

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

2,738
citations

24
h-index

49
g-index

153
ext. papers

3,048
ext. citations

2.8
avg, IF

4.92
L-index

#	Paper	IF	Citations
140	Interatomic potential for silicon defects and disordered phases. <i>Physical Review B</i> , 1998 , 58, 2539-2550	3.3	360
139	Environment-dependent interatomic potential for bulk silicon. <i>Physical Review B</i> , 1997 , 56, 8542-8552	3.3	327
138	Group IV Graphene- and Graphane-Like Nanosheets. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13242-13246	3.3	242
137	Anomalous compressibility of ferropericlase throughout the iron spin cross-over. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8447-52	11.5	148
136	Structural properties of amorphous silicon nitride. <i>Physical Review B</i> , 1998 , 58, 8323-8328	3.3	127
135	Elastic anomalies in a spin-crossover system: ferropericlase at lower mantle conditions. <i>Physical Review Letters</i> , 2013 , 110, 228501	7.4	83
134	A Palm Tree Antipodal Vivaldi Antenna With Exponential Slot Edge for Improved Radiation Pattern. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 1334-1337	3.8	80
133	Hydrogen role on the properties of amorphous silicon nitride. <i>Journal of Applied Physics</i> , 1999 , 86, 1843-1847	3.3	73
132	Intrinsic mobility of a dissociated dislocation in silicon. <i>Physical Review Letters</i> , 2000 , 84, 3346-9	7.4	66
131	Parameter-free modelling of dislocation motion: The case of silicon. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001 , 81, 1257-1281		60
130	Anomalous thermodynamic properties in ferropericlase throughout its spin crossover. <i>Physical Review B</i> , 2009 , 80,	3.3	52
129	The importance of Grüneisen parameters in developing interatomic potentials. <i>Journal of Applied Physics</i> , 1997 , 82, 5378-5381	2.5	49
128	Vacancy interaction with dislocations in silicon: the shuffle-glide competition. <i>Physical Review Letters</i> , 2000 , 84, 2172-5	7.4	49
127	Kink Asymmetry and Multiplicity in Dislocation Cores. <i>Physical Review Letters</i> , 1997 , 79, 5042-5045	7.4	44
126	Structural and electronic properties of 3d transition metal impurities in silicon carbide. <i>Physical Review B</i> , 2004 , 69,	3.3	44
125	Stability and plasticity of silicon nanowires: The role of wire perimeter. <i>Physical Review B</i> , 2007 , 75,	3.3	38
124	First-principles investigation of aBiNx:H. <i>Physical Review B</i> , 2002 , 65,	3.3	37

123	Functionalized adamantane: Building blocks for nanostructure self-assembly. <i>Physical Review B</i> , 2009 , 80,	3.3	34
122	Electronic properties and hyperfine fields of nickel-related complexes in diamond. <i>Physical Review B</i> , 2009 , 79,	3.3	31
121	Dislocation core reconstruction and its effect on dislocation mobility in silicon. <i>Journal of Applied Physics</i> , 1999 , 86, 4249-4257	2.5	31
120	Point defect interactions with extended defects in semiconductors. <i>Physical Review B</i> , 1999 , 60, 4711-4734	3.4	29
119	Iron acceptor pairs in silicon: Structure and formation processes. <i>Journal of Applied Physics</i> , 2001 , 90, 2744-2754	2.5	27
118	Imaging dislocation cores – the way forward. <i>Philosophical Magazine</i> , 2006 , 86, 4781-4796	1.6	24
117	Isolated nickel impurities in diamond: A microscopic model for the electrically active centers. <i>Applied Physics Letters</i> , 2004 , 84, 720-722	3.4	24
116	Dislocation core properties in semiconductors. <i>Solid State Communications</i> , 2001 , 118, 651-655	1.6	22
115	Structural and electronic properties of silicon nitride materials. <i>International Journal of Quantum Chemistry</i> , 1998 , 70, 973-980	2.1	21
114	Role of intrinsic defects in the electronic and optical properties of β -HgI ₂ . <i>Applied Physics Letters</i> , 2006 , 88, 011918	3.4	21
113	Structural order and clustering in annealed β -SiC and β -SiC:H. <i>Physical Review B</i> , 2002 , 65,	3.3	20
112	Finite-temperature molecular-dynamics study of unstable stacking fault free energies in silicon. <i>Physical Review B</i> , 1998 , 58, 12555-12558	3.3	20
111	Identification of combustion and detonation in spark ignition engines using ion current signal. <i>Fuel</i> , 2018 , 227, 469-477	7.1	18
110	Effects of extended defects on the properties of intrinsic and extrinsic point defects in silicon. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 473-475	2.8	18
109	Crystalline silicon oxycarbide: Is there a native oxide for silicon carbide?. <i>Applied Physics Letters</i> , 2004 , 84, 4845-4847	3.4	17
108	Quasiharmonic elastic constants corrected for deviatoric thermal stresses. <i>Physical Review B</i> , 2008 , 78,	3.3	16
107	Analytical and Experimental Performance Evaluations of CAN-FD Bus. <i>IEEE Access</i> , 2018 , 6, 21287-21295	3.5	15
106	Manganese impurities in boron nitride. <i>Applied Physics Letters</i> , 2006 , 89, 072102	3.4	15

105	Lanthanide impurities in wide bandgap semiconductors: A possible roadmap for spintronic devices. <i>Applied Physics Letters</i> , 2013 , 102, 062101	3.4	14
104	Structural, electronic, and vibrational properties of amino-adamantane and rimantadine isomers. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 11977-83	2.8	14
103	Dislocation core reconstruction in zinc-blende semiconductors. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 10039-10044	1.8	14
102	Electronic properties and hyperfine parameters of gold- δ -transition-metal impurity pairs in silicon. <i>Physical Review B</i> , 1998 , 58, 3870-3878	3.3	14
101	Transition metal atoms encapsulated in adamantane molecules. <i>Diamond and Related Materials</i> , 2011 , 20, 1222-1224	3.5	13
100	3d transition metal impurities in diamond: Electronic properties and chemical trends. <i>Physical Review B</i> , 2011 , 84,	3.3	13
99	Interaction of As impurities with 30 μ m partial dislocations in Si: An ab initio investigation. <i>Journal of Applied Physics</i> , 2002 , 91, 5892-5895	2.5	13
98	Carbonates at high pressures: Possible carriers for deep carbon reservoirs in the Earth's lower mantle. <i>Physical Review B</i> , 2016 , 94,	3.3	13
97	Stability of calcium and magnesium carbonates at Earth's lower mantle thermodynamic conditions. <i>Earth and Planetary Science Letters</i> , 2019 , 506, 1-7	5.3	13
96	Kinetic Monte Carlo approach to modeling dislocation mobility. <i>Computational Materials Science</i> , 2002 , 23, 124-130	3.2	12
95	Viscosity undulations in the lower mantle: The dynamical role of iron spin transition. <i>Earth and Planetary Science Letters</i> , 2015 , 421, 20-26	5.3	11
94	Defects in mercuric iodide: an APW investigation. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 918-922	2.8	11
93	A high directive Koch fractal Vivaldi antenna design for medical near-field microwave imaging applications. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 337-346	1.2	10
92	Electronic charge effects on dislocation cores in silicon. <i>Applied Physics Letters</i> , 2004 , 85, 5610-5612	3.4	10
91	Stacking fault effects in pure and n-type doped GaAs. <i>Applied Physics Letters</i> , 2001 , 78, 907-909	3.4	10
90	Core effects in dislocation intersection. <i>Scripta Materialia</i> , 1997 , 36, 707-712	5.6	9
89	A first principles investigation on hypothetical crystalline phases of silicon oxycarbide. <i>Diamond and Related Materials</i> , 2005 , 14, 1142-1145	3.5	9
88	Point defect interaction with dislocations in silicon. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 309-310, 129-132	5.3	9

87	The Structural and Electronic Properties of Tin Oxide Nanowires: An Ab Initio Investigation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13382-13387	3.8	8
86	Spin states of iron impurities in magnesium oxide under pressure: A possible intermediate state. <i>Physical Review B</i> , 2013 , 87,	3.3	7
85	Boron and nitrogen functionalized diamondoids: A first principles investigation. <i>Diamond and Related Materials</i> , 2010 , 19, 837-840	3.5	7
84	ELECTRONIC PROPERTIES OF COPPER-3d TRANSITION-METAL PAIRS IN SILICON. <i>International Journal of Modern Physics B</i> , 1999 , 13, 2387-2396	1.1	7
83	Interatomic Potential for Condensed Phases and Bulk Defects in Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 469, 217		6
82	An ab initio investigation on nickel impurities in diamond. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 84-88	2.8	6
81	Microscopic structure of the 90° and 30° partial dislocations in gallium arsenide. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12749-12754	1.8	6
80	Educational Test Bed 4.0: a teaching tool for Industry 4.0. <i>European Journal of Engineering Education</i> , 2020 , 45, 1002-1023	1.5	6
79	Twisted ultrathin silicon nanowires: A possible torsion electromechanical nanodevice. <i>Europhysics Letters</i> , 2014 , 108, 36006	1.6	5
78	Rare-earth impurities in gallium nitride: The role of the Hubbard potential. <i>Diamond and Related Materials</i> , 2012 , 27-28, 64-67	3.5	5
77	The Environment-Dependent Interatomic Potential Applied To Silicon Disordered Structures And Phase Transitions. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 491, 339		5
76	Energetics of silicon nanowires: a molecular dynamics investigation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 951-955	1.6	5
75	Cobalt in diamond: An ab initio investigation. <i>Diamond and Related Materials</i> , 2007 , 16, 819-822	3.5	5
74	Transition metal impurities in 3C-SiC and 2H-SiC. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 116-120	2.8	5
73	Arsenic segregation, pairing and mobility on the cores of partial dislocations in silicon. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12761-12765	1.8	5
72	Calcium carbonate at high pressures and high temperatures: A first-principles investigation. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 299, 106327	2.3	5
71	Spin transition-induced anomalies in the lower mantle: implications for mid-mantle partial layering. <i>Geophysical Journal International</i> , 2017 , 210, 765-773	2.6	4
70	Trends on 3d transition metal impurities in diamond. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4515-4517	2.8	4

69	Cobalt-related impurity centers in diamond: electronic properties and hyperfine parameters. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 415220	1.8	4
68	Electronic and magnetic properties of Mn and Fe impurities in III-nitride semiconductors. <i>Diamond and Related Materials</i> , 2007 , 16, 1429-1432	3.5	4
67	Behavior of 3d-transition metals in different SiC polytypes. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 378-381	2.8	4
66	Band gap states of interstitial nickel-complexes in diamond. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 292-295	2.8	4
65	Ab initio investigations on the dislocation core properties in zinc-blende semiconductors. <i>Computational Materials Science</i> , 2004 , 30, 67-72	3.2	4
64	On the reversibility of hydrogen effects on the properties of amorphous silicon carbide. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 299-302	3.9	4
63	Segregation of dopant atoms on extended defects in semiconductors. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 403-407	2.8	4
62	Reconstruction defects on partial dislocations in semiconductors. <i>Applied Physics Letters</i> , 2001 , 79, 3630-3632	3.4	4
61	Modelling Amorphous Materials: Silicon Nitride and Silicon Carbide. <i>Defect and Diffusion Forum</i> , 2002 , 206-207, 19-30	0.7	4
60	The effect of a stacking fault on the electronic properties of dopants in gallium arsenide. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 10235-10239	1.8	4
59	Defect centers in a-SiNx: electronic and structural properties. <i>Brazilian Journal of Physics</i> , 2002 , 32, 436-438	4.38	4
58	Generalized Adaptive Polynomial Window Function. <i>IEEE Access</i> , 2020 , 8, 187584-187589	3.5	4
57	Characterization of amorphous carbon films by PECVD and plasma ion implantation: The role of fluorine and sulfur doping. <i>Materials Chemistry and Physics</i> , 2019 , 227, 170-175	4.4	4
56	. <i>IEEE Access</i> , 2021 , 9, 74155-74167	3.5	4
55	Real-Time Adaptive Object Detection and Tracking for Autonomous Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 6, 450-459	5	4
54	Two-phase flow bubble detection method applied to natural circulation system using fuzzy image processing. <i>Nuclear Engineering and Design</i> , 2018 , 335, 255-264	1.8	3
53	Designing digital filter banks using wavelets. <i>Eurasip Journal on Advances in Signal Processing</i> , 2019 , 2019,	1.9	3
52	A theoretical model for the nickel-related defect centers in diamond. <i>Diamond and Related Materials</i> , 2005 , 14, 380-382	3.5	3

51	3d-Transition Metals in Cubic and Hexagonal Silicon Carbide. <i>Materials Science Forum</i> , 2005 , 483-485, 531-534	0.4	3
50	Titanium impurities in silicon, diamond, and silicon carbide. <i>Brazilian Journal of Physics</i> , 2004 , 34, 602-604	1.2	3
49	Electronic structure of light emitting centers in Er doped Si. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 991-997	2.6	3
48	Structural and electronic properties of Ti impurities in SiC: an ab initio investigation. <i>Computational Materials Science</i> , 2004 , 30, 57-61	3.2	3
47	The energetics of dislocation cores in semiconductors and their role on dislocation mobility. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 398-402	2.8	3
46	Electrically active centers in partial dislocations in semiconductors. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 489-492	2.8	3
45	Dynamics of Dissociated Dislocations in Si: A Micro-Meso Simulation Methodology. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 538, 69		3
44	A first principles investigation of mercuric iodide: bulk properties and intrinsic defects. <i>Brazilian Journal of Physics</i> , 2004 , 34, 681-683	1.2	3
43	A Fern Antipodal Vivaldi Antenna for Near-Field Microwave Imaging Medical Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	3
42	Advances and Perspectives in the Use of Carbon Nanotubes in Vaccine Development. <i>International Journal of Nanomedicine</i> , 2021 , 16, 5411-5435	7.3	3
41	A didactic platform to study of CAN FD bus 2013 ,		2
40	Crystal engineering using functionalized adamantane. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 315303	1.8	2
39	Publisher's Note: Anomalous thermodynamic properties in ferropericlase throughout its spin crossover [Phys. Rev. B 80, 014409 (2009)]. <i>Physical Review B</i> , 2009 , 80,	3.3	2
38	Atomistic Mechanisms of Dislocation Mobility in Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 469, 505		2
37	Atomistic modeling of crystal-defect mobility and interactions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 121, 251-256	1.2	2
36	Use of Composite Materials to Renovate a Steel Water Pipe. <i>Materials Science Forum</i> , 2004 , 455-456, 853-856	0.4	2
35	Nickel impurities in diamond: a FP-LAPW investigation. <i>Computational Materials Science</i> , 2004 , 30, 62-66	3.2	2
34	Nickel-Vacancy Complexes in Diamond: An Ab-Initio Investigation. <i>Materials Science Forum</i> , 2005 , 483-485, 1043-1046	0.4	2

33	Hydrogenated Amorphous Silicon Nitride: Structural and Electronic Properties. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 538, 555		2
32	Ultra-directive palm tree Vivaldi antenna with 3D substrate lens for biological near-field microwave reduction applications. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 713-719	1.2	2
31	Event-Triggered Non-Switching Networked Sliding Mode Control for Active Suspension System With Random Actuation Network Delay. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-14	6.1	2
30	Coronavirus and Carbon Nanotubes: Seeking Immunological Relationships to Discover Immunotherapeutic Possibilities.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 751-781	7.3	2
29	Carbon-Related Bilayers: Nanoscale Building Blocks for Self-Assembly Nanomanufacturing. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23195-23204	3.8	1
28	Real-Time Knock Characterization Using Adaptive Filters and Power Estimators. <i>IEEE Access</i> , 2020 , 8, 84371-84384	3.5	1
27	An efficient formulation for optimization of FlexRay frame scheduling. <i>Vehicular Communications</i> , 2020 , 24, 100234	5.7	1
26	A complete CMOS UWB Timed-Array Transmitter with a 3D vivaldi antenna array for electronic high-resolution beam spatial scanning 2013 ,		1
25	Iron and manganese-related magnetic centers in hexagonal silicon carbide: A possible roadmap for spintronic devices. <i>Journal of Applied Physics</i> , 2015 , 118, 045704	2.5	1
24	Iron in magnesium oxide at high pressures: a first principles theoretical investigation. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 750-754	1.3	1
23	Interaction of dislocations with vacancies in silicon: Electronic effects. <i>Applied Physics Letters</i> , 2007 , 90, 222106	3.4	1
22	Manganese Impurity in Boron Nitride and Gallium Nitride. <i>Materials Science Forum</i> , 2005 , 483-485, 1047-1050		1
21	Dopant interaction with a dislocation in silicon: local and non-local effects. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 470-473	2.8	1
20	Active Vivaldi Antenna Timed-Array for Ultra-Wideband 3D Beamforming. <i>Recent Patents on Engineering</i> , 2016 , 10, 121-127	0.3	1
19	Palm tree coplanar Vivaldi antenna for near field radar application. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 964-974	1.2	1
18	Design of a Microstrip Line Quad-band Bandpass Filter based on the Fibonacci geometric sequence 2020 ,		1
17	Digital Image Inpainting by Estimating Wavelet Coefficient Decays From Regularity Property and Besov Spaces. <i>IEEE Access</i> , 2019 , 7, 3459-3471	3.5	1
16	Simulation Performance Enhancement in Automotive Embedded Control Using the Unscented Transform. <i>IEEE Access</i> , 2020 , 8, 222041-222049	3.5	1

15	. <i>IEEE Access</i> , 2018 , 6, 53638-53649	3.5	1
14	Modeling Covalent Bond with Interatomic Potentials 2005 , 499-507		1
13	Low-cost didactic platform for real-time adaptive filtering: Application on noise cancellation. <i>International Journal of Electrical Engineering and Education</i> , 2019 , 002072091985218	0.6	0
12	ROADLANE—The Modular Framework to Support Recognition Algorithms of Road Lane Markings. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10783	2.6	0
11	Why Aren't Embedded Fuel-Quality Sensors in Our Cars?. <i>IEEE Potentials</i> , 2020 , 39, 43-47	1	
10	Teaching microcontrollers using automotive electronic systems. <i>International Journal of Electrical Engineering and Education</i> , 2016 , 53, 23-36	0.6	
9	A Feedback System Dynamic Response Analysis by Root-Locus Method Using Excel Spreadsheet and XNumbers Add-In Package. <i>International Journal of Electrical Engineering and Education</i> , 2013 , 50, 69-79	0.6	
8	A CMOS UWB transmitter with Vivaldi Array for Ultra-fast Beam steering microwave radar. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2013 , 12, 427-439	0.7	
7	Chemical Trends in Electronic Properties of Gold-3D Transition Metal Impurity Pairs in Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 469, 511		
6	Structural and Electronic Properties of Si _{1-x} C _x O ₂ . <i>Materials Science Forum</i> , 2005 , 483-485, 577-580	0.4	
5	Dislocations in Semiconductors: Core Structure and Mobility. <i>Defect and Diffusion Forum</i> , 2001 , 200-202, 97-106	0.7	
4	Point Defect Interactions with Extended Defects in Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 538, 419		
3	Unstable Stacking Fault Free Energies in Silicon through Empirical Modeling. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 539, 175		
2	Silicon Nanowires: From Empirical to First Principles Modeling. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010 , 173-191	0.7	
1	Modeling Covalent Bond with Interatomic Potentials 2005 , 499-507		