

Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

EXFOR : Recent Compilation List (Added in Jan 2005)

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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	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					
${}^6\text{He},d$	${}^5\text{He}$	DA	4ZZZDUB	1.5+08		Jour	PL/B,467,8	99	R.Wolski+	D0132
${}^6\text{He},el$	${}^1\text{H}$	CS	2FR GAN	2.2+08		Jour	PL/B,505,15	01	A.Devismes+	D0201
${}^6\text{He},el$	${}^1\text{H}$	DA	4ZZZDUB	1.5+08		Jour	PL/B,467,8	99	R.Wolski+	D0132
${}^6\text{He},el$	${}^1\text{H}$	DA	4ZZZDUB	1.5+08		Jour	PL/B,542,35	02	S.V.Stepantsov+	D0194
${}^6\text{He},el$	${}^1\text{H}$	DA	2FR GAN	2.3+08		Jour	PL/B,517,18	01	V.Lapoux+	D0203
${}^6\text{He},el$	${}^1\text{H}$	DA	2FR GAN	2.5+08		Jour	PL/B,518,27	01	A.Lagoyannis+	D0175
${}^6\text{He},el$	${}^1\text{H}$	DA	2FR GAN	2.5+08		Jour	PL/B,371,14	96	M.D.Cortina-Gil+	D0245
${}^6\text{He},inel$	${}^1\text{H}$	DAP	4ZZZDUB	1.5+08		Jour	PL/B,542,35	02	S.V.Stepantsov+	D0194
${}^6\text{He},inel$	${}^1\text{H}$	DAP	2FR GAN	2.5+08		Jour	PL/B,518,27	01	A.Lagoyannis+	D0175
${}^6\text{He},n$	${}^6\text{Li}$	DAP	2FR GAN	2.5+08		Jour	NP/A,641,263	98	M.D.Cortina-Gil+	D0211
${}^6\text{He},t$	${}^4\text{He}$	DA	4ZZZDUB	1.5+08		Jour	PL/B,467,8	99	R.Wolski+	D0132
${}^7\text{Li},el$	${}^1\text{H}$	DA	2FR GAN	4.7+08		Jour	PL/B,401,9	97	M.D.Cortina-Gil+	D0246
${}^{10}\text{Be},el$	${}^1\text{H}$	DA	2FR GAN	5.9+08		Jour	PL/B,401,9	97	M.D.Cortina-Gil+	D0246
${}^{11}\text{Be},el$	${}^1\text{H}$	DA	2FR GAN	5.4+08		Jour	PL/B,401,9	97	M.D.Cortina-Gil+	D0246

1 Hydrogen 2

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	${}^2\text{H}$	DA	2UK HAR	6.3+07		Jour	NP/A,101,65	67	E.G.Auld+	D0224
α,el	${}^2\text{H}$	DA	2FR CSN	1.7+08		Jour	PL/B,30,324	69	I.Brissaud+	D0217

2 Helium 3

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,ths	${}^3\text{He}$	AMP	1USANIS	1.1-02		Jour	PR/C,70,014004	Jul 04	P.R.Huffman+	13908

2 Helium 4

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	${}^4\text{He}$	DA	2NEDIKO	2.5+07		Jour	NP,44,546	64	W.T.H.Vanoers+	D0221
${}^6\text{He},el$	${}^4\text{He}$	DA	2BLGLVN	1.2+07		Jour	PR/C,67,044602	03	R.Raabe+	D0202
${}^6\text{He},el$	${}^4\text{He}$	DA	2BLGLVN	1.2+07	1.6+07	Jour	PL/B,458,1	99	R.Raabe+	D0173

3 Lithium 6

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	${}^6\text{Li}$	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216

4

Beryllium

9

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,d</i>	⁸ Be	POD	2SWDUPP	1.8+08		Jour	AF,39,429	68	A.Ingemarsson+	D0181
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
<i>α,el</i>	⁹ Be	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
<i>α,non</i>		CS	2SWDUPP	7.0+07	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186
¹¹ B, <i>el</i>	⁹ Be	DA	3POLWWA	4.5+07		Jour	NP/A,714,391	03	A.T.Rudchik+	D0156
¹¹ B, <i>inel</i>	⁹ Be	DAP	3POLWWA	4.5+07		Jour	NP/A,714,391	03	A.T.Rudchik+	D0156

6

Carbon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

6

Carbon

12

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,d</i>	¹¹ C	POD	2SWDUPP	1.8+08		Jour	AF,39,429	68	A.Ingemarsson+	D0181
<i>p,inel</i>	¹² C	POD	2SWDUPP	1.8+08		Jour	PS,9,73	73	A.Ingemarsson	D0212
<i>d,el</i>	¹² C	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d,el</i>	¹² C	DA	2FR GRE	3.0+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
<i>d,el</i>	¹² C	DA	2GERJUL	6.1+07	9.0+07	Jour	NP/A,253,263	75	O.Aspelund+	D0232
<i>d,el</i>	¹² C	DA	2UK HAR	6.3+07		Jour	NP/A,101,65	67	E.G.Auld+	D0224
<i>d,el</i>	¹² C	POD	2FR GRE	3.0+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
<i>d,inel</i>	¹² C	DAP	2GERJUL	6.1+07	9.0+07	Jour	NP/A,253,263	75	O.Aspelund+	D0232
<i>d,p</i>	¹³ C	CS	2UK HAR	6.3+07		Jour	NP/A,101,65	67	E.G.Auld+	D0224
<i>α,el</i>	¹² C	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
<i>α,el</i>	¹² C	DA	2GERJUL	1.2+08	1.7+08	Jour	APP/B,12,491	81	S.Wiktor+	D0213
<i>α,el</i>	¹² C	DA	2FR SAT	1.4+09		Jour	NP/A,267,413	76	A.Chaumeaux+	D0219
<i>α,el</i>	¹² C	DA	2FR CSN	1.7+08		Jour	PL/B,30,324	69	I.Brissaud+	D0217
<i>α,inel</i>	¹² C	DAP	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
<i>α,inel</i>	¹² C	DAP	2FR SAT	1.4+09		Jour	NP/A,267,413	76	A.Chaumeaux+	D0219
<i>α,inel</i>	¹² C	DAP	2FR CSN	1.7+08		Jour	PL/B,30,324	69	I.Brissaud+	D0217
<i>α,inel</i>	¹² C	DAP	2GERJUL	1.7+08		Jour	JP/G,13,1067	87	Akiss+	D0254
<i>α,non</i>		CS	2SWDUPP	7.0+07	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186
⁶ He, <i>el</i>	¹² C	DA	2FR GAN	2.5+08		Jour	PL/B,378,45	96	J.S.Al-Khalili+	D0244
⁷ Li, <i>el</i>	¹² C	DA	2FR GAN	4.7+08		Jour	PL/B,401,9	97	M.D.Cortina-Gil+	D0246
¹⁰ Be, <i>el</i>	¹² C	DA	2FR GAN	5.9+08		Jour	PL/B,401,9	97	M.D.Cortina-Gil+	D0246
¹¹ Be, <i>el</i>	¹² C	DA	2FR GAN	5.4+08		Jour	PL/B,401,9	97	M.D.Cortina-Gil+	D0246

6 Carbon 13

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$^3\text{He},d$	^{14}N	DAP	3CZRUJF	2.6+07		Jour	PR/C,62,024320	00	P.Bem+	D0252
$^3\text{He},el$	^{13}C	DA	3CZRUJF	3.8+07		Jour	NP/A,697,25	02	G.Thiamova+	D0170
$^3\text{He},inel$	^{13}C	DAP	3CZRUJF	3.8+07		Jour	NP/A,697,25	02	G.Thiamova+	D0170
$^{11}\text{B},el$	^{13}C	DA	3POLWWA	4.5+07		Jour	NP/A,724,29	03	S.Yu.Mezhevych+	D0196
$^{11}\text{B},inel$	^{13}C	DAP	3POLWWA	4.5+07		Jour	NP/A,724,29	03	S.Yu.Mezhevych+	D0196

7 Nitrogen 14

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,γ	^{15}O	CS	3CZRUJF	1.0+06	2.4+08	Jour	PR/C,67,065804	03	A.M.Mukhamedzhanov+	D0253
p,γ	^{15}O	RR	3CZRUJF	0.0+00		Jour	PR/C,67,065804	03	A.M.Mukhamedzhanov+	D0253
$p,n+p$	^{13}N	?	2GERJUL	1.9+07	2.6+07	Jour	JLCR/S,46,267	03	Z.Kovacs+	D4145
$^3\text{He},d$	^{15}O	DAP	3CZRUJF	2.6+07		Jour	PR/C,67,065804	03	A.M.Mukhamedzhanov+	D0253
$^3\text{He},el$	^{14}N	DA	3CZRUJF	2.6+07		Jour	PR/C,67,065804	03	A.M.Mukhamedzhanov+	D0253
α,el	^{14}N	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216

8 Oxygen 16

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{16}O	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α,non		CS	2SWDUPP	7.0+07	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

10 Neon 20

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{20}Ne	DA	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215
$\alpha,inel$	^{20}Ne	DAP	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215

10 Neon 22

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{22}Ne	DA	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215
$\alpha,inel$	^{22}Ne	DAP	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215

11 Sodium 23

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

n,γ	^{24}Na	SPC	1USAORL	Maxwl	Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
n,γ	^{24}Na	SPC	1USALAS	Maxwl	Jour	PR/C,69,014312	04	I.Tomandl+	13900

12 Magnesium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^{nat}Mg	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
d,el	^{nat}Mg	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
d,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

12 Magnesium 24

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
p,el	^{24}Mg	POD	2SWDUPP	1.8+08		Jour	NP/A,119,290	68	B.Hoistad+	D0191
p,inel	^{24}Mg	POD	2SWDUPP	1.8+08		Jour	NP/A,119,290	68	B.Hoistad+	D0191
d,el	^{24}Mg	DA	2GERJUL	6.0+07	9.0+07	Jour	NP/A,262,1	76	A.Kiss+	D0233
d,inel	^{24}Mg	DAP	2GERJUL	6.0+07	9.0+07	Jour	NP/A,262,1	76	A.Kiss+	D0233
α,el	^{24}Mg	DA	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215
α,el	^{24}Mg	DA	2GERJUL	1.4+08	1.7+08	Jour	APP/B,12,491	81	S.Wiktor+	D0213
α,inel	^{24}Mg	DAP	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215

12 Magnesium 26

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{26}Mg	DA	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215
α,inel	^{26}Mg	DAP	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215

13 Aluminium 27

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{28}Al	SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
p,inel	^{27}Al	POD	2SWDUPP	1.8+08		Jour	PS,13,184	76	A.Ingemarsson+	D0188
d,el	^{27}Al	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
d,el	^{27}Al	DA	2UK HAR	6.3+07		Jour	NP/A,101,65	67	E.G.Auld+	D0224
d,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
α,el	^{27}Al	DA	2GERJUL	1.2+08	1.7+08	Jour	APP/B,12,491	81	S.Wiktor+	D0213

14 Silicon

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869

14 Silicon 28

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,d</i>	²⁷ Si	POD	2SWDUPP	1.8+08		Jour	AF,39,429	68	A.Ingemarsson+	D0181
<i>d,el</i>	²⁸ Si	DA	2FR GRE	3.0+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
<i>d,el</i>	²⁸ Si	POD	2FR GRE	3.0+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
<i>α,el</i>	²⁸ Si	DA	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215
<i>α,el</i>	²⁸ Si	DA	2FR CSN	1.7+08		Jour	PL/B,30,324	69	I.Brissaud+	D0217
<i>α,inel</i>	²⁸ Si	DAP	2GERKFK	1.0+08		Jour	NP/A,182,145	72	H.Rebel+	D0215
<i>α,non</i>		CS	2SWDUPP	7.0+07	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

14 Silicon 30

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,p</i>	³¹ Si	DAP	3CZRUJF	1.2+07		Jour	NP/A,662,112	00	S.Piskor+	D0159

17 Chlorine

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869

17 Chlorine 35

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USABNL	4.0+02		Jour	PRL,39,911	Oct 77	R.E.Chrien+	13915
<i>n,γ</i>	³⁶ Cl	DAP	1USABNL	4.0+02		Jour	PR/C,19,539	Feb 79	C.M.Mccullagh+	13916
<i>n,γ</i>	³⁶ Cl	SPC	1USABNL	2.5-02		Jour	PRL,39,911	Oct 77	R.E.Chrien+	13915

18 Argon 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,el</i>	⁴⁰ Ar	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216

20 Calcium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869

20 Calcium 40

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p</i> ,inel	⁴⁰ Ca	POD	2SWDUPP	1.8+08		Jour	PS,2,191	70	A.Ingemarsson+	D0210
α ,el	⁴⁰ Ca	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,el	⁴⁰ Ca	DA	2SWTBAS	2.3+07	8.0+07	Jour	NP/A,351,29	81	H.P.Gubler+	D0257
α ,non		CS	2SWDUPP	7.0+07	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

22 Titanium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> , γ		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
<i>p</i> ,x	⁴⁶ Sc	TT	2ITYMIL	2.9+07	4.4+07	Jour	RRL,31,39	77	E.Sabbioni+	D0163
<i>p</i> ,x	⁴⁷ Sc	TT	2ITYMIL	2.0+07	4.4+07	Jour	RRL,31,39	77	E.Sabbioni+	D0163
<i>p</i> ,x	⁴⁸ V	TT	2ITYMIL	6.5+06	4.4+07	Jour	RRL,31,39	77	E.Sabbioni+	D0163
<i>d</i> ,el	^{nat} Ti	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d</i> ,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

22 Titanium 46

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	⁴⁶ Ti	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d</i> ,el	⁴⁶ Ti	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

22 Titanium 48

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	⁴⁸ Ti	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d</i> ,el	⁴⁸ Ti	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

22 Titanium 50

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	⁵⁰ Ti	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d</i> ,el	⁵⁰ Ti	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
α ,el	⁵⁰ Ti	DA	2SWTBAS	2.5+07	4.7+07	Jour	NP/A,351,29	81	H.P.Gubler+	D0257

23 Vanadium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

24 Chromium 52

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USABNL	1.6+03		Jour	NP/A,334,35	Sep 80	J.Kopecky+	13918
<i>d,el</i>	⁵² Cr	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁵² Cr	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>α,el</i>	⁵² Cr	DA	2SWTBAS	2.3+07	4.7+07	Jour	NP/A,351,29	81	H.P.Gubler+	D0257

24 Chromium 54

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	⁵⁴ Cr	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁵⁴ Cr	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

26 Iron

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
<i>d,el</i>	^{nat} Fe	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d,el</i>	^{nat} Fe	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
<i>n,γ</i>		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869

26 Iron 54

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	⁵⁴ Fe	DA	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,el</i>	⁵⁴ Fe	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁵⁴ Fe	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,el</i>	⁵⁴ Fe	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,inel</i>	⁵⁴ Fe	DAP	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,inel</i>	⁵⁴ Fe	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,tot</i>		CS	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230

26

Iron

56

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	⁵⁶ Fe	DA	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,el</i>	⁵⁶ Fe	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁵⁶ Fe	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,el</i>	⁵⁶ Fe	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,inel</i>	⁵⁶ Fe	DAP	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,inel</i>	⁵⁶ Fe	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,tot</i>		CS	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230

26

Iron

58

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	⁵⁸ Fe	DA	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,el</i>	⁵⁸ Fe	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,inel</i>	⁵⁸ Fe	DAP	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,inel</i>	⁵⁸ Fe	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d,tot</i>		CS	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230

27

Cobalt

59

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	⁶⁰ Co	SPC	1USABNL	2.0+00	5.0+00	Jour	PRL,17,1220	Dec 66	O.A.Wasson+	13912
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
¹⁶ O, <i>x</i>	¹¹ B	DAE	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182
¹⁶ O, <i>x</i>	¹² C	CS	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182
¹⁶ O, <i>x</i>	¹² C	DAE	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182
¹⁶ O, <i>x</i>	¹⁴ N	DAE	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182

28

Nickel

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
<i>d,el</i>	^{nat} Ni	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d,el</i>	^{nat} Ni	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

28

Nickel

58

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	⁵⁸ Ni	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁵⁸ Ni	DA	2FR GRE	2.9+07		Jour	NP/A,282,221	76	G.Perrin+	D0234

<i>d</i> ,el	⁵⁸ Ni	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d</i> ,el	⁵⁸ Ni	POD	2FR GRE	2.9+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
³ He,tot		CS	4UKRIJI	9.5+07		Jour	YF,61,(9),1569	Sep 98	E.P.Kadkin+	D5001
α ,el	⁵⁸ Ni	CS	2FR SAT	2.9+08	7.0+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α ,el	⁵⁸ Ni	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,el	⁵⁸ Ni	DA	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,el	⁵⁸ Ni	DA	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256
α ,el	⁵⁸ Ni	DA	2FR SAT	2.9+08	7.0+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α ,inel	⁵⁸ Ni	DAP	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,inel	⁵⁸ Ni	DAP	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,inel	⁵⁸ Ni	DAP	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256
α ,inel	⁵⁸ Ni	DAP	2FR SAT	2.9+08	7.0+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α ,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

28

Nickel

60

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	⁶⁰ Ni	DA	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d</i> ,el	⁶⁰ Ni	DA	2SWTETH	8.5+06	1.5+07	Jour	NP/A,321,445	79	H.R.Burgi+	D0235
<i>d</i> ,el	⁶⁰ Ni	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d</i> ,el	⁶⁰ Ni	POD	2SWTETH	8.5+06	1.5+07	Jour	NP/A,321,445	79	H.R.Burgi+	D0235
<i>d</i> ,inel	⁶⁰ Ni	DAP	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d</i> ,inel	⁶⁰ Ni	POD	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
<i>d</i> ,tot		CS	2UK BIR	1.2+07		Jour	NP/A,208,589	73	R.C.Brown+	D0230
α ,el	⁶⁰ Ni	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,el	⁶⁰ Ni	DA	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,el	⁶⁰ Ni	DA	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256
α ,inel	⁶⁰ Ni	DAP	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,inel	⁶⁰ Ni	DAP	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,inel	⁶⁰ Ni	DAP	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256
α ,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

28

Nickel

62

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,el	⁶² Ni	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,el	⁶² Ni	DA	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,el	⁶² Ni	DA	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256
α ,inel	⁶² Ni	DAP	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,inel	⁶² Ni	DAP	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,inel	⁶² Ni	DAP	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256

28

Nickel

64

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> , γ	⁶⁵ Ni	SPC	1USABNL	Maxwl		Jour	PR/C,6,1650	Nov 72	S.Cochavi+	13911
³ He,tot		CS	4UKRIJI	9.5+07		Jour	YF,61,(9),1569	Sep 98	E.P.Kadkin+	D5001

α ,el	^{64}Ni	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,el	^{64}Ni	DA	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,el	^{64}Ni	DA	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256
α ,inel	^{64}Ni	DAP	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α ,inel	^{64}Ni	DAP	2GERKFK	1.0+08		Jour	ZP,256,258	72	H.Rebel+	D0255
α ,inel	^{64}Ni	DAP	2GERJUL	1.7+08		Jour	NP/A,445,477	85	J.Albinski+	D0256

29 Copper

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
d ,el	^{nat}Cu	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
d ,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

30 Zinc

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869
d ,el	^{nat}Zn	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
d ,el	^{nat}Zn	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
d ,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
d ,x	^{58}Co	CS	2BLGLVN	2.2+07	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144
d ,x	^{61}Cu	TT	2BLGLVN	4.0+06	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144
d ,x	^{64}Cu	CS	2BLGLVN	1.6+07	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144
d ,x	^{65}Zn	CS	2BLGLVN	5.7+06	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144
d ,x	^{69}Zn	CS	2BLGLVN	5.7+06	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144
d ,x	^{67}Ga	CS	2BLGLVN	5.7+06	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144
d ,x	^{67}Ga	TT	2BLGLVN	2.0+06	4.8+07	Jour	NIM/B,217,531	04	F.Tarkanyi+	D4144

30 Zinc 64

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d ,el	^{64}Zn	DA	2FR GRE	2.9+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
d ,el	^{64}Zn	POD	2FR GRE	2.9+07		Jour	NP/A,282,221	76	G.Perrin+	D0234

34 Selenium 74

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USABNL	2.7+04	2.7+05	Jour	NP/A,372,125	Dec 81	G.Engler+	12728
n,γ	^{75}Se	SPC	1USABNL	Maxwl		Jour	NP/A,372,125	Dec 81	G.Engler+	12728

34 Selenium 76

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USABNL	3.8+05	8.6+05	Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>n,γ</i>	⁷⁷ Se	SPC	1USABNL	Maxwl		Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>d,el</i>	⁷⁶ Se	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁷⁶ Se	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

34 Selenium 77

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USABNL	1.1+05	8.6+05	Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>n,γ</i>	⁷⁸ Se	SPC	1USABNL	Maxwl		Jour	NP/A,372,125	Dec 81	G.Engler+	12728

34 Selenium 78

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USABNL	3.8+02		Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>n,γ</i>	⁷⁹ Se	SPC	1USABNL	Maxwl		Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>d,el</i>	⁷⁸ Se	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁷⁸ Se	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

34 Selenium 80

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>		SPC	1USABNL	2.0+03		Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>n,γ</i>	⁸¹ Se	SPC	1USABNL	Maxwl		Jour	NP/A,372,125	Dec 81	G.Engler+	12728
<i>d,el</i>	⁸⁰ Se	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁸⁰ Se	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

34 Selenium 82

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	⁸² Se	DA	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236
<i>d,el</i>	⁸² Se	POD	2SWTETH	1.2+07		Jour	NP/A,334,413	80	H.R.Burgi+	D0236

39 Yttrium 89

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,el</i>	⁸⁹ Y	DA	2SWDUPP	1.8+08		Jour	NP/A,305,333	78	A.Ingemarsson+	D0190

<i>p</i> ,el	⁸⁹ Y	POD	2SWDUPP	1.8+08		Jour	NP/A,305,333	78	A.Ingemarsson+	D0190
<i>p</i> ,inel	⁸⁹ Y	DAP	2SWDUPP	1.8+08		Jour	NP/A,305,333	78	A.Ingemarsson+	D0190

40 Zirconium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	^{nat} Zr	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d</i> ,el	^{nat} Zr	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
<i>d</i> ,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
<i>d</i> ,x	⁸⁶ Y	CS	2BLGLVN	8.6+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁸⁷ Y	CS	2BLGLVN	0.0+00		Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁸⁷ Y	TT	2BLGLVN	1.4+07	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁸⁸ Y	TT	2BLGLVN	8.7+06	2.0+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁸⁸ Zr	CS	2BLGLVN	3.7+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁸⁹ Zr	TT	2BLGLVN	8.6+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹⁵ Zr	CS	2BLGLVN	3.7+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹⁵ Zr	TT	2BLGLVN	7.0+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹⁰ Nb	CS	2BLGLVN	3.7+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹¹ Nb	TT	2BLGLVN	7.0+06	2.0+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹² Nb	CS	2BLGLVN	3.7+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹² Nb	TT	2BLGLVN	7.0+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹⁵ Nb	CS	2BLGLVN	3.7+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143
<i>d</i> ,x	⁹⁵ Nb	TT	2BLGLVN	4.0+06	4.8+07	Jour	NIM/B,217,373	04	F.Tarkanyi+	D4143

40 Zirconium 90

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	⁹⁰ Zr	DA	2SWTETH	6.0+06	1.5+07	Jour	NP/A,321,445	79	H.R.Burgi+	D0235
<i>d</i> ,el	⁹⁰ Zr	POD	2SWTETH	7.0+06	1.5+07	Jour	NP/A,321,445	79	H.R.Burgi+	D0235
<i>α</i> ,el	⁹⁰ Zr	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
<i>α</i> ,el	⁹⁰ Zr	DA	2NEDGRN	2.6+07	1.2+08	Jour	NP/A,291,93	77	L.W.Put+	D0249

40 Zirconium 92

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α</i> ,el	⁹² Zr	DA	2NEDGRN	4.0+07	1.2+08	Jour	NP/A,291,93	77	L.W.Put+	D0249

41 Niobium 93

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,2n	⁹³ Mo	CS	3HUNDEB	6.3+06	9.6+06	Jour	NIM/B,161-163,172	00	F.Ditroi+	D4146
<i>d</i> ,el	⁹³ Nb	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
¹⁶ O,x	¹¹ B	DAE	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182
¹⁶ O,x	¹² C	CS	3SAFITH	2.5+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182

$^{16}\text{O},x$	^{12}C	DAE	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182
$^{16}\text{O},x$	^{14}N	DAE	3SAFITH	1.0+08	4.0+08	Jour	NP/A,708,391	02	E.Gadioli+	D0182

44 Ruthenium 99

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,p</i>	^{100}Ru	DAP	3BZLIPE	1.5+07		Jour	NP/A,709,73	02	L.B.H.-Matsushigue+	D0183

45 Rhodium 103

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	^{103}Rh	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

46 Palladium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	^{nat}Pd	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239

47 Silver

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	^{105}Ag	TT	2ITYMIL	2.1+07	4.3+07	Jour	RRL,45,51	80	L.Goetz+	D0166
<i>p,x</i>	^{106}Ag	TT	2ITYMIL	1.5+07	4.3+07	Jour	RRL,45,51	80	L.Goetz+	D0166
<i>p,x</i>	^{104}Cd	TT	2ITYMIL	3.3+07	4.3+07	Jour	RRL,45,51	80	L.Goetz+	D0166
<i>p,x</i>	^{105}Cd	TT	2ITYMIL	2.4+07	4.3+07	Jour	RRL,45,51	80	L.Goetz+	D0166
<i>p,x</i>	^{107}Cd	TT	2ITYMIL	4.2+06	4.3+07	Jour	RRL,45,51	80	L.Goetz+	D0166
<i>p,x</i>	^{109}Cd	TT	2ITYMIL	4.0+06	2.7+07	Jour	RRL,45,51	80	L.Goetz+	D0166
<i>d,el</i>	^{nat}Ag	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d,el</i>	^{nat}Ag	DA	2NEDIKO	2.5+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

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	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239

48

Cadmium

112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,inel	¹¹² Cd	CSP	1USAКТY	2.6+06	4.2+06	Jour	PR/C,64,024316	Jul 01	P.E.Garrett+	13943

49

Indium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	^{nat} In	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239

50

Tin

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	^{nat} Sn	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d</i> ,non		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
α ,el	^{nat} Sn	DA	2FR CSN	1.7+08		Jour	PL/B,30,324	69	I.Brissaud+	D0217

50

Tin

112

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α ,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

50

Tin

116

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n</i> ,0		RP	1USAORL	0.0+00		Jour	PR/C,64,065802	Dec 01	P.E.Koehler+	13909
α ,el	¹¹⁶ Sn	CS	2FR SAT	2.9+08	4.8+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α ,el	¹¹⁶ Sn	DA	2FR SAT	2.9+08	4.8+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α ,inel	¹¹⁶ Sn	DAP	2FR SAT	2.9+08	4.8+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α ,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

50

Tin

118

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d</i> ,el	¹¹⁸ Sn	DA	2FR GRE	2.9+07		Jour	NP/A,282,221	76	G.Perrin+	D0234
<i>d</i> ,el	¹¹⁸ Sn	POD	2FR GRE	2.9+07		Jour	NP/A,282,221	76	G.Perrin+	D0234

50 Tin 120

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,64,065802	Dec 01	P.E.Koehler+	13909
α,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

50 Tin 124

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{124}Sn	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186

52 Tellurium 130

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,p	^{131}Te	DAP	2GERMUU	1.8+07		Jour	NP/A,717,149	03	I.Tomandl+	D0161
d,p	^{131}Te	POD	2GERMUU	1.8+07		Jour	NP/A,717,149	03	I.Tomandl+	D0161

54 Xenon 129

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USABNL	9.5+00		Jour	PR/C,9,2363	Jun 74	W.Gelletly+	13927

54 Xenon 131

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USABNL	1.4+01		Jour	PR/C,3,1678	Apr 71	W.Gelletly+	13928

56 Barium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ		SPC	1USAORL	Maxwl		Rept	ORNL-4382	Aug 69	R.E.Maerker+	13869

58 Cerium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,el	^{nat}Ce	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222

58

Cerium

140

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁴¹ Ce	SPC	1USABNL	2.5-02		Jour	PR/C,1,1052	Mar 70	W.Gelletly+	13929

62

Samarium

144

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁴⁴ Sm	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

62

Samarium

148

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁴⁸ Sm	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

62

Samarium

152

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁵² Sm	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

64

Gadolinium

154

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁵⁴ Gd	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

64

Gadolinium

157

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁵⁸ Gd	SPC	1USABNL	2.0+03	2.4+04	Jour	PR/C,47,312	Jan 93	J.Kopecky+	13930

64

Gadolinium

158

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁵⁸ Gd	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

64 Gadolinium 160

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁶⁰ Gd	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

66 Dysprosium 160

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁶⁰ Dy	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

66 Dysprosium 162

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁶² Dy	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

66 Dysprosium 164

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁶⁴ Dy	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

68 Erbium 166

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,inel</i>	¹⁶⁶ Er	CSP	1USAKTY	1.7+06	2.8+06	Jour	JR,105,141	Jan 00	P.E.Garrett+	13940
<i>d,el</i>	¹⁶⁶ Er	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

68 Erbium 168

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁶⁸ Er	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

68 Erbium 170

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

<i>d,el</i>	¹⁷⁰ Er	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226
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69 Thulium 169

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

<i>n,γ</i>		?	1USABNL	1.4+04	1.2+05	Jour	PR/C,2,2030		Nov 70	M.R.Bhat+	13931
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70 Ytterbium 172

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

<i>d,el</i>	¹⁷² Yb	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226
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71 Lutetium 175

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

<i>n,γ</i>	¹⁷⁶ Lu	SPC	1USALAS	Maxwl		Jour	PR,187,1516		Nov 69	M.M.Minor+	13937
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71 Lutetium 176

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

<i>n,γ</i>	¹⁷⁷ Lu	SPC	1USALAS	Maxwl		Jour	PR/C,3,766		Feb 71	M.M.Minor+	13938
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72 Hafnium 180

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

<i>d,el</i>	¹⁸⁰ Hf	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226
<i>d,p</i>	¹⁸¹ Hf	DAP	2GERMUN	2.4+07		Jour	NP/A,709,3	02	V.Bondarenko+	D0195
<i>d,p</i>	¹⁸¹ Hf	POD	2GERMUN	2.4+07		Jour	NP/A,709,3	02	V.Bondarenko+	D0195

73 Tantalum

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

<i>d,el</i>	^{nat} Ta	DA	2NEDIKO	2.6+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

73

Tantalum

181

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁸¹ Ta	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239

74

Tungsten

186

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁸⁶ W	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226

76

Osmium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>α,x</i>	¹⁸⁸ Pt	TT	2ZZZISP	2.2+07	3.8+07	Jour	JRN,249,289	01	F.Groppi+	D0209
<i>α,x</i>	¹⁸⁹ Pt	TT	2ZZZISP	2.8+07	3.8+07	Jour	JRN,249,289	01	F.Groppi+	D0209
<i>α,x</i>	¹⁹¹ Pt	TT	2ZZZISP	2.0+07	3.8+07	Jour	JRN,249,289	01	F.Groppi+	D0209

76

Osmium

190

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁹¹ Os	SPC	1USABNL	Maxwl	2.0+03	Jour	NP/A,285,235	Jul 77	R.F.Casten+	13923

78

Platinum

195

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,γ</i>	¹⁹⁶ Pt	SPC	1USABNL	2.5-02	2.0+03	Jour	NP/A,323,349	Jul 79	J.A.Cizewski+	13922

79

Gold

197

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>d,el</i>	¹⁹⁷ Au	DA	2GERMPH	1.2+07		Jour	PR,124,832	61	G.Igo+	D0239
<i>d,el</i>	¹⁹⁷ Au	DA	2NEDIKO	2.5+07		Jour	NP,53,625	64	H.R.E.Tjin+	D0222
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223

80

Mercury

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

<i>p,x</i>	¹⁹⁹ Tl	TT	2ITYMIL	1.1+07	3.1+07	Jour	JRC,67,183	81	L.Goetz+	D0198
<i>p,x</i>	²⁰⁰ Tl	TT	2ITYMIL	1.1+07	3.6+07	Jour	JRC,67,183	81	L.Goetz+	D0198
<i>p,x</i>	²⁰¹ Tl	TT	2ITYMIL	1.1+07	3.6+07	Jour	JRC,67,183	81	L.Goetz+	D0198
<i>p,x</i>	²⁰² Tl	TT	2ITYMIL	1.1+07	3.6+07	Jour	JRC,67,183	81	L.Goetz+	D0198

80 Mercury 202

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	¹⁹⁹ Tl	TT	2ITYMIL	1.8+07	2.7+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰⁰ Tl	TT	2ITYMIL	1.3+07	2.7+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰¹ Tl	TT	2ITYMIL	1.3+07	2.7+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114

81 Thallium

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	²⁰² Tl	TT	2ITYMIL	1.3+07	4.2+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰⁰ Pb	TT	2ITYMIL	2.8+07	4.2+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰¹ Pb	TT	2ITYMIL	1.9+07	4.2+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰³ Pb	TT	2ITYMIL	7.4+06	4.2+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114

81 Thallium 203

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	²⁰⁰ Pb	TT	2ITYMIL	2.8+07	3.6+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰¹ Pb	TT	2ITYMIL	2.1+07	3.6+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰² Pb	TT	2ITYMIL	1.4+07	3.6+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114
<i>p,x</i>	²⁰³ Pb	TT	2ITYMIL	1.4+07	3.6+07	Conf	82ANTWER,,916	82	M.Bonardi+	D0114

82 Lead

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>p,x</i>	²⁰⁵ Bi	TT	2ITYMIL	8.8+06	4.4+07	Jour	RRL,49,25	81	C.Birattari+	D0206
<i>p,x</i>	²⁰⁶ Bi	TT	2ITYMIL	1.5+07	4.4+07	Jour	RRL,49,25	81	C.Birattari+	D0206
<i>d,non</i>		CS	3ARGCNE	2.5+07		Jour	NP,62,393	65	S.Mayo+	D0223
<i>α,el</i>	<i>nat</i> Pb	DA	2FR CSN	1.7+08		Jour	PL/B,30,324	69	I.Brissaud+	D0217

82 Lead 204

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
<i>n,0</i>		RP	1USAORL	0.0+00		Jour	PR/C,67,024601	03	R.F.Carlton+	13907
<i>n,tot</i>		CS	1USAORL	2.7+07	3.6+04	Jour	PR/C,67,024601	03	R.F.Carlton+	13907

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Lead

207

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$n,inel$	^{207}Pb	CSP	1USAKTY	3.7+06	4.3+06	Jour	PR/C,61,034307	Feb 00	M.Kadi+	13941

82

Lead

208

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
$p,inel$	^{208}Pb	DAP	2SWDUPP	1.8+08		Jour	PS,13,208	76	A.Ingemarsson+	D0187
d,el	^{208}Pb	DA	2DENNBI	1.2+07		Jour	NP/A,129,337	69	P.R.Christensen+	D0226
α,el	^{208}Pb	CS	2FR SAT	2.9+08	7.0+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α,el	^{208}Pb	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216
α,el	^{208}Pb	DA	2FR SAT	2.9+08	7.0+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
$\alpha,inel$	^{208}Pb	DAP	2FR SAT	2.9+08	7.0+08	Jour	NP/A,445,381	85	B.Bonin+	D0214
α,non		CS	2SWDUPP	1.2+08	1.9+08	Jour	NP/A,676,3	00	A.Ingemarsson+	D0186
$^6\text{He},el$	^{208}Pb	DA	2BLGLVN	2.7+07		Jour	NP/A,728,339	03	O.R.Kakuee+	D0184

83

Bismuth

209

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
α,el	^{209}Bi	DA	2GERKFK	1.0+08		Jour	NP/A,128,81	69	G.Hauser+	D0216

90

Thorium

232

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
d,f	^{95}Nb	FY	4UKRIJD	1.4+07		Jour	YF,61,(9),1562	Sep 98	I.N.Vishnevsky+	D5002
d,f	^{117}In	FY	4UKRIJD	1.4+07		Jour	YF,61,(9),1562	Sep 98	I.N.Vishnevsky+	D5002
d,f	^{131}Te	FY	4UKRIJD	1.4+07		Jour	YF,61,(9),1562	Sep 98	I.N.Vishnevsky+	D5002
d,f	^{132}I	FY	4UKRIJD	1.4+07		Jour	YF,61,(9),1562	Sep 98	I.N.Vishnevsky+	D5002
d,f	^{133}Xe	FY	4UKRIJD	1.4+07		Jour	YF,61,(9),1562	Sep 98	I.N.Vishnevsky+	D5002
d,f	^{148}Pm	FY	4UKRIJD	1.4+07		Jour	YF,61,(9),1562	Sep 98	I.N.Vishnevsky+	D5002

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Uranium

238

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,f		KE	1USALAS	1.6+06	2.0+08	Jour	PL/B,575,221	Nov 03	T.Ethvignot+	13936
n,γ		RP	1USAORL	0.0+00	6.0+02	Jour	PR/C,4,900	Sep 71	O.A.Wasson+	13914
n,γ		RP	1USABNL	6.7+00	1.2+02	Jour	NP/A,121,630	Dec 68	D.L.Price+	13925
p,f	Many	FY	2SF JYV	2.5+07		Jour	PL/B,405,230	97	M.Huhta+	D0149
p,f	Many	CHG	2SF JYV	2.5+07		Jour	PL/B,405,230	97	M.Huhta+	D0149

94

Plutonium

242

Reaction	Product	Quantity	Lab.	Energy (eV)		Type	Documentation Ref Vol Page	Date	Author	Data #
				Min	Max					
n,γ	^{243}Pu	SPC	1USABNL	2.7+00		Jour	PR/C,14,912	Sep 76	R.F.Casten+	13932