

N A W Holzwarth

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic band structures of the scheelite materials CaMoO_4 , CaWO_4 , PbMoO_4 , and PbWO_4 . Physical Review B, 1998, 57, 12738-12750.	3.2	388
2	Comparison of the projector augmented-wave, pseudopotential, and linearized augmented-plane-wave formalisms for density-functional calculations of solids. Physical Review B, 1997, 55, 2005-2017.	3.2	230
3	X-ray form factors and the electronic structure of graphite. Physical Review B, 1982, 26, 5382-5390.	3.2	202
4	Theoretical study of lithium graphite. I. Band structure, density of states, and Fermi-surface properties. Physical Review B, 1978, 18, 5190-5205.	3.2	154
5	Li ion diffusion mechanisms in the crystalline electrolyte Li_3PO_4 and interfacial properties of solid electrolytes. Physical Review B, 1998, 58, 1213-1229.	3.2	138
6	Lithium-intercalated graphite: Self-consistent electronic structure for stages one, two, and three. Physical Review B, 1983, 28, 1013-1025.	3.2	113
7	Nonrelativistic phase-shift analysis of impurity scattering in noble-metal hosts. Physical Review B, 1974, 10, 1213-1229.	3.2	98
8	Mechanisms of Li^+ diffusion in crystalline Li_3PO_4 . Physical Review B, 1998, 58, 1213-1229.	3.2	93
9	Fast Lithium Ion Conduction in Li_2SnS_3 : Synthesis, Physicochemical Characterization, and Electronic Structure. Chemistry of Materials, 2015, 27, 189-196.	6.7	85
10	Magnetic Spin Susceptibility of AsF_5 -Intercalated Graphite: Determination of the Density of States at the Fermi Energy. Physical Review Letters, 1978, 41, 1417-1421.	7.8	73
11	Electronic structure of vacancy defects in MgO crystals. Physical Review B, 1990, 41, 3211-3225.	3.2	69
12	Li Ion Diffusion Mechanisms in the Crystalline Electrolyte Li_3PO_4 . Journal of the Electrochemical Society, 2007, 154, A999.	2.9	66
13	Electronic structure of oxygen-related defects in PbWO_4 and CaMoO_4 crystals. Physical Review B, 2001, 64, .	3.2	64
14	Graphite intercalation compounds: A simple model of Fermi surface and transport properties. Physical Review B, 1980, 21, 3665-3674.	3.2	60
15	Local Spin-Density Description of Multiple Metal-Metal Bonding: Mo_2 and Cr_2 . Physical Review Letters, 1983, 50, 1451-1454.	7.8	60
16	Theory of impurity scattering in dilute metal alloys based on the muffin-tin model. Physical Review B, 1975, 11, 3718-3738.	3.2	56
17	Theoretical study of lithium graphite. II. Spatial distribution of valence electrons. Physical Review B, 1978, 18, 5206-5216.	3.2	55
18	Interlayer states in graphite and in alkali-metal-graphite intercalation compounds. Physical Review B, 1984, 30, 2219-2222.	3.2	55

#	ARTICLE	IF	CITATIONS
19	First-principles study of LiPON and related solid electrolytes. Physical Review B, 2010, 81, .	3.2	47
20	Density-functional study of interplanar binding in graphite. Physical Review B, 1983, 27, 2458-2469.	3.2	44
21	Mathieu function solutions to the radial Schrödinger equation for the \hat{a}^2/r^4 interaction. Journal of Mathematical Physics, 1973, 14, 191-204.	1.1	43
22	Spectral momentum density of graphite from (e,2e) spectroscopy: Comparison with first-principles calculation. Physical Review B, 1988, 37, 3914-3923.	3.2	41
23	Computer Modeling of Crystalline Electrolytes: Lithium Thiophosphates and Phosphates. Journal of the Electrochemical Society, 2012, 159, A538-A547.	2.9	41
24	Density-functional calculation of the electronic structure and equilibrium geometry of iron pyrite (FeS ₂). Physical Review B, 1994, 50, 8214-8220.	3.2	40
25	Electronic structure of RuS ₂ . Physical Review B, 1985, 32, 3745-3752.	3.2	38
26	Density-functional calculation of the bulk and surface geometry of beryllium. Physical Review B, 1995, 51, 13653-13659.	3.2	33
27	Energy-band structure and charge distribution for BaC ₆ . International Journal of Quantum Chemistry, 1983, 23, 1223-1230.	2.0	22
28	Multilayer-relaxation geometry and electronic structure of a W(111) surface. Physical Review B, 1993, 48, 12136-12145.	3.2	22
29	Effects of O vacancies and N or Si substitutions on Li^+ in Li_3O_4 and $\text{Cu}_2\text{ZnSnS}_4$. Physical Review B, 2008, 78, .	3.2	22
30	$\text{Cu}_2\text{ZnSnS}_4$ and $\text{Cu}_2\text{ZnSnS}_4\text{Se}_4$: First principles simulations of optimal alloy configurations and their energies. Journal of Applied Physics, 2014, 115, .	2.5	22
31	Electronic states of impurity atoms in noble-metal lattices. Physical Review B, 1976, 13, 3249-3260.	3.2	21
32	Unraveling the electrolyte properties of $\text{Na}_3\text{Zr}_2\text{Si}_2\text{O}_{14}$ through computation and experiment. Physical Review Materials, 2017, 1, .	2.3	21
33	Local density pseudopotential calculations for molecules: O ₂ and Mo ₂ O ₂ S ₂ (S ₂) ₂ . Journal of Chemical Physics, 1984, 81, 3987-3995.	3.0	19
34	Electron momentum distribution in graphite and lithium-intercalated graphite. Physical Review B, 1984, 30, 1062-1064.	3.2	19
35	Orthogonal polynomial projectors for the projector augmented wave method of electronic structure calculations. Physical Review B, 1998, 57, 11827-11830.	3.2	18
36	Electronic Structure of Third-Stage Lithium Intercalated Graphite. Physical Review Letters, 1981, 47, 1318-1321.	7.8	16

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37	Theory of impurity scattering: Interstitial impurities. European Physical Journal B, 1975, 19, 161-170.	1.5	15
38	Core-cancellation functions for evaluating exchange-correlation functionals in first-principles pseudopotential calculations. Physical Review B, 1994, 49, 2351-2361.	3.2	13
39	First-principles simulations of the porous layered calcogenides $\text{Li}_2\text{Mg}_2\text{S}_2$ and $\text{Li}_2\text{Mg}_2\text{S}_2$. Physical Review B, 2016, 94, .	3.2	12
40	Surface electronic wave functions of a semi-infinite muffin-tin lattice. I. The spherical-wave method. Physical Review B, 1978, 18, 5350-5364.	3.2	11
41	Computational Study of Li Ion Electrolytes Composed of Li_3AsS_4 Alloyed with Li_4GeS_4 . Journal of the Electrochemical Society, 2016, 163, A2079-A2088.	2.9	10
42	Li_4SnS_4 and Li_4SnSe_4 : Simulations of Their Structure and Electrolyte Properties. Journal of the Electrochemical Society, 2017, 164, A6386-A6394.	2.9	10
43	Effects of spin-orbit interaction upon impurity scattering in dilute alloys. Physical Review B, 1976, 13, 2331-2341.	3.2	9
44	Cubic spline solver for generalized density functional treatments of atoms and generation of atomic datasets for use with exchange-correlation functionals including meta-GGA. Physical Review B, 2022, 105, .	3.2	9
45	Surface electronic wave functions of a semi-infinite muffin-tin lattice. II. Application to Cu (001) and (110). Physical Review B, 1978, 18, 5365-5378.	3.2	8
46	Pseudopotential inversion scheme. Physical Review B, 1986, 33, 7139-7143.	3.2	8
47	Electronic structure of KHgC_4 and related materials. Physical Review B, 1988, 38, 3722-3732.	3.2	7
48	Method for calculating electronic structures near surfaces of semi-infinite crystals. Physical Review B, 2006, 73, .	3.2	3
49	Projector augmented wave formulation of Hartree-Fock calculations of electronic structure. Physical Review B, 2010, 81, .	3.2	3
50	Computational study of $\text{Li}_3\text{Mg}_3\text{S}_3$ and $\text{Li}_3\text{Mg}_3\text{S}_3$. Physical Review Materials, 2021, 5, .	2.4	3
51	Computational investigation of the Electrolyte Properties of $\text{Li}_{12}\text{P}_3\text{N}_9$ and Its High Pressure Polymorph Li_4PN_3 through First-Principles Simulations. Journal of the Electrochemical Society, 2020, 167, 060505.	2.9	2
52	Adaptation of the projector-augmented-wave formalism to the treatment of orbital-dependent exchange-correlation functionals. Physical Review B, 2011, 84, .	3.2	1
53	Crystalline Inorganic Solid Electrolytes: Computer Simulations and Comparisons with Experiment. Materials and Energy, 2015, , 191-232.	0.1	1
54	Electronic Structure of Graphite Intercalation Compounds. Materials Research Society Symposia Proceedings, 1982, 20, 107.	0.1	0

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55	Model Self-Consistent Bands for Graphite Intercalation Compounds. Springer Series in Solid-state Sciences, 1981, , 138-143.	0.3	0