

Warren E Pickett

List of Publications by Year in descending order

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94
papers

5,935
citations

134610

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81351

76
g-index

98
all docs

98
docs citations

98
times ranked

5656
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. Journal of Physics Condensed Matter, 2022, 34, 183002.	0.7	79
2	Dirac lines and loop at the Fermi level in the time-reversal symmetry breaking superconductor LaNiGa ₂ . Communications Physics, 2022, 5, .	2.0	15
3	Low Valence Nickelates: Launching the Nickel Age of Superconductivity. Frontiers in Physics, 2022, 9, .	1.0	13
4	Nonsymmorphic band sticking in a topological superconductor. Physical Review B, 2022, 105, .	1.1	6
5	A d ⁸ anti-Hund's singlet insulator in an infinite-layer nickelate. JPhys Materials, 2022, 5, 024008.	1.8	0
6	Field-induced Bose-Einstein condensation and supersolid in the two-dimensional Kondo necklace. Communications Physics, 2022, 5, .	2.0	3
7	The dawn of the nickel age of superconductivity. Nature Reviews Physics, 2021, 3, 7-8.	11.9	27
8	A nearly insulating half-filled heavy-fermion metal. Physical Review B, 2021, 103, .	1.1	19
9	Two-band conduction and nesting instabilities in superconducting Ba _{1-x} Bi _x : First-principles study. Physical Review B, 2021, 104, .	1.1	19
10	Superconducting Mo enhanced by boron under pressure: Superconducting Mo enhanced by boron. Physical Review B, 2021, 104, .	1.1	19
11	Prediction of a second class high-temperature superconductor. Physical Review B, 2020, 102, .	1.1	7
12	Notes on superconducting hydrides. Physics Today, 2020, 73, 12-13.	0.3	0
13	Role of f states in infinite-layer NdNiO ₂ . Physical Review B, 2020, 101, .	1.1	103
14	Topological and thermoelectric properties of double antiperovskite pnictides. Journal of Physics Condensed Matter, 2020, 32, 345502.	0.7	9
15	Proposed ordering of textured spin singlets in a bulk infinite-layer nickelate. Physical Review Research, 2020, 2, .	1.3	12
16	Fluctuation-frustrated flat band instabilities in NdNiO ₂ . Physical Review Research, 2020, 2, .	1.3	50
17	Compressed hydrides as metallic hydrogen superconductors. Physical Review B, 2019, 100, .	1.1	48
18	Strong particle-hole asymmetry in a 200 Kelvin superconductor. Physical Review B, 2019, 100, .	1.1	7

#	ARTICLE	IF	CITATIONS
19	Spin-orbit coupling induced degeneracy in the anisotropic unconventional superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	1.1	32
20	The quest for room-temperature superconductivity in hydrides. Physics Today, 2019, 72, 52-58.	0.3	21
21	Probing hole-doping of the weak antiferromagnet TiAu with first principles methods. Journal of Physics Condensed Matter, 2019, 31, 074005.	0.7	3
22	Pressure-tuned Frustration of Magnetic Coupling in Elemental Europium. Physical Review Letters, 2019, 122, 057201.	2.9	8
23	Noncentrosymmetric compensated half-metal hosting pure spin Weyl nodes, triple nodal points, nodal loops, and nexus fermions. Physical Review Materials, 2019, 3, .	0.9	11
24	Perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ThTaN</mml:mi><mml:mn>3</mml:mn></mml:mrow></mml:math> : A large-thermopower topological crystalline insulator. Physical Review B, 2018, 97, .	1.1	17
25	A maximally particle-hole asymmetric spectrum emanating from a semi-Dirac point. Journal of Physics Condensed Matter, 2018, 30, 075501.	0.7	0
26	High Seebeck Coefficient and Unusually Low Thermal Conductivity Near Ambient Temperatures in Layered Compound $\text{Yb}_2\text{EuCdSb}_2$. Chemistry of Materials, 2018, 30, 484-493.	3.2	45
27	Survey of the class of isovalent antiperovskite alkaline-earth pnictide compounds. Physical Review B, 2018, 97, .	1.1	20
28	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>B</mml:mi><mml:msub><mml:mi>i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>S</mml:mi></mml:mrow></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>r</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:math> CaC</mml:mi><mml:msub><mml:mi>i</mml:mi></mml:msub></mml:math>	1.1	5
29	Addendum: Fermiology and electron dynamics of trilayer nickelate $\text{La}_4\text{Ni}_3\text{O}_{10}$. Nature Communications, 2018, 9, 1952.	5.8	0
30	Accidental degeneracy in k-space, geometrical phase, and the perturbation of $\tilde{\mu}$ by spin-orbit interactions. Physica C: Superconductivity and Its Applications, 2018, 549, 102-106.	0.6	7
31	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:mrow><mml:mi>A</mml:mi><mml:mi>Pd</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> (<mml:math> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 257 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"		
32	All- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>d</mml:mi></mml:mrow></mml:math> Electron-Hole Bilayers in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>CrN</mml:mi><mml:mi>MgO</mml:mi></mml:mrow></mml:math> (stretchy="false")</mml:math> <mml:math> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 202 Td (stretchy="false")</mml:math>	1.5	14
33	Fermiology and electron dynamics of trilayer nickelate $\text{La}_4\text{Ni}_3\text{O}_{10}$. Nature Communications, 2017, 8, 704.	5.8	26
34	Wide gap Chern Mott insulating phases achieved by design. Npj Quantum Materials, 2017, 2, .	1.8	15
35	Competing magnetic instabilities in the weak itinerant antiferromagnetic TiAu. Physical Review B, 2017, 95, .	1.1	7
36	Tuning ferromagnetic <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> a high Chern number topological phase. Physical Review B, 2016, 94, .	1.1	7

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37	A mechanism for weak itinerant antiferromagnetism: Mirrored van Hove singularities. Europhysics Letters, 2016, 116, 27004.	0.7	9
38	Charge ordering in NiLa_4 . Physical Review B, 2016, 94, .		
39	Nitride multilayers as a platform for parallel two-dimensional electron-hole gases: MgO/ScN(111). Physical Review B, 2016, 93, .	1.1	6
40	Van Hove singularities and spectral smearing in high-temperature superconducting H_3S . Physical Review B, 2016, 93, .	1.1	101
41	Interplay between spin-orbit coupling and strong correlation effects: Comparison of the three osmate double perovskites $\text{Ba}_2\text{Mn}_2\text{O}_6$. Physical Review B, 2016, 93, .		
42	Design of Chern and Mott insulators in buckled Mn_3Cd honeycomb lattices. Physical Review B, 2016, 93, .		30
43	Spin-orbit interaction driven collective electron-hole excitations in a noncentrosymmetric nodal loop Weyl semimetal. Physical Review B, 2015, 92, .	1.1	10
44	Large orbital moment and spin-orbit enabled Mott transition in the Ising Fe honeycomb lattice of BaFe_2 . Physical Review B, 2015, 92, .	1.1	13
45	Disturbing the dimers: Electron and hole doping in the intermetallic insulator FeGa_3 . Physical Review B, 2015, 92, .	1.1	13
46	Analysis of charge states in the mixed-valent ionic insulator AgO. Physical Review B, 2015, 91, .	1.1	8
47	Unquenched orbital moment in the Mott-insulating antiferromagnet KOsO_4 . Physical Review B, 2014, 90, .	1.1	12
48	Magnetic Correlations and Pairing in the $1/5$ -Depleted Square Lattice Hubbard Model. Physical Review Letters, 2014, 113, 106402.	2.9	12
49	Science diplomacy in Iran. Nature Physics, 2014, 10, 465-467.	6.5	2
50	Confinement-driven transitions between topological and Mott phases in LaMO_3 .		

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55	Structural and correlation effects in the itinerant insulating antiferromagnetic perovskite NaOsO ₃ . Physical Review B, 2013, 87, .	1.1	35
56	Pressure-induced metal-insulator and spin-state transition in low-valence layered nickelates. Physical Review B, 2012, 85, .	1.1	37
57	Formal Valence, Electron Occupation, and Charge-Order Transitions. Physical Review Letters, 2012, 109, 216401.	2.9	38
58	Tuning the two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (001) interface by metallic contacts. Physical Review B, 2012, 85, .	1.1	56
59	Metal-insulator transition in layered nickelates Ni ₃ VO. Physical Review B, 2012, 85, .	1.1	26
60	Quantum criticality in NbFe ₂ induced by zero carrier velocity. Physical Review B, 2011, 84, .	1.1	20
61	Tunable two-dimensional or three-dimensional electron gases by submonolayer La doping of SrTiO ₃ . Physical Review B, 2011, 83, .	1.1	23
62	Evaluation of compensated magnetism in La ₂ VCuO ₆ . Physical Review B, 2011, 83, .	1.1	9
63	Compensated half-metallicity in the trigonally distorted perovskite NiCrO ₃ . Physical Review B, 2011, 83, .	1.1	21
64	Electron confinement, orbital ordering, and orbital moments in VO ₂ heterostructures. Physical Review B, 2010, 81, .	1.1	25
65	Quantum Confinement Induced Molecular Correlated Insulating State in Ni ₄ VO ₈ . Physical Review Letters, 2010, 105, 266402.	1.1	29
66	Electronic phenomena at complex oxide interfaces: insights from first principles. Journal of Physics Condensed Matter, 2010, 22, 043001.	0.7	143
67	Metal-insulator transition through a semi-Dirac point in oxide nanostructures: VO ₂ layers confined within TiO ₂ . Physical Review B, 2010, 81, .	1.1	54
68	First-principles study of electronic and vibrational properties of BaHfN ₂ . Physical Review B, 2010, 82, .	1.1	26
69	Half-Metallic Semi-Dirac-Point Generated by Quantum Confinement in TiO ₂ . Physical Review Letters, 2009, 102, 166803.	2.9	213
70	Anisotropy, Itineracy, and Magnetic Frustration in High-T _c Iron Pnictides. Physical Review Letters, 2009, 102, 107003.	2.9	112
71	Overlayers on SrTiO ₃ . Physical Review Letters, 2009, 102, 107003.	2.9	300
72	Timing is crucial. Nature Physics, 2009, 5, 87-88.	6.5	12

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73	Anisotropy and magnetism in the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2009, 79, .	1.1	100
74	Compensated magnetism by design in double perovskite oxides. Physical Review B, 2009, 80, .	1.1	82
75	Collapse of magnetic moment drives the Mott transition in MnO. Nature Materials, 2008, 7, 198-202.	13.3	175
76	Ionic relaxation contribution to the electronic reconstruction at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2008, 78, .	1.1	129
77	Half metals: from formal theory to real material issues. Journal of Physics Condensed Matter, 2007, 19, 315203.	0.7	34
78	Enhancement of ferromagnetic coupling in $\text{Mn}\hat{n}\cdot\text{GaAs}$ digital ferromagnetic heterostructure by free-hole injection. Journal of Applied Physics, 2006, 99, 08D517.	1.1	9
79	Origin and temperature dependence of the electric dipole moment in niobium clusters. Physical Review B, 2006, 73, .	1.1	20
80	Exchange Coupling in Eu Monochalcogenides from First Principles. Journal of the Physical Society of Japan, 2005, 74, 1408-1411.	0.7	68
81	Spin and orbital magnetic state of UGe_2 under pressure. Physical Review B, 2004, 70, .	1.1	31
82	Computational design of multifunctional materials. Journal of Solid State Chemistry, 2003, 176, 615-632.	1.4	66
83	Half Metallic Magnets. Physics Today, 2001, 54, 39-44.	0.3	571
84	Magneto-electronic properties of a ferrimagnetic semiconductor: The hybrid cupromanganite $\text{CaCu}_3\text{Mn}_4\text{O}_{12}$. Physical Review B, 2001, 65, .	1.1	80
85	Spin-density-functional-based search for half-metallic antiferromagnets. Physical Review B, 1998, 57, 10613-10619.	1.1	213
86	Single-spin superconductivity: Formulation and Ginzburg-Landau theory. Physical Review B, 1998, 57, 557-574.	1.1	32
87	Single Spin Superconductivity. Physical Review Letters, 1996, 77, 3185-3188.	2.9	86
88	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
89	Electronic structure of the high-temperature oxide superconductors. Reviews of Modern Physics, 1989, 61, 433-512.	16.4	1,309
90	Anisotropic normal-state transport properties predicted and analyzed for high-Tc oxide superconductors. Physical Review B, 1988, 37, 7482-7490.	1.1	385

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91	Generalization of the theory of the electron-phonon interaction: Thermodynamic formulation of superconducting- and normal-state properties. <i>Physical Review B</i> , 1982, 26, 1186-1207.	1.1	60
92	Renormalized Thermal Distribution Function in an Interacting Electron-Phonon System. <i>Physical Review Letters</i> , 1982, 48, 1548-1551.	2.9	15
93	Transferability and the electron-phonon interaction: A reinterpretation of the rigid-muffin-tin approximation. <i>Physical Review B</i> , 1982, 25, 745-754.	1.1	25
94	Effect of a varying density of states on superconductivity. <i>Physical Review B</i> , 1980, 21, 3897-3901.	1.1	43