

Alexander Zunger

List of Publications by Year in descending order

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papers

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46447
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic doping limitations in inorganic lead halide perovskites. <i>Materials Horizons</i> , 2022, 9, 791-803.	6.4	10
2	Bulk NdNiO_2 is thermodynamically unstable with respect to decomposition while hydrogenation reduces the local distortion and spin symmetry relations as a source of magnetism and insulation in paramagnetic EuTiO_3 . <i>Physical Review B</i> , 2022, 105, .	1.1	33
3	Dependence of band gaps in d^3 -electron perovskite oxides on magnetism. <i>Physical Review B</i> , 2022, 105, .	1.1	6
4	Intrinsic local symmetry breaking in nominally cubic paraelectric BaTiO_3 . <i>Physical Review B</i> , 2022, 105, .	1.1	10
5	Prediction of low-Z collinear and noncollinear antiferromagnetic compounds having momentum-dependent spin splitting even without spin-orbit coupling. <i>Physical Review Materials</i> , 2021, 5, .	0.9	64
6	Understanding Doping of Quantum Materials. <i>Chemical Reviews</i> , 2021, 121, 3031-3060.	23.0	86
7	Mass enhancement in d^3 and d^1 perovskites from symmetry breaking. <i>Physical Review B</i> , 2021, 103, .	1.1	24
8	Strong influence of nonmagnetic ligands on the momentum-dependent spin splitting in antiferromagnets. <i>Physical Review B</i> , 2021, 103, .	1.1	16
9	Effect of static local distortions vs. dynamic motions on the stability and band gaps of cubic oxide and halide perovskites. <i>Materials Today</i> , 2021, 49, 107-122.	8.3	37
10	Different shapes of spin textures as a journey through the Brillouin zone. <i>Physical Review B</i> , 2021, 104, .	1.1	23
11	Piezoelectricity in nominally centrosymmetric phases. <i>Physical Review Research</i> , 2021, 3, .	1.3	19
12	Realization of predicted exotic materials: The burden of proof. <i>Materials Today</i> , 2020, 32, 35-45.	8.3	29
13	The Rashba Scale: Emergence of Band Anti-crossing as a Design Principle for Materials with Large Rashba Coefficient. <i>Matter</i> , 2020, 3, 145-165.	5.0	21
14	Symmetry-breaking polymorphous descriptions for correlated materials without interelectronic U . <i>Physical Review B</i> , 2020, 102, .	1.1	48
15	Giant momentum-dependent spin splitting in centrosymmetric low- Z antiferromagnets. <i>Physical Review B</i> , 2020, 102, .	1.1	101
16	Inverse design of compounds that have simultaneously ferroelectric and Rashba cofunctionality. <i>Physical Review B</i> , 2020, 102, .	1.1	20
17	False metals, real insulators, and degenerate gapped metals. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	44

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19	Understanding electronic peculiarities in tetragonal FeSe as local structural symmetry breaking. Physical Review B, 2020, 102, .	1.1	26
20	Hole antidoping of oxides. Physical Review B, 2020, 101, .	1.1	10
21	Polymorphous nature of cubic halide perovskites. Physical Review B, 2020, 101, .	1.1	104
22	Ferri-chiral compounds with potentially switchable Dresselhaus spin splitting. Physical Review B, 2020, 102, .	1.1	4
23	Digging for topological property in disordered alloys: the emergence of Weyl semimetal phase and sequential band inversions in PbSe/SnSe alloys. Materials Horizons, 2019, 6, 2124-2134.	6.4	15
24	Mott gapping in $3d$ perovskites without Mott-Hubbard interelectronic repulsion energy U . Physical Review B, 2019, 100, .	1.1	70
25	Spontaneous Non-stoichiometry and Ordering in Degenerate but Gapped Transparent Conductors. Matter, 2019, 1, 280-294.	5.0	27
26	Beware of plausible predictions of fantasy materials. Nature, 2019, 566, 447-449.	13.7	64
27	Design of Mixed-Cation Layered Pb-Free Halide Perovskites for Optoelectronic Applications. Advanced Electronic Materials, 2019, 5, 1900234.	2.6	21
28	Antidoping in Insulators and Semiconductors Having Intermediate Bands with Trapped Carriers. Physical Review Letters, 2019, 122, 106403.	2.9	28
29	Origin of band gaps in $3d$ perovskite oxides. Nature Communications, 2019, 10, 1658.	5.8	154
30	Uncovering and tailoring hidden Rashba spin-orbit splitting in centrosymmetric crystals. Nature Communications, 2019, 10, 906.	5.8	53
31	Formation and Composition-Dependent Properties of Alloys of Cubic Halide Perovskites. Chemistry of Materials, 2019, 31, 2497-2506.	3.2	48
32	Alloy theory with atomic resolution for Rashba or topological systems. Physical Review Materials, 2019, 3, .	0.9	3
33	Origins versus fingerprints of the Jahn-Teller effect in d -electron perovskites. Physical Review Research, 2019, 1, .	1.3	31
34	Polymorphous band structure model of gapping in the antiferromagnetic and paramagnetic phases of the Mott insulators MnO, FeO, CoO, and NiO. Physical Review B, 2018, 97, .	1.1	100
35	Inverse design in search of materials with target functionalities. Nature Reviews Chemistry, 2018, 2, .	13.8	235
36	Topological Insulators versus Topological Dirac Semimetals in Honeycomb Compounds. Journal of the American Chemical Society, 2018, 140, 13687-13694.	6.6	42

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55	Single-dot absorption spectroscopy and theory of silicon nanocrystals. <i>Physical Review B</i> , 2016, 93, .	1.1	39
56	Strong Absorption Enhancement in Si Nanorods. <i>Nano Letters</i> , 2016, 16, 7937-7941.	4.5	11
57	Quasi-Direct Optical Transitions in Silicon Nanocrystals with Intensity Exceeding the Bulk. <i>Nano Letters</i> , 2016, 16, 1583-1589.	4.5	62
58	Search and design of nonmagnetic centrosymmetric layered crystals with large local spin polarization. <i>Physical Review B</i> , 2015, 91, .	1.1	51
59	Emergence of a few distinct structures from a single formal structure type during high-throughput screening for stable compounds: The case of RbCuS and RbCuSe. <i>Physical Review B</i> , 2015, 92, .	1.1	10
60	Supercoupling between heavy-hole and light-hole states in nanostructures. <i>Physical Review B</i> , 2015, 92, .	1.1	31
61	Incomplete Peierls-like chain dimerization as a mechanism for intrinsic conductivity and optical transparency: A La-Cu-O-S phase with mixed-anion layers as a case study. <i>Physical Review B</i> , 2015, 92, .	1.1	4
62	Intrinsic Transparent Conductors without Doping. <i>Physical Review Letters</i> , 2015, 115, 176602.	2.9	36
63	Cation ordering induced polarization enhancement for PbTiO_3 superlattices. <i>Physical Review B</i> , 2015, 91, .		
64	Switching a Normal Insulator into a Topological Insulator via Electric Field with Application to Phosphorene. <i>Nano Letters</i> , 2015, 15, 1222-1228.	4.5	406
65	Evolution of Electronic Structure as a Function of Layer Thickness in Group-VIB Transition Metal Dichalcogenides: Emergence of Localization Prototypes. <i>Nano Letters</i> , 2015, 15, 949-957.	4.5	72
66	Intrinsic Circular Polarization in Centrosymmetric Stacks of Transition-Metal Dichalcogenide Compounds. <i>Physical Review Letters</i> , 2015, 114, 087402.	2.9	53
67	Split Dirac cones in HgTe/CdTe quantum wells due to symmetry-enforced level anticrossing at interfaces. <i>Physical Review B</i> , 2015, 91, .	1.1	67
68	Design and discovery of a novel half-Heusler transparent hole conductor made of all-metallic heavy elements. <i>Nature Communications</i> , 2015, 6, 7308.	5.8	89
69	Prediction and accelerated laboratory discovery of previously unknown 18-electron ABX compounds. <i>Nature Chemistry</i> , 2015, 7, 308-316.	6.6	349
70	Prediction and Synthesis of Strain Tolerant RbCuTe Crystals Based on Rotation of One-Dimensional Nano Ribbons within a Three-Dimensional Inorganic Network. <i>Journal of the American Chemical Society</i> , 2015, 137, 11383-11390.	6.6	12
71	Research Update: Towards designed functionalities in oxide-based electronic materials. <i>APL Materials</i> , 2015, 3, .	2.2	26
72	Reinterpretation of the Expected Electronic Density of States of Semiconductor Nanowires. <i>Nano Letters</i> , 2015, 15, 88-95.	4.5	9

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73	Hidden spin polarization in inversion-symmetric bulk crystals. <i>Nature Physics</i> , 2014, 10, 387-393.	6.5	400
74	Assessing capability of semiconductors to split water using ionization potentials and electron affinities only. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3706.	1.3	226
75	Structurally unstable BiO_3 perovskites are predicted to be topological insulators but their stable structural forms are trivial band insulators. <i>Physical Review B</i> , 2014, 90, .	1.1	21
76	A polarity-induced defect mechanism for conductivity and magnetism at polar/nonpolar oxide interfaces. <i>Nature Communications</i> , 2014, 5, 5118.	5.8	247
77	Self-Doping and Electrical Conductivity in Spinel Oxides: Experimental Validation of Doping Rules. <i>Chemistry of Materials</i> , 2014, 26, 1867-1873.	3.2	35
78	2D optical photon echo spectroscopy of a self-assembled quantum dot. <i>Annalen Der Physik</i> , 2013, 525, 31-42.	0.9	11
79	Crystal structures and metastability of carbon-boron compounds C_3B and C_3B_2 . <i>Physical Review B</i> , 2013, 87, .	1.1	22
80	$\text{Li}_2\text{Cr}_2\text{MnO}_4$: A New p-Type Transparent Conducting Oxide by Computational Materials Design. <i>Advanced Functional Materials</i> , 2013, 23, 5267-5276.	7.8	57
81	Theoretical Prediction and Experimental Realization of New Stable Inorganic Materials Using the Inverse Design Approach. <i>Journal of the American Chemical Society</i> , 2013, 135, 10048-10054.	6.6	111
82	Inverse Design of High Absorption Thin-Film Photovoltaic Materials. <i>Advanced Energy Materials</i> , 2013, 3, 43-48.	10.2	316
83	Genetic design of enhanced valley splitting towards a spin qubit in silicon. <i>Nature Communications</i> , 2013, 4, 2396.	5.8	49
84	On the Nature of the Magnetism-Promoting States in Dilute Magnetic Semiconductor and Oxide Thin Films. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013, 8, 466-471.	0.1	1
85	Influence of the atomic-scale structure on the exciton fine-structure splitting in InGaAs and GaAs quantum dots in a vertical electric field. <i>Physical Review B</i> , 2012, 86, .	1.1	17
86	Dissecting biexciton wave functions of self-assembled quantum dots by double-quantum-coherence optical spectroscopy. <i>Physical Review B</i> , 2012, 86, .	1.1	10
87	Genetic-Algorithm Discovery of a Direct-Gap and Optically Allowed Superstructure from Indirect-Gap Si and Ge Semiconductors. <i>Physical Review Letters</i> , 2012, 108, 027401.	2.9	103
88	Three-dimensional assemblies of semiconductor quantum dots in a wide-gap matrix providing an intermediate band for absorption. <i>Journal of Applied Physics</i> , 2012, 112, 114320.	1.1	9
89	Extracting E_c versus k effective band structure from supercell calculations on alloys and impurities. <i>Physical Review B</i> , 2012, 85, .	1.1	338
90	Correcting density functional theory for accurate predictions of compound enthalpies of formation: Fitted elemental-phase reference energies. <i>Physical Review B</i> , 2012, 85, .	1.1	454

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91	Genomic Design of Strong Direct-Gap Optical Transition in Si/Ge Core/Multishell Nanowires. Nano Letters, 2012, 12, 984-991.	4.5	54
92	Band-structure, optical properties, and defect physics of the photovoltaic semiconductor SnS. Applied Physics Letters, 2012, 100, .	1.5	382
93	Identification of Potential Photovoltaic Absorbers Based on First-Principles Spectroscopic Screening of Materials. Physical Review Letters, 2012, 108, 068701.	2.9	497
94	Angle-resolved photoemission and quasiparticle calculation of ZnO: The need for d band shift in oxide semiconductors. Physical Review B, 2012, 86, .	1.1	56
95	Large insulating gap in topological insulators induced by negative spin-orbit splitting. Physical Review B, 2012, 86, .	1.1	26
96	Two-Dimensional Polaronic Behavior in the Binary Oxides m and m_2 compounds via first-principles thermodynamics. Physical Review B, 2012, 86, .	2.9	36
97	Ab initio theory of phase stability and structural selectivity in Fe-Pd alloys. Physical Review B, 2012, 85, .	1.1	36
98	Prediction of B_4 compounds via first-principles thermodynamics. Physical Review B, 2012, 86, .	1.1	46
99	Sorting Stable versus Unstable Hypothetical Compounds: The Case of Multi-Functional ABX Half-Heusler Filled Tetrahedral Structures. Advanced Functional Materials, 2012, 22, 1425-1435.	7.8	107
100	Band or Polaron: The Hole Conduction Mechanism in the p -type Spinel Rh_2ZnO_4 . Journal of the American Ceramic Society, 2012, 95, 269-274.	1.9	48
101	Co ₃ O ₄ –Co ₂ ZnO ₄ spinels: The case for a solid solution. Journal of Solid State Chemistry, 2012, 190, 143-149.	1.4	15
102	Using design principles to systematically plan the synthesis of hole-conducting transparent oxides: VO_3 and Ag_4VO_4 Comment on "Intrinsic-type Behavior in Transparent Conducting Oxides: A Comparative Hybrid-Functional Study of In_2O_3 , SnO_2 , and ZnO ". Physical Review Letters, 2011, 106, 069601; author reply 069602.	1.1	38
103	Comment on "Intrinsic-type Behavior in Transparent Conducting Oxides: A Comparative Hybrid-Functional Study of In_2O_3 , SnO_2 , and ZnO ". Physical Review Letters, 2011, 106, 069601; author reply 069602.	2.9	33
104	Localized interface states in coherent isovalent semiconductor heterojunctions. Physical Review B, 2011, 84, .	1.1	11
105	False-positive and false-negative assignments of topological insulators in density functional theory and hybrids. Physical Review B, 2011, 84, .	1.1	93
106	Matrix-embedded silicon quantum dots for photovoltaic applications: a theoretical study of critical factors. Energy and Environmental Science, 2011, 4, 2546.	15.6	72
107	Learning to Predict Physical Properties using Sums of Separable Functions. SIAM Journal of Scientific Computing, 2011, 33, 3381-3401.	1.3	10
108	Universal Electrostatic Origin of Cation Ordering in A_2BO_4 Spinel Oxides. Journal of the American Chemical Society, 2011, 133, 11649-11654.	6.6	71

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109	Doping Rules and Doping Prototypes in A_2BO_4 Spinel Oxides. Advanced Functional Materials, 2011, 21, 4493-4501.	7.8	176
110	Iron Chalcogenide Photovoltaic Absorbers. Advanced Energy Materials, 2011, 1, 748-753.	10.2	138
111	Publisher's Note: Localized interface states in coherent isovalent semiconductor heterojunctions [Phys. Rev. B 84 (2011)]. Physical Review B, 2011, 84, .	1.1	0
112	Asymmetric cation nonstoichiometry in spinels: Site occupancy in Co_2ZnO_4 and Rh_4	1.1	25
113	Geometry of epitaxial GaAs/(Al,Ga)As quantum dots as seen by excitonic spectroscopy. Physical Review B, 2011, 84, .	1.1	16
114	Absence of intrinsic spin splitting in one-dimensional quantum wires of tetrahedral semiconductors. Physical Review B, 2011, 84, .	1.1	24
115	Excitons and excitonic fine structures in Si nanowires: Prediction of an electronic state crossover with diameter changes. Physical Review B, 2011, 84, .	1.1	15
116	Nonstoichiometry and hole doping in NiO. AIP Conference Proceedings, 2010, , .	0.3	24
117	Diagrammatic Separation of Different Crystal Structures of A_2BX_4 Compounds Without Energy Minimization: A Pseudopotential Orbital Radii Approach. Advanced Functional Materials, 2010, 20, 1944-1952.	7.8	51
118	Altered Reactivity and the Emergence of Ionic Metal Ordered Structures in Li-Cs at High Pressures. Physical Review Letters, 2010, 104, 245501.	2.9	17
119	Bridging the gap between atomic microstructure and electronic properties of alloys: The case of (In,Ga)N. Physical Review B, 2010, 82, .	1.1	39
120	The electronic consequences of multivalent elements in inorganic solar absorbers: Multivalency of Sn in Cu_2ZnSnS_4 . Applied Physics Letters, 2010, 96, .	1.5	113
121	Design Principles and Coupling Mechanisms in the 2D Quantum Well Topological Insulator HgTe/CdTe. Physical Review Letters, 2010, 105, 176805.	2.9	31
122	Discovery of a Novel Linear-in- k Spin Splitting for Holes in the 2D GaAs/AlAs System. Physical Review Letters, 2010, 104, 066405.	2.9	41
123	Many-body calculation of the oxygen vacancy in ZnO. Physical Review B, 2010, 81, .	1.1	147
124	Structure prediction and targeted synthesis: A new NnN_2 diazenide crystalline structure. Journal of Chemical Physics, 2010, 133, 194504.	1.2	17
125	Dual nature of acceptors in GaN and ZnO: The curious case of the shallow MgGa deep state. Applied Physics Letters, 2010, 96, .	1.5	101
126	Wide InP Nanowires with Wurtzite/Zincblende Superlattice Segments Are Type-II whereas Narrower Nanowires Become Type-I: An Atomistic Pseudopotential Calculation. Nano Letters, 2010, 10, 4055-4060.	4.5	76

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127	Generalized Koopmans density functional calculations reveal the deep acceptor state of ZnO . Physical Review B, 2010, 81, .	1.1	135
128	Simple Point-Ion Electrostatic Model Explains the Cation Distribution in Spinel Oxides. Physical Review Letters, 2010, 105, 075501.	2.9	48
129	Effective Band Structure of Random Alloys. Physical Review Letters, 2010, 104, 236403.	2.9	204
130	Oxidation numbers as Social Security Numbers: Are they predictive or postdictive?. Nature Precedings, 2009, , .	0.1	2
131	Prediction of ordering and spontaneous rotation of epitaxial habits in substrate-coherent InGaN and GaAsSb. Applied Physics Letters, 2009, 95, 081901.	1.5	3
132	Long-range order instead of phase separation in large lattice-mismatch isovalent AX_3BX_3 systems. Physical Review B, 2009, 80, .	1.1	5
133	First-principles determination of low-temperature order and ground states of Fe-Ni, Fe-Pd, and Fe-Pt. Physical Review B, 2009, 80, .	1.1	53
134	Coexistence and coupling of zero-dimensional, two-dimensional, and continuum resonances in nanostructures. Physical Review B, 2009, 80, .	1.1	20
135	Electronic structure, donor and acceptor transitions, and magnetism of ZnO impurities in ZnO . Physical Review B, 2009, 79, .	1.1	104
136	Rules of peak multiplicity and peak alignment in multiexcitonic spectra of (In,Ga)As quantum dots. Physical Review B, 2009, 79, .	1.1	7
137	II-VI oxides phase separate whereas the corresponding carbonates order: The stabilizing role of anionic groups. Physical Review B, 2009, 80, .	1.1	3
138	Spectral barcoding of quantum dots: Deciphering structural motifs from the excitonic spectra. Physical Review B, 2009, 80, .	1.1	19
139	Strain-induced localized states within the matrix continuum of self-assembled quantum dots. Applied Physics Letters, 2009, 95, 023108.	1.5	20
140	Understanding the physics of Carrier-Multiplication and intermediate-band solar cells based on nanostructures - What is going on?. , 2009, , .		1
141	Long- and short-range electron-hole exchange interaction in different types of quantum dots. New Journal of Physics, 2009, 11, 123024.	1.2	19
142	Local density formalism approach to cohesive properties of solids: Diamond, BN, and LiF. International Journal of Quantum Chemistry, 2009, 12, 539-546.	1.0	0
143	Atomistic pseudopotential calculations of thickness-fluctuation GaAs quantum dots. Physical Review B, 2009, 79, .	1.1	24
144	Direct observation of the structure of band-edge biexcitons in colloidal semiconductor CdSe quantum dots. Physical Review B, 2009, 80, .	1.1	93

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145	Thermodynamic theory of epitaxial alloys: first-principles mixed-basis cluster expansion of (In, Ga)N alloy film. Journal of Physics Condensed Matter, 2009, 21, 295402.	0.7	13
146	Polaronic hole localization and multiple hole binding of acceptors in oxide wide-gap semiconductors. Physical Review B, 2009, 80, .	1.1	350
147	Full-Zone Spin Splitting for Electrons and Holes in Bulk GaAs and GaSb. Physical Review Letters, 2009, 102, 056405.	2.9	47
148	Predicting stable stoichiometries of compounds via evolutionary global space-group optimization. Physical Review B, 2009, 80, .	1.1	54
149	Possible pitfalls in theoretical determination of ground-state crystal structures: The case of platinum nitride. Physical Review B, 2009, 79, .	1.1	35
150	Effect of atomic-scale randomness on the optical polarization of semiconductor quantum dots. Physical Review B, 2009, 79, .	1.1	47
151	Electronic Correlation in Anion p Orbitals Impedes Ferromagnetism due to Cation Vacancies in Zn Chalcogenides. Physical Review Letters, 2009, 103, 016404.	2.9	101
152	Direct-Bandgap InAs Quantum-Dots Have Long-Range Electron-Hole Exchange whereas Indirect Gap Si Dots Have Short-Range Exchange. Nano Letters, 2009, 9, 2648-2653.	4.5	15
153	Accurate prediction of defect properties in density functional supercell calculations. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 084002.	0.8	327
154	Internal electronic structure and fine structure of multiexcitons in semiconductor quantum dots. Physical Review B, 2009, 80, .	1.1	26
155	Charge self-regulation upon changing the oxidation state of transition metals in insulators. Nature, 2008, 453, 763-766.	13.7	241
156	Thermodynamic states and phase diagrams for bulk-incoherent, bulk-coherent, and epitaxially-coherent semiconductor alloys: Application to cubic (Ga,In)N. Physical Review B, 2008, 77, .	1.1	62
157	Theoretical and experimental examination of the intermediate-band concept for strain-balanced (In,Ga)As/Ga(As,P) quantum dot solar cells. Physical Review B, 2008, 78, .	1.1	215
158	Intrinsic D Centers in Ternary Chalcopyrite Semiconductors. Physical Review Letters, 2008, 100, 016401.	2.9	137
159	Relative stability, electronic structure, and magnetism of MnN and (Ga,Mn)N alloys. Physical Review B, 2008, 78, .	1.1	39
160	Control of Ferromagnetism via Electron Doping in In_2O_3 . Physical Review Letters, 2008, 101, 987203.	2.9	70
161	Dots Offering an Efficient On-Demand Entangled $1.55\text{-}\mu\text{m}$ Quantum Magnetic Interactions of InP . Physical Review Letters, 2008, 101, 987203.	2.9	56
162	Magnetic Interactions of Co Pairs in ZnO within. Physical Review Letters, 2008, 101, 987203.	1.1	139

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163	Atomic Control of Conductivity Versus Ferromagnetism in Wide-Gap Oxides Via Selective Doping: V, Nb, Ta in Anatase TiO_2 . Physical Review Letters, 2008, 100, 036601.	2.9	161
164	Carrier Multiplication in Semiconductor Nanocrystals: Theoretical Screening of Candidate Materials Based on Band-Structure Effects. Nano Letters, 2008, 8, 3174-3181.	4.5	80
165	Assessment of correction methods for the band-gap problem and for finite-size effects in supercell defect calculations: Case studies for ZnO and GaAs. Physical Review B, 2008, 78, .	1.1	1,035
166	Examining Förster Energy Transfer for Semiconductor Nanocrystalline Quantum Dot Donors and Acceptors. Journal of Physical Chemistry C, 2008, 112, 13336-13341.	1.5	104
167	Pseudopotential calculations of band gaps and band edges of short-period $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum dots. Physical Review B, 2008, 78, .	1.1	35
168	Quantum-size-induced electronic transitions in quantum dots: Indirect band-gap GaAs. Physical Review B, 2008, 78, .	1.1	30
169	Finding the lowest-energy crystal structure starting from randomly selected lattice vectors and atomic positions: first-principles evolutionary study of the Au-Pd, Cd-Pt, Al-Sc, Cu-Pd, Pd-Ti, and Ir-N binary systems. Journal of Physics Condensed Matter, 2008, 20, 295212.	0.7	26
170	Excited-state relaxation in PbSe quantum dots. Journal of Chemical Physics, 2008, 128, 164720.	1.2	47
171	Limitation of the open-circuit voltage due to metastable intrinsic defects in $\text{Cu}(\text{In,Ga})\text{Se}_2$ and strategies to avoid these defects. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	7
172	Using superlattice ordering to reduce the band gap of random (In,Ga)As/InP alloys to a target value via the inverse band structure approach. Physical Review B, 2008, 78, .	1.1	5
173	Publisher's Note: Thermodynamic states and phase diagrams for bulk-incoherent, bulk-coherent, and epitaxially-coherent semiconductor alloys: Application to cubic (Ga,In)N [Phys. Rev. B 77, 205201 (2008)]. Physical Review B, 2008, 77, .	1.1	0
174	Identifying the minimum-energy atomic configuration on a lattice: Lamarckian twist on Darwinian evolution. Physical Review B, 2008, 78, .	1.1	32
175	Band-Gap Design of Quaternary (In,Ga)(As,Sb) Semiconductors via the Inverse-Band-Structure Approach. Physical Review Letters, 2008, 100, 186403.	2.9	43
176	Evolution of ordered domains in fcc Cu_3Au alloy. Journal of Physics Condensed Matter, 2007, 19, 086201.	0.7	5
177	Pauli blocking versus electrostatic attenuation of optical transition intensities in charged PbSe quantum dots. Physical Review B, 2007, 76, .	1.1	21
178	Calculation of near-field scanning optical images of exciton, charged-exciton, and multiexciton wave functions in self-assembled $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum dots. Physical Review B, 2007, 76, .	1.1	7
179	Electronic structures of $(\text{In,Ga})\text{As}^+\text{GaAs}$ quantum dot molecules made of dots with dissimilar sizes. Physical Review B, 2007, 75, .	1.1	12
180	Global space-group optimization problem: Finding the stablest crystal structure without constraints. Physical Review B, 2007, 75, .	1.1	148

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181	Strain-Minimizing Tetrahedral Networks of Semiconductor Alloys. Physical Review Letters, 2007, 99, 145501.	2.9	26
182	Calculation of conduction-to-conduction and valence-to-valence transitions between bound states in (In,Ga)As/GaAs quantum dots. Physical Review B, 2007, 75, .	1.1	23
183	Finding the atomic configuration with a required physical property in multi-atom structures. Journal of Physics Condensed Matter, 2007, 19, 402201.	0.7	17
184	Dopability, Intrinsic Conductivity, and Nonstoichiometry of Transparent Conducting Oxides. Physical Review Letters, 2007, 98, 045501.	2.9	577
185	Impurity Clustering and Ferromagnetic Interactions that are not Carrier Induced in Dilute Magnetic Semiconductors: The Case of Cu ₂ O/Co. Physical Review Letters, 2007, 99, 167203.	2.9	43
186	Origins of the doping asymmetry in oxides: Hole doping in NiO versus electron doping in ZnO. Physical Review B, 2007, 75, .	1.1	218
187	Lifetime and polarization of the radiative decay of excitons, biexcitons, and trions in CdSe nanocrystal quantum dots. Physical Review B, 2007, 75, .	1.1	96
188	Origins of the p -type nature and cation deficiency in Cu_2O and related materials. Physical Review B, 2007, 76, .	1.1	456
189	New insights on chalcopyrites from solid-state theory. Thin Solid Films, 2007, 515, 6160-6162.	0.8	20
190	The Peculiar Electronic Structure of PbSe Quantum Dots. Nano Letters, 2006, 6, 2728-2735.	4.5	161
191	Searching for Alloy Configurations with Target Physical Properties: Impurity Design via a Genetic Algorithm Inverse Band Structure Approach. Physical Review Letters, 2006, 97, 046401.	2.9	79
192	Multiple charging of InAs/GaAs quantum dots by electrons or holes: Addition energies and ground-state configurations. Physical Review B, 2006, 73, .	1.1	32
193	Light- and bias-induced metastabilities in $\text{Cu}(\text{In,Ga})\text{Se}_2$ based solar cells caused by the $(V_{\text{Tj}})^{-1}$ overpotential. Physical Review Letters, 2006, 96, 077401.	1.1	302
194	Effects of linear and nonlinear piezoelectricity on the electronic properties of InAs/GaAs quantum dots. Physical Review B, 2006, 74, .	1.1	135
195	Excitonic exchange effects on the radiative decay time of monoexcitons and biexcitons in quantum dots. Physical Review B, 2006, 74, .	1.1	41
196	Carrier relaxation mechanisms in self-assembled (In,Ga)As/GaAs quantum dots: Efficient Auger relaxation of electrons. Physical Review B, 2006, 74, .	1.1	71
197	Importance of Second-Order Piezoelectric Effects in Zinc-Blende Semiconductors. Physical Review Letters, 2006, 96, 187602.	2.9	197
198	Theoretical predictions of the electronic and optical properties of single and coupled (In,Ga)As/GaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 93-96.	1.3	8

#	ARTICLE	IF	CITATIONS
199	Nominally forbidden transitions in the interband optical spectrum of quantum dots. Physical Review B, 2006, 74, .	1.1	14
200	Prediction of unusual stable ordered structures of Au-Pd alloys via a first-principles cluster expansion. Physical Review B, 2006, 74, .	1.1	71
201	Structural stability of (Ga,Mn)As from first principles: Random alloys, ordered compounds, and superlattices. Physical Review B, 2006, 74, .	1.1	11
202	Nitrogen-induced perturbation of the valence band states in Ga _{1-x} N _x alloys. Physical Review B, 2006, 74, .	1.1	12
203	NanoPSE: Nanoscience Problem Solving Environment for atomistic electronic structure of semiconductor nanostructures. Journal of Physics: Conference Series, 2005, 16, 277-282.	0.3	3
204	Prediction of ordered structures in the bcc binary systems of Mo, Nb, Ta, and W from first-principles search of approximately 3,000,000 possible configurations. Physical Review B, 2005, 72, .	1.1	53
205	Evolutionary approach for determining first-principles hamiltonians. Nature Materials, 2005, 4, 391-394.	13.3	285
206	Dependence of the electronic structure of self-assembled (In,Ga)As/GaAs quantum dots on height and composition. Journal of Applied Physics, 2005, 98, 043708.	1.1	43
207	The Inverse Band Structure Approach: Find the Atomic Configuration that has Desired Electronic Properties. AIP Conference Proceedings, 2005, , .	0.3	0
208	Evolution Of The Band Gaps And Band Edges Of Quaternary Ga _{1-y} In _y As _x Sb _{1-x} /InAs Alloys As A Function of Composition. AIP Conference Proceedings, 2005, , .	0.3	0
209	Origin of transition metal clustering tendencies in GaAs based dilute magnetic semiconductors. Applied Physics Letters, 2005, 86, 172504.	1.5	42
210	Practical rules for orbital-controlled ferromagnetism of 3d impurities in semiconductors. Journal of Applied Physics, 2005, 98, 113901.	1.1	21
211	Using genetic algorithms to map first-principles results to model Hamiltonians: Application to the generalized Ising model for alloys. Physical Review B, 2005, 72, .	1.1	130
212	Electric field control and optical signature of entanglement in quantum dot molecules. Physical Review B, 2005, 72, .	1.1	33
213	Electronic asymmetry in self-assembled quantum dot molecules made of identical InAs/GaAs quantum dots. Physical Review B, 2005, 72, .	1.1	22
214	Singlet-triplet splitting, correlation, and entanglement of two electrons in quantum dot molecules. Physical Review B, 2005, 72, .	1.1	37
215	Broken symmetry and quantum entanglement of an exciton in In _x Ga _{1-x} As/GaAs quantum dot molecules. Physical Review B, 2005, 71, .	1.1	69
216	Electronic Phase Diagrams of Carriers in Self-Assembled Quantum Dots: Violation of Hund's Rule and the Aufbau Principle for Holes. Physical Review Letters, 2005, 95, 246804.	2.9	31

#	ARTICLE	IF	CITATIONS
217	Evolution of the band-gap and band-edge energies of the lattice-matched $\text{GaInAsSb}^{\wedge}\text{-GaSb}$ and $\text{GaInAsSb}^{\wedge}\text{-InAs}$ alloys as a function of composition. <i>Journal of Applied Physics</i> , 2005, 98, 043701.	1.1	35
218	Zinc-blende half-metallic ferromagnets are rarely stabilized by coherent epitaxy. <i>Physical Review B</i> , 2005, 71, .	1.1	68
219	Pressure effects on neutral and charged excitons in self-assembled $(\text{In,Ga})\text{As}^{\wedge}\text{-GaAs}$ quantum dots. <i>Physical Review B</i> , 2005, 72, .	1.1	17
220	Publisher's Note: Broken symmetry and quantum entanglement of an exciton in $\text{In}_x\text{Ga}_{1-x}\text{As}^{\wedge}\text{-GaAs}$ quantum dot molecules [Phys. Rev. B71, 075325 (2005)]. <i>Physical Review B</i> , 2005, 71, .	1.1	1
221	Publisher's Note: Prediction of ordered structures in the bcc binary systems of Mo, Nb, Ta, and W from first-principles search of approximately 3,000,000 possible configurations [Phys. Rev. B72, 020104(R) (2005)]. <i>Physical Review B</i> , 2005, 72, .	1.1	1
222	Publisher's Note: Singlet-triplet splitting, correlation, and entanglement of two electrons in quantum dot molecules [Phys. Rev. B72, 195307 (2005)]. <i>Physical Review B</i> , 2005, 72, .	1.1	5
223	Halogen n-type doping of chalcopyrite semiconductors. <i>Applied Physics Letters</i> , 2005, 86, 042109.	1.5	36
224	Compositionally induced valence-band offset at the grain boundary of polycrystalline chalcopyrites creates a hole barrier. <i>Applied Physics Letters</i> , 2005, 87, 211904.	1.5	133
225	Cylindrically shaped zinc-blende semiconductor quantum dots do not have cylindrical symmetry: Atomistic symmetry, atomic relaxation, and piezoelectric effects. <i>Physical Review B</i> , 2005, 71, .	1.1	203
226	Temperature Dependence of Excitonic Radiative Decay in CdSe Quantum Dots: The Role of Surface Hole Traps. <i>Nano Letters</i> , 2005, 5, 2360-2364.	4.5	179
227	n-type doping of CuInSe_2 and CuGaSe_2 . <i>Physical Review B</i> , 2005, 72, .	1.1	429
228	Excitons, biexcitons, and trions in self-assembled $(\text{In,Ga})\text{As}^{\wedge}\text{-GaAs}$ quantum dots: Recombination energies, polarization, and radiative lifetimes versus dot height. <i>Physical Review B</i> , 2005, 72, .	1.1	93
229	Prediction of an Excitonic Ground State in InAs/InSb Quantum Dots. <i>Physical Review Letters</i> , 2005, 94, 016801.	2.9	26
230	Anion vacancies as a source of persistent photoconductivity in II-VI and chalcopyrite semiconductors. <i>Physical Review B</i> , 2005, 72, .	1.1	569
231	Comparison of predicted ferromagnetic tendencies of Mn substituting the Ga site in $\text{III}^{\wedge}\text{V}^{\wedge}\text{TM}_2$ and in $\text{III}^{\wedge}\text{VI}_2$ chalcopyrite semiconductors. <i>Applied Physics Letters</i> , 2004, 84, 3753-3755.	1.5	32
232	Electronic structure and ferromagnetism of Mn-substituted CuAlS_2 , CuGaS_2 , CuInS_2 , CuGaSe_2 , and CuGaTe_2 . <i>Physical Review B</i> , 2004, 69, .	1.1	50
233	Type I to type II transition at the interface between random and ordered domains of $\text{Al}_x\text{Ga}_{1-x}\text{N}$ alloys. <i>Applied Physics Letters</i> , 2004, 84, 1874-1876.	1.5	17
234	Structural complexity in binary bcc ground states: The case of bcc Mo-Ta. <i>Physical Review B</i> , 2004, 69, .	1.1	56

#	ARTICLE	IF	CITATIONS
235	Theory of Excitonic Spectra and Entanglement Engineering in Dot Molecules. <i>Physical Review Letters</i> , 2004, 93, 047401.	2.9	85
236	Penetration of electronic perturbations of dilute nitrogen impurities deep into the conduction band of GaP $_{1-x}$ N $_x$. <i>Physical Review B</i> , 2004, 70, .	1.1	13
237	Why can CuInSe ₂ be readily equilibrium-doped n-type but the wider-gap CuGaSe ₂ cannot?. <i>Applied Physics Letters</i> , 2004, 85, 5860-5862.	1.5	72
238	Mixed-basis cluster expansion for thermodynamics of bcc alloys. <i>Physical Review B</i> , 2004, 70, .	1.1	95
239	Theory of excitons, charged excitons, exciton fine-structure and entangled excitons in self-assembled semiconductor quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 204-210.	1.3	6
240	Anisotropy of interband transitions in InAs quantum wires: An atomistic theory. <i>Physical Review B</i> , 2004, 70, .	1.1	30
241	Strain-induced interfacial hole localization in self-assembled quantum dots: Compressive InAs/GaAs versus tensile InAs/InSb. <i>Physical Review B</i> , 2004, 70, .	1.1	45
242	Efficient Inverse Auger Recombination at Threshold in CdSe Nanocrystals. <i>Nano Letters</i> , 2004, 4, 525-531.	4.5	77
243	Direct carrier multiplication due to inverse Auger scattering in CdSe quantum dots. <i>Applied Physics Letters</i> , 2004, 84, 2409-2411.	1.5	100
244	Trends in ferromagnetism, hole localization, and acceptor level depth for Mn substitution in GaN, GaP, GaAs, and GaSb. <i>Applied Physics Letters</i> , 2004, 85, 2860-2862.	1.5	69
245	Metal-Dimer Atomic Reconstruction Leading to Deep Donor States of the Anion Vacancy in II-VI and Chalcopyrite Semiconductors. <i>Physical Review Letters</i> , 2004, 93, 156404.	2.9	64
246	First-principles investigation of the assumptions underlying model-Hamiltonian approaches to ferromagnetism of 3d impurities in III-V semiconductors. <i>Physical Review B</i> , 2004, 69, .	1.1	133
247	Site preference for Mn substitution in spintronic CuMnX ₂ chalcopyrite semiconductors. <i>Physical Review B</i> , 2004, 69, .	1.1	45
248	Unusual Directional Dependence of Exchange Energies in GaAs Diluted with Mn: Is the RKKY Description Relevant?. <i>Physical Review Letters</i> , 2004, 93, 177201.	2.9	141
249	Defect-induced nonpolar-to-polar transition at the surface of CuInSe ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 1547-1552.	1.9	19
250	Anomalous Grain Boundary Physics in Polycrystalline CuInSe ₂ : The Existence of a Hole Barrier. <i>Physical Review Letters</i> , 2003, 91, 266401.	2.9	305
251	Ferromagnetism in Mn-doped GaAs due to substitutional-interstitial complexes. <i>Physical Review B</i> , 2003, 68, .	1.1	119
252	Pseudopotential Theory of Auger Processes in CdSe Quantum Dots. <i>Physical Review Letters</i> , 2003, 91, 056404.	2.9	254

#	ARTICLE	IF	CITATIONS
253	Prediction of a Shape-Induced Enhancement in the Hole Relaxation in Nanocrystals. Nano Letters, 2003, 3, 1197-1202.	4.5	41
254	Pseudopotential calculation of the excitonic fine structure of million-atom self-assembled $\text{In}_{1-x}\text{Ga}_x\text{As}/\text{GaAs}$ quantum dots. Physical Review B, 2003, 67, .	1.1	316
255	Practical doping principles. Applied Physics Letters, 2003, 83, 57-59.	1.5	364
256	Cluster-Doping Approach for Wide-Gap Semiconductors: The Case of p-Type ZnO. Physical Review Letters, 2003, 90, 256401.	2.9	243
257	s-d coupling in zinc-blende semiconductors. Physical Review B, 2003, 68, .	1.1	67
258	Ordering tendencies in octahedral MgO-ZnO alloys. Physical Review B, 2003, 68, .	1.1	69
259	Predicting interband transition energies for InAs/GaSb superlattices using the empirical pseudopotential method. Physical Review B, 2003, 68, .	1.1	14
260	Deep nitrogen-induced valence- and conduction-band states in $\text{GaAs}_{1-x}\text{N}_x$. Physical Review B, 2003, 68, .	1.1	20
261	Optical consequences of long-range order in wurtzite $\text{Al}_x\text{Ga}_{1-x}\text{N}$ alloys. Physical Review B, 2003, 68, .	1.1	14
262	Failure of nitrogen cluster states to emerge into the bandgap of GaAsN with application of pressure. Applied Physics Letters, 2003, 82, 559-561.	1.5	33
263	Adaptive Crystal Structures: CuAu and NiPt. Physical Review Letters, 2003, 90, 045502.	2.9	50
264	Why are the 3d-5d compounds CuAu and NiPt stable, whereas the 3d-4d compounds CuAg and NiPd are not. Physical Review B, 2003, 67, .	1.1	32
265	n-type doping and passivation of CuInSe_2 and CuGaSe_2 by hydrogen. Physical Review B, 2003, 68, .	1.1	28
266	Doping of chalcopyrites by hydrogen. Applied Physics Letters, 2003, 83, 2007-2009.	1.5	16
267	Compositional and size-dependent spectroscopic shifts in charged self-assembled $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ quantum dots. Physical Review B, 2003, 68, .	1.1	47
268	Dilute nonisovalent (II-VI)-(III-V) semiconductor alloys: Monodoping, codoping, and cluster doping in ZnSe-GaAs. Physical Review B, 2003, 68, .	1.1	20
269	Theory of optical properties of III-V superlattices: The role of the interfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 1896.	1.6	11
270	Pseudopotential theory of dilute III-V nitrides. Semiconductor Science and Technology, 2002, 17, 851-859.	1.0	76

#	ARTICLE	IF	CITATIONS
271	Obtaining Ising-like expansions for binary alloys from first principles. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 685-706.	0.8	81
272	First-principles kinetic theory of precipitate evolution in Al-Zn alloys. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 131-145.	0.8	29
273	Atomistic description of the electronic structure of $\text{In}_x\text{Ga}_{1-x}\text{As}$ alloys and InAs/GaAs superlattices. Physical Review B, 2002, 66, .	1.1	49
274	Biaxial strain-modified valence and conduction band offsets of zinc-blende GaN, GaP, GaAs, InN, InP, and InAs, and optical bowing of strained epitaxial InGaN alloys. Applied Physics Letters, 2002, 81, 4377-4379.	1.5	48
275	Effects of interfacial atomic segregation and intermixing on the electronic properties of InAs/GaSb superlattices. Physical Review B, 2002, 65, .	1.1	101
276	Origins of Coexistence of Conductivity and Transparency in SnO_2 . Physical Review Letters, 2002, 88, 095501.	2.9	809
277	n-type doping of oxides by hydrogen. Applied Physics Letters, 2002, 81, 73-75.	1.5	276
278	Room-Temperature Ferromagnetism in Mn-Doped Semiconducting CdGeP_2 . Physical Review Letters, 2002, 88, 047205.	2.9	85
279	Negative band gap bowing in epitaxial InAs/GaAs alloys and predicted band offsets of the strained binaries and alloys on various substrates. Applied Physics Letters, 2002, 80, 3105-3107.	1.5	14
280	On the Farsightedness (hyperopia) of the Standard $k \cdot r \approx 1/2$ p Model. Physica Status Solidi A, 2002, 190, 467-475.	1.7	42
281	Segregation effects on the optical properties of (InAs)/(GaSb) superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 325-328.	1.3	9
282	Phosphorus and sulphur doping of diamond. Physical Review B, 2002, 66, .	1.1	98
283	On the Farsightedness (hyperopia) of the Standard $k \cdot r \approx 1$ p Model. , 2002, 190, 467.		2
284	Electronic structure consequences of In/Ga composition variations in self-assembled $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ alloy quantum dots. Physical Review B, 2001, 64, .	1.1	76
285	Evolution of III-V Nitride Alloy Electronic Structure: The Localized to Delocalized Transition. Physical Review Letters, 2001, 86, 2613-2616.	2.9	248
286	Defect-induced nonpolar-to-polar transition at the surface of chalcopyrite semiconductors. Physical Review B, 2001, 64, .	1.1	117
287	Theory of electronic structure evolution in GaAsN and GaPN alloys. Physical Review B, 2001, 64, .	1.1	385
288	Carrier localization and the origin of luminescence in cubic InGaN alloys. Applied Physics Letters, 2001, 79, 1977-1979.	1.5	94

#	ARTICLE	IF	CITATIONS
289	Spatial Correlations in GaInAsN Alloys and their Effects on Band-Gap Enhancement and Electron Localization. Physical Review Letters, 2001, 86, 2609-2612.	2.9	241
290	Intrinsic-type versus p-type doping asymmetry and the defect physics of ZnO. Physical Review B, 2001, 63, .	1.1	1,610
291	Correlation versus mean-field contributions to excitons, multiexcitons, and charging energies in semiconductor quantum dots. Physical Review B, 2001, 63, .	1.1	88
292	Surface-passivation-induced optical changes in Ge quantum dots. Physical Review B, 2001, 63, .	1.1	38
293	Pseudopotential Theory of Semiconductor Quantum Dots. Physica Status Solidi (B): Basic Research, 2001, 224, 727-734.	0.7	71
294	Origins of Nonstoichiometry and Vacancy Ordering in Sc_{1-x}S . Physical Review Letters, 2001, 87, 275508.	2.9	27
295	Effects of interfacial atomic segregation on optical properties of InAs/GaSb superlattices. Physical Review B, 2001, 64, .	1.1	40
296	Reply to "Comment on "First-principles theory of the evolution of vibrational properties with long-range order in GaInP ₂ ". Physical Review B, 2001, 63, .	1.1	5
297	Exciton dissociation and interdot transport in CdSe quantum-dot molecules. Physical Review B, 2001, 63, .	1.1	12
298	Hydrogen-induced instability on the flat Si(001) surface via steric repulsion. Physical Review B, 2001, 63, .	1.1	21
299	Structure of ordered and disordered L_{1-x} -brass. Physical Review B, 2001, 63, .	1.1	90
300	First-Principles Predictions of Yet-Unobserved Ordered Structures in the Ag-Pd Phase Diagram. Physical Review Letters, 2001, 87, 165502.	2.9	58
301	Nitrogen pairs, triplets, and clusters in GaAs and GaP. Applied Physics Letters, 2001, 79, 2339-2341.	1.5	25
302	Pseudopotential Theory of Semiconductor Quantum Dots. , 2001, 224, 727.		4
303	Microscopic Origin of the Phenomenological Equilibrium "Doping Limit Rule" in n-Type III-V Semiconductors. Physical Review Letters, 2000, 84, 1232-1235.	2.9	204
304	"Crossover in the conduction-band minimum of Ge quantum dots. Physical Review B, 2000, 62, R2275-R2278.	1.1	52
305	Indium-Indium Pair Correlation and Surface Segregation in InGaAs Alloys. Physical Review Letters, 2000, 84, 3654-3657.	2.9	24
306	Pseudopotential calculations of electron and hole addition spectra of InAs, InP, and Si quantum dots. Physical Review B, 2000, 62, 2614-2623.	1.1	145

#	ARTICLE	IF	CITATIONS
307	First-principles calculation of band offsets, optical bowings, and defects in CdS, CdSe, CdTe, and their alloys. <i>Journal of Applied Physics</i> , 2000, 87, 1304-1311.	1.1	406
308	Theoretical interpretation of the experimental electronic structure of lens-shaped self-assembled InAs/GaAs quantum dots. <i>Physical Review B</i> , 2000, 62, 12963-12977.	1.1	324
309	Optical transitions in charged CdSe quantum dots. <i>Physical Review B</i> , 2000, 62, R16287-R16290.	1.1	56
310	Anticrossing and coupling of light-hole and heavy-hole states in (001)GaAs/AlxGa1-xAs heterostructures. <i>Physical Review B</i> , 2000, 62, 10364-10372.	1.1	32
311	Anticrossing semiconducting band gap in nominally semimetallic InAs/GaSb superlattices. <i>Physical Review B</i> , 2000, 61, 10235-10241.	1.1	38
312	Comparison of the $k \cdot p$ and direct diagonalization approaches to the electronic structure of InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2000, 76, 339-341.	1.5	93
313	Addition energies and quasiparticle gap of CdSe nanocrystals. <i>Applied Physics Letters</i> , 2000, 76, 1731-1733.	1.5	39
314	Electronic structure of BAs and boride III-V alloys. <i>Physical Review B</i> , 2000, 62, 13522-13537.	1.1	104
315	Short-range-order types in binary alloys: a reflection of coherent phase stability. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 2749-2768.	0.7	57
316	Pseudopotential study of electron-hole excitations in colloidal free-standing InAs quantum dots. <i>Physical Review B</i> , 2000, 61, 1978-1991.	1.1	88
317	Electronic Structure of ϵ -Sequence Mutations in Ordered GaInP ₂ Alloys. <i>Physical Review Letters</i> , 1999, 83, 2010-2013.	2.9	40
318	P-P and As-As isovalent impurity pairs in GaN: Interaction of deep levels. <i>Physical Review B</i> , 1999, 59, 9943-9953.	1.1	22
319	Magnetic destabilization of Ni ₇ Al. <i>Physical Review B</i> , 1999, 59, 12165-12168.	1.1	15
320	Fitting of accurate interatomic pair potentials for bulk metallic alloys using unrelaxed LDA energies. <i>Physical Review B</i> , 1999, 60, 1687-1696.	1.1	20
321	Instability of the high-pressure CsCl structure in most III-V semiconductors. <i>Physical Review B</i> , 1999, 60, R8449-R8452.	1.1	32
322	Electronic consequences of lateral composition modulation in semiconductor alloys. <i>Physical Review B</i> , 1999, 59, 15270-15284.	1.1	40
323	First-principles theory of cation and intercalation ordering in Li _x CoO ₂ Presented at the International Meeting on Li Batteries (IMLB), Edinburgh, July 1998. Proceedings to be published in <i>Journal of Power Sources</i> .1. <i>Journal of Power Sources</i> , 1999, 81-82, 680-684.	4.0	10
324	The inverse band-structure problem of finding an atomic configuration with given electronic properties. <i>Nature</i> , 1999, 402, 60-63.	13.7	246

#	ARTICLE	IF	CITATIONS
325	Predicted bond length variation in wurtzite and zinc-blende InGaN and AlGaN alloys. Journal of Applied Physics, 1999, 85, 160-167.	1.1	86
326	Indirect band gaps in quantum dots made from direct-gap bulk materials. Journal of Electronic Materials, 1999, 28, 414-425.	1.0	28
327	Effects of Na on the electrical and structural properties of CuInSe ₂ . Journal of Applied Physics, 1999, 85, 7214-7218.	1.1	322
328	Electronic structures of [110]-faceted self-assembled pyramidal InAs/GaAs quantum dots. Physical Review B, 1999, 59, 5678-5687.	1.1	306
329	InAs quantum dots: Predicted electronic structure of free-standing versus GaAs-embedded structures. Physical Review B, 1999, 59, 15819-15824.	1.1	126
330	Theory of Systematic Absence of NaCl-Type ($\bar{1}^2$ -Sn $\bar{4}$ -Type) High Pressure Phases in Covalent (Ionic) Semiconductors. Physical Review Letters, 1999, 82, 767-770.	2.9	107
331	Multiband coupling and electronic structure of (InAs) _n /(GaSb) _n superlattices. Physical Review B, 1999, 60, 5590-5596.	1.1	65
332	Excitonic exchange splitting in bulk semiconductors. Physical Review B, 1999, 59, 5568-5574.	1.1	94
333	Predicted band-gap pressure coefficients of all diamond and zinc-blende semiconductors: Chemical trends. Physical Review B, 1999, 60, 5404-5411.	1.1	542
334	Coherent phase stability in Al-Zn and Al-Cu fcc alloys: The role of the instability of fcc Zn. Physical Review B, 1999, 60, 16448-16462.	1.1	55
335	Linear combination of bulk bands method for large-scale electronic structure calculations on strained nanostructures. Physical Review B, 1999, 59, 15806-15818.	1.1	168
336	Resonant hole localization and anomalous optical bowing in InGaN alloys. Applied Physics Letters, 1999, 74, 1842-1844.	1.5	173
337	Localization and anticrossing of electron levels in GaAs _{1-x} N _x alloys. Physical Review B, 1999, 60, R11245-R11248.	1.1	210
338	Phonons in GaP quantum dots. Physical Review B, 1999, 59, 2881-2887.	1.1	72
339	Band structure and stability of zinc-blende-based semiconductor polytypes. Physical Review B, 1999, 59, R2478-R2481.	1.1	79
340	Elements of doping engineering in semiconductors. , 1999, , .		6
341	First-principles theory of vibrational effects on the phase stability of Cu-Au compounds and alloys. Physical Review B, 1998, 58, R5897-R5900.	1.1	123
342	Cu-Au, Ag-Au, Cu-Ag, and Ni-Au intermetallics: First-principles study of temperature-composition phase diagrams and structures. Physical Review B, 1998, 57, 6427-6443.	1.1	271

#	ARTICLE	IF	CITATIONS
343	Applicability of the k \cdot p method to the electronic structure of quantum dots. <i>Physical Review B</i> , 1998, 57, 9971-9987.	1.1	119
344	Theoretical predictions of electronic materials and their properties. <i>Current Opinion in Solid State and Materials Science</i> , 1998, 3, 32-37.	5.6	15
345	Comparison of the electronic structure of InAs/GaAs pyramidal quantum dots with different facet orientations. <i>Physical Review B</i> , 1998, 57, R9408-R9411.	1.1	143
346	A phenomenological model for systematization and prediction of doping limits in II-VI and III-VI compounds. <i>Journal of Applied Physics</i> , 1998, 83, 3192-3196.	1.1	412
347	First-principles theory of short-range order in size-mismatched metal alloys: Cu-Au, Cu-Ag, and Ni-Au. <i>Physical Review B</i> , 1998, 57, 4332-4348.	1.1	105
348	Prediction of Li Intercalation and Battery Voltages in Layered vs. Cubic Li x CoO ₂ . <i>Journal of the Electrochemical Society</i> , 1998, 145, 2424-2431.	1.3	109
349	Fingerprints of CuPt ordering in III-V semiconductor alloys: Valence-band splittings, band-gap reduction, and x-ray structure factors. <i>Physical Review B</i> , 1998, 57, 8983-8988.	1.1	103
350	Effects of atomic short-range order on the electronic and optical properties of GaAsN, GaInN, and GaInAs alloys. <i>Physical Review B</i> , 1998, 57, 4425-4431.	1.1	101
351	Effect of interfacial states on the binding energies of electrons and holes in InAs/GaAs quantum dots. <i>Physical Review B</i> , 1998, 58, 6724-6727.	1.1	34
352	Majority Representation of Alloy Electronic States. <i>Physical Review Letters</i> , 1998, 80, 4725-4728.	2.9	101
353	Prediction of a strain-induced conduction-band minimum in embedded quantum dots. <i>Physical Review B</i> , 1998, 57, R4253-R4256.	1.1	32
354	Trends in band-gap pressure coefficients in chalcopyrite semiconductors. <i>Physical Review B</i> , 1998, 58, R1710-R1713.	1.1	62
355	First-Principles Prediction of Vacancy Order-Disorder and Intercalation Battery Voltages in Li _x CoO ₂ . <i>Physical Review Letters</i> , 1998, 81, 606-609.	2.9	252
356	Deep electronic gap levels induced by isovalent P and As impurities in GaN. <i>Physical Review B</i> , 1998, 58, 1367-1373.	1.1	157
357	Calculated natural band offsets of all II-VI and III-V semiconductors: Chemical trends and the role of cation d orbitals. <i>Applied Physics Letters</i> , 1998, 72, 2011-2013.	1.5	726
358	Effects of Ga addition to CuInSe ₂ on its electronic, structural, and defect properties. <i>Applied Physics Letters</i> , 1998, 72, 3199-3201.	1.5	482
359	High-Energy Excitonic Transitions in CdSe Quantum Dots. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6449-6454.	1.2	115
360	Effects of anharmonic strain on the phase stability of epitaxial films and superlattices: Applications to noble metals. <i>Physical Review B</i> , 1998, 57, 4816-4828.	1.1	73

#	ARTICLE	IF	CITATIONS
361	Defect physics of the CuInSe_2 chalcopyrite semiconductor. <i>Physical Review B</i> , 1998, 57, 9642-9656.	1.1	1,264
362	Semiconductor Quantum Dots. <i>MRS Bulletin</i> , 1998, 23, 15-17.	1.7	34
363	Electronic structure induced by lateral composition modulation in GaInAs alloys. <i>Applied Physics Letters</i> , 1998, 72, 2144-2146.	1.5	11
364	Evaluating and improving the cluster variation method entropy functional for Ising alloys. <i>Journal of Chemical Physics</i> , 1998, 108, 2912-2918.	1.2	16
365	First-principles theory of the evolution of vibrational properties with long-range order in GaInP_2 . <i>Physical Review B</i> , 1998, 57, R9404-R9407.	1.1	39
366	Strain-induced change in the elastically soft direction of epitaxially grown face-centered-cubic metals. <i>Applied Physics Letters</i> , 1998, 72, 427-429.	1.5	15
367	Excitons in InP quantum dots. <i>Physical Review B</i> , 1998, 57, R15064-R15067.	1.1	39
368	Cation and vacancy ordering in Li_xCoO_2 . <i>Physical Review B</i> , 1998, 57, 2242-2252.	1.1	128
369	Quantum-Size Effects on the Pressure-Induced Direct-to-Indirect Band-Gap Transition in InP Quantum Dots. <i>Physical Review Letters</i> , 1998, 80, 5397-5400.	2.9	39
370	Electronic-Structure Theory of Semiconductor Quantum Dots. <i>MRS Bulletin</i> , 1998, 23, 35-42.	1.7	124
371	Response to "Comment on "Comparison of the $k\cdot p$ and the direct diagonalization approaches for describing the electronic structure of quantum dots" [Appl. Phys. Lett. 73, 1155 (1998)]. <i>Applied Physics Letters</i> , 1998, 73, 1157-1158.		13
372	Surface-reconstruction-enhanced solubility of N, P, As, and Sb in III-V semiconductors. <i>Applied Physics Letters</i> , 1997, 71, 677-679.	1.5	82
373	Bond-length distribution in tetrahedral versus octahedral semiconductor alloys: The case of $\text{Ga}_{1-x}\text{In}_x\text{N}$. <i>Physical Review B</i> , 1997, 56, 13872-13877.	1.1	20
374	Comment on "Anomalous Temperature Dependence of the X-Ray Diffuse Scattering Intensity of Cu_3Au ". <i>Physical Review Letters</i> , 1997, 79, 955-955.	2.9	13
375	Zhang and Zunger Reply:. <i>Physical Review Letters</i> , 1997, 79, 3313-3313.	2.9	6
376	Point-ion versus density functional calculations of electric field gradients in ordered GaInP_2 . <i>Journal of Chemical Physics</i> , 1997, 107, 1931-1935.	1.2	11
377	Comparison of the $k\cdot p$ and the direct diagonalization approaches for describing the electronic structure of quantum dots. <i>Applied Physics Letters</i> , 1997, 71, 3433-3435.	1.5	49
378	Prediction of charge separation in GaAs/AlAs cylindrical nanostructures. <i>Physical Review B</i> , 1997, 56, R15541-R15544.	1.1	12

#	ARTICLE	IF	CITATIONS
379	Spontaneous Atomic Ordering in Semiconductor Alloys: Causes, Carriers, and Consequences. MRS Bulletin, 1997, 22, 20-26.	1.7	108
380	First-Principles Theory of Cation and Intercalation Ordering in Li_xCoO_2 . Materials Research Society Symposia Proceedings, 1997, 496, 77.	0.1	0
381	Stabilization of Ternary Compounds via Ordered Arrays of Defect Pairs. Physical Review Letters, 1997, 78, 4059-4062.	2.9	303
382	Pseudopotential theory of nanometer silicon quantum dots. Studies in Surface Science and Catalysis, 1997, 103, 161-207.	1.5	9
383	Composition dependence of interband transition intensities in GaPN, GaAsN, and GaPAs alloys. Physical Review B, 1997, 56, 10233-10240.	1.1	137
384	InP quantum dots: Electronic structure, surface effects, and the redshifted emission. Physical Review B, 1997, 56, 1496-1508.	1.1	251
385	Local-density-derived semiempirical nonlocal pseudopotentials for InP with applications to large quantum dots. Physical Review B, 1997, 55, 1642-1653.	1.1	107
386	Direct Pseudopotential Calculation of Exciton Coulomb and Exchange Energies in Semiconductor Quantum Dots. Physical Review Letters, 1997, 78, 915-918.	2.9	241
387	Magnitude and size scaling of intervalley coupling in semiconductor alloys and superlattices. Physical Review B, 1997, 56, 12395-12403.	1.1	17
388	Million-Atom Pseudopotential Calculation of $\text{In}_x\text{Ga}_{1-x}\text{As}$ Mixing in GaAs/AlAs Superlattices and Quantum Dots. Physical Review Letters, 1997, 78, 2819-2822.	2.9	79
389	Ni-Au: A testing ground for theories of phase stability. Computational Materials Science, 1997, 8, 107-121.	1.4	50
390	Electronic and structural anomalies in lead chalcogenides. Physical Review B, 1997, 55, 13605-13610.	1.1	279
391	Band gaps of GaPN and GaAsN alloys. Applied Physics Letters, 1997, 70, 3558-3560.	1.5	164
392	Invertible and non-invertible alloy ising problems. Solid State Communications, 1997, 101, 519-523.	0.9	26
393	GaAs quantum structures: Comparison between direct pseudopotential and single-band truncated-crystal calculations. Journal of Chemical Physics, 1996, 104, 5572-5578.	1.2	25
394	Valence band splittings and band offsets of AlN, GaN, and InN. Applied Physics Letters, 1996, 69, 2719-2721.	1.5	322
395	Pseudopotential calculations of nanoscale CdSe quantum dots. Physical Review B, 1996, 53, 9579-9582.	1.1	416
396	Localization and percolation in semiconductor alloys: GaAsN vs GaAsP. Physical Review B, 1996, 54, 17568-17576.	1.1	278

#	ARTICLE	IF	CITATIONS
397	Giant and Composition-Dependent Optical Bowing Coefficient in GaAsN Alloys. <i>Physical Review Letters</i> , 1996, 76, 664-667.	2.9	526
398	Pseudopotential-based multibandk \cdot method for $\sim 1/4$ 250 000-atom nanostructure systems. <i>Physical Review B</i> , 1996, 54, 11417-11435.	1.1	51
399	Successes and failures of thek \cdot method: A direct assessment for GaAs/AlAs quantum structures. <i>Physical Review B</i> , 1996, 53, 7949-7963.	1.1	93
400	Theory of silicon nanostructures. <i>Applied Surface Science</i> , 1996, 102, 350-359.	3.1	127
401	Predicted structures and stabilities of the surface A grooves and double bilayer height steps on the GaAs(001)-2 Å \times 4 surface. <i>Journal of Crystal Growth</i> , 1996, 163, 113-121.	0.7	6
402	Free π -standing versus AlAs π -embedded GaAs quantum dots, wires, and films: The emergence of a zero π -confinement state. <i>Applied Physics Letters</i> , 1996, 68, 3455-3457.	1.5	51
403	Direct calculation of the transport properties of disordered AlAs/GaAs superlattices from the electronic and phonon spectra. <i>Physical Review B</i> , 1996, 53, 2010-2019.	1.1	18
404	Method of linear combination of structural motifs for surface and step energy calculations: Application to GaAs(001). <i>Physical Review B</i> , 1996, 53, 1343-1356.	1.1	87
405	Chemical trends in band offsets of Zn- and Mn-based II-VI superlattices:d-level pinning and offset compression. <i>Physical Review B</i> , 1996, 53, R10457-R10460.	1.1	20
406	Structure of the As Vacancies on GaAs(110) Surfaces. <i>Physical Review Letters</i> , 1996, 77, 119-122.	2.9	67
407	Polarization fields and band offsets in GaInP/GaAs and ordered/disordered GaInP superlattices. <i>Applied Physics Letters</i> , 1996, 68, 2852-2854.	1.5	116
408	Surface segregation and ordering in III-V semiconductor alloys. <i>Physical Review B</i> , 1996, 53, 4570-4579.	1.1	63
409	Point-charge electrostatics in disordered alloys. <i>Physical Review B</i> , 1996, 54, 7843-7856.	1.1	26
410	First Principles and Second Principles (Semiempirical) Pseudopotentials. <i>Kluwer International Series in Engineering and Computer Science</i> , 1996, , 173-187.	0.2	5
411	Prediction of Unsuspected Ordering Tendencies in Pd-Pt and Rh-Pt Alloys. <i>NATO ASI Series Series B: Physics</i> , 1996, , 375-380.	0.2	0
412	Prediction of New Fingerprints of Ordering in GaInP ₂ Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1995, 417, 103.	0.1	3
413	Dependence of Optical Properties of Semiconductor Alloys on Long Range Order, Strain and Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1995, 417, 3.	0.1	1
414	Theory of Surface Dimerization-induced Ordering in GaInP Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1995, 417, 43.	0.1	1

#	ARTICLE	IF	CITATIONS
415	Structure and formation energy of steps on the GaAs(001)-2 Å ⁻⁴ surface. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1995, 30, 127-136.	1.7	7
416	Surface dimerization induced CuPtB versus CuPtA ordering of GaInP alloys. <i>Applied Physics Letters</i> , 1995, 67, 3141-3143.	1.5	112
417	Short- and long-range order of the binary Madelung lattice. <i>Physical Review B</i> , 1995, 51, 6876-6891.	1.1	46
418	E ₁ , E ₂ , and E ₀ transitions and pressure dependence in ordered Ga _{0.5} In _{0.5} P. <i>Physical Review B</i> , 1995, 51, 13097-13102.	1.1	17
419	Ising-like Description of Structurally Relaxed Ordered and Disordered Alloys. <i>Physical Review Letters</i> , 1995, 75, 3162-3165.	2.9	81
420	Short- and long-range-order effects on the electronic properties of III-V semiconductor alloys. <i>Physical Review B</i> , 1995, 51, 10462-10476.	1.1	107
421	Theory of reflectance-difference spectroscopy in ordered III-V semiconductor alloys. <i>Physical Review B</i> , 1995, 51, 14110-14114.	1.1	8
422	Spin-Polarization-Induced Structural Selectivity in Pd ₃ X and Pt ₃ X (X=3d) Compounds. <i>Physical Review Letters</i> , 1995, 75, 1320-1323.	2.9	37
423	Electronic consequences of random layer thickness fluctuations in AlAs/GaAs superlattices. <i>Journal of Applied Physics</i> , 1995, 78, 6639-6657.	1.1	26
424	Effects of ordering on the electron effective mass and strain deformation potential in GaInP ₂ : Deficiencies of the k·p model. <i>Physical Review B</i> , 1995, 52, 13992-13997.	1.1	30
425	InAsSb/InAs: A type-I or a type-II band alignment. <i>Physical Review B</i> , 1995, 52, 12039-12044.	1.1	70
426	d-band excitations in II-VI semiconductors: A broken-symmetry approach to the core hole. <i>Physical Review B</i> , 1995, 52, 13975-13982.	1.1	35
427	First-principles theory of short-range order, electronic excitations, and spin polarization in Ni-V and Pd-V alloys. <i>Physical Review B</i> , 1995, 52, 8813-8828.	1.1	100
428	Electronic charge distribution in crystalline germanium. <i>Physical Review B</i> , 1995, 52, 11904-11911.	1.1	11
429	Atomic-scale structure of disordered Ga _{1-x} In _x P alloys. <i>Physical Review B</i> , 1995, 51, 10795-10816.	1.1	57
430	Quantum-confinement-induced X transition in GaAs/AlGaAs quantum films, wires, and dots. <i>Physical Review B</i> , 1995, 52, 14664-14670.	1.1	44
431	Local-density-derived semiempirical pseudopotentials. <i>Physical Review B</i> , 1995, 51, 17398-17416.	1.1	155
432	Electronic Structure of Intentionally Disordered AlAs/GaAs Superlattices. <i>Physical Review Letters</i> , 1995, 74, 2555-2558.	2.9	53

#	ARTICLE	IF	CITATIONS
433	Band offsets and optical bowings of chalcopyrites and Zn-based II-VI alloys. Journal of Applied Physics, 1995, 78, 3846-3856.	1.1	446
434	Structural instability in zinc-blende semiconductors. Ferroelectrics, 1994, 155, 127-132.	0.3	0
435	First-principles simulated-annealing study of phase transitions and short-range order in transition-metal and semiconductor alloys. Physical Review B, 1994, 50, 6642-6661.	1.1	79
436	Optical properties of zinc-blende semiconductor alloys: Effects of epitaxial strain and atomic ordering. Physical Review B, 1994, 49, 14337-14351.	1.1	143
437	Pressure dependence of optical transitions in ordered GaP/InP superlattices. Applied Physics Letters, 1994, 65, 2990-2992.	1.5	13
438	Absolute deformation potentials of Al, Si, and NaCl. Physical Review B, 1994, 50, 17797-17801.	1.1	41
439	Long- versus short-range order in Ni ₃ V and Pd ₃ V alloys. Physical Review B, 1994, 49, 16058-16061.	1.1	24
440	Comparison of two cluster-expansion methods for the energetics of Pd-V alloys. Physical Review B, 1994, 50, 10548-10560.	1.1	28
441	Type-II ⁺ type-I transition in (GaX) _n /(InX) _n (001) superlattices (X=P, Sb) as a function of period n. Physical Review B, 1994, 50, 8094-8097.	1.1	13
442	Pressure dependence of the band gaps in Si quantum wires. Applied Physics Letters, 1994, 64, 3545-3547.	1.5	10
443	Unequal wave vectors in short- versus long-range ordering in intermetallic compounds. Physical Review B, 1994, 50, 6626-6636.	1.1	37
444	Optical anisotropy and spin polarization in ordered GaInP. Applied Physics Letters, 1994, 64, 1676-1678.	1.5	36
445	Prediction and observation of II-VI/CuInSe ₂ heterojunction band offsets. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 185-193.	0.8	24
446	Solving Schrödinger's equation around a desired energy: Application to silicon quantum dots. Journal of Chemical Physics, 1994, 100, 2394-2397.	1.2	515
447	First-Principles Statistical Mechanics of Semiconductor Alloys and Intermetallic Compounds. NATO ASI Series Series B: Physics, 1994, , 361-419.	0.2	102
448	Electronic Structure Pseudopotential Calculations of Large (.apprx.1000 Atoms) Si Quantum Dots. The Journal of Physical Chemistry, 1994, 98, 2158-2165.	2.9	381
449	Relationships between the band gaps of the zinc-blende and wurtzite modifications of semiconductors. Physical Review B, 1994, 50, 2715-2718.	1.1	175
450	Large scale electronic structure calculations using the Lanczos method. Computational Materials Science, 1994, 2, 326-340.	1.4	80

#	ARTICLE	IF	CITATIONS
451	Is there an elastic anomaly for a (001) monolayer of InAs embedded in GaAs?. Applied Physics Letters, 1994, 65, 165-167.	1.5	55
452	Confinement, surface, and chemisorption effects on the optical properties of Si quantum wires. Physical Review B, 1994, 50, 14405-14415.	1.1	102
453	Effects of atomic clustering on the optical properties of III-V alloys. Applied Physics Letters, 1994, 64, 2882-2884.	1.5	44
454	Dielectric Constants of Silicon Quantum Dots. Physical Review Letters, 1994, 73, 1039-1042.	2.9	328
455	Comparison of experimental and theoretical electronic charge distribution in $\hat{3}$ -TiAl. Acta Metallurgica Et Materialia, 1994, 42, 3929-3943.	1.9	22
456	Strain effects on the spectra of spontaneously ordered $GaxIn_{1-x}P$. Applied Physics Letters, 1994, 64, 757-759.	1.5	27
457	Empirical atomic pseudopotentials for AlAs/GaAs superlattices, alloys, and nanostructures. Physical Review B, 1994, 50, 17393-17405.	1.1	120
458	Confinement effects in supported vs. isolated quantum structures: A study of Si(001) films. Superlattices and Microstructures, 1993, 14, 141-148.	1.4	0
459	New materials and structures for photovoltaics. Journal of Electronic Materials, 1993, 22, 3-16.	1.0	56
460	Ferroelectric properties of $Cd_{1-x}ZnxTe$ solid solutions. Journal of Applied Physics, 1993, 74, 513-520.	1.1	25
461	Electronic origins of the magnetic phase transitions in zinc-blende Mn chalcogenides. Physical Review B, 1993, 48, 6111-6115.	1.1	71
462	Off-center atomic displacements in zinc-blende semiconductor. Physical Review Letters, 1993, 70, 1639-1642.	2.9	53
463	Influence of Ga Concentration on the Ordering Process of $GaxIn_{1-x}P$ Grown on GaAs. Japanese Journal of Applied Physics, 1993, 32, 716.	0.8	7
464	Relativity-Induced Ordering and Phase Separation in Intermetallic Compounds. Europhysics Letters, 1993, 21, 221-226.	0.7	38
465	Dependence of the optical properties of semiconductor alloys on the degree of long-range order. Applied Physics Letters, 1993, 62, 1937-1939.	1.5	139
466	Electronic charge distribution in crystalline diamond, silicon, and germanium. Physical Review B, 1993, 47, 9385-9410.	1.1	134
467	Prediction of unusual electronic properties of Si quantum films. Applied Physics Letters, 1993, 63, 1399-1401.	1.5	47
468	Identity of the light-emitting states in porous silicon wires. Applied Physics Letters, 1993, 63, 3455-3457.	1.5	32

#	ARTICLE	IF	CITATIONS
469	Electronic structure of semiconductor quantum films. <i>Physical Review B</i> , 1993, 48, 11204-11219.	1.1	73
470	Band offsets at the CdS/CuInSe ₂ heterojunction. <i>Applied Physics Letters</i> , 1993, 63, 2549-2551.	1.5	103
471	Theoretical and experimental studies of the ZnSe/CuInSe ₂ heterojunction band offset. <i>Applied Physics Letters</i> , 1993, 62, 2557-2559.	1.5	45
472	First-principles phase diagrams of pseudoternary chalcopyrite zinc-blende alloys. <i>Physical Review B</i> , 1993, 47, 9985-9988.	1.1	17
473	Predictions of New Semiconductor of Transition Metal Structures and Their Properties. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 14.	0.8	2
474	Ordering thermodynamics of surface and subsurface layers in the Ga _{1-x} In _x P alloy. <i>Physical Review B</i> , 1992, 45, 11173-11191.	1.1	51
475	Thermodynamics of surface-induced ordering in the Ga _{1-x} In _x P alloy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1992, 10, 1683.	1.6	2
476	First-principles calculation of the order-disorder transition in chalcopyrite semiconductors. <i>Physical Review B</i> , 1992, 45, 2533-2536.	1.1	90
477	Interfacial atomic structure and band offsets at semiconductor heterojunctions. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1992, 10, 1744.	1.6	64
478	Evolution of alloy properties with long-range order. <i>Physical Review Letters</i> , 1992, 69, 3766-3769.	2.9	91
479	Comment on "Origins of compositional order in NiPt alloys". <i>Physical Review Letters</i> , 1992, 68, 1961-1961.	2.9	22
480	Identity of the conduction-band minimum in (AlAs) _{1-x} (GaAs) _x (001) superlattices: Intermixing-induced reversal of states. <i>Physical Review B</i> , 1992, 45, 11411-11414.	1.1	11
481	Theory of interfacial stability of semiconductor superlattices. <i>Physical Review B</i> , 1992, 45, 14177-14188.	1.1	11
482	Predictions and systematizations of the zinc-blende wurtzite structural energies in binary octet compounds. <i>Physical Review B</i> , 1992, 45, 12130-12133.	1.1	84
483	Efficient cluster expansion for substitutional systems. <i>Physical Review B</i> , 1992, 46, 12587-12605.	1.1	283
484	Zinc-blende wurtzite polytypism in semiconductors. <i>Physical Review B</i> , 1992, 46, 10086-10097.	1.1	977
485	Theory of bonding charge density in \hat{I}^2 NiAl. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 2155-2165.	1.9	38
486	Electronic structure of ordered and disordered Cu ₃ Au and Cu ₃ Pd. <i>Physical Review B</i> , 1992, 45, 10314-10330.	1.1	89

#	ARTICLE	IF	CITATIONS
487	Diamond-like order in zinc-blende compounds. Solid State Communications, 1992, 83, 21-26.	0.9	2
488	Disorder effects on the density of states of the II-VI semiconductor alloys $\text{Hg}_{0.5}\text{Cd}_{0.5}\text{Te}$, $\text{Cd}_{0.5}\text{Zn}_{0.5}\text{Te}$, and $\text{Hg}_{0.5}\text{Zn}_{0.5}\text{Te}$. Physical Review B, 1991, 43, 1662-1677.	1.1	90
489	Proposal for III-V ordered alloys with infrared band gaps. Applied Physics Letters, 1991, 58, 2684-2686.	1.5	59
490	First-principles statistical mechanics of structural stability of intermetallic compounds. Physical Review B, 1991, 44, 512-544.	1.1	286
491	Superlattice energetics and alloy thermodynamics of GaAs/Ge. Solid State Communications, 1991, 78, 249-255.	0.9	21
492	Ground state structures of intermetallic compounds: A first-principles Ising model. Solid State Communications, 1991, 78, 583-588.	0.9	18
493	Surface reconstructions and surface energies of monolayer-coverage cation-terminated $\text{Ga}_{0.5}\text{In}_{0.5}\text{P}(001)$ surfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 2176.	1.6	8
494	Strain energy and stability of Si-Ge compounds, alloys, and superlattices. Physical Review B, 1991, 44, 1663-1681.	1.1	64
495	Electronic structure of random $\text{Ag}_{0.5}\text{Pd}_{0.5}$ and $\text{Ag}_{0.5}\text{Au}_{0.5}$ alloys. Physical Review B, 1991, 44, 10470-10484.	1.1	62
496	Predicting structural energies of atomic lattices. Physical Review B, 1991, 43, 1593-1597.	1.1	16
497	Electronic structure and density of states of the random $\text{Al}_{0.5}\text{Ga}_{0.5}\text{As}$, $\text{GaAs}_{0.5}\text{P}_{0.5}$, and $\text{Ga}_{0.5}\text{In}_{0.5}\text{As}$ semiconductor alloys. Physical Review B, 1991, 44, 7947-7964.	1.1	50
498	Large lattice-relaxation-induced electronic level shifts in random $\text{Cu}_{1-x}\text{Pdx}$ alloys. Physical Review B, 1991, 44, 3387-3390.	1.1	51
499	Surface-induced ordering in GaInP. Physical Review Letters, 1991, 66, 2132-2135.	2.9	116
500	Thermodynamic instability of ordered $(001)\text{AlGaAs}_2$ in bulk form. Physical Review B, 1991, 43, 1584-1592.	1.1	5
501	First-principles study of intervalley mixing: Ultrathin GaAs/GaP superlattices. Physical Review B, 1991, 43, 8962-8989.	1.1	38
502	Long-range order in binary late-transition-metal alloys. Physical Review Letters, 1991, 66, 1753-1756.	2.9	105
503	Structural phase transition in $(\text{GaAs})_{1-x}\text{Ge}_2x$ and $(\text{GaP})_{1-x}\text{Si}_2x$ alloys: Test of the bulk thermodynamic description. Physical Review B, 1991, 43, 14055-14072.	1.1	37
504	Real-space description of semiconducting band gaps in substitutional systems. Physical Review B, 1991, 44, 8672-8684.	1.1	20

#	ARTICLE	IF	CITATIONS
505	Spontaneous surface-induced long-range order in Ga _{0.5} In _{0.5} P alloys. <i>Physical Review B</i> , 1991, 44, 11178-11195.	1.1	49
506	Stability, Electronic Structure, and Phase Diagrams of Novel Inter-Semiconductor Compounds. <i>The International Journal of Supercomputer Applications</i> , 1991, 5, 34-56.	0.6	93
507	Instability of diatomic deuterium in fcc palladium. <i>Journal of Fusion Energy</i> , 1990, 9, 367-370.	0.5	3
508	Stability of atomic and diatomic hydrogen in fcc palladium. <i>Solid State Communications</i> , 1990, 73, 327-330.	0.9	7
509	Electronic structure of random Al _{0.5} Ga _{0.5} As alloys: Test of the "special-quasirandom-structures" description. <i>Physical Review B</i> , 1990, 42, 3757-3760.	1.1	90
510	Ordering in semiconductor alloys. <i>Applied Physics Letters</i> , 1990, 56, 731-733.	1.5	47
511	Stability of coherently strained semiconductor superlattices. <i>Physical Review Letters</i> , 1990, 64, 36-39.	2.9	71
512	Ground-state structures and the random-state energy of the Madelung lattice. <i>Physical Review B</i> , 1990, 42, 11388-11391.	1.1	147
513	Absence of volume metastability in bcc copper. <i>Physical Review B</i> , 1990, 41, 2699-2703.	1.1	39
514	Prediction of direct band gaps in monolayer (001) and (111) GaAs/GaP superlattices. <i>Applied Physics Letters</i> , 1990, 57, 1031-1033.	1.5	21
515	First-principles calculation of temperature-composition phase diagrams of semiconductor alloys. <i>Physical Review B</i> , 1990, 41, 8240-8269.	1.1	267
516	Stability and band offsets of heterovalent superlattices: Si/GaP, Ge/GaAs, and Si/GaAs. <i>Physical Review B</i> , 1990, 42, 3213-3216.	1.1	78
517	Electronic properties of random alloys: Special quasirandom structures. <i>Physical Review B</i> , 1990, 42, 9622-9649.	1.1	829
518	Band-gap narrowing in ordered and disordered semiconductor alloys. <i>Applied Physics Letters</i> , 1990, 56, 662-664.	1.5	241
519	Special quasirandom structures. <i>Physical Review Letters</i> , 1990, 65, 353-356.	2.9	2,702
520	Negative spin-orbit bowing in semiconductor alloys. <i>Physical Review B</i> , 1989, 39, 6279-6282.	1.1	33
521	Electronic structure of [110] Si-Ge thin-layer superlattices. <i>Applied Physics Letters</i> , 1989, 54, 2435-2437.	1.5	22
522	Bonding charge density in GaAs. <i>Physical Review Letters</i> , 1989, 62, 2328-2328.	2.9	8

#	ARTICLE	IF	CITATIONS
523	Epitaxial effects on coherent phase diagrams of alloys. <i>Physical Review B</i> , 1989, 40, 4062-4089.	1.1	78
524	First-principles calculation of the formation energies of ordered and disordered phases of AlAs-GaAs. <i>Physical Review B</i> , 1989, 40, 1642-1646.	1.1	11
525	Structural phenomena in coherent epitaxial solids. <i>Journal of Crystal Growth</i> , 1989, 98, 1-17.	0.7	71
526	Electronic structure of ultrathin SiGe strained superlattices: The possibility of direct band gaps. <i>Thin Solid Films</i> , 1989, 183, 33-48.	0.8	12
527	Band gaps and spin-orbit splitting of ordered and disordered $\text{Al}_x\text{Ga}_{1-x}\text{As}$ and $\text{GaAs}_x\text{Sb}_{1-x}$ alloys. <i>Physical Review B</i> , 1989, 39, 3279-3304.	1.1	231
528	First-principles calculation of alloy phase diagrams: The renormalized-interaction approach. <i>Physical Review B</i> , 1989, 40, 3197-3231.	1.1	259
529	ELECTRONIC STRUCTURE OF ULTRATHIN SiGe STRAINED SUPERLATTICES: THE POSSIBILITY OF DIRECT BAND GAPS. , 1989, , 33-48.		0
530	A novel viewpoint on the Cu-Au phase diagram: The interplay between fixed ising energies and elastic effects. <i>Acta Metallurgica</i> , 1988, 36, 2239-2248.	2.1	40
531	Electronic structure of II-VI compounds and their alloys - role of cation d bands. <i>Journal of Crystal Growth</i> , 1988, 86, 1-7.	0.7	25
532	Ordering-induced changes in the optical spectra of semiconductor alloys. <i>Applied Physics Letters</i> , 1988, 52, 311-313.	1.5	35
533	Stability of bulk and pseudomorphic epitaxial semiconductors and their alloys. <i>Physical Review B</i> , 1988, 37, 3008-3024.	1.1	77
534	Ordered-vacancy-compound semiconductors: Pseudocubic CdIn_2Se_4 . <i>Physical Review B</i> , 1988, 37, 6835-6856.	1.1	94
535	Role of metal states in II-VI semiconductors. <i>Physical Review B</i> , 1988, 37, 8958-8981.	1.1	578
536	Electronic structure of ultrathin $(\text{GaAs})_n(\text{AlAs})_n[001]$ superlattices and the $\text{Ga}_{0.5}\text{Al}_{0.5}\text{As}$ alloy. <i>Journal of Applied Physics</i> , 1988, 63, 5794-5804.	1.1	76
537	Thermodynamic Stability of $(\text{AlAs})_n(\text{GaAs})_n$ Superlattices and the Random $\text{Al}_{0.5}\text{Ga}_{0.5}\text{As}$ Alloy. <i>Physical Review Letters</i> , 1988, 61, 1505-1508.	2.9	38
538	(111) oriented $(\text{GaAs})_n(\text{AlAs})_n$ superlattices are direct band-gap materials for all n 's. <i>Applied Physics Letters</i> , 1988, 53, 2077-2079.	1.5	30
539	Electronic structure and stability of II-VI semiconductors and their alloys: The role of metal d bands. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 2597-2611.	0.9	44
540	Composition pinning in epitaxial alloys. <i>Physical Review B</i> , 1988, 38, 12756-12759.	1.1	16

#	ARTICLE	IF	CITATIONS
541	Epitaxy-induced structural phase transformations. Physical Review B, 1988, 38, 10124-10127.	1.1	59
542	Stability and electronic structure of ultrathin [001] (GaAs) _m (AlAs) _n superlattices. Physical Review B, 1988, 37, 1342-1363.	1.1	63
543	Epitaxial Effects on Coherent Phase Diagrams of Alloys. Physical Review Letters, 1988, 61, 1501-1504.	2.9	56
544	Structural and electronic properties of epitaxial thin-layer Si _n Ge _m superlattices. Physical Review B, 1988, 37, 6893-6907.	1.1	184
545	Ordering of isovalent intersemiconductor alloys. Physical Review B, 1988, 38, 6338-6341.	1.1	106
546	Chemical and elastic effects on isostructural phase diagrams: The $\bar{\Gamma}$ -G approach. Physical Review B, 1988, 37, 10547-10570.	1.1	82
547	First-Principles Theory of Alloy Phase Diagrams. Materials Research Society Symposia Proceedings, 1988, 141, 177.	0.1	1
548	Role of d Orbitals in Valence-Band Offsets of Common-Anion Semiconductors. Perspectives in Condensed Matter Physics, 1988, , 200-203.	0.1	1
549	Common-anion rule and its limits: Photoemission studies of Cu _{1-x} Ga _{1-x} Se ₂ -Ge and Cu _x Ag _{1-x} InSe ₂ -Ge interfaces. Perspectives in Condensed Matter Physics, 1988, , 204-207.	0.1	0
550	A universal trend in the binding energies of deep impurities in semiconductors. Perspectives in Condensed Matter Physics, 1988, , 284-286.	0.1	0
551	Calculation of the valence band offsets of common-anion semiconductor heterojunctions from core levels: The role of cation d orbitals. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1987, 5, 1239.	1.6	20
552	First-principles calculations of the phase diagrams of noble metals: Cu-Au, Cu-Ag, and Ag-Au. Physical Review B, 1987, 36, 4163-4185.	1.1	147
553	Reply to $\hat{\alpha}$ Comment on $\hat{\alpha}$ Atomic structure and ordering in semiconductor alloys $\hat{\alpha}$. Physical Review B, 1987, 36, 2902-2905.	1.1	4
554	Effect of chemical and elastic interactions on the phase diagrams of isostructural solids. Physical Review B, 1987, 35, 6475-6478.	1.1	46
555	Electronic structure of M ₃ Sb-type filled tetrahedral semiconductors. Physical Review B, 1987, 35, 3952-3961.	1.1	26
556	Common-anion rule and its limits: Photoemission studies of Cu _{1-x} Ga _{1-x} Se ₂ -Ge and Cu _x Ag _{1-x} InSe ₂ -Ge interfaces. Physical Review B, 1987, 36, 9388-9391.	1.1	9
557	First-Principles Calculation of Semiconductor-Alloy Phase Diagrams. Physical Review Letters, 1987, 58, 49-52.	2.9	125
558	Thermodynamic instability of ultrathin semiconductor superlattices: The (001) (GaAs) ₁ (AlAs) ₁ structure. Physical Review Letters, 1987, 58, 1123-1126.	2.9	64

#	ARTICLE	IF	CITATIONS
559	New Ordering-Induced Optical Transitions in Strained SiGe Superlattices. Materials Research Society Symposia Proceedings, 1987, 91, 293.	0.1	2
560	Electronic structure of ZnS, ZnSe, ZnTe, and their pseudobinary alloys. Physical Review B, 1987, 36, 3199-3228.	1.1	406
561	Role of d orbitals in valence-band offsets of common-anion semiconductors. Physical Review Letters, 1987, 59, 144-147.	2.9	196
562	Total-energy and band-structure calculations for the semimagnetic $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ semiconductor alloy and its binary constituents. Physical Review B, 1987, 35, 2340-2365.	1.1	235
563	New optical transitions in strained Si-Ge superlattices. Physical Review B, 1987, 36, 4547-4550.	1.1	161
564	Order-disorder transformation in ternary tetrahedral semiconductors. Applied Physics Letters, 1987, 50, 164-166.	1.5	81
565	Work in the solid state theory group at the solar energy research institute. Solar Cells, 1987, 21, 458-459.	0.6	0
566	Electronic structure and stability of semiconductor alloys. Solar Cells, 1987, 21, 460.	0.6	0
567	Optical bowing in zinc chalcogenide semiconductor alloys. Physical Review B, 1986, 34, 5992-5995.	1.1	189
568	Prediction of a low-spin ground state in the GaAs:V ²⁺ -impurity system. Physical Review B, 1986, 33, 2961-2964.	1.1	45
569	Electronic Structure of 3d Transition-Atom Impurities in Semiconductors. Solid State Physics, 1986, 39, 275-464.	1.3	230
570	Band Structure and Electronic Excitations in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$. Materials Research Society Symposia Proceedings, 1986, 89, 197.	0.1	0
571	Magnetic properties of interstitial 3d impurities in silicon. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 1036-1038.	1.0	1
572	Metastable impurities in semiconductors: Si:Mg and Si:Be. Physical Review B, 1986, 34, 7451-7454.	1.1	22
573	Alloy-Stabilized Semiconducting and Magnetic Zinc-Blende Phase of MnTe. Physical Review Letters, 1986, 56, 2391-2394.	2.9	72
574	Structural stability and selectivity of thin epitaxial semiconductors. Applied Physics Letters, 1986, 49, 782-784.	1.5	35
575	Stability of Ordered Bulk and Epitaxial Semiconductor Alloys. Physical Review Letters, 1986, 56, 1400-1403.	2.9	245
576	Electronic structure and phase stability of LiZnAs: A half ionic and half covalent tetrahedral semiconductor. Physical Review Letters, 1986, 56, 528-531.	2.9	104

#	ARTICLE	IF	CITATIONS
577	Electronic structure of generic semiconductors: Antifluorite silicide and III-V compounds. Physical Review B, 1986, 34, 4105-4120.	1.1	48
578	Ordering and decomposition in semiconductor alloys. Journal of Materials Research, 1986, 1, 523-526.	1.2	48
579	Electronic and Magnetic Properties of Interstitial 3d Impurities in Silicon. Materials Research Society Symposia Proceedings, 1985, 46, 111.	0.1	3
580	Composition-dependence of deep impurity levels in alloys. Physical Review Letters, 1985, 54, 849-849.	2.9	54
581	Calculation of the spin-polarized electronic structure of an interstitial iron impurity in silicon. Physical Review B, 1985, 31, 7877-7899.	1.1	55
582	Electronic structure of transition-atom impurities in GaP. Physical Review B, 1985, 31, 3729-3759.	1.1	59
583	Electronic structure of LiZnN: Interstitial insertion rule. Physical Review B, 1985, 32, 1386-1389.	1.1	110
584	Electronic structure of copper, silver, and gold impurities in silicon. Physical Review B, 1985, 32, 934-954.	1.1	76
585	Exchange-Correlation-Induced Negative Effective U. Physical Review Letters, 1985, 55, 1618-1621.	2.9	45
586	Chemical trends in ground- and excited-state properties of interstitial 3d impurities in silicon. Physical Review B, 1985, 31, 8317-8320.	1.1	63
587	Electronic structure of filled tetrahedral semiconductors. Physical Review B, 1985, 31, 2570-2573.	1.1	134
588	Structural and chemical changes in binary versus ternary tetrahedral semiconductors. Physical Review B, 1985, 32, 2689-2692.	1.1	19
589	Theory of 3d Transition Atom Impurities in Semiconductors. Annual Review of Materials Research, 1985, 15, 411-453.	5.5	63
590	Atomic structure and ordering in semiconductor alloys. Physical Review B, 1985, 31, 2561-2564.	1.1	360
591	Ternary semiconductors and ordered pseudobinary alloys: Electronic structure and predictions of new materials. International Journal of Quantum Chemistry, 1985, 28, 629-653.	1.0	5
592	Hyperfine Interaction of the Iron Impurity Nuclei at the Tetrahedral Interstitial Site in Silicon. , 1985, , 733-736.		1
593	A universal trend in the binding energies of deep impurities in semiconductors. Applied Physics Letters, 1984, 45, 671-673.	1.5	256
594	Electronic structure of the ternary pnictide semiconductors ZnSiP ₂ , ZnGeP ₂ , ZnSnP ₂ , ZnSiAs ₂ , and MgSiP ₂ . Physical Review B, 1984, 30, 741-756.	1.1	106

#	ARTICLE	IF	CITATIONS
595	Many-electron multiplet effects in the spectra of 3d impurities in heteropolar semiconductors. <i>Physical Review B</i> , 1984, 30, 3430-3455.	1.1	250
596	Localization and Magnetism of an Interstitial Iron Impurity in Silicon. <i>Physical Review Letters</i> , 1984, 53, 1256-1259.	2.9	57
597	Breathing-mode relaxation around tetrahedral interstitial 3d impurities in silicon. <i>Physical Review B</i> , 1984, 30, 1102-1105.	1.1	36
598	Separation of one- and many-electron effects in the excitation spectra of 3d impurities in semiconductors. <i>Physical Review B</i> , 1984, 29, 5999-6002.	1.1	47
599	Many-electron multiplet effects in the optical spectra of NiO, CoO and MnO. <i>Solid State Communications</i> , 1984, 52, 265-269.	0.9	6
600	Theory of the band-gap anomaly in ABC ₂ chalcopyrite semiconductors. <i>Physical Review B</i> , 1984, 29, 1882-1906.	1.1	900
601	Bond lengths around isovalent impurities and in semiconductor solid solutions. <i>Physical Review B</i> , 1984, 30, 6217-6220.	1.1	416
602	The origin of Schottky barriers on the cleavage plane of III-V semiconductors: Review of some recent theoretical work. <i>Thin Solid Films</i> , 1983, 104, 301-316.	0.8	26
603	Substitutional 3d impurities in silicon: A self-regulating system. <i>Solid State Communications</i> , 1983, 45, 343-346.	0.9	35
604	Electronic structure of the ternary chalcopyrite semiconductors CuAlS ₂ , CuGaS ₂ , CuInS ₂ , CuAlSe ₂ , CuGaSe ₂ , and CuInSe ₂ . <i>Physical Review B</i> , 1983, 28, 5822-5847.	1.1	492
605	Anion displacements and the band-gap anomaly in ternary ABC ₂ chalcopyrite semiconductors. <i>Physical Review B</i> , 1983, 27, 5176-5179.	1.1	153
606	One-Electron Broken-Symmetry Approach to the Core-Hole Spectra of Semiconductors. <i>Physical Review Letters</i> , 1983, 50, 1215-1218.	2.9	61
607	Applicability of the local-density theory to interstitial transition-metal impurities in silicon. <i>Physical Review B</i> , 1983, 28, 3628-3631.	1.1	30
608	Structural Origin of Optical Bowing in Semiconductor Alloys. <i>Physical Review Letters</i> , 1983, 51, 662-665.	2.9	196
609	Simultaneous Relaxation of Nuclear Geometries and Electric Charge Densities in Electronic Structure Theories. <i>Physical Review Letters</i> , 1983, 50, 1684-1688.	2.9	92
610	Electronic structure of substitutional chalcogen impurities in silicon. <i>Physical Review B</i> , 1983, 27, 4909-4923.	1.1	36
611	Summary Abstract: Experiments on ultrathin Al overlayers on GaAs(110). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1983, 1, 617-618.	0.9	1
612	Electronic structure of transition-atom impurities in semiconductors: Substitutional 3d impurities in silicon. <i>Physical Review B</i> , 1983, 27, 1191-1227.	1.1	93

#	ARTICLE	IF	CITATIONS
613	Reversal in the order of impurity binding energies with atomic energies. Physical Review B, 1983, 27, 1420-1423.	1.1	10
614	Schottky barrier formation and the initial metal-atom bonding state: InP(110)-Al vs GaAs(110)-Al. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1983, 1, 610.	1.6	18
615	Quasiband crystal-field method for calculating the electronic structure of localized defects in solids. Physical Review B, 1982, 26, 846-895.	1.1	65
616	Initial Adsorption State for Al on GaAs(110) and Its Role in the Schottky Barrier Formation. Physical Review Letters, 1982, 49, 895-898.	2.9	69
617	Phenomenology of solid solubilities and ion-implantation sites: An orbital-radii approach. Physical Review B, 1982, 25, 907-922.	1.1	32
618	Theory of substitutional and interstitial impurities in silicon. Physical Review B, 1982, 26, 5989-5992.	1.1	88
619	Evaluation of tight-binding models for deep defect levels in semiconductors. Physical Review B, 1982, 25, 2781-2785.	1.1	16
620	New approach for solving the density-functional self-consistent-field problem. Physical Review B, 1982, 26, 3114-3137.	1.1	180
621	The Origin of Schottky Barriers on the Cleavage Plane of III-V Semiconductors: Review of Some Recent Theoretical Work. Materials Research Society Symposia Proceedings, 1982, 18, 301.	0.1	1
622	Self-interaction correction to density-functional approximations for many-electron systems. Physical Review B, 1981, 23, 5048-5079.	1.1	18,412
623	Density-functional theory of the correlation energy in atoms and ions: A simple analytic model and a challenge. Physical Review A, 1981, 23, 2785-2789.	1.0	134
624	Phenomenology of the Crystal Structures of Transition-Metal-Atom Binary Compounds. Physical Review Letters, 1981, 47, 1086-1086.	2.9	14
625	Al on GaAs(110) interface: Possibility of adatom cluster formation. Physical Review B, 1981, 24, 4372-4391.	1.1	178
626	Pseudopotential and all-electron atomic core size scales. Journal of Chemical Physics, 1981, 74, 4209-4211.	1.2	7
627	Quasi bands in Green's-function defect models. Physical Review B, 1981, 24, 5913-5931.	1.1	51
628	A Pseudopotential Viewpoint of the Electronic and Structural Properties of Crystals. , 1981, , 73-135.		13
629	Spin-dependent correlated atomic pseudopotentials. Physical Review B, 1980, 22, 649-662.	1.1	34
630	Structural Stability of 495 Binary Compounds. Physical Review Letters, 1980, 44, 582-586.	2.9	76

#	ARTICLE	IF	CITATIONS
631	Nonlocal pseudopotential calculation of the electronic properties of relaxed GaAs (110) surface. Physical Review B, 1980, 22, 959-969.	1.1	68
632	Analytic representation for first-principles pseudopotentials. Physical Review B, 1980, 22, 1698-1708.	1.1	15
633	Ground-state properties of crystalline silicon in a density-functional pseudopotential approach. Physical Review B, 1980, 21, 4785-4790.	1.1	60
634	Systematization of the stable crystal structure of all AB-type binary compounds: A pseudopotential orbital-radii approach. Physical Review B, 1980, 22, 5839-5872.	1.1	261
635	Contemporary pseudopotentials – Simple reliability criteria. Journal of Vacuum Science and Technology, 1979, 16, 1337-1348.	1.9	39
636	Electronic structure of 1T-VSe ₂ . Physical Review B, 1979, 19, 6001-6009.	1.1	45
637	First-principles pseudopotential in the local-density-functional formalism. Chemical Physics, 1979, 39, 75-90.	0.9	14
638	Electronic structure of CuCl. Physical Review B, 1979, 20, 1189-1193.	1.1	66
639	Calculation of the electronic properties of Mo in a first-principles nonlocal-pseudopotential approach. Physical Review B, 1979, 20, 581-593.	1.1	34
640	Self-consistent pseudopotential calculation of the bulk properties of Mo and W. Physical Review B, 1979, 19, 568-582.	1.1	69
641	First-principles nonlocal-pseudopotential approach in the density-functional formalism. II. Application to electronic and structural properties of solids. Physical Review B, 1979, 20, 4082-4108.	1.1	185
642	On the first principles Hartree-Fock and local density pseudopotentials. Chemical Physics, 1978, 30, 423-443.	0.9	16
643	Semiempirical calculations of ground state properties and rotational barriers in conjugated ethylenes. Tetrahedron, 1978, 34, 2315-2319.	1.0	15
644	Local-density self-consistent energy-band structure of cubic CdS. Physical Review B, 1978, 17, 4850-4863.	1.1	69
645	Density-Functional Pseudopotential Approach to Crystal Phase Stability and Electronic Structure. Physical Review Letters, 1978, 41, 53-56.	2.9	59
646	First-principles nonlocal-pseudopotential approach in the density-functional formalism: Development and application to atoms. Physical Review B, 1978, 18, 5449-5472.	1.1	189
647	Structurally Induced Semimetal-to-Semiconductor Transition in 1T-TiSe ₂ . Physical Review Letters, 1978, 40, 1155-1158.	2.9	30
648	Band structure and lattice instability of TiSe ₂ . Physical Review B, 1978, 17, 1839-1842.	1.1	204

#	ARTICLE	IF	CITATIONS
649	Ab initio self-consistent study of the electronic structure and properties of cubic boron nitride. Physical Review B, 1978, 17, 2030-2042.	1.1	87
650	Self-consistent LCAO calculation of the electronic properties of graphite. II. Point vacancy in the two-dimensional crystal. Physical Review B, 1978, 17, 642-661.	1.1	32
651	First-principles theoretical study on the electronic properties of the B ₃₂ intermetallic compound LiAl. Physical Review B, 1978, 17, 2582-2594.	1.1	71
652	Self-consistent LCAO calculation of the electronic properties of graphite. I. The regular graphite lattice. Physical Review B, 1978, 17, 626-641.	1.1	122
653	Ground-state electronic properties of diamond in the local-density formalism. Physical Review B, 1977, 15, 5049-5065.	1.1	118
654	Self-consistent numerical-basis-set linear-combination-of-atomic-orbitals model for the study of solids in the local density formalism. Physical Review B, 1977, 15, 4716-4737.	1.1	137
655	Ground- and excited-state properties of LiF in the local-density formalism. Physical Review B, 1977, 16, 2901-2926.	1.1	188
656	Self-consistent numerical-basis-set linear-combination-of-atomic-orbitals investigation of the electronic structure and properties of TiS ₂ . Physical Review B, 1977, 16, 906-924.	1.1	168
657	Defect state model for localized excitations in LiF. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 60, 456-460.	0.9	10
658	The use of pseudopotentials within local-density formalism calculations for atoms: Some results for the first row. Chemical Physics Letters, 1977, 49, 367-373.	1.2	33
659	Calculation of the equilibrium configuration and intermolecular frequencies of water dimers and hexagonal ice. Chemical Physics, 1976, 13, 433-440.	0.9	22
660	LCAO truncated crystal calculations on some electronic properties of compressed molecular hydrogen crystal. Journal of Physics and Chemistry of Solids, 1975, 36, 229-238.	1.9	7
661	Band structure, crystal conformation, and hydrogen bond potentials for solid HF. Journal of Chemical Physics, 1975, 63, 1713-1731.	1.2	47
662	Lattice dynamics of solid α - and β -N ₂ crystals at various pressures. Physical Review B, 1975, 12, 5878-5889.	1.1	16
663	Small periodic cluster calculation on point defect problems in hexagonal layered solids. Journal of Chemical Physics, 1975, 62, 1861-1868.	1.2	37
664	Semiempirical LCAO calculations of electronic and dynamical properties of α - and β -nitrogen crystals and nitrogen aggregates. Molecular Physics, 1974, 28, 713-727.	0.8	9
665	Iterative extended Huckel calculation on hexagonal boron nitride. Solid State Communications, 1972, 11, 1727-1730.	0.9	6
666	The quest for dilute ferromagnetism in semiconductors: Guides and misguides by theory. Physics Magazine, 0, 3, .	0.1	200