

Peter Fulde

List of Publications by Year in descending order

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89
papers

7,457
citations

87723

38
h-index

60497

81
g-index

90
all docs

90
docs citations

90
times ranked

3557
citing authors

#	ARTICLE	IF	CITATIONS
1	Dealing with the exponential wall in electronic structure calculations. <i>Journal of Chemical Physics</i> , 2017, 146, 194107.	1.2	15
2	Wavefunction-based electronic-structure calculations for solids. <i>Nature Physics</i> , 2016, 12, 106-107.	6.5	10
3	Electron correlation effects in diamond: A wave-function quantum-chemistry study of the quasiparticle band structure. <i>Physical Review B</i> , 2014, 89, .	1.1	4
4	On the accuracy of correlation-energy expansions in terms of local increments. <i>Journal of Chemical Physics</i> , 2005, 123, 144108.	1.2	127
5	Ground-state wave functions and energies of solids. <i>International Journal of Quantum Chemistry</i> , 2000, 76, 385-395.	1.0	10
6	An ab initio estimate of correlation effects on the band gap of covalent semiconductors: diamond and silicon. <i>Chemical Physics Letters</i> , 2000, 319, 355-362.	1.2	29
7	Ab initio coupled-cluster calculations for the fcc and hcp structures of rare-gas solids. <i>Physical Review B</i> , 2000, 62, 5482-5488.	1.1	112
8	Wavefunction-based correlated ab initio calculations on crystalline solids. <i>Physical Review B</i> , 1999, 60, 5211-5216.	1.1	73
9	Ab initio calculation of ground-state properties of rare-gas crystals. <i>Physical Review B</i> , 1999, 60, 7905-7910.	1.1	118
10	A Hartree-Fock ab initio band-structure calculation employing Wannier-type orbitals. <i>Chemical Physics Letters</i> , 1998, 285, 174-179.	1.2	17
11	Calculated Properties of Lanthanocene Anions and the Unusual Electronic Structure of Their Neutral Counterparts. <i>Inorganic Chemistry</i> , 1998, 37, 1067-1072.	1.9	44
12	Orbital localization and delocalization effects in the U5f2 configuration: Impurity problem. <i>Physical Review B</i> , 1998, 57, 10648-10654.	1.1	13
13	Ab initio approach to cohesive properties of GdN. <i>Physical Review B</i> , 1998, 57, 2127-2133.	1.1	46
14	Nonequilibrium superconductivity in spin-polarized superconducting tunneling junctions. <i>Physical Review B</i> , 1997, 56, 2751-2763.	1.1	6
15	Valence-band structure of group-IV semiconductors by means of local increments. <i>Physical Review B</i> , 1997, 55, 13588-13597.	1.1	43
16	Influence of electron correlations on ground-state properties of III-V semiconductors. <i>Physical Review B</i> , 1997, 55, 4027-4030.	1.1	88
17	Low-lying electronic states of lanthanocenes and actinocenes $M(C_8H_8)_2$ ($M=Nd, Tb, Yb, U$). <i>Journal of Chemical Physics</i> , 1997, 107, 3584-3591.	1.2	66
18	Spin-Orbit Scattering Effects on the Phonon Emission and Absorption in Superconducting Tunneling Junctions. <i>Physical Review Letters</i> , 1996, 77, 2550-2553.	2.9	15

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19	Cohesive energies of cubic III-V semiconductors. <i>Physical Review B</i> , 1996, 54, 2556-2560.	1.1	90
20	Analysis of large-scale multi-configuration self-consistent field wave functions by expectation values of local operators. <i>Journal of Chemical Physics</i> , 1996, 105, 2353-2363.	1.2	21
21	Electron correlations for ground-state properties of group-IV semiconductors. <i>Physical Review B</i> , 1995, 51, 10572-10578.	1.1	58
22	Correlation effects in ionic crystals: The cohesive energy of MgO. <i>Physical Review B</i> , 1995, 52, 4842-4848.	1.1	85
23	The Projection Technique and Use of Local Operators. <i>Springer Series in Solid-state Sciences</i> , 1993, , 83-100.	0.3	0
24	Correlations in Atoms and Molecules. <i>Springer Series in Solid-state Sciences</i> , 1993, , 141-178.	0.3	0
25	Strongly Correlated Electrons. <i>Springer Series in Solid-state Sciences</i> , 1993, , 267-307.	0.3	6
26	On the coupled-electron-pair approximation based on a multireference state. <i>Journal of Chemical Physics</i> , 1992, 97, 4185-4187.	1.2	21
27	Correlation energy calculations for infinite systems. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 103-134.	1.0	5
28	Electronic correlations with inclusion of one-particle operators. <i>European Physical Journal B</i> , 1992, 89, 63-69.	0.6	0
29	The atomic correlation operator method. <i>Journal of Chemical Physics</i> , 1991, 95, 2577-2582.	1.2	4
30	Ground state calculations of dicyclic cyclooctatetraene cerium. <i>Journal of Chemical Physics</i> , 1991, 94, 3011-3017.	1.2	168
31	Unified Description of Strongly and Weakly Correlated Electrons. , 1990, , 291-296.		0
32	Application of projection techniques to the electron correlation problem. <i>Journal of Chemical Physics</i> , 1989, 91, 4223-4228.	1.2	43
33	Treatment of electron correlations by local operators: A status report. <i>Computational and Theoretical Chemistry</i> , 1989, 202, 63-74.	1.5	7
34	Physical picture of electron correlations in three-center four-electron bonds. <i>European Physical Journal B</i> , 1989, 76, 239-245.	0.6	9
35	Electron correlations in two dimensions. <i>Physica Scripta</i> , 1989, T27, 109-112.	1.2	1
36	Correlation energy contribution to cohesion in covalent structures. <i>Journal De Physique</i> , 1989, 50, 2659-2671.	1.8	7

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37	Current theories of the high-T _c superconducting materials. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1769-1774.	0.6	34
38	Theory of Heavy Fermion Systems. Solid State Physics, 1988, 41, 1-150.	1.3	295
39	Resonating structures versus molecular orbitals: A problem of electron correlations. Computational and Theoretical Chemistry, 1988, 169, 63-68.	1.5	0
40	Optimized orbitals for the description of electron correlations. Journal of Chemical Physics, 1987, 87, 2976-2985.	1.2	8
41	Electron correlations in molecules. III. Strength of electron correlations in localized and aromatic bonds of main-group atoms. Chemical Physics, 1987, 117, 385-403.	0.9	15
42	A method of calculating electron correlations for large molecules involving C, N, and H atoms. Journal of Chemical Physics, 1986, 85, 5183-5193.	1.2	43
43	Electron correlations in molecules. II. General trends derived for isoelectronic series. Chemical Physics, 1986, 106, 27-38.	0.9	15
44	Variational approach to finite-temperature magnetism. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 1231-1232.	1.0	0
45	Electron correlations in molecules. I Bond orbital approximation. Chemical Physics, 1986, 106, 11-26.	0.9	24
46	Electron correlations in the ground state of covalent semiconductors. Physical Review B, 1985, 31, 7800-7811.	1.1	32
47	Magnetic excitations in crystal-field split 4f systems. Advances in Physics, 1985, 34, 589-661.	35.9	183
48	Finite-frequency effects for elastic waves in rare-earth compounds. Physical Review B, 1984, 30, 4137-4145.	1.1	5
49	Electronic excitations in semiconductors: Variational Green's-function approach. Physical Review B, 1984, 30, 757-763.	1.1	4
50	Localized Moments in Metals: Crystal Field Excitations and Their Coupling to Electrons and Phonons. NATO ASI Series Series B: Physics, 1984, , 61-82.	0.2	1
51	Bound State between a Crystal-Field Excitation and a Phonon in CeAl ₂ . Physical Review Letters, 1982, 49, 1588-1591.	2.9	155
52	On the computation of electronic excitations in solids. European Physical Journal B, 1982, 48, 113-121.	0.6	12
53	Magnetic Field Dependence of the Conduction Electron Mass in Praseodymium. , 1982, , 227-232.		0
54	On the computation of electronic correlation energies within the local approach. Journal of Chemical Physics, 1980, 73, 4548-4561.	1.2	245

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55	Chapter 17 Crystal fields. Fundamental Theories of Physics, 1979, 2, 295-386.	0.1	16
56	On the theory of electronic correlations in solids. Zeitschrift für Physik B Condensed Matter and Quanta, 1979, 36, 23-35.	1.9	62
57	Description of intraatomic correlations by the Local Approach. Zeitschrift für Physik B Condensed Matter and Quanta, 1978, 29, 231-237.	1.9	94
58	Linewidth of crystal-field excitations in metallic rare-earth systems. Journal of Applied Physics, 1978, 49, 1422-1424.	1.1	1
59	Selected crystal-field effects in rare-earth systems. Journal of Applied Physics, 1978, 49, 1311-1314.	1.1	5
60	A local approach to the computation of correlation energies of molecules. Zeitschrift für Physik B Condensed Matter and Quanta, 1977, 26, 257-262.	1.9	102
61	Line width of crystal-field excitations in metallic rare-earth systems. Zeitschrift für Physik B Condensed Matter and Quanta, 1977, 28, 9-18.	1.9	155
62	Line Width of Crystal-Field Excitations Due to Electrons and Phonons. , 1977, , 284-292.		3
63	Magnetoelastic interaction in rare earth systems. Zeitschrift für Physik B Condensed Matter and Quanta, 1975, 21, 369-379.	1.9	89
64	Structural and magnetic phase transitions in metallic singlet ground state systems. Zeitschrift für Physik B Condensed Matter and Quanta, 1975, 20, 89-94.	1.9	9
65	Layered superconductors in high magnetic fields. European Physical Journal A, 1974, 267, 223-228.	1.0	30
66	Surfaces of Van Vleck ferro- and paramagnets. Zeitschrift für Physik A, 1973, 259, 145-156.	0.9	24
67	Magnetic field dependence of the Peierls instability in one-dimensional conductors. Zeitschrift für Physik A, 1973, 265, 239-243.	0.9	52
68	Superconductors with crystalline-field split impurities: Upper critical field and specific heat. Journal of Low Temperature Physics, 1973, 12, 63-70.	0.6	21
69	Surfaces of Transition Metals. Physical Review B, 1973, 8, 440-452.	1.1	115
70	High field superconductivity in thin films. Advances in Physics, 1973, 22, 667-719.	35.9	199
71	Some crystalline field effects in metals. Advances in Physics, 1972, 21, 1-67.	35.9	218
72	On the theory of superconductors containing magnetic impurities: Crystalline field effects. Journal of Low Temperature Physics, 1971, 4, 289-298.	0.6	60

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73	On the theory of impurities in a lattice of magnetic ions: Crystalline field effects. Zeitschrift für Physik A, 1971, 241, 82-102.	0.9	24
74	The role of spin-orbit scattering in high field superconducting tunneling. Zeitschrift für Physik A, 1971, 247, 1-8.	0.9	20
75	On the theory of superconductors with magnetic impurities in a singlet ground state. Solid State Communications, 1970, 8, 341-343.	0.9	12
76	Superconductors containing impurities with crystal-field split energy levels. Zeitschrift für Physik A, 1970, 230, 155-177.	0.9	108
77	Fluctuations in high field superconductors. Zeitschrift für Physik A, 1970, 238, 233-248.	0.9	18
78	Crystalline field effects in metals: Thermoelectric power. Zeitschrift für Physik A, 1970, 238, 99-109.	0.9	44
79	Magnetic Field Splitting of the Quasiparticle States in Superconducting Aluminum Films. Physical Review Letters, 1970, 25, 1270-1272.	2.9	236
80	Zero bias tunneling conductance for high field superconductors. European Physical Journal B, 1968, 7, 150-161.	0.6	5
81	Effects of Impurities on Spin Fluctuations in Almost Ferromagnetic Metals. Physical Review, 1968, 170, 570-575.	2.7	114
82	Spin Relaxation and Transport in Magnetic Alloys. Physical Review, 1968, 175, 337-341.	2.7	45
83	Theory of Superconductors Containing Magnetic Impurities. Physical Review, 1966, 141, 275-280.	2.7	160
84	Some numerical calculations on high field superconductivity. European Physical Journal B, 1966, 5, 157-165.	0.6	2
85	Magnetic-Field Dependence of the Knight Shift in Superconductors. Physical Review, 1965, 139, A788-A793.	2.7	31
86	Equivalence of Different Pair-Breaking Mechanisms in Superconductors. Physical Review, 1965, 140, A1586-A1592.	2.7	84
87	Tunneling Density of States for a Superconductor Carrying a Current. Physical Review, 1965, 137, A783-A787.	2.7	45
88	Superconductivity in a Strong Spin-Exchange Field. Physical Review, 1964, 135, A550-A563.	2.7	2,798
89	Critical Current and Electron Depairing in Superconducting Films. Physical Review, 1963, 131, 2457-2459.	2.7	24