

Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

EXFOR : Recent Compilation List (Added in May 2004)

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Retrieval service is available at:

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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	TT	Partial thick target yield

Special codes in outgoing particle field

abs	Absorption	fus	Fusion	non	Nonelastic	ths	Thermal scattering
el	Elastic	inel	Inelastic	sct	Scattering	tot	Total
f	Fission	incl	Inclusive	tcc	Total charge changing		

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

<i>n,tot</i>		CS	1USALAS	9.2+06	5.0+08	Jour	PR/C,63,044608	Apr 01	W.P.Abfalterer+	13753
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1

Hydrogen

2

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

γ,n	^1H	DA	2ITYFRA	3.0+07	4.8+07	Jour	NP/A,633,683	98	D.Babusci+	M0649
γ,n	^1H	DA	4UKRKFT	5.2+06	9.0+06	Jour	NP/A,628,597	98	V.P.Likhachrv+	M0647
γ,n	^1H	POD	2ITYFRA	3.0+07	4.8+07	Jour	NP/A,633,683	98	D.Babusci+	M0649
γ,n	^1H	POD	1USADKE	3.6+06		Jour	PR/C,61,061604	00	E.C.Schreiber+	M0646
γ,n	^1H	POD	4UKRKFT	5.5+06	8.5+06	Jour	NP/A,628,597	98	V.P.Likhachrv+	M0647
<i>n,tot</i>		CS	1USALAS	9.2+06	5.0+08	Jour	PR/C,63,044608	Apr 01	W.P.Abfalterer+	13753
<i>n,tot</i>		?	1USALAS	9.2+06	5.0+08	Jour	PRL,81,57	Jul 98	W.P.Abfalterer+	13889
<i>d,n</i>	^3He	DA	1USARIC	1.1+06	5.5+06	Jour	PR,119,1079	60	T.Retz-Schmidt+	C1009

1

Hydrogen

3

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

<i>p,n</i>	^3He	POD	1USAVIR	2.2+06	1.3+06	Jour	NP/A,171,59	71	D.S.Cramer+	C0974
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2

Helium

3

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

<i>d,p</i>	^4He	DA	1USAMIN	2.6+05	3.6+06	Jour	PR,90,292	Apr 53	J.L.Yarnell+	C0987
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2

Helium

4

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

<i>p,el</i>	^4He	POD	1CANTMF	5.0+08		Jour	NP/A,392,361	83	G.A.Moss+	C0975
<i>p,el</i>	^4He	POD	1USALAS	8.5+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
$\alpha,2p$	^6He	CS	1USAMSU	1.6+08	2.8+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
$\alpha,2p$	^6He	DA	1USAMSU	1.6+08	2.8+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
α,n	^7Be	CS	1USAMSU	1.6+08	6.2+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
α,n	^7Be	DA	1USAMSU	1.6+08	2.8+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
α,p	^7Li	CSP	1USAMSU	1.6+08	6.2+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
α,p	^7Li	DAP	1USAMSU	1.6+08	2.8+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
α,x	^6Li	CSP	1USAMSU	1.6+08	6.2+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959
α,x	^6Li	DAP	1USAMSU	1.6+08	6.2+08	Jour	PR/C,63,065805	01	D.J.Mercer+	C0959

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Lithium

6

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁶ Li	DA	1USACAL	2.4+06	1.2+07	Jour	PR,132,2607	Dec 63	W.D.Harrison+	C1003
<i>p</i> ,el	⁶ Li	DA	2ITYPAD	2.8+06	5.6+06	Jour	NC,34,1832	64	U.Fasoli+	D0135
<i>p</i> ,el	⁶ Li	DA	1USACAL	5.5+06	1.2+07	Jour	PR,132,2607	Dec 63	W.D.Harrison+	C1003

3

Lithium

7

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,el	⁷ Li	DA	1USAFSU	1.1+07	1.7+07	Jour	PR/C,67,0146608	03	K.Rusek+	C1001
α ,el	⁷ Li	POD	1USAFSU	0.0+00	1.7+07	Jour	PR/C,67,0146608	03	K.Rusek+	C1001
α ,inel	⁷ Li	DAP	1USAFSU	1.1+07	1.7+07	Jour	PR/C,67,0146608	03	K.Rusek+	C1001
α ,inel	⁷ Li	POD	1USAFSU	1.1+07	1.7+07	Jour	PR/C,67,0146608	03	K.Rusek+	C1001
¹² C,inel	⁷ Li	DAP	1USAFSU	3.4+07		Jour	PR/C,65,044613	02	N.Keeley+	C1005
¹² C,inel	⁷ Li	POD	1USAFSU	3.4+07		Jour	PR/C,65,044613	02	N.Keeley+	C1005

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Beryllium

9

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁹ Be	POD	1USALAS	8.5+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d</i> , <i>p</i>	¹⁰ Be	DAP	4RUSMOS	1.2+07	1.5+07	Jour	YF,64,1995	01	N.S.Zelenskaya+	A0664

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Carbon

12

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
<i>p</i> ,el	¹² C	DA	2SWTBAS	3.4+05	2.0+06	Jour	ZP/A,279,41	76	H.O.Meyer+	D0125
<i>p</i> ,el	¹² C	DA	1USAWIS	6.2+05	4.4+06	Jour	PR,89,365	53	H.L.Jackson+	C1000
<i>p</i> ,el	¹² C	POD	1USALAS	8.6+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>p</i> , <i>x</i>	⁷ Be	CS	2FR CSN	3.5+07	1.6+08	Jour	JPR,23,371	62	C.Brun+	D0128
<i>p</i> , <i>x</i>	¹¹ C	CS	2FR CSN	1.5+08		Jour	JPR,23,371	62	C.Brun+	D0128
<i>d</i> ,el	¹² C	DA	1USARIC	6.3+05	1.4+06	Jour	PR,117,1289	Mar 60	E.Kashy+	C1007
<i>d</i> , <i>n</i>	¹³ N	CS	1USABRK	1.8+06	4.8+06	Jour	PR,51,620	37	H.W.Newson	C0999
<i>d</i> , <i>p</i>	¹³ C	DAP	1USARIC	4.8+05	2.0+06	Jour	PR,117,1289	Mar 60	E.Kashy+	C1007
³ He, <i>n</i>	¹⁴ O	CSP	1CANCRC	1.9+06	2.5+06	Jour	PR,105,957	57	D.A.Bromley+	C0994
³ He, <i>n</i>	¹⁴ O	DA	1CANCRC	1.4+06	2.8+06	Jour	PR,105,957	57	D.A.Bromley+	C0994
³ He, <i>p</i>	¹⁴ N	CSP	1CANCRC	1.3+06	2.7+06	Jour	PR,105,957	57	D.A.Bromley+	C0994
³ He, <i>p</i>	¹⁴ N	DAP	1CANCRC	1.1+06	2.9+06	Jour	PR,105,957	57	D.A.Bromley+	C0994
α ,el	¹² C	DA	1USAWIS	2.4+06	3.9+06	Jour	PR,90,839	53	J.R.Cameron	C1031
α ,el	¹² C	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567
α ,el	¹² C	DA	1USAWIS	2.5+06	4.0+06	Jour	PR,90,845	53	R.W.Hill	C1026
α ,el	¹² C	DA	1USARIC	2.5+06	4.7+06	Jour	NP,37,1	62	C.Millerjones+	C1029

<i>d,p</i>	¹⁵ N	DA	4RUSFEI	8.1+05	2.0+06	Jour	YK,56,(2),26	84	V.S.Shorin+	D0109
<i>d,p</i>	¹⁵ N	DAP	2ITYPAD	5.5+05	6.5+05	Jour	NIM,201,476	82	M.Berti+	D0131
α ,el	¹⁴ N	DA	1USAWIS	1.5+06	2.4+06	Jour	PR,124,868	61	E.A.Silverstein+	C1008
α ,el	¹⁴ N	DA	1USARIC	2.7+06	4.7+06	Jour	PR,112,547	58	E.Kashy+	C1032
α ,el	¹⁴ N	DA	1USAWIS	9.2+05	2.2+06	Jour	PR,124,868	61	E.A.Silverstein+	C1008
α , <i>p</i>	¹⁷ O	DAP	1USARIC	3.6+06	4.7+06	Jour	PR,112,547	58	E.Kashy+	C1032

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Nitrogen

15

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
<i>p</i> , α	¹² C	DAP	1USACAL	9.2+05	2.9+06	Jour	PR,108,1015	57	F.B.Hagedorn+	C0995
<i>p</i> , <i>n</i>		RP	2UK OXF	4.4+06	1.1+07	Jour	NP/A,120,342	68	A.R.Barnett	D0111
<i>p</i> , <i>n</i>		RP	2UK OXF	8.9+06	1.8+07	Jour	NP/A,298,19	78	S.H.Chew+	D0113
<i>p</i> , <i>n</i>	¹⁵ O	CS	2UK OXF	3.7+06	1.2+07	Jour	NP/A,120,342	68	A.R.Barnett	D0111
<i>p</i> , <i>n</i>	¹⁵ O	CSP	2UK OXF	5.8+06	1.9+07	Jour	NP/A,298,19	78	S.H.Chew+	D0113
<i>p</i> , <i>n</i>	¹⁵ O	DAP	2UK OXF	8.5+06	1.9+07	Jour	NP/A,298,19	78	S.H.Chew+	D0113
α ,0		RP	2GERIFS	0.0+00		Jour	NP/A,621,145	97	S.Wilmes+	F0516
α ,el	¹⁵ N	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567
α , <i>t</i>	¹⁶ O	DAP	4RUSMOS	3.0+07		Jour	YF,61,5	98	A.V.Ignatenko+	A0657

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Oxygen

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.1+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
<i>p</i> ,0		RP	1USAWIS	0.0+00		Jour	PR,133,(3B),647	64	R.L.Dangle+	C1015
<i>p</i> , α	¹³ N	CS	1USAPTN	1.2+07	1.8+07	Jour	PR,123,1301	61	H.A.Hill+	C0998
<i>p</i> , α	¹³ N	DAP	1USAWIS	7.2+06	1.3+07	Jour	PR,133,(3B),647	64	R.L.Dangle+	C1015
<i>p</i> ,el	¹⁶ O	DA	2SWDIPS	2.0+06		Jour	ZP/A,311,173	83	M.Braun+	D0124
<i>p</i> ,el	¹⁶ O	DA	1CANUBC	3.9+05	2.0+06	Jour	CJP,53,1672	75	H.C.Chow+	C1014
<i>p</i> ,el	¹⁶ O	DA	2SWDIPS	6.0+05	2.0+06	Jour	ZP/A,311,173	83	M.Braun+	D0124
<i>p</i> ,el	¹⁶ O	POD	1USALAS	7.9+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>p</i> , γ	¹⁷ F	CSP	1CANUBC	1.3+06	2.4+06	Jour	CJP,53,1672	75	H.C.Chow+	C1014
<i>p</i> , γ	¹⁷ F	DAP	1CANUBC	1.3+06	2.4+06	Jour	CJP,53,1672	75	H.C.Chow+	C1014
<i>p</i> ,inel	¹⁶ O	DAP	1USAWIS	7.2+06	1.3+07	Jour	PR,133,(3B),647	64	R.L.Dangle+	C1015
<i>d</i> , α	¹⁴ N	CS	2FR ENS	6.0+05		Jour	AC,39,1689	67	G.Amsel+	D0104
<i>d</i> , α	¹⁴ N	DA	1USAOSU	7.2+05	2.1+06	Jour	NP,45,647	63	R.F.Seiler+	C1030
<i>d</i> ,el	¹⁶ O	DA	1USAOSU	6.6+05	2.1+06	Jour	NP,45,647	63	R.F.Seiler+	C1030
<i>d</i> , <i>n</i>	¹⁷ F	CS	1USABRK	2.1+06	4.9+06	Jour	PR,51,620	37	H.W.Newson	C0999
<i>d</i> , <i>p</i>	¹⁷ O	CSP	2FR ENS	9.0+05		Jour	AC,39,1689	67	G.Amsel+	D0104
<i>d</i> , <i>p</i>	¹⁷ O	DAP	2FR ENS	4.1+05	1.1+06	Jour	AC,39,1689	67	G.Amsel+	D0104
<i>d</i> , <i>p</i>	¹⁷ O	DAP	2ITYPAD	5.5+05	6.6+05	Jour	NIM,201,476	82	M.Berti+	D0131
<i>d</i> , <i>p</i>	¹⁷ O	DAP	1USAOSU	7.2+05	2.1+06	Jour	NP,45,647	63	R.F.Seiler+	C1030
³ He, α	¹⁵ O	DAP	1USAWIS	2.1+06	2.7+06	Jour	PR,124,868	61	E.A.Silverstein+	C1008
³ He,el	¹⁶ O	DA	1USAWIS	9.7+05	3.1+06	Jour	PR,124,868	61	E.A.Silverstein+	C1008
α ,0		RP	2FR SAT	0.0+00		Jour	NIM/B,136-138,55	98	E.Berthoumieux+	F0587
α , <i>d</i>	¹⁸ F	DAP	3SAFSIR	2.7+07	3.4+07	Jour	JP/GL,4,149	78	A.A.Cowley+	F0508
α ,el	¹⁶ O	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567
α ,el	¹⁶ O	DA	3SAFSIR	2.7+07	3.4+07	Jour	JP/GL,4,149	78	A.A.Cowley+	F0508
α ,el	¹⁶ O	DA	2FR SAT	3.0+06	3.4+06	Jour	NIM/B,136-138,55	98	E.Berthoumieux+	F0587
α ,el	¹⁶ O	DA	2JPNJAE	6.0+06	8.0+06	Jour	NIM/B,88,207	94	H.Yonezawa+	F0117

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Neon

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$\alpha,0$		RP	2UK OXF	0.0+00		Jour	NP/A,309,77	78	L.K.Fifield+	F0518

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Sodium

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Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,0$		RP	1CANTMF	0.0+00		Jour	PRL,90,162501	Apr 03	S.Bishop+	C0992
p,γ	^{22}Mg	PY	1CANTMF	2.0+08	2.2+08	Jour	PRL,90,162501	Apr 03	S.Bishop+	C0992

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Sodium

23

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSMOS	1.2+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
n,γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
n,γ	^{24}Na	CSP	1USAORL	2.5-02		Rept	ORNL-TM-3957	Oct 72	R.E.Maerker	13868
p,α	^{20}Ne	TTD	2BLGNAM	1.0+06	2.7+06	Jour	JRC,35,95	77	F.Bodart+	D0129
p,γ	^{24}Mg	TTD	2BLGNAM	4.9+05	1.0+06	Jour	JRC,35,95	77	F.Bodart+	D0129
p,inel	^{23}Na	TTD	2BLGNAM	8.5+05	2.7+06	Jour	JRC,35,95	77	F.Bodart+	D0129

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Magnesium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{nat}Mg	POD	1USALAS	8.5+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018

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Magnesium

24

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
p,el	^{24}Mg	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
$\alpha,^{12}\text{C}$	^{16}O	DA	3POLIFJ	2.5+07	2.8+07	Jour	NP/A,452,432	86	I.Skwirczynska+	F0115
$\alpha,^{12}\text{C}$	^{16}O	DAP	3POLIFJ	2.5+07	2.8+07	Jour	NP/A,452,432	86	I.Skwirczynska+	F0115
α,el	^{24}Mg	DA	2GERMPH	1.5+07	1.9+07	Jour	NP/A,142,113	70	K.A.Eberhard+	F0626
α,el	^{24}Mg	DA	3POLIFJ	2.3+07	2.9+07	Jour	APP/B,7,289	76	J.Ploskonka+	F0592
α,el	^{24}Mg	DA	3POLIFJ	2.5+07	2.8+07	Jour	NP/A,452,432	86	I.Skwirczynska+	F0115
α,inel	^{24}Mg	DAP	3POLIFJ	2.3+07	2.9+07	Jour	APP/B,7,289	76	J.Ploskonka+	F0592
α,inel	^{24}Mg	DAP	3POLIFJ	2.5+07	2.8+07	Jour	NP/A,452,432	86	I.Skwirczynska+	F0115
α,p	^{27}Al	CSP	3POLIFJ	2.3+07	2.9+07	Jour	APP/B,7,289	76	J.Ploskonka+	F0592
α,p	^{27}Al	DA	3POLIFJ	2.3+07	2.8+07	Jour	APP/B,7,289	76	J.Ploskonka+	F0592
α,p	^{27}Al	DAP	3POLIFJ	2.3+07	2.9+07	Jour	APP/B,7,289	76	J.Ploskonka+	F0592

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Aluminium

27

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	9.0+06	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
n , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
p ,el	^{27}Al	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
p ,el	^{27}Al	POD	1USALAS	7.6+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
p , n	^{27}Si	CSP	1USALRL	6.0+06	1.4+07	Jour	PR,177,1416	69	J.D.Anderson+	C1016
p , n	^{27}Si	DAP	1USALRL	8.0+06	1.4+07	Jour	PR,177,1416	69	J.D.Anderson+	C1016
p , x	^{22}Na	CS	2FR CSN	4.1+07	1.6+08	Jour	JPR,23,371	62	C.Brun+	D0128
p , x	^{24}Na	CS	2FR CSN	4.0+07	1.5+08	Jour	JPR,23,371	62	C.Brun+	D0128
d ,el	^{27}Al	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
d , p + α	^{24}Na	CS	4RUSSUL	7.8+06	1.2+07	Conf	79RIGA,,314	79	P.P.Zarubin+	A0667
d , x	^{22}Na	CS	1USALRL	3.0+07	1.9+08	Jour	PR,97,427	55	S.O.Ring+	C0990
α , n	^{30}P	?	2JPNIPC	3.0+06	3.5+07	Jour	NIM/A,383,272	96	Y.Itoh+	F0620
α , x	^7Be	CS	1USABNL	4.1+07	3.4+07	Jour	PR,127,224	Jul 62	N.T.Porile	C0984
α , x	^{22}Na	CS	1USABNL	4.1+07	3.3+07	Jour	PR,127,224	Jul 62	N.T.Porile	C0984
α , x	^{24}Na	CS	1USABNL	4.1+07	3.4+07	Jour	PR,127,224	Jul 62	N.T.Porile	C0984
^7Li ,el	^{27}Al	DA	2SF HLS	3.5+06	8.0+06	Jour	NIM/B,73,439	93	J.Raisanen+	A0599

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Silicon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
^7Li ,el	^{nat}Si	DA	2SF HLS	4.4+06	7.7+06	Jour	NIM/B,73,439	93	J.Raisanen+	A0599

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Silicon

28

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
n , α	incl	DAE	1USADAV	3.2+07	5.0+07	Jour	NIM/A,361,574	95	P.S.Rezentes+	13893
n , p	incl	DAE	1USADAV	3.2+07	5.0+07	Jour	NIM/A,361,574	95	P.S.Rezentes+	13893
p ,el	^{28}Si	DA	1USAMIT	4.8+06	7.0+06	Jour	PR,127,947	62	M.W.Brenner+	C0997
p ,inel	^{28}Si	DAP	1USAMIT	4.8+06	7.0+06	Jour	PR,127,947	62	M.W.Brenner+	C0997
α ,0		RP	2SF ABA	0.0+00		Jour	YF,55,884	92	K.R.Artemov+	F0660
α ,el	^{28}Si	DA	2SF ABA	1.3+07		Jour	YF,55,884	92	K.R.Artemov+	F0660
α ,el	^{28}Si	DA	3POLIFJ	2.6+07	2.8+07	Jour	APP/B,25,849	94	A.Grzeszczuk+	F0596
α ,el	^{28}Si	DA	3POLIFJ	2.7+07		Jour	NC/A,103,(9),1255	90	M.Siemaszko+	F0614
α ,el	^{28}Si	DA	2JPNJAE	5.5+06	8.0+06	Jour	NIM/B,88,207	94	H.Yonezawa+	F0117
α ,inel	^{28}Si	DAP	3POLIFJ	2.6+07	2.8+07	Jour	APP/B,25,849	94	A.Grzeszczuk+	F0596
α ,inel	^{28}Si	DAP	2JPNJAE	6.3+06	8.0+06	Jour	NIM/B,88,207	94	H.Yonezawa+	F0117
α , n	^{31}S	?	2JPNIPC	8.9+06	3.5+07	Jour	NIM/A,383,272	96	Y.Itoh+	F0620
α , p	^{31}P	DAP	2JPNJAE	5.5+06	8.0+06	Jour	NIM/B,88,207	94	H.Yonezawa+	F0117

14

Silicon

29

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	8.0+06	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
d , α	²⁷ Al	DAP	2UK BIR	1.2+07		Jour	NP/A,458,475	86	N.J.Davis+	F0529
d , α	²⁷ Al	POD	2UK BIR	1.2+07		Jour	NP/A,458,475	86	N.J.Davis+	F0529
α , d	³¹ P	DAP	2UK BIR	2.5+07		Jour	NP/A,458,475	86	N.J.Davis+	F0529
α ,el	²⁹ Si	DA	3POLIFJ	2.6+07	2.8+07	Jour	APP/B,25,849	94	A.Grzeszczuk+	F0596
α ,el	²⁹ Si	DA	3POLIFJ	2.7+07		Jour	NC/A,103,(9),1255	90	M.Siemaszko+	F0614
α ,inel	²⁹ Si	DAP	3POLIFJ	2.6+07	2.8+07	Jour	APP/B,25,849	94	A.Grzeszczuk+	F0596

14

Silicon

30

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
d , α	²⁸ Al	DAP	2UK BIR	1.2+07		Jour	NP/A,458,475	86	N.J.Davis+	F0529
d , α	²⁸ Al	POD	2UK BIR	1.2+07		Jour	NP/A,458,475	86	N.J.Davis+	F0529
α , d	³² P	DAP	2UK BIR	2.5+07		Jour	NP/A,458,475	86	N.J.Davis+	F0529
α ,el	³⁰ Si	DA	3POLIFJ	2.6+07	2.8+07	Jour	APP/B,25,849	94	A.Grzeszczuk+	F0596
α ,el	³⁰ Si	DA	3POLIFJ	2.7+07		Jour	NC/A,103,(9),1255	90	M.Siemaszko+	F0614
α ,inel	³⁰ Si	DAP	3POLIFJ	2.6+07	2.8+07	Jour	APP/B,25,849	94	A.Grzeszczuk+	F0596

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Phosphorus

31

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p , α	²⁸ Si	TTD	2BLGNAM	1.8+06	2.6+06	Jour	JRC,12,209	72	G.Demortier+	D0133
p , γ	³² S	TTD	2BLGNAM	5.0+05	2.5+06	Jour	JRC,12,209	72	G.Demortier+	D0133
p ,inel	³¹ P	TTD	2BLGNAM	1.8+06	2.6+06	Jour	JRC,12,209	72	G.Demortier+	D0133
α ,el	³¹ P	DA	3POLIFJ	2.5+07		Jour	NP/A,117,509	68	A.Budzanowski+	F0603
α ,inel	³¹ P	DAP	3POLIFJ	2.5+07		Jour	NP/A,117,509	68	A.Budzanowski+	F0603

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Sulphur

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870

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Sulphur

32

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
α ,el	³² S	DA	3RUMCIP	1.1+07	1.6+07	Jour	RRP,11,329	66	H.Hulubei+	F0637
α ,el	³² S	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567
α ,el	³² S	DA	3POLIFJ	2.4+07		Jour	NP/A,117,509	68	A.Budzanowski+	F0603

α ,inel	^{32}S	DAP	3RUMCIP	1.1+07	1.6+07	Jour	RRP,11,329	66	H.Hulubei+	F0637
α ,inel	^{32}S	DAP	3POLIFJ	2.4+07		Jour	NP/A,117,509	68	A.Budzanowski+	F0603

16 Sulphur 34

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.1+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
α ,el	^{34}S	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

18 Argon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{nat}Ar	POD	1USALAS	7.6+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018

18 Argon 36

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,el	^{36}Ar	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

18 Argon 38

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,el	^{38}Ar	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

18 Argon 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	9.0+06	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
α ,el	^{40}Ar	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

19 Potassium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870

19 Potassium 39

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{39}K	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

19 Potassium 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{40}K	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

19 Potassium 41

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{41}K	DA	2GERMPH	2.4+07		Jour	PRL,28,694	72	H.Oeschler+	F0567
α,n	^{44}Sc	CS	4RUSMOS	1.5+07	2.3+07	Conf	87JURMAL,,55	87	K.A.Baskova+	A0675

20 Calcium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
p,el	^{nat}Ca	POD	1USALAS	8.6+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018

20 Calcium 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
α,el	^{40}Ca	DA	2GERMPH	2.9+07		Jour	PRL,28,694	72	H.Oeschler+	F0567
$\alpha,inel$	^{40}Ca	DAP	3POLIFJ	2.5+07		Jour	NP/A,117,509	68	A.Budzanowski+	F0603

20 Calcium 44

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
α,el	^{44}Ca	DA	2GERMPH	2.9+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

20

Calcium

48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
α ,el	^{48}Ca	DA	2GERMPH	2.9+07		Jour	PRL,28,694	72	H.Oeschler+	F0567

22

Titanium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
p ,el	^{nat}Ti	POD	1USALAS	8.5+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
d ,el	^{nat}Ti	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
^7Li ,el	^{nat}Ti	DA	2SF HLS	5.0+06	1.1+07	Jour	NIM/B,73,439	93	J.Raisanen+	A0599

22

Titanium

48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.0+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648

23

Vanadium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{nat}V	DA	1USAROC	3.5+06	6.4+06	Jour	PR,115,389	Jul 59	C.A.Preskitt+	C1017

23

Vanadium

51

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{51}V	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
p ,el	^{51}V	POD	1USALAS	8.3+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018

24

Chromium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{nat}Cr	DA	1USAROC	3.5+06	6.4+06	Jour	PR,115,389	Jul 59	C.A.Preskitt+	C1017

24

Chromium

52

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.2+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648

25

Manganese

55

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,el	^{55}Mn	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
p ,el	^{55}Mn	POD	1USALAS	8.1+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018

26

Iron

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n , γ		CSP	1USAORL	2.5-02		Rept	ORNL-TM-3957	Oct 72	R.E.Maerker	13868
n , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
p ,el	^{nat}Fe	DA	1USAROC	3.9+06	6.4+06	Jour	PR,115,389	Jul 59	C.A.Preskitt+	C1017
p ,el	^{nat}Fe	POD	1USALAS	8.5+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
d ,el	^{nat}Fe	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
d , p	^{56}Fe	DAP	1USAPUP	1.5+07		Jour	PR,126,698	Apr 62	B.L.Cohen+	C1020
d , x	^{51}Cr	CS	1USAORL	1.6+07	3.8+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{52}Mn	CS	1USAORL	5.2+06	3.9+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{54}Mn	CS	1USAORL	5.2+06	3.9+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{56}Mn	CS	1USAORL	5.2+06	3.8+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{55}Co	CS	1USAORL	5.2+06	3.8+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{56}Co	CS	1USAORL	8.7+06	3.8+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{57}Co	CS	1USAORL	5.2+06	3.8+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
d , x	^{58}Co	CS	1USAORL	5.1+06	3.0+07	Jour	PR,179,1104	69	J.W.Clark+	C0991
n , γ		CSP	1USAORL	2.5-02		Rept	ORNL-TM-3957	Oct 72	R.E.Maerker	13868
n , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870

26

Iron

54

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p , d	^{53}Fe	DAP	1USAORL	2.2+07		Jour	PR,127,574	Jul 62	C.D.Goodman+	C1021
p ,el	^{54}Fe	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
p , γ	^{55}Co	CS	4UKRKFT	4.0+06	9.0+06	Jour	YF,45,614	87	E.A.Skakun+	A0668

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Iron

56

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p ,0		RP	2SWTZUR	0.0+00		Jour	NP/A,151,211	70	H.Brandle+	D0130
p , d	^{55}Fe	DAP	1USAORL	2.2+07		Jour	PR,127,574	Jul 62	C.D.Goodman+	C1021

p,el	^{56}Fe	DA	2SWTZUR	3.7+06	4.3+06	Jour	NP/A,151,211	70	H.Brandle+	D0130
p,γ	^{57}Co	DA	2SWTZUR	1.2+06	1.3+06	Jour	NP/A,151,211	70	H.Brandle+	D0130
$^3\text{He},\alpha$	^{55}Fe	DAP	1USALAS	1.4+07		Jour	PR,127,1233	Aug 62	A.G.Blair+	C1022
$^3\text{He},el$	^{56}Fe	DA	1USALAS	1.4+07		Jour	PR,127,1233	Aug 62	A.G.Blair+	C1022
α,el	^{56}Fe	DA	1USALAS	2.6+07		Jour	PR,127,1233	Aug 62	A.G.Blair+	C1022

26

Iron

57

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{57}Fe	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
$^3\text{He},\alpha$	^{56}Fe	DAP	1USALAS	1.4+07		Jour	PR,127,1233	Aug 62	A.G.Blair+	C1022

26

Iron

58

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{58}Fe	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
α,el	^{58}Fe	DA	1USABRK	6.4+07		Jour	PR,134,B42	Apr 64	P.Darriulat+	C1025
$\alpha,incl$	^{58}Fe	DAP	1USABRK	6.4+07		Jour	PR,134,B42	Apr 64	P.Darriulat+	C1025

27

Cobalt

59

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	incl	CS	4RUSMOS	1.0+07	2.9+07	Jour	IZV,33,(10),1736	69	B.I.Goryachev+	M0093
p,el	^{59}Co	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
p,el	^{59}Co	DA	1USAROC	3.9+06	6.4+06	Jour	PR,115,389	Jul 59	C.A.Preskitt+	C1017
p,el	^{59}Co	POD	1USALAS	8.4+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
α,p	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

28

Nickel

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
p,el	^{nat}Ni	POD	1USALAS	8.2+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018

28

Nickel

58

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,abs		CS	4RUSMOS	1.2+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
$p,2p$	^{57}Co	CS	1USAROC	1.1+07	4.0+07	Priv	EWART	64	H.A.Ewart+	C1012
p,α	^{55}Co	CS	1USAROC	8.8+06	4.0+07	Priv	EWART	64	H.A.Ewart+	C1012
p,el	^{58}Ni	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019

<i>p</i> ,el	⁵⁸ Ni	DA	1USAANL	7.0+06	1.2+07	Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
<i>p</i> ,x	⁵⁶ Co	CS	1USAROC	2.6+07	4.0+07	Priv	EWART	64	H.A.Ewart+	C1012
<i>p</i> ,x	⁵⁶ Ni	CS	1USAROC	3.0+07	4.0+07	Priv	EWART	64	H.A.Ewart+	C1012
<i>p</i> ,x	⁵⁷ Ni	CS	1USAROC	1.2+07	4.0+07	Priv	EWART	64	H.A.Ewart+	C1012
<i>d</i> ,el	⁵⁸ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
<i>d</i> ,el	⁵⁸ Ni	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
α ,el	⁵⁸ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
α ,inel	⁵⁸ Ni	DAP	1USABRK	6.4+07		Jour	PR,134,B42	Apr 64	P.Darriulat+	C1025
α , <i>n+p</i>	⁶⁰ Cu	?	2JPNIPC	5.0+06	3.5+07	Jour	NIM/A,383,272	96	Y.Itoh+	F0620
α , <i>p</i>	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

28 Nickel 60

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ ,abs		CS	4RUSMOS	1.2+07	4.0+07	Rept	MSU-INP-2002-27/711	02	B.S.Ishkhanov+	M0648
<i>p</i> ,el	⁶⁰ Ni	DA	1USAANL	7.0+06	1.2+07	Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
<i>d</i> ,el	⁶⁰ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
α ,el	⁶⁰ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
α , <i>p</i>	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

28 Nickel 62

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁶² Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
<i>d</i> ,el	⁶² Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
α ,el	⁶² Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
α , <i>p</i>	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

28 Nickel 64

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,el	⁶⁴ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
<i>p</i> ,el	⁶⁴ Ni	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
<i>d</i> ,el	⁶⁴ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024
α ,el	⁶⁴ Ni	DA	1USAANL	1.2+07		Jour	PR,134,B765	May 64	L.L.Leejr+	C1024

29 Copper

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> , γ	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870
<i>p</i> ,el	^{nat} Cu	POD	1USALAS	8.5+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d</i> ,el	^{nat} Cu	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
α ,x	⁶⁴ Cu	CS	2UK BIR	2.0+07	3.1+07	Jour	ARI,38,499	87	J.Zweit+	D0119

34 Selenium 77

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁷⁷ Br	CS	4UKRKFT	3.7+06	8.8+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

34 Selenium 80

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁸⁰ Br	CS	4UKRKFT	4.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

35 Bromine

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	⁷⁶ Kr	CS	2SWDUPP	4.4+07	7.9+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116
<i>p,x</i>	⁷⁷ Kr	CS	2SWDUPP	2.9+07	6.9+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116
<i>p,x</i>	⁷⁹ Kr	CS	2SWDUPP	1.8+07	7.9+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116

37 Rubidium 85

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,2n</i>	⁸⁷ Y	CS	3INDVEC	2.7+07	5.0+07	Jour	IPA,41,829	03	A.Agarwal+	D0122
<i>α,3n</i>	⁸⁶ Y	CS	3INDVEC	2.7+07	5.0+07	Jour	IPA,41,829	03	A.Agarwal+	D0122
<i>α,4n</i>	⁸⁵ Y	CS	3INDVEC	4.2+07	5.0+07	Jour	IPA,41,829	03	A.Agarwal+	D0122

37 Rubidium 87

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,4n</i>	⁸⁷ Y	CS	3INDVEC	4.2+07	5.0+07	Jour	IPA,41,829	03	A.Agarwal+	D0122

38 Strontium 87

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁸⁷ Y	CS	4UKRKFT	4.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

39

Yttrium

89

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁸⁹ Zr	CS	4UKRKFT	4.7+06	8.8+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670
<i>d,el</i>	⁸⁹ Y	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

40

Zirconium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	^{nat} Zr	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

40

Zirconium

91

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	CS	4RUSFEI	7.0+06	9.0+06	Jour	YF,51,318	90	A.M.Trufanov+	A0597
<i>p,n</i>	incl	DAE	4RUSFEI	9.0+06		Jour	YF,51,318	90	A.M.Trufanov+	A0597
<i>p,n</i>	incl	DAP	4RUSFEI	9.0+06		Jour	YF,51,318	90	A.M.Trufanov+	A0597
<i>p,n</i>	incl	DE	4RUSFEI	6.0+06	9.0+06	Jour	YF,51,318	90	A.M.Trufanov+	A0597

40

Zirconium

94

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	incl	CS	4RUSFEI	6.0+06	9.0+06	Jour	YF,51,318	90	A.M.Trufanov+	A0597
<i>p,n</i>	incl	DAE	4RUSFEI	9.0+06		Jour	YF,51,318	90	A.M.Trufanov+	A0597
<i>p,n</i>	incl	DAP	4RUSFEI	9.0+06		Jour	YF,51,318	90	A.M.Trufanov+	A0597
<i>p,n</i>	incl	DE	4RUSFEI	6.0+06	9.0+06	Jour	YF,51,318	90	A.M.Trufanov+	A0597

41

Niobium

93

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁹³ Nb	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
<i>p,el</i>	⁹³ Nb	POD	1USALAS	8.4+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d,el</i>	⁹³ Nb	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
<i>α,2n</i>	⁹⁵ Tc	CS	3INDVEC	0.0+00		Jour	PR/C,65,034605	02	A.Agarwal+	D0121
<i>α,3n</i>	⁹⁴ Tc	CS	3INDVEC	2.3+07	3.7+07	Jour	PR/C,65,034605	02	A.Agarwal+	D0121
<i>α,n</i>	⁹⁶ Tc	CS	3INDVEC	2.3+07	3.7+07	Jour	PR/C,65,034605	02	A.Agarwal+	D0121
<i>α,n+α</i>	⁹² Nb	CS	3INDVEC	2.3+07	3.7+07	Jour	PR/C,65,034605	02	A.Agarwal+	D0121
<i>α,p</i>	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

42 Molybdenum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	^{nat} Mo	POD	1USALAS	8.2+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d,el</i>	^{nat} Mo	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

42 Molybdenum 94

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁴ Tc	CS	4UKRKFT	6.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

42 Molybdenum 95

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁵ Tc	CS	4UKRKFT	4.5+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

42 Molybdenum 98

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
³ He,x	⁹⁹ Tc	SPC	1USAPUR	1.8+07		Jour	PR/C,57,590	98	B.Crowe+	C0954

44 Ruthenium 99

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	⁹⁹ Rh	CS	4UKRKFT	4.9+06	8.9+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

44 Ruthenium 101

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰¹ Rh	CS	4UKRKFT	5.1+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

44 Ruthenium 102

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰² Rh	CS	4UKRKFT	5.5+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

44

Ruthenium

104

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰⁴ Rh	CS	4UKRKFT	5.1+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

45

Rhodium

103

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹⁰³ Rh	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
<i>p,el</i>	¹⁰³ Rh	POD	1USALAS	8.8+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d,el</i>	¹⁰³ Rh	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
<i>α,p</i>	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

46

Palladium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	^{nat} Pd	POD	1USALAS	8.7+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d,el</i>	^{nat} Pd	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023
<i>α,p</i>	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

46

Palladium

104

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰⁴ Ag	CS	4UKRKFT	6.0+06	9.0+06	Jour	YF,47,609	88	V.G.Batij+	A0671
<i>p,n</i>	¹⁰⁴ Ag	CS	4UKRKFT	7.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670
<i>p,n</i>	¹⁰⁴ Ag	CS	4UKRKFT	7.0+06	9.0+06	Jour	YF,47,609	88	V.G.Batij+	A0671

46

Palladium

105

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰⁵ Ag	CS	4UKRKFT	5.0+06	9.0+06	Jour	YF,47,609	88	V.G.Batij+	A0671

46

Palladium

108

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁰⁸ Ag	CS	4UKRKFT	5.0+06	9.0+06	Jour	YF,47,609	88	V.G.Batij+	A0671

46

Palladium

110

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹¹⁰ Ag	CS	4UKRKFT	6.0+06	9.0+06	Jour	YF,47,609	88	V.G.Batij+	A0671
<i>p,n</i>	¹¹⁰ Ag	CS	4UKRKFT	6.1+06	9.1+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

47

Silver

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	^{nat} Ag	POD	1USALAS	8.3+06		Jour	PR,124,199	Oct 61	L.Rosen+	C1018
<i>d,el</i>	^{nat} Ag	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

48

Cadmium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	^{nat} Cd	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

48

Cadmium

106

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	¹⁰⁷ In	CS	4UKRKFT	6.1+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

48

Cadmium

108

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	¹⁰⁹ In	CS	4UKRKFT	4.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670
<i>p,n</i>	¹⁰⁸ In	CS	4UKRKFT	6.0+06	8.5+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

48

Cadmium

111

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹¹¹ In	CS	4UKRKFT	5.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

48

Cadmium

114

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	¹¹⁵ In	CS	4UKRKFT	3.0+06	8.0+06	Jour	YF,45,614	87	E.A.Skakun+	A0668

48

Cadmium

116

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹¹⁶ Cd	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019

49

Indium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	^{nat} In	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

50

Tin

112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,γ</i>	¹¹³ Sb	CS	4UKRKFT	5.0+06	9.0+06	Jour	YF,45,614	87	E.A.Skakun+	A0668

50

Tin

116

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	¹¹⁶ Sn	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
<i>p,n</i>	¹¹⁶ Sb	CS	4UKRKFT	7.0+06	9.0+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

50

Tin

118

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹¹⁸ Sb	CS	4UKRKFT	7.3+06	8.9+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

50

Tin

120

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²⁰ Sb	CS	4UKRKFT	6.0+06	8.9+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670
<i>d,el</i>	¹²⁰ Sn	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

50

Tin

122

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹²² Sb	CS	4UKRKFT	5.4+06	8.9+06	Jour	ZP/A,344,13	92	E.A.Skakun+	A0670

52

Tellurium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	¹²³ I	CS	2UK UK	6.5+06	5.9+07	Jour	ARI,38,499	87	J.Zweit+	D0120
<i>p,x</i>	¹²⁴ I	CS	2UK UK	6.7+06	5.9+07	Jour	ARI,38,499	87	J.Zweit+	D0120
<i>p,x</i>	¹²⁵ I	CS	2UK UK	6.7+06	5.9+07	Jour	ARI,38,499	87	J.Zweit+	D0120
<i>p,x</i>	¹²⁶ I	CS	2UK UK	6.8+06	5.9+07	Jour	ARI,38,499	87	J.Zweit+	D0120
<i>p,x</i>	¹³⁰ I	CS	2UK UK	6.8+06	3.3+07	Jour	ARI,38,499	87	J.Zweit+	D0120

53

Iodine

127

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,3n</i>	¹²⁵ Xe	CS	2SWDUPP	3.9+07	9.9+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116
<i>p,5n</i>	¹²³ Xe	CS	2SWDUPP	4.9+07	7.9+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116
<i>p,6n</i>	¹²² Xe	CS	2SWDUPP	5.9+07	9.5+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116
<i>p,7n</i>	¹²¹ Xe	CS	2SWDUPP	7.4+07	8.9+07	Jour	ARI,30,39	79	H.Lundqvist+	D0116
<i>p,x</i>	¹²¹ Xe	CS	1USADAV	6.7+07	6.0+07	Jour	ARI,37,835	86	M.C.Lagunas-Solar+	C0967
<i>p,x</i>	¹²² Xe	CS	1USADAV	6.7+07	4.9+07	Jour	ARI,37,835	86	M.C.Lagunas-Solar+	C0967
<i>p,x</i>	¹²³ Xe	CS	1USADAV	6.7+07	4.6+07	Jour	ARI,37,835	86	M.C.Lagunas-Solar+	C0967
<i>p,x</i>	¹²⁵ Xe	CS	1USADAV	6.7+07	4.6+07	Jour	ARI,37,835	86	M.C.Lagunas-Solar+	C0967
<i>p,x</i>	¹²⁷ Xe	CS	1USADAV	6.7+07	4.6+07	Jour	ARI,37,835	86	M.C.Lagunas-Solar+	C0967

55

Cesium

133

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	¹²⁹ Cs	TT	1USADAV	6.7+07	3.6+07	Jour	ARI,33,619	82	M.C.Lagunas-Solar+	C0968
<i>p,x</i>	¹³² Cs	TT	1USADAV	6.7+07	3.6+07	Jour	ARI,33,619	82	M.C.Lagunas-Solar+	C0968
<i>p,x</i>	¹²⁸ Ba	TT	1USADAV	6.7+07	4.8+07	Jour	ARI,33,619	82	M.C.Lagunas-Solar+	C0968
<i>p,x</i>	¹³¹ Ba	TT	1USADAV	6.7+07	3.6+07	Jour	ARI,33,619	82	M.C.Lagunas-Solar+	C0968

56

Barium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	incl	CSP	1USAORL	Fast		Jour	NSE,42,335	70	R.E.Maerker+	13870

56

Barium

136

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,0$		RP	1USAORL	0.0+00		Jour	PR/C,54,1463	Sep 96	P.E.Koehler+	13729

62

Samarium

147

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,α		RP	1USAORL	3.4+00	7.0+02	Jour	PR/C,69,015803	Jan 04	P.E.Koehler+	13892
n,el		?	1USAORL	3.4+00	7.0+02	Jour	PR/C,69,015803	Jan 04	P.E.Koehler+	13892

62

Samarium

154

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$d,^6Li$	^{150}Nd	DAP	1USABNL	3.3+07		Jour	PR/C,26,405	Aug 82	J.Jaenecke+	C0981

65

Terbium

159

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,n	^{162}Ho	CS	4RUSMOS	2.0+07	2.7+07	Conf	85LENING,,62	85	K.A.Baskova+	A0674

68

Erbium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^{nat}Er	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

70

Ytterbium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^{nat}Yb	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

72

Hafnium

178

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,n	^{178}Ta	CS	4UKRKFT	7.6+06	9.1+06	Jour	IZV,50,913	86	V.G.Batij+	A0676

72

Hafnium

180

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,n</i>	¹⁸⁰ Ta	CS	4UKRKFT	6.2+06	9.2+06	Jour	IZV,50,913	86	V.G.Batij+	A0676

73

Tantalum

181

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,5n</i>	¹⁷⁷ W	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,el</i>	¹⁸¹ Ta	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019
<i>p,x</i>	¹⁶⁷ Lu	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁶⁹ Lu	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷¹ Lu	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷⁷ Lu	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷⁰ Hf	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷² Hf	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷⁵ Hf	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷⁷ Hf	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷⁹ Hf	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁸⁰ Hf	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>p,x</i>	¹⁷⁸ Ta	CS	1CANTMF	1.0+08	5.0+08	Jour	PR/C,68,054611	Nov 03	B.L.Zhuikov+	A0598
<i>d,el</i>	¹⁸¹ Ta	DA	1USAPUP	1.5+07		Jour	PR,130,2391	Jun 63	R.K.Jolly+	C1023

74

Tungsten

180

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,n</i>	¹⁸³ Os	CS	4RUSMOS	2.4+07	3.1+07	Conf	85LENING,,62	85	K.A.Baskova+	A0674

74

Tungsten

182

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,tot</i>		CS	1USALAS	5.5+06	4.8+08	Jour	PR/C,67,044606	Apr 03	F.S.Dietrich+	13887

74

Tungsten

184

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>γ,n</i>	incl	CS	4RUSSGU	9.0+06	1.9+07	Jour	YF,17,463	73	A.M.Goryachev+	M0645
<i>n,tot</i>		CS	1USALAS	5.5+06	4.8+08	Jour	PR/C,67,044606	Apr 03	F.S.Dietrich+	13887

74

Tungsten

186

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	incl	CS	4RUSSGU	9.0+06	1.9+07	Jour	YF,17,463	73	A.M.Goryachev+	M0645
n,tot		CS	1USALAS	5.5+06	4.8+08	Jour	PR/C,67,044606	Apr 03	F.S.Dietrich+	13887

76

Osmium

187

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	incl	CS	4RUSSGU	9.0+06	1.9+07	Jour	YF,17,463	73	A.M.Goryachev+	M0645

78

Platinum

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,p	incl	CS	1USAWAS	4.2+07		Jour	PR,141,1033	66	R.W.West	C0971

79

Gold

197

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
γ,n	incl	CS	4RUSMOS	8.1+06	2.7+07	Jour	IZV,33,(9),1891	73	Yu.I.Sorokin+	M0650
γ,n	incl	INT	4RUSMOS	8.0+06	2.7+07	Jour	IZV,33,(9),1891	73	Yu.I.Sorokin+	M0650
p,el	^{197}Au	DA	1USAORL	2.2+07		Jour	PR,125,631	Jan 62	C.B.Fulmer	C1019

81

Thallium

203

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,3n$	^{201}Pb	CS	1USALRC	1.8+07	3.5+07	Jour	MED,5,532	78	J.W.Blue+	C1027
$p,3n$	^{201}Pb	CS	1USABNL	1.9+07	3.2+07	Jour	NM,16,151	75	E.Lebowitz+	C1028
$p,4n$	^{200}Pb	CS	1USALRC	2.8+07	3.5+07	Jour	MED,5,532	78	J.W.Blue+	C1027
$d,3n$	^{202}Pb	CS	1USATAM	1.9+07	4.8+07	Jour	MED,5,532	78	J.W.Blue+	C1027
$d,4n$	^{201}Pb	CS	1USATAM	2.4+07	4.8+07	Jour	MED,5,532	78	J.W.Blue+	C1027
$d,5n$	^{200}Pb	CS	1USATAM	3.4+07	4.8+07	Jour	MED,5,532	78	J.W.Blue+	C1027

81

Thallium

205

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$d,3n$	^{204}Pb	CS	1USATAM	2.0+07	3.6+07	Jour	MED,5,532	78	J.W.Blue+	C1027
$d,4n$	^{203}Pb	CS	1USATAM	2.4+07	4.7+07	Jour	MED,5,532	78	J.W.Blue+	C1027
$d,5n$	^{202}Pb	CS	1USATAM	3.2+07	4.8+07	Jour	MED,5,532	78	J.W.Blue+	C1027

