

R C Albers

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

10,540
citations

27
h-index

47
g-index

47
ext. papers

11,041
ext. citations

5.1
avg, IF

5.86
L-index

#	Paper	IF	Citations
47	Electronic correlation induced expansion of Fermi pockets in δ -plutonium. <i>Physical Review B</i> , 2020 , 101,	3.3	3
46	First-principles study of the Kondo physics of a single Pu impurity in a Th host. <i>Physical Review B</i> , 2015 , 91,	3.3	5
45	GW quasiparticle calculations with spin-orbit coupling for the light actinides. <i>Physical Review B</i> , 2014 , 89,	3.3	12
44	Site-selective electronic correlation in δ -plutonium metal. <i>Nature Communications</i> , 2013 , 4, 2644	17.4	44
43	Elastic properties of the light actinides at high pressure. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 215402	1.8	12
42	Hubbard-U band-structure methods. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 343201	1.8	31
41	Many-body electronic structure of metallic δ -uranium. <i>Physical Review B</i> , 2008 , 78,	3.3	34
40	Theoretical Studies of Spectral Properties of Plutonium. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1104, 1		
39	Spectral properties of δ -plutonium: Sensitivity to 5f occupancy. <i>Physical Review B</i> , 2007 , 76,	3.3	51
38	Valence-band UPS, 6p core-level XPS, and LEED of a uranium (001) single crystal. <i>Physical Review B</i> , 2006 , 73,	3.3	19
37	Extended X-ray absorption fine structure measurements of laser-shocked V and Ti and crystal phase transformation in Ti. <i>Physical Review Letters</i> , 2004 , 92, 095504	7.4	23
36	New pseudophase structure for α -Pu. <i>Physical Review Letters</i> , 2004 , 92, 095503	7.4	27
35	Thermal stabilization of the hcp phase in titanium. <i>Physical Review B</i> , 2004 , 69,	3.3	26
34	Extended x-ray absorption fine structure measurements of laser shocks in Ti and V and phase transformation in Ti. <i>Physics of Plasmas</i> , 2004 , 11, 2688-2695	2.1	12
33	New mechanism for the α to ω martensitic transformation in pure titanium. <i>Physical Review Letters</i> , 2003 , 91, 025701	7.4	135
32	Block-diagonalization and f-electron effects in tight-binding theory. <i>Physical Review B</i> , 2002 , 66,	3.3	8
31	Shock-induced β -transition in titanium. <i>Journal of Applied Physics</i> , 2001 , 90, 2221-2226	2.5	104

30	Theoretical approaches to x-ray absorption fine structure. <i>Reviews of Modern Physics</i> , 2000 , 72, 621-654	40.5	2381
29	Theoretical atomic volumes of the light actinides. <i>Physical Review B</i> , 2000 , 61, 4644-4650	3.3	101
28	Total-energy study of electronic structure and mechanical behavior of C15 Laves phase compounds: NbCr ₂ and HfV ₂ . <i>Physical Review B</i> , 1996 , 54, 12753-12762	3.3	72
27	Elastic Constants of A Laves Phase Compound: C15 NbCr ₂ . <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 623		3
26	Stacking fault energy of the NbCr ₂ laves phase. <i>Philosophical Magazine Letters</i> , 1995 , 72, 147-153	1	26
25	Multiple-scattering calculations of x-ray-absorption spectra. <i>Physical Review B</i> , 1995 , 52, 2995-3009	3.3	2300
24	First-principles calculations of the specific-heat mass enhancements in UIr ₃ , UPt ₃ , and UAu ₃ . <i>Physical Review Letters</i> , 1994 , 72, 2923-2926	7.4	43
23	Ab initio XAFS and XANES Standards. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 307, 3		4
22	Spin and orbital contributions to surface magnetism in 3d elements. <i>Physical Review B</i> , 1992 , 45, 2868-2875	3.3	71
21	High-order multiple-scattering calculations of x-ray-absorption fine structure. <i>Physical Review Letters</i> , 1992 , 69, 3397-3400	7.4	964
20	Quasiparticle properties of Fe, Co, and Ni. <i>Physical Review B</i> , 1992 , 45, 13272-13284	3.3	86
19	Spin and orbital magnetism in Fe-Co and Co-Ni alloys. <i>Physical Review B</i> , 1992 , 45, 12911-12916	3.3	125
18	Perturbation theory of the electronic properties in strongly correlated solids. <i>Physical Review B</i> , 1991 , 43, 1637-1650	3.3	43
17	Influence of the local-spin-density correlation functional on the stability of bcc ferromagnetic iron. <i>Physical Review B</i> , 1991 , 44, 7701-7703	3.3	22
16	Magnetism and bonding in light actinide and rare earth systems (invited). <i>Journal of Applied Physics</i> , 1991 , 69, 5897-5902	2.5	20
15	Prediction of ferromagnetism and metamagnetism in 4d transition-metal overlayers on the (001) surface of Ag (4d=Tc, Ru, Rh, and Pd). <i>Physical Review Letters</i> , 1991 , 66, 1350-1353	7.4	126
14	Ab initio curved-wave x-ray-absorption fine structure. <i>Physical Review B</i> , 1991 , 44, 4146-4156	3.3	703
13	Calculated magnetic properties of the antiferromagnetic UNiSn compound. <i>Physical Review B</i> , 1991 , 43, 5649-5652	3.3	9

12	Theoretical x-ray absorption fine structure standards. <i>Journal of the American Chemical Society</i> , 1991 , 113, 5135-5140	16.4	1520
11	Calculated elastic constants and structural properties of Mo and MoSi ₂ . <i>Physical Review B</i> , 1991 , 43, 6506-6509	3.3	140
10	Scattering-matrix formulation of curved-wave multiple-scattering theory: Application to x-ray-absorption fine structure. <i>Physical Review B</i> , 1990 , 41, 8139-8149	3.3	539
9	Local-spin-density calculations for iron: Effect of spin interpolation on ground-state properties. <i>Physical Review B</i> , 1990 , 42, 3205-3208	3.3	20
8	Calculation of X-ray absorption structure above K-edge of laser shock-compressed aluminum. <i>Laser and Particle Beams</i> , 1990 , 8, 319-325	0.9	2
7	Investigation of the effects of boron on Ni ₃ Al grain boundaries by atomistic simulations. <i>Journal of Materials Research</i> , 1990 , 5, 955-970	2.5	138
6	Orbital magnetism in Fe, Co, and Ni. <i>Physical Review B</i> , 1990 , 42, 2707-2710	3.3	226
5	Prediction of a large polar Kerr angle in Ni ₃ Sn. <i>Applied Physics Letters</i> , 1988 , 52, 1636-1638	3.4	13
4	New high-energy approximation for x-ray-absorption near-edge structure. <i>Physical Review B</i> , 1986 , 34, 4350-4353	3.3	129
3	Relativistic spin-polarized electronic structure of Ce and Pu. <i>Physical Review B</i> , 1986 , 34, 713-722	3.3	43
2	Electronic and x-ray-absorption structure in compressed copper. <i>Physical Review B</i> , 1985 , 31, 3435-3450	3.3	58
1	Insulating Nickel at a Pressure of 34 TPa. <i>Physical Review Letters</i> , 1982 , 49, 1198-1201	7.4	67