+07	Jour	NP/A,512,333	90	R.Liguorinetto+	D0351
$^{16}\text{O},\text{fus}$		CS	3BZLUSP	2.2+07	4.9+07	Jour	NP/A,512,333	90	R.Liguorinetto+	D0351
$^{16}\text{O},n+p$	^{64}Cu	CS	3BZLUSP	2.4+07	4.3+07	Jour	NP/A,512,333	90	R.Liguorinetto+	D0351

23

Vanadium

51

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{51}Cr	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
d,p	^{52}V	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
$\alpha,3n$	^{52}Mn	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
α,n	^{54}Mn	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

24

Chromium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{52}Mn	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

24

Chromium

50

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\alpha,2n$	^{52}Fe	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
α,x	^{52}Mn	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

24

Chromium

52

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{52}Mn	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
α,x	^{54}Mn	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
$^{16}\text{O},2n+\alpha$	^{62}Zn	CS	1USABNL	3.9+07	1.3+08	Jour	NP/A,127,(2),305	Apr 69	F.H.Ruddy+	R0037

24

Chromium

54

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,x	^{56}Mn	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

26 Iron

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{56}Co	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
$p,x+n$	inclusive	TTD	2JPNTOH	3.5+07	7.0+07	Conf	2004SANTA,,1568	04	T.Itoga+	E1973
α,x	^{57}Ni	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

26 Iron 54

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,p	^{55}Fe	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
α,x	^{56}Co	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

26 Iron 56

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{56}Co	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
α,x	^{58}Co	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

27 Cobalt 59

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{60}Co	CS	2GERKFK	Maxwl		Conf	2005NOTRED,,265	05	M.Heil+	22928
p,x	^{58}Co	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
$^3\text{He},n$	^{61}Cu	CS	2JPNIPC	1.9+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},n$	^{61}Cu	TT	2JPNIPC	1.9+07	4.1+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},x$	^{56}Co	CS	2JPNIPC	3.3+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},x$	^{56}Co	TT	2JPNIPC	3.3+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},x$	^{57}Co	CS	2JPNIPC	3.2+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},x$	^{57}Co	TT	2JPNIPC	3.4+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},x$	^{58}Co	CS	2JPNIPC	3.0+07	4.3+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$^3\text{He},x$	^{58}Co	TT	2JPNIPC	2.9+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$\alpha,2n$	^{61}Cu	CS	2JPNIPC	1.3+07	3.7+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$\alpha,2n$	^{61}Cu	TT	2JPNIPC	1.6+07	3.7+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
$\alpha,2n$	^{61}Cu	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
α,x	^{57}Co	CS	2JPNIPC	2.7+07	3.9+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
α,x	^{57}Co	TT	2JPNIPC	2.8+07	3.9+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
α,x	^{58}Co	CS	2JPNIPC	1.5+07	3.9+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
α,x	^{58}Co	TT	2JPNIPC	1.6+07	4.0+07	Jour	BCJ,50,(5),1251	May 77	Y.Homma+	E1961
α,x	^{61}Co	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
$^{14}\text{N},2n+2p$	^{69}Ge	CS	3BZLUSP	4.0+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},2n+\alpha$	^{67}Ge	CS	3BZLUSP	4.0+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},2n+p$	^{70}As	CS	3BZLUSP	3.2+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},2n+p+\alpha$	^{66}Ga	CS	3BZLUSP	4.0+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406

$^{14}\text{N},2p+\alpha$	^{67}Zn	CS	3BZLUSP	3.2+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},3n+p$	^{69}As	CS	3BZLUSP	3.6+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},\text{fus}$		CS	3BZLUSP	2.5+07	4.5+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},n$	^{72}Se	CS	3BZLUSP	2.5+07	4.5+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},n+2\alpha$	^{64}Zn	CS	3BZLUSP	3.4+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},n+\alpha$	^{68}Ge	CS	3BZLUSP	3.2+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},n+p$	^{71}As	CS	3BZLUSP	3.2+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},n+p+\alpha$	^{67}Ga	CS	3BZLUSP	3.4+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},p$	^{72}As	CS	3BZLUSP	2.5+07	4.5+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},p+\alpha$	^{68}Ga	CS	3BZLUSP	3.2+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{14}\text{N},x$	^{63}Ni	CS	3BZLUSP	3.2+07	5.6+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406
$^{16}\text{O},\text{fus}$		CS	3BZLUSP	2.6+07	3.9+07	Jour	NP/A,534,429	91	P.R.S.Gomes+	D0406

28

Nickel

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^{61}Cu	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

28

Nickel

58

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,α	^{55}Co	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
p,inel	^{58}Ni	DAP	2JPNOSA	6.5+07	6.5+07	Jour	PR/C,37,(6),2885	Jun 88	M.Fujiwara+	E1208
p,x	^{57}Ni	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
d,p	^{59}Ni	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
α,x	^{61}Cu	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

28

Nickel

61

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{61}Cu	?	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

29

Copper

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,x+n$	inclusive	TTD	2JPNTOH	3.5+07	7.0+07	Conf	2004SANTA,,1568	04	T.Itoga+	E1973
d,x	^{59}Fe	CS	3HUNDEB	5.3+06	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{57}Co	CS	3HUNDEB	3.3+07	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{58}Co	CS	3HUNDEB	2.6+07	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{60}Co	CS	3HUNDEB	1.5+07	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{57}Ni	CS	3HUNDEB	4.6+07	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{65}Ni	CS	3HUNDEB	1.5+07	2.0+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{64}Cu	CS	3HUNDEB	3.0+06	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176
d,x	^{62}Zn	CS	3HUNDEB	1.7+07	4.9+07	Jour	NIM/B,251,56	06	S.Takacs+	D4176

30

Zinc

66

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁶⁶ Ga	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
<i>p,x</i>	⁶¹ Cu	CS	2JPNIRS	3.2+07	1.0+08	Jour	JRN,263,(2),539	Jan 05	F.Szelecsenyi+	E1975
<i>p,x</i>	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					
<i>p,x</i>	⁶¹ Cu	CS	2JPNIRS	5.5+07	9.9+07	Jour	JRN,263,(2),539	Jan 05	F.Szelecsenyi+	E1975

31

Gallium

69

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁶⁹ Ge	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

32

Germanium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁶⁵ Zn	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁶⁶ Ga	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁶⁷ Ga	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁶⁸ Ge	CS	2JPNOSA	2.5+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁶⁸ Ge	TT	2JPNOSA	6.4+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁶⁹ Ge	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁷¹ As	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁷² As	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁷² As	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,x</i>	⁷³ As	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968
<i>p,x</i>	⁷⁴ As	CS	2JPNOSA	1.9+07	6.4+07	Jour	ARI,34,(11),1531	Nov 83	T.Horiguchi+	E1968

32

Germanium

70

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,n</i>	⁷³ Se	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁷² As	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

32

Germanium

72

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁷² As	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

32

Germanium

74

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁷⁴ As	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

32

Germanium

76

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁷⁶ As	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

33

Arsenic

75

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁷⁵ Se	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

34

Selenium

82

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁸² Br	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

35

Bromine

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
³ He,x	⁷⁹ Kr	CS	2JPNIPC	1.2+07	3.8+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
³ He,x	⁷⁹ Kr	TT	2JPNIPC	3.0+07	3.0+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
³ He,x	⁸¹ Rb	CS	2JPNIPC	1.2+07	3.8+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
³ He,x	⁸¹ Rb	TT	2JPNIPC	3.0+07	4.0+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
α,x	⁸² Rb	CS	2JPNIPC	1.3+07	3.8+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967

35

Bromine

79

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

n,γ	^{80}Br	CS	2GERKFK	Maxwl		Conf	2005NOTRED,,265	05	M.Heil+	22928
$\alpha,2n$	^{81}Rb	CS	2JPNIPC	1.3+07	3.8+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
$\alpha,2n$	^{81}Rb	TT	2JPNIPC	4.0+07	4.0+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
α,x	^{77}Br	CS	2JPNIPC	2.7+07	3.8+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967

35

Bromine

81

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{82}Br	CS	2GERKFK	Maxwl		Conf	2005NOTRED,,265	05	M.Heil+	22928
$^3\text{He},2n$	^{82}Rb	CS	2JPNIPC	1.2+07	3.7+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
$^3\text{He},2n$	^{82}Rb	TT	2JPNIPC	3.0+07	3.0+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
$\alpha,2n$	^{83}Rb	CS	2JPNIPC	1.3+07	3.8+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967
α,n	^{84}Rb	CS	2JPNIPC	1.3+07	3.7+07	Jour	ARI,30,(6),345	Jun 79	Y.Homma+	E1967

37

Rubidium

87

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{88}Rb	CS	2GERKFK	Maxwl		Conf	2005NOTRED,,265	05	M.Heil+	22928

38

Strontium

88

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{88}Sr	DA	3INDVEC	5.0+07	5.0+07	Jour	PR/C,39,1281	89	S.K.Datta+	D0403
α,inel	^{88}Sr	DAP	3INDVEC	5.0+07	5.0+07	Jour	PR/C,39,1281	89	S.K.Datta+	D0403

39

Yttrium

89

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{89}Zr	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
d,p	^{90}Y	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
α,n	^{92}Nb	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

40

Zirconium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^{90}Nb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

40 Zirconium 90

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	⁹⁰ Y	CS	2GERJUL	3.0+06	3.0+06	Jour	ARI,64,717	06	M.Al-Abyad+	22857
<i>p,n</i>	⁹⁰ Nb	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
<i>d,p</i>	⁹¹ Zr	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
<i>α,n</i>	⁹³ Mo	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

40 Zirconium 92

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹² Nb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

40 Zirconium 96

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁶ Nb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁹⁹ Mo	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

41 Niobium 93

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹³ Mo	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
<i>p,n</i>	⁹³ Mo	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,x</i>	⁹² Nb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,2n</i>	⁹⁵ Tc	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n</i>	⁹⁶ Tc	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

42 Molybdenum

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁹⁴ Tc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,x</i>	⁹⁵ Tc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

42 Molybdenum 92

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,n</i>	⁹⁵ Ru	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁹⁴ Tc	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	⁹⁵ Tc	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

42 Molybdenum 94

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,2n</i>	⁹³ Tc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n</i>	⁹⁷ Ru	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

42 Molybdenum 95

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁵ Tc	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

42 Molybdenum 96

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁹⁶ Tc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

42 Molybdenum 100

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁹⁹ Tc	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,x</i>	¹⁰³ Ru	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

45 Rhodium 103

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,2n</i>	¹⁰⁵ Ag	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n</i>	¹⁰⁶ Ag	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

47 Silver

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,x</i>	¹⁰⁵ Ag	CS	2JPNTOH	2.6+06	3.9+07	Jour	ARI,64,1013	06	M.S.Uddin+	D4123
<i>d,x</i>	¹¹⁰ Ag	CS	2JPNTOH	2.6+06	3.9+07	Jour	ARI,64,1013	06	M.S.Uddin+	D4123
<i>d,x</i>	¹⁰⁷ Cd	CS	2JPNTOH	4.4+05	3.9+07	Jour	ARI,64,1013	06	M.S.Uddin+	D4123
³ He,x	¹⁰⁶ Ag	CS	2JPNTOH	1.4+07	3.8+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
³ He,x	¹⁰⁹ In	CS	2JPNTOH	1.2+07	4.6+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
³ He,x	¹⁰⁹ In	TT	2JPNTOH	4.0+07	4.0+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963

α,x	${}^7\text{Be}$	CS	2JPNIRS	4.0+08	4.0+08	Jour	RCA,93,(9-10),497	Sep 05	H.Matsumura+	E1969
α,x	${}^{10}\text{Be}$	CS	2JPNTOK	4.0+08	4.0+08	Jour	RCA,93,(9-10),497	Sep 05	H.Matsumura+	E1969

47

Silver

107

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	${}^{107}\text{Cd}$	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
${}^3\text{He},x$	${}^{105}\text{Ag}$	CS	2JPNTOH	1.4+07	3.8+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
$\alpha,2n$	${}^{109}\text{In}$	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
α,n	${}^{110}\text{In}$	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

47

Silver

109

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
${}^3\text{He},2n$	${}^{110}\text{In}$	CS	2JPNTOH	1.2+07	4.6+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
${}^3\text{He},2n$	${}^{110}\text{In}$	TT	2JPNTOH	4.0+07	4.0+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
${}^3\text{He},n$	${}^{111}\text{In}$	CS	2JPNTOH	1.2+07	4.6+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
${}^3\text{He},n$	${}^{111}\text{In}$	TT	2JPNTOH	4.0+07	4.0+07	Jour	RRL,44,(5),307	80	T.Omori+	E1963
$\alpha,2n$	${}^{111}\text{In}$	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

48

Cadmium

111

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	${}^{111}\text{In}$	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

49

Indium

115

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	${}^{116}\text{In}$	RI	2JPNKTO		5.0-01	Jour	KPS,44,809	04	Y.Yoon+	22769
n,γ	${}^{116}\text{In}$	RI	2JPNKTO		5.0-01	Jour	ANE,29,(10),1157	Oct 02	Y.Yoon+	22802

50

Tin

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	${}^{116}\text{Sb}$	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
p,x	${}^{118}\text{Sb}$	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

50

Tin

117

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹¹⁷ Sb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

50

Tin

118

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,p</i>	¹¹⁹ Sn	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970

50

Tin

120

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²⁰ Sb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
⁶ Li,el	¹²⁰ Sn	DA	2GERMPH	4.4+07	4.4+07	Jour	NP/A,535,189	91	K.Becker+	D0418
⁶ Li,el	¹²⁰ Sn	POD	2GERMPH	4.4+07	4.4+07	Jour	NP/A,535,189	91	K.Becker+	D0418
⁶ Li,inel	¹²⁰ Sn	DAP	2GERMPH	4.4+07	4.4+07	Jour	NP/A,535,189	91	K.Becker+	D0418
⁶ Li,inel	¹²⁰ Sn	POD	2GERMPH	4.4+07	4.4+07	Jour	NP/A,535,189	91	K.Becker+	D0418

50

Tin

122

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²² Sb	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
<i>p,n</i>	¹²² Sb	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

51

Antimony

121

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²¹ Te	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

52

Tellurium

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	¹²¹ I	CS	3HUNDEB	1.3+07	1.8+07	Priv	Kiraly	May 06	B.Kiraly+	D4177
<i>p,x</i>	¹²³ I	CS	3HUNDEB	3.9+06	1.8+07	Priv	Kiraly	May 06	B.Kiraly+	D4177
<i>p,x</i>	¹²⁶ I	CS	3HUNDEB	6.3+06	1.8+07	Priv	Kiraly	May 06	B.Kiraly+	D4177
<i>p,x</i>	¹³⁰ I	CS	3HUNDEB	2.8+06	1.8+07	Priv	Kiraly	May 06	B.Kiraly+	D4177

52

Tellurium

130

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{130}I	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965

56

Barium

134

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{86}\text{Kr},2n$	^{218}U	?	2JPNJAE	2.2+08	2.2+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979
$^{86}\text{Kr},n$	^{219}U	?	2JPNJAE	2.3+08	2.3+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979
$^{86}\text{Kr},x$	^{218}Pa	?	2JPNJAE	2.2+08	2.3+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979

56

Barium

138

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^{86}\text{Kr},2n$	^{222}U	?	2JPNJAE	2.1+08	2.4+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979
$^{86}\text{Kr},3n$	^{221}U	?	2JPNJAE	2.4+08	2.4+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979
$^{86}\text{Kr},n$	^{223}U	?	2JPNJAE	2.1+08	2.3+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979
$^{86}\text{Kr},x$	^{222}Pa	?	2JPNJAE	2.2+08	2.4+08	Jour	PR/C,73,(3),034609	Mar 06	K.Satou+	E1979

62

Samarium

152

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{153}Sm	CS	2GERKFK	Maxwl		Jour	AJ,278,388	84	H.Beer+	22603

63

Europium

151

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{152}Eu	CS	2GERKFK	Maxwl		Jour	AJ,278,388	84	H.Beer+	22603

63

Europium

153

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,p	^{153}Sm	CS	2GERJUL	3.0+06	3.0+06	Jour	ARI,64,717	06	M.Al-Abyad+	22857

64

Gadolinium

152

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{153}Gd	CS	2GERKFK	Maxwl		Jour	AJ,278,388		84	H.Beer+	22603

64

Gadolinium

156

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{157}Gd	SPC	2FR ILL	Maxwl		Jour	NP/A,726,175		03	V.Bondarenko+	22765

64

Gadolinium

158

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{159}Gd	CS	2GERKFK	Maxwl		Jour	AJ,278,388		84	H.Beer+	22603

64

Gadolinium

160

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,x	^{161}Tb	CS	2GERKFK	Maxwl		Jour	AJ,278,388		84	H.Beer+	22603

65

Terbium

159

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
d,p	^{160}Tb	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1		Aug 80	N.Matsuoka+	E1970

68

Erbium

170

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
p,t	^{168}Er	DAP	2GERMUU	2.5+07	2.5+07	Jour	PR/C,73,064309		06	D.Bucurescu+	D0419

72

Hafnium

176

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation		Date	Author	Data #
				Min	Max		Ref	Vol Page			
n,γ	^{177}Hf	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,73,045807		06	K.Wisshak+	22926
n,γ	^{177}Hf	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,73,045807		06	K.Wisshak+	22926
n,tot		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807		06	K.Wisshak+	22926

72 Hafnium 177

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁷⁸ Hf	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,γ</i>	¹⁷⁸ Hf	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926

72 Hafnium 178

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁷⁹ Hf	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,γ</i>	¹⁷⁹ Hf	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926

72 Hafnium 179

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁸⁰ Hf	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,γ</i>	¹⁸⁰ Hf	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926

72 Hafnium 180

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁸¹ Hf	CS	2GERKFK	Maxwl	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,γ</i>	¹⁸¹ Hf	?	2GERKFK	3.0+03	2.2+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926

73 Tantalum 181

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁸¹ W	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,x</i>	¹⁸⁰ Ta	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>d,p</i>	¹⁸² Ta	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
<i>α,2n</i>	¹⁸³ Re	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>α,n</i>	¹⁸⁴ Re	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

74 Tungsten

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,x	¹⁸⁵ Os	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

74 Tungsten 182

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,2n$	¹⁸¹ Re	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
p,n	¹⁸² Re	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
$\alpha,3n$	¹⁸³ Os	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

74 Tungsten 184

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,p	¹⁸⁵ W	DAP	2GERMUN	1.8+07	2.1+07	Jour	NP/A,762,167	05	V.Bondarenko+	D0402
d,p	¹⁸⁵ W	POD	2GERMUN	1.8+07	1.8+07	Jour	NP/A,762,167	05	V.Bondarenko+	D0402

74 Tungsten 186

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,t	¹⁸⁵ W	DAP	2GERMUN	2.2+07	2.2+07	Jour	NP/A,762,167	05	V.Bondarenko+	D0402
d,t	¹⁸⁵ W	POD	2GERMUN	2.2+07	2.2+07	Jour	NP/A,762,167	05	V.Bondarenko+	D0402
α,x	¹⁸⁷ W	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

78 Platinum

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	¹⁹⁴ Au	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

78 Platinum 194

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,2n$	¹⁹³ Au	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
α,n	¹⁹⁷ Hg	TT	2JPNTOH	3.0+07	3.0+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

78 Platinum 196

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁹⁶ Au	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

78 Platinum 198

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁹⁸ Au	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

79 Gold 197

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	2GERKFK	1.0+04	2.0+05	Jour	PR/C,73,045807	06	K.Wisshak+	22926
<i>p,n</i>	¹⁹⁷ Hg	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,x</i>	¹⁹⁶ Au	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>p,x</i>	¹⁹⁷ Hg	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
<i>d,p</i>	¹⁹⁸ Au	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970
<i>α,x</i>	⁷ Be	CS	2JPNIRS	4.0+08	4.0+08	Jour	RCA,93,(9-10),497	Sep 05	H.Matsumura+	E1969
<i>α,x</i>	¹⁰ Be	CS	2JPNOK	4.0+08	4.0+08	Jour	RCA,93,(9-10),497	Sep 05	H.Matsumura+	E1969
⁶ He,el	¹⁹⁷ Au	DA	2BLGLVN	2.7+07	2.7+07	Jour	NP/A,765,294	06	O.R.Kakuee+	D0160

80 Mercury 196

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁹⁵ Hg	CS	2GERJUL	9.7+06	1.3+07	Jour	PR/C,73,064608	06	M.Al-Abyad+	22935

80 Mercury 198

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,2n</i>	¹⁹⁷ Hg	CS	2GERJUL	9.7+06	1.3+07	Jour	PR/C,73,064608	06	M.Al-Abyad+	22935
<i>n,p</i>	¹⁹⁸ Au	CS	2GERJUL	9.7+06	1.3+07	Jour	PR/C,73,064608	06	M.Al-Abyad+	22935

80 Mercury 199

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,p</i>	¹⁹⁹ Au	CS	2GERJUL	8.4+06	1.3+07	Jour	PR/C,73,064608	06	M.Al-Abyad+	22935

80

Mercury

204

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,n	^{203}Hg	CS	2GERJUL	7.7+06	1.3+07	Jour	PR/C,73,064608	06	M.Al-Abyad+	22935

82

Lead

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,x	^{206}Bi	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964

82

Lead

204

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{204}Bi	TT	2JPNTOH	1.6+07	1.6+07	Jour	JNM,123,(1-3),972	May 84	K.Abe+	E1964
p,t	^{202}Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PL/B,100,(3),232	Apr 81	Y.Toba+	E1980
p,t	^{202}Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	PL/B,100,(3),232	Apr 81	Y.Toba+	E1980

82

Lead

206

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{206}Bi	TT	2JPNTOH	1.0+07	1.0+07	Jour	JRN,82,(1),135	Apr 84	M.Isshiki+	E1965
p,t	^{204}Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PL/B,100,(3),232	Apr 81	Y.Toba+	E1980
p,t	^{204}Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	PL/B,100,(3),232	Apr 81	Y.Toba+	E1980

82

Lead

207

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,n	^{206}Pb	CSP	2ZZZGEL	5.3+05	2.0+07	Conf	2005NOTRED,,561	05	P.Baumann+	22934

82

Lead

208

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,t	^{206}Pb	DAP	2JPNTSU	2.2+07	2.2+07	Jour	PL/B,100,(3),232	Apr 81	Y.Toba+	E1980
p,t	^{206}Pb	POD	2JPNTSU	2.2+07	2.2+07	Jour	PL/B,100,(3),232	Apr 81	Y.Toba+	E1980
$^6\text{He,el}$	^{208}Pb	DA	2BLGLVN	2.7+07	2.7+07	Jour	NP/A,765,294	06	O.R.Kakuee+	D0160
$^7\text{Li,el}$	^{208}Pb	DA	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
$^7\text{Li,inel}$	^{208}Pb	DAP	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
$^7\text{Li,t}+\alpha$	^{208}Pb	DA	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
$^7\text{Li,x}$	^6He	DAE	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
$^7\text{Li,x}$	^6Li	DAE	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417

${}^7\text{Li},x$	${}^7\text{Li}$	DAE	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
${}^7\text{Li},x+\alpha$	inclusive	DAE	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
${}^7\text{Li},x+d$	inclusive	DAE	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417
${}^7\text{Li},x+t$	inclusive	DAE	3INDTRM	4.2+07	4.2+07	Jour	NP/A,683,3	01	D.Gupta+	D0417

83

Bismuth

209

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,p	${}^{210}\text{Bi}$	DAE	2JPNOSA	5.6+07	5.6+07	Jour	NP/A,345,(1),1	Aug 80	N.Matsuoka+	E1970

90

Thorium

232

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	${}^{233}\text{Th}$	CS	2ZZZCER	4.0+03	9.9+05	Jour	PR/C,73,054610	06	G.Aerts+	22931
p,fis	Many	FY	2JPNJAE	1.5+07	1.5+07	Jour	JRN,255,(1),67	Jan 03	Y.L.Zhao+	E1974

92

Uranium

238

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,fis	Many	FY	2JPNJAE	1.5+07	1.5+07	Jour	JRN,255,(1),67	Jan 03	Y.L.Zhao+	E1974

94

Plutonium

244

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,fis	Many	FY	2JPNJAE	1.5+07	1.5+07	Jour	JRN,255,(1),67	Jan 03	Y.L.Zhao+	E1974

96

Curium

248

Reaction	Product	Quant.	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,fis	Many	FY	2JPNJAE	1.5+07	1.5+07	Jour	JRN,255,(1),67	Jan 03	Y.L.Zhao+	E1974
p,fis	Many	KE	2JPNJAE	1.5+07	1.5+07	Jour	JRN,255,(1),67	Jan 03	Y.L.Zhao+	E1974