

Per Sderlind

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164
papers

5,342
citations

41
h-index

66
g-index

174
ext. papers

5,692
ext. citations

4.2
avg, IF

5.66
L-index

#	Paper	IF	Citations
164	First-principles theory of iron up to earth-core pressures: Structural, vibrational, and elastic properties. <i>Physical Review B</i> , 1996 , 53, 14063-14072	3.3	221
163	Theory of elastic constants of cubic transition metals and alloys. <i>Physical Review B</i> , 1993 , 48, 5844-5851	3.3	214
162	A unified picture of the crystal structures of metals. <i>Nature</i> , 1995 , 374, 524-525	50.4	172
161	Density-functional calculations of alpha, beta, gamma, delta, delta', and epsilon plutonium. <i>Physical Review Letters</i> , 2004 , 92, 185702	7.4	157
160	Theory of the crystal structures of cerium and the light actinides. <i>Advances in Physics</i> , 1998 , 47, 959-998	18.4	148
159	Ambient pressure phase diagram of plutonium: A unified theory for β Pu and β' Pu. <i>Europhysics Letters</i> , 2001 , 55, 525-531	1.6	130
158	Electronic properties of f-electron metals using the generalized gradient approximation. <i>Physical Review B</i> , 1994 , 50, 7291-7294	3.3	125
157	Spin and orbital magnetism in Fe-Co and Co-Ni alloys. <i>Physical Review B</i> , 1992 , 45, 12911-12916	3.3	125
156	Quantum-based atomistic simulation of materials properties in transition metals. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2825-2857	1.8	123
155	Density-functional investigation of magnetism in β Pu. <i>Physical Review B</i> , 2002 , 66,	3.3	118
154	New beta(fcc)-cobalt to 210 GPa. <i>Physical Review Letters</i> , 2000 , 84, 4132-5	7.4	112
153	Theoretical aspects of the FeNi1-c Invar alloy. <i>Physical Review B</i> , 1995 , 51, 1058-1063	3.3	112
152	First-principles elastic and structural properties of uranium metal. <i>Physical Review B</i> , 2002 , 66,	3.3	108
151	Crystal structure and elastic-constant anomalies in the magnetic 3d transition metals. <i>Physical Review B</i> , 1994 , 50, 5918-5927	3.3	103
150	High-pressure melting curves of argon, krypton, and xenon: deviation from corresponding states theory. <i>Physical Review Letters</i> , 2001 , 86, 5731-4	7.4	102
149	Accurate atomistic simulation of $(a/2) \langle 111 \rangle$ screw dislocations and other defects in bcc tantalum. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001 , 81, 1355-1385		100
148	Trends of the elastic constants of cubic transition metals. <i>Physical Review Letters</i> , 1992 , 68, 2802-2805	7.4	93

147	Relativistic effects on the thermal expansion of the actinide elements. <i>Physical Review B</i> , 1990 , 42, 4544-4552	3.3	91
146	Structural properties of plutonium from first-principles theory. <i>Physical Review B</i> , 1997 , 55, 1997-2004	3.3	90
145	Phase diagram of uranium at high pressures and temperatures. <i>Physical Review B</i> , 1998 , 57, 10359-10363	3.3	85
144	First-principles formation energies of monovacancies in bcc transition metals. <i>Physical Review B</i> , 2000 , 61, 2579-2586	3.3	85
143	First-principles theory of Ta up to 10 Mbar pressure: Structural and mechanical properties. <i>Physical Review B</i> , 1998 , 57, 10340-10350	3.3	85
142	Spin-orbit coupling in the actinide elements: A critical evaluation of theoretical equilibrium volumes. <i>Physical Review B</i> , 2000 , 63,	3.3	77
141	Magnetically induced crystal structure and phase stability in Fe _{1-c} Co _c . <i>Physical Review B</i> , 1996 , 54, 3380-3384	3.3	63
140	Shear-induced anisotropic plastic flow from body-centred-cubic tantalum before melting. <i>Nature Materials</i> , 2009 , 8, 223-8	27	62
139	Fermi surface nesting and pre-martensitic softening in V and Nb at high pressures. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 5079-5085	1.8	62
138	Computational modeling of actinide materials and complexes. <i>MRS Bulletin</i> , 2010 , 35, 883-888	3.2	58
137	Emergence of strong exchange interaction in the actinide series: the driving force for magnetic stabilization of curium. <i>Physical Review Letters</i> , 2007 , 98, 236402	7.4	56
136	High-temperature phonon stabilization of Uranium from relativistic first-principles theory. <i>Physical Review B</i> , 2012 , 85,	3.3	51
135	Density-functional study of UMo and URr alloys. <i>Journal of Nuclear Materials</i> , 2011 , 414, 132-137	3.3	50
134	Quantifying the importance of orbital over spin correlations in Pu within density-functional theory. <i>Physical Review B</i> , 2008 , 77,	3.3	48
133	Bulk and surface magnetism and interplanar spacings in Gd from first-principles calculations. <i>Physical Review B</i> , 1995 , 52, 4420-4426	3.3	47
132	Density-functional study of the URr system. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 103-110	5.7	46
131	The phase diagram of cobalt at high pressure and temperature: the stability of ϵ -cobalt and new δ -cobalt. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L311-L318	1.8	46
130	Crystal stability and equation of state for Am: Theory. <i>Physical Review B</i> , 2005 , 72,	3.3	46

129	First-principles thermoelasticity of transition metals at high pressure: Tantalum prototype in the quasiharmonic limit. <i>Physical Review B</i> , 2006 , 74,	3-3	45
128	Delocalization and new phase in americium: Density-functional electronic structure calculations. <i>Physical Review B</i> , 2000 , 61, 8119-8124	3-3	44
127	Temperature-driven phase transitions from first principles including all relevant excitations: The fcc-to-bcc transition in Ca. <i>Physical Review B</i> , 2011 , 84,	3-3	43
126	Elastic properties of Pu metal and Pu-Ga alloys. <i>Physical Review B</i> , 2010 , 81,	3-3	42
125	Robust quantum-based interatomic potentials for multiscale modeling in transition metals. <i>Journal of Materials Research</i> , 2006 , 21, 563-573	2-5	42
124	Theoretical confirmation of a high-pressure rhombohedral phase in vanadium metal. <i>Physical Review B</i> , 2007 , 75,	3-3	42
123	Phonon and magnetic structure in ϵ plutonium from density-functional theory. <i>Scientific Reports</i> , 2015 , 5, 15958	4-9	39
122	Ab initio calculations of elastic constants of the bcc $\sqrt{3}\times\sqrt{3}$ system at high pressures. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2056-2064	3-9	39
121	Xenon melting curve to 80 GPa and 5p-d hybridization. <i>Physical Review Letters</i> , 2005 , 95, 257801	7-4	37
120	dhcp as a possible new ?? phase of iron at high pressures and temperatures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 214, 65-70	2-3	37
119	Elastic constants of cubic f-electron elements: Theory. <i>Physical Review B</i> , 1993 , 48, 9306-9312	3-3	37
118	Symmetry and stability of plutonium: the influence of electronic structure. <i>Physical Review Letters</i> , 2006 , 96, 206402	7-4	36
117	Geometry and electronic structure of ϵ Pu: A theoretical study. <i>Physical Review B</i> , 2003 , 68,	3-3	36
116	Theoretical predictions of structural phase transitions in Cr, Mo, and W. <i>Physical Review B</i> , 1994 , 49, 9365-9371	3-3	36
115	On the electronic configuration in Pu: spectroscopy and theory. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 125204	1-8	35
114	Changes in the electronic structure of cerium due to variations in close packing. <i>Physical Review B</i> , 2004 , 69,	3-3	32
113	fcc-->bct phase transition in Th at extreme compressions: Theory. <i>Physical Review B</i> , 1992 , 45, 12588-12594	3-3	32
112	First-principles elastic constants and phonons of ϵ Pu. <i>Physical Review B</i> , 2004 , 70,	3-3	30

111	Electron correlation and relativity of the 5f electrons in the U ₂ Zr alloy system. <i>Journal of Nuclear Materials</i> , 2014 , 444, 356-358	3.3	29
110	First-principles phase stability, bonding, and electronic structure of actinide metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 194, 2-7	1.7	29
109	Stability in bcc transition metals: Madelung and band-energy effects due to alloying. <i>Physical Review Letters</i> , 2009 , 103, 235501	7.4	29
108	Delocalization and phase transitions in Pr: Theory. <i>Physical Review B</i> , 2002 , 65,	3.3	29
107	Prediction of the new efficient permanent magnet SmCoNiFe ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	28
106	Comment on \mathbb{I} correlation and relativistic effects in U metal and U-Zr alloy: Validation of ab initio approaches \square <i>Physical Review B</i> , 2014 , 90,	3.3	28
105	Theoretical investigation of the high-pressure crystal structures of Ce and Th. <i>Physical Review B</i> , 1995 , 52, 13169-13176	3.3	28
104	Theoretical zero-temperature phase diagram for neptunium metal. <i>Physical Review B</i> , 1995 , 52, 1631-1639,	3.3	28
103	Density-functional theory for plutonium. <i>Advances in Physics</i> , 2019 , 68, 1-47	18.4	27
102	First-principles elastic properties of \mathbb{P} U. <i>Physical Review B</i> , 2009 , 79,	3.3	27
101	Atomistic simulation of pressure-dependent screw dislocation properties in bcc tantalum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 309-310, 102-107	5.3	27
100	The U \mathbb{I} i system: Strengths and weaknesses of the CALPHAD method. <i>Journal of Nuclear Materials</i> , 2011 , 419, 177-185	3.3	26
99	Ground-state properties of rare-earth metals: an evaluation of density-functional theory. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 416001	1.8	25
98	Structural stability in uranium. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, L549-L555	1.8	25
97	Influence of pseudocore valence-band hybridization on the crystal-structure phase stabilities of transition metals under extreme compressions. <i>Physical Review B</i> , 1994 , 50, 14690-14693	3.3	24
96	Pressure-induced phase transitions in Pa metal from first-principles theory. <i>Physical Review B</i> , 1997 , 56, 10719-10721	3.3	23
95	Monte Carlo simulations of the stability of \mathbb{P} U. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L371-L376.	6.8	23
94	Origin of the multiple configurations that drive the response of \mathbb{P} l plutonium's elastic moduli to temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11158-11161	11.5	23

93	Assessing a solids-biased density-gradient functional for actinide metals. <i>Physical Review B</i> , 2010 , 82,	3.3	22
92	Electron-energy-loss spectroscopy and X-ray absorption spectroscopy as complementary probes for complex f-electron metals: cerium and plutonium. <i>Philosophical Magazine</i> , 2004 , 84, 1039-1056	1.6	22
91	Density-functional calculations for cerium metal. <i>Physical Review B</i> , 1995 , 51, 4618-4621	3.3	22
90	Shear softening in tantalum at megabar pressures. <i>Physical Review B</i> , 2010 , 82,	3.3	21
89	Simple model for complex structures. <i>Physical Review B</i> , 1998 , 57, 1320-1323	3.3	21
88	Atomistic Simulations for Multiscale Modeling in bcc Metals. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1999 , 121, 120-125	1.8	21
87	Thermodynamics of SmCo ₅ compound doped with Fe and Ni: An ab initio study. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 659-663	5.7	21
86	Stability of ϵ Pu alloys from first-principles theory. <i>Journal of Alloys and Compounds</i> , 2003 , 354, 99-103	5.7	20
85	Density changes in Ga-stabilized ϵ Pu, and what they mean. <i>Journal of Alloys and Compounds</i> , 2007 , 444-445, 72-79	5.7	18
84	Density-functional study of Zr-based actinide alloys: 2. U ϵ PuZr system. <i>Journal of Nuclear Materials</i> , 2009 , 393, 141-145	3.3	17
83	Pressure-induced changes in the electronic structure of americium metal. <i>Physical Review B</i> , 2011 , 84,	3.3	17
82	Kohn Anomaly and Phase Stability in Group VB Transition Metals. <i>Computation</i> , 2018 , 6, 29	2.2	16
81	Thermodynamic re-assessment of the Pu ϵ system and its application to the ternary Pu ϵ Ga system. <i>Journal of Nuclear Materials</i> , 2014 , 454, 81-95	3.3	16
80	An alternative model for electron correlation in Pu. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 4222028		16
79	First principles studies of crystal structures of f elements. <i>Physica B: Condensed Matter</i> , 1993 , 190, 5-11	2.8	16
78	Density-functional study of Zr-based actinide alloys. <i>Journal of Nuclear Materials</i> , 2009 , 385, 68-71	3.3	15
77	Calculated thermal expansion of d and f transition metals. <i>Thermochimica Acta</i> , 1993 , 218, 145-153	2.9	15
76	Zero-Kelvin Compression Isotherms of the Elements 1 ϵ ϵ 2 to 100 GPa. <i>Journal of Physical and Chemical Reference Data</i> , 2016 , 45, 043101	4.3	14

75	Development of a CALPHAD Thermodynamic Database for Pu-U-Fe-Ga Alloys. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5040	2.6	14
74	The PuUAm system: An ab initio informed CALPHAD thermodynamic study. <i>Journal of Nuclear Materials</i> , 2015 , 458, 425-441	3.3	13
73	When magnetism can stabilize the crystal structure of metals. <i>Scripta Materialia</i> , 2008 , 59, 1259-1262	5.6	13
72	Assessing Relativistic Effects and Electron Correlation in the Actinide Metals Th to Pu. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5020	2.6	13
71	Ab initio phase stability at high temperatures and pressures in the V-Cr system. <i>Physical Review B</i> , 2014 , 89,	3.3	12
70	Thermodynamic modeling of chromium: strong and weak magnetic coupling. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 425401	1.8	12
69	Cancellation of spin and orbital magnetic moments in ϵ Pu: Theory. <i>Journal of Alloys and Compounds</i> , 2007 , 444-445, 93-97	5.7	12
68	Local-moment collapse in compressed samarium metal. <i>Physical Review B</i> , 1993 , 48, 9212-9215	3.3	12
67	Crystallographic phase transitions in actinide metals as a function of pressure. <i>Journal of Alloys and Compounds</i> , 1994 , 213-214, 268-277	5.7	12
66	First-principles phase stability in the Ti-V alloy system. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 856-859	5.9	11
65	Density-functional study of bcc UMo, NpMo, PuMo, and AmMo alloys. <i>Journal of Nuclear Materials</i> , 2013 , 434, 31-37	3.3	11
64	Volume changes in ϵ plutonium from helium and other decay products. <i>Journal of Nuclear Materials</i> , 2006 , 355, 21-29	3.3	11
63	Simple model for localization in ϵ Pu. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2003 , 11, 851-858	2	11
62	First-principles calculations of stability of ϵ PuAm alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 376, 62-67	5.7	11
61	Anharmonicity-induced first-order isostructural phase transition of zirconium under pressure. <i>Physical Review B</i> , 2018 , 98,	3.3	11
60	Assessing Density-Functional Theory for Equation-Of-State. <i>Computation</i> , 2018 , 6, 13	2.2	11
59	Elastic moduli of ϵ Pu239 reveal aging in real time. <i>Journal of Applied Physics</i> , 2017 , 121, 125107	2.5	10
58	Theoretical confirmation of Ga-stabilized anti-ferromagnetism in plutonium metal. <i>Journal of Nuclear Materials</i> , 2014 , 448, 310-314	3.3	10

57	Thermodynamic assessment of the Am-Bu system with input from ab initio. <i>Journal of Nuclear Materials</i> , 2011 , 418, 165-173	3.3	10
56	First-principles phase diagram of the Ce-Th system. <i>Physical Review B</i> , 2004 , 70,	3.3	10
55	Comment on "Theoretical prediction of phase transition in gold" <i>Physical Review B</i> , 2002 , 66,	3.3	10
54	Ground-State and Thermodynamical Properties of Uranium Mononitride from Anharmonic First-Principles Theory. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3914	2.6	9
53	Magnetism and structural distortions in uranium sulfide under pressure. <i>Physical Review B</i> , 2013 , 87,	3.3	9
52	Density-functional study of bcc Pu δ , Pu δ p, Pu δ m, and Pu δ m alloys. <i>Journal of Nuclear Materials</i> , 2011 , 408, 61-66	3.3	9
51	Density-functional electronic structure of PuCoGa ₅ . <i>Physical Review B</i> , 2004 , 70,	3.3	9
50	A theoretical study of the crystallographic structures in neptunium. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 6573-6580	1.8	9
49	Lattice dynamics and elasticity for δ -plutonium. <i>Scientific Reports</i> , 2017 , 7, 1116	4.9	8
48	Thermodynamic study of the Np-Zr system. <i>Journal of Nuclear Materials</i> , 2011 , 409, 1-8	3.3	8
47	Accurate atomistic simulation of $(a/2) \langle 111 \rangle$ screw dislocations and other defects in bcc tantalum		8
46	On the valence fluctuation in the early actinide metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016 , 207, 14-18	1.7	7
45	From Electronic Structure to Thermodynamics of Actinide-Based Alloys. <i>Jom</i> , 2014 , 66, 375-388	2.1	7
44	Rubidium at high pressure and temperature. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 921-931	1.8	7
43	Theoretical study of the pressure-concentration diagram for the Ce-Th alloy system. <i>Physical Review B</i> , 1999 , 60, 9372-9376	3.3	7
42	Alloying-driven phase stability in group-VB transition metals under compression. <i>Physical Review B</i> , 2010 , 82,	3.3	6
41	Incorporating anisotropic electronic structure in crystallographic determination of complex metals: iron and plutonium. <i>Philosophical Magazine</i> , 2007 , 87, 2571-2588	1.6	6
40	Fermi surface of noble metals: Full-potential generalized-gradient-approximation calculations. <i>Physical Review B</i> , 1994 , 50, 11183-11186	3.3	6

39	Electronic structure of platinum at ultrahigh pressure. <i>High Pressure Research</i> , 1994 , 12, 161-170	1.6	6
38	Spin and orbital magnetism in Fe ₂ Co and Co ₂ Ni alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 2037-2039	2.8	6
37	Phonon dispersion of Mo-stabilized -U measured using inelastic x-ray scattering. <i>Physical Review B</i> , 2019 , 100,	3.3	5
36	First-principles phase stability at high temperatures and pressure in Nb ₉₀ Zr ₁₀ alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 647-651	5.7	5
35	Comment on "new pseudophase structure for alpha-Pu". <i>Physical Review Letters</i> , 2004 , 93, 199601; author reply 199602	7.4	5
34	Reply to Janoschek et al.: The excited ϵ phase of plutonium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E269	11.5	4
33	Phase Stability in U-6Nb Alloy Doped with Ti from the First Principles Theory. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3417	2.6	4
32	Formation of high purity uranium via laser induced thermal decomposition of uranium nitride. <i>Materials and Design</i> , 2020 , 192, 108706	8.1	4
31	Fermi surface of alkali metals using the full-potential linear muffin-tin orbital method and the generalized gradient approximation. <i>Physical Review B</i> , 1994 , 50, 18003-18006	3.3	4
30	Electronically driven volume collapses of bantam-heavy actinide elements at high pressure. <i>Physica B: Condensed Matter</i> , 1993 , 190, 12-20	2.8	4
29	Phonon density of states for ϵ plutonium from density-functional theory. <i>Scientific Reports</i> , 2019 , 9, 18682.9	4.9	4
28	Atomic-volume variations of ϵ Pu alloyed with Al, Ga, and Am from first-principles theory. <i>Journal of Computer-Aided Materials Design</i> , 2007 , 14, 349-355		3
27	Calculated thermal expansion of the actinide elements. <i>International Journal of Thermophysics</i> , 1991 , 12, 611-615	2.1	3
26	Thermodynamics of Plutonium Monocarbide from Anharmonic and Relativistic Theory. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6524	2.6	3
25	The ultrahigh pressure stability of silver: An experimental and theoretical study. <i>Journal of Applied Physics</i> , 2021 , 129, 125901	2.5	3
24	Thermodynamics of Uranium Tri-Iodide from Density-Functional Theory. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3914	2.6	2
23	Density-functional calculations of ϵ Pu _{1-x} Ga _x (Al) alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 444-445, 296-299	5.7	2
22	Relativistic effects on the equation of state of the light actinides. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		2

21	Thermodynamics and Magnetism of YCo ₅ Compound Doped with Fe and Ni: An Ab Initio Study. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6037	2.6	2
20	Mechanical and Thermal Properties for Uranium and U ₃ Nb Alloy from First-Principles Theory. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5643	2.6	2
19	Pressure-dependent intermediate valence behavior in YbNiGa ₄ and YbNiIn ₄ . <i>Physical Review B</i> , 2018 , 98,	3.3	2
18	Thermodynamics and Magnetism of SmFe ₁₂ Compound Doped with Co and Ni: An Ab Initio Study. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4860	2.6	2
17	High Pressure and Temperature Elasticity and EOS for Actinide Metals from First-Principles Simulations. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1683, 44		1
16	Ab Initio Study of Advanced Metallic Nuclear Fuels for Fast Breeder Reactors. CORRIGENDUM. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1444, 1-1		1
15	Quantifying the Importance of Orbital Over Spin Correlations in ϵ Pu Within Density-Functional Theory. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1104, 1		1
14	Phase stability in heavy f-electron metals from first-principles theory. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		1
13	ELASTIC CONSTANTS OF d TRANSITION ELEMENTS AND d TRANSITION ALLOYS. <i>International Journal of Modern Physics B</i> , 1993 , 07, 203-206	1.1	1
12	Thermodynamics Modeling for Actinide Monocarbides and Mononitrides from First Principles. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 728	2.6	1
11	High pressure stability of ϵ Zr: no evidence for isostructural phase transitions. <i>High Pressure Research</i> , 2021 , 41, 247-266	1.6	1
10	Theoretical confirmation of Ga-stabilized anti-ferromagnetism in plutonium metal. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1683, 21		
9	Ab Initio Study of Advanced Metallic Nuclear Fuels for Fast Breeder Reactors. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1444, 67		
8	Alloying-Driven Phase Stability in Group-VB Transition Metals under Compression. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1369, 1		
7	First-principles electronic and elastic properties of plutonium metal. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 9, 012083	0.4	
6	On the electronic configuration in Pu. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 986, 1		
5	Electronic structure calculations of ϵ Pu based alloys. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 802, 209		
4	Symmetry reduction of ϵ plutonium: an electronic-structure effect. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 893, 1		

- 3 Magnetic effects on structural, elastic and surface properties of the 3d ferromagnets. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 29-33 2.8
- 2 Crystal Structure and Phase Stability in Fe_{1-x}Cox from AB Initio Theory **1997**, 13-17
- 1 Alloying-Driven Phase Stability in Group-VB Transition Metals under Compression. *Solid State Phenomena*, **2016**, 258, 125-130 0.4