Warren E Pickett

List of Publications by Year
in descending order

99 papers	9,262 citations	81434 41 h-index	49824 91 g-index
101 all docs	101 docs citations	101 times ranked	6998 citing authors

#	Article	IF	Citations
1	A d ⁸ anti-Hundâ€™s singlet insulator in an infinite-layer nickelate. JPhys Materials, 2022, 5, 024008.	1.8	0
2	Two-band conduction and nesting instabilities in superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math> : First-principles study. Physical Review B, 2021, 104, .	1.1	5
3	Spin-orbit coupling induced degeneracy in the anisotropic unconventional superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2019, 100, .	1.1	32
4	Probing hole-doping of the weak antiferromagnet TiAu with first principles methods. Journal of Physics Condensed Matter, 2019, 31, 074005.	0.7	3
5	Pressure-tuned Frustration of Magnetic Coupling in Elemental Europium. Physical Review Letters, 2019, 122, 057201.	2.9	8
6	Perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">ThTaN</mml:mi><mml:mn mathvariant="bold">3</mml:mn></mml:msub></mml:math> : A large-thermopower topological crystalline insulator. Physical Review B, 2018, 97, .	1.1	17
7	A maximally particle-hole asymmetric spectrum emanating from a semi-Dirac point. Journal of Physics Condensed Matter, 2018, 30, 075501.	0.7	0
8	Design of Chern insulating phases in honeycomb lattices. Physica C: Superconductivity and Its Applications, 2018, 549, 99-101.	0.6	1
9	Coemergence of Dirac and multi-Weyl topological excitations in pnictide antiperovskites. Physical Review B, 2018, 98, .	1.1	5
10	Atomic-layer-resolved composition and electronic structure of the cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ca</mml:mi><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mi mathvariant="normal">x</mml:mi></mml:msub></mml:mrow></mml:math>	1.1	5
11	Coexistence of triple-nodal points, nodal links, and unusual flat bands in intermetallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi><mml:mi>Pd</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math> (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 317 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:math> All- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>CrN</mml:mi><mml:mo>/</mml:mo><mml:mi>MgO</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 282 Td (stretchy="false">)</mml:mo></mml:mrow></mml:math> Electron-Hole Bilayers in	1.1	16
12	Nitride multilayers as a platform for parallel two-dimensional electron-hole gases: MgO/ScN(111). Physical Review B, 2016, 93, .	1.5	14
13	Wide gap Chern Mott insulating phases achieved by design. Npj Quantum Materials, 2017, 2, .	1.8	15
14	Nitride multilayers as a platform for parallel two-dimensional electron-hole gases: MgO/ScN(111). Physical Review B, 2016, 93, .	1.1	6
15	Design of Chern and Mott insulators in buckled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:math> oxide honeycomb lattices. Physical Review B, 2016, 93, .	1.1	30
16	Large orbital moment and spin-orbit enabled Mott transition in the Ising Fe honeycomb lattice of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2015, 92, .	1.1	13
17	Magnetic Correlations and Pairing in the1/5-Depleted Square Lattice Hubbard Model. Physical Review Letters, 2014, 113, 106402.	2.9	12
18	Confinement-driven transitions between topological and Mott phases in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>La</mml:mi>		

#	Article	IF	Citations
19	Massive Symmetry Breaking in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 737 Td (stretchy="false">)	2.9	74
20	Structural and correlation effects in the itinerant insulating antiferromagnetic perovskite NaOsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	1.1	35
21	Pressure-induced metal-insulator and spin-state transition in low-valence layered nickelates. Physical Review B, 2012, 85, .	1.1	37
22	Tuning the two-dimensional electron gas at the LaAlO3/SrTiO3(001) interface by metallic contacts. Physical Review B, 2012, 85, .	1.1	56
23	Tunable two-dimensional or three-dimensional electron gases by submonolayer La doping of SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical	1.1	23
24	Evaluation of compensated magnetism in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>VCuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>: Exploration of charge states. Physical Review B, 2011, 84.	1.1	9
25	Compensated half-metallicity in the trigonally distorted perovskite NiCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical	1.1	21
26	Electron confinement, orbital ordering, and orbital moments in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>d</mml:mi><mml:mn>0</mml:mn></mml:msup><mml:mtext>â^'</mml:mtext><m heterostructures. Physical Review B, 2010, 81, .	1.1	25
27	Quantum Confinement Induced Molecular Correlated Insulating State in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi>Ni</mml:mi><mml:mn mathvariant="normal">O</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2010, 105, 266402.	2.9	47
28	Electronic phenomena at complex oxide interfaces: insights from first principles. Journal of Physics Condensed Matter, 2010, 22, 043001.	0.7	143
29	Metal-insulator transition through a semi-Dirac point in oxide nanostructures: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>VO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m layers confined within<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m	1.1	54
30	Half-Metallic Semi-Dirac-Point Generated by Quantum Confinement in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi Physical Review Letters, 2009, 102, 166803.	2.9	213
31	Anisotropy, Itineracy, and Magnetic Frustration in High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi>C</mml:mi></mml:msub></mml:math>Iron Chloride. Physical Review Letters, 2009, 102, 107203.	2.9	112
32	Avoiding the Polarization Catastrophe in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Overlayers on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 197 Td (stretchy="false">)</mm	2.9	300
33	Anisotropy and magnetism in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>LSDA</mml:mtext><mml:mo>+</mml:mo><mml:mtext>U</mml:mtext></mml:mrow></mml:m Physical Review B, 2009, 79, .	1.1	166
34	Compensated magnetism by design in double perovskite oxides. Physical Review B, 2009, 80, .	1.1	82
35	Collapse of magnetic moment drives the Mott transition in MnO. Nature Materials, 2008, 7, 198-202.	13.3	175
36	Ionic relaxation contribution to the electronic reconstruction at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaAlO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m Physical Review B, 2008, 78, .	1.1	129

#	Article	IF	Citations
37	Correlation-Driven Charge Order at the Interface between a Mott and a Band Insulator. Physical Review Letters, 2007, 99, 016802.	2.9	86
38	Half metals: from formal theory to real material issues. Journal of Physics Condensed Matter, 2007, 19, 315203.	0.7	34
39	Computational design of multifunctional materials. Journal of Solid State Chemistry, 2003, 176, 615-632.	1.4	66
40	XMCD Characterization of the Ferromagnetic State of Yb14MnSb11. Journal of the American Chemical Society, 2002, 124, 9894-9898.	6.6	72
41	Half Metallic Magnets. Physics Today, 2001, 54, 39-44.	0.3	571
42	Magnetoelectronic properties of a ferrimagnetic semiconductor: The hybrid cupromanganiteCaCu3Mn4O12. Physical Review B, 2001, 65, .	1.1	80
43	Double-exchange-driven spin pairing at the (001) surface of manganites. Physical Review B, 2000, 62, 11571-11575.	1.1	32
44	Magnetic Reconstruction at the (001)CaMnO3Surface. Physical Review Letters, 1999, 83, 4184-4187.	2.9	26
45	Half-metallic ferrimagnetism inMn2VAl. Physical Review B, 1999, 60, 13006-13010.	1.1	215
46	The Josephson effect in single spin superconductors. Journal of Physics and Chemistry of Solids, 1998, 59, 2074-2077.	1.9	2
47	Spin-density-functional-based search for half-metallic antiferromagnets. Physical Review B, 1998, 57, 10613-10619.	1.1	213
48	Single-spin superconductivity: Formulation and Ginzburg-Landau theory. Physical Review B, 1998, 57, 557-574.	1.1	32
49	Electronic structure and half-metallic transport in theLa1â^'xCaxMnO3system. Physical Review B, 1996, 53, 1146-1160.	1.1	750
50	Single Spin Superconductivity. Physical Review Letters, 1996, 77, 3185-3188.	2.9	86
51	Investigation of density functionals to predict both ground-state properties and band structures. Physical Review B, 1996, 54, 8420-8429.	1.1	23
52	Electronic magnetic and structural coupling in colossal magnetoresistive (La,Ca)MnO3. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 3136.	1.6	3
53	New class of intermetallic borocarbide superconductors: Electron-phonon coupling and physical parameters. Journal of Superconductivity and Novel Magnetism, 1995, 8, 425-428.	0.5	13
54	Band structure of Bi2Sr2CuO6: Strong effects due to structural modulation. Journal of Superconductivity and Novel Magnetism, 1995, 8, 583-586.	0.5	11

#	Article	IF	Citations
55	Superconductivity of boro-nitrides. Nature, 1995, 374, 682-682.	13.7	13
56	Electronic and structural properties ofLa3Ni2B2N3. Physical Review B, 1995, 51, 8668-8671.	1.1	26
57	LuNi2B2C: A novel Ni-based strong-coupling superconductor. Physical Review Letters, 1994, 72, 3702-3705.	2.9	291
58	Unconventional Oxygen Doping Behavior inHgBa2Ca2Cu3O8+Î´. Physical Review Letters, 1994, 73, 476-479.	2.9	62
59	Negative Electron Affinity and Low Work Function Surface: Cesium on Oxygenated Diamond (100). Physical Review Letters, 1994, 73, 1664-1667.	2.9	96
60	Dynamics at a Step on the Diamond (111) Surface. Materials Research Society Symposia Proceedings, 1994, 339, 27.	0.1	0
61	Theoretical determination that electrons act as anions in the electride Cs+ (15-crown-5)2Â·e-. Nature, 1993, 365, 39-42.	13.7	102
62	Theoretical Investigation of Fluorinated and Hydrocenated Diamond <100> Filks. Materials Research Society Symposia Proceedings, 1992, 270, 389.	0.1	2
63	Electronic characteristics of Tl2Ba2CuO6. Physica C: Superconductivity and Its Applications, 1992, 203, 193-202.	0.6	60
64	Electronic structure and electron-phonon coupling in layered copper oxide superconductors. Physica B: Condensed Matter, 1991, 169, 45-50.	1.3	12
65	Temperature-dependent resistivity from phonons in cuprate superconductors. Journal of Superconductivity and Novel Magnetism, 1991, 4, 397-407.	0.5	21
66	Electronic Structure Studies of Diamond/Metal Interfaces. Materials Research Society Symposia Proceedings, 1990, 193, 59.	0.1	0
67	Evidence of strong electron-phonon coupling in the highTc copper oxide superconductors. International Journal of Quantum Chemistry, 1990, 38, 693-699.	1.0	2
68	Electronic structure of an ideal diamond-nickel (001) interface. Physical Review B, 1990, 41, 9756-9765.	1.1	37
69	First-principles, general-potential local-orbital calculations for bulk crystals. Physical Review B, 1990, 41, 10437-10446.	1.1	32
70	Pseudopotential methods in condensed matter applications. Computer Physics Reports, 1989, 9, 115-197.	2.3	758
71	Electronic structure of the high-temperature oxide superconductors. Reviews of Modern Physics, 1989, 61, 433-512.	16.4	1,309
72	Electronic Properties of Diamond/Nickel and Diamond/Boron Nitride Interfaces. Materials Research Society Symposia Proceedings, 1989, 162, 35.	0.1	1

#	Article	IF	Citations
73	Adsorption of Hydrocarbon Radicals on the Hydrogenated Diamond Surface. Materials Research Society Symposia Proceedings, 1989, 162, 91.	0.1	2
74	Analysis of electronic structure and charge density of the high-temperature superconductor YBa2Cu3O7. Journal of Superconductivity and Novel Magnetism, 1988, 1, 111-141.	0.5	220
75	Effect of bismuth on high-Tccuprate superconductors: Electronic structure ofBi2Sr2CaCu2O8. Physical Review Letters, 1988, 60, 1665-1667.	2.9	324
76	Thin superlattices and band-gap discontinuities: The (110) diamondâ€“boron nitride interface. Physical Review B, 1988, 38, 1316-1322.	1.1	37
77	Anisotropic normal-state transport properties predicted and analyzed for high-Tcoxide superconductors. Physical Review B, 1988, 37, 7482-7490.	1.1	385
78	Smooth Fourier interpolation of periodic functions. Physical Review B, 1988, 38, 2721-2726.	1.1	84
79	Self-consistent electronic structure of (110) Ge-ZnSe. Perspectives in Condensed Matter Physics, 1988, , 262-267.	0.1	0
80	Band-theory analysis of anisotropic transport inLa2CuO4-based superconductors. Physical Review B, 1987, 36, 3926-3929.	1.1	157
81	Anisotropic Normal State Transport Properties of Oxide Superconductors Predicted from Lapw Band Structures. Materials Research Society Symposia Proceedings, 1987, 99, 183.	0.1	0
82	Generalization of the theory of the electron-phonon interaction: Thermodynamic formulation of superconducting- and normal-state properties. Physical Review B, 1982, 26, 1186-1207.	1.1	60
83	Renormalized Thermal Distribution Function in an Interacting Electron-Phonon System. Physical Review Letters, 1982, 48, 1548-1551.	2.9	15
84	Symmetric relaxation of the hydrogen-saturated silicon vacancy. Physical Review B, 1982, 26, 5650-5657.	1.1	3
85	Transferability and the electron-phonon interaction: A reinterpretation of the rigid-muffin-tin approximation. Physical Review B, 1982, 25, 745-754.	1.1	25
86	Electron-phonon interaction in the f-band metals La, Ce and Th: Electronic aspects including the spin-orbit interactions. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1981, 111, 1-10.	0.9	5
87	Local-density-functional approach to the isostructualÎ³â˜Î±transition in cerium using the self-consistent linearized-augmented-plane-wave method. Physical Review B, 1981, 23, 1266-1291.	1.1	153
88	Theoretical study of the hydrogen-saturated ideal silicon vacancy. Physical Review B, 1981, 23, 6603-6609.	1.1	31
89	Self-consistent linearized augmented-plane-wave study of the electronic structure and superconductivity of fcc lanthanum under pressure. Physical Review B, 1980, 22, 2695-2715.	1.1	133
90	ON THE ELECTRONIC STRUCTURE OF A15 COMPOUNDS. , 1980, , 77-85.		2

#	Article	IF	Citations
91	Electronic properties ofNb3Ge andNb3Al from self-consistent pseudopotentials. I. Band structure and density of states. Physical Review B, 1979, 19, 1734-1750.	1.1	89
92	Electronic properties ofNb3Ge andNb3Al from self-consistent pseudopotentials. II. Bonding, electronic charge distributions, and structural transformation. Physical Review B, 1979, 19, 1751-1761.	1.1	25
93	Theory of the hydrogen interstitial impurity in germanium. Physical Review B, 1979, 20, 5050-5058.	1.1	37
94	Theoretical study of relaxation at the (110) Ge-GaAs interface. Solid State Communications, 1978, 25, 225-227.	0.9	19
95	Self-consistent calculations of interface states and electronic structure of the (110) interfaces of Ge-GaAs and AlAs-GaAs. Physical Review B, 1978, 17, 815-828.	1.1	198
96	Self-consistent electronic structure of (110) Ge-ZnSe. Physical Review B, 1978, 18, 939-944.	1.1	49
97	Ge-GaAs (110) Interface: A Self-Consistent Calculation of Interface States and Electronic Structure. Physical Review Letters, 1977, 39, 109-112.	2.9	102
98	Quasiparticle interactions in the optical properties of Nb and Mo. Physical Review B, 1976, 13, 1473-1476.	1.1	11
99	Electronic Structure and Total Energy Calculations for Oxide Perovskites and Superconductors. Geophysical Monograph Series, 0, , 55-66.	0.1	11