

Jacek A Majewski

List of Publications by Year in descending order

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51
papers

4,214
citations

361045

20
h-index

276539

41
g-index

51
all docs

51
docs citations

51
times ranked

4296
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Kohn-Sham schemes and the band-gap problem. <i>Physical Review B</i> , 1996, 53, 3764-3774.	1.1	1,075
2	Pyroelectric properties of Al(In)GaN/GaN hetero- and quantum well structures. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3399-3434.	0.7	864
3	Exact exchange Kohn-Sham formalism applied to semiconductors. <i>Physical Review B</i> , 1999, 59, 10031-10043.	1.1	358
4	Exact Kohn-Sham Exchange Potential in Semiconductors. <i>Physical Review Letters</i> , 1997, 79, 2089-2092.	2.9	329
5	First-principles studies of the structural and optical properties of crystalline poly(para-phenylene). <i>Physical Review B</i> , 1995, 51, 9668-9676.	1.1	231
6	Experimental probing of the interplay between ferromagnetism and localization in (Ga,Mn)As. <i>Nature Physics</i> , 2010, 6, 22-25.	6.5	211
7	Simple model for structural properties and crystal stability of sp ³ -bonded solids. <i>Physical Review B</i> , 1987, 35, 9666-9682.	1.1	162
8	Exciton fine structure in undoped GaN epitaxial films. <i>Physical Review B</i> , 1996, 53, 16543-16550.	1.1	150
9	Ab initio calculations of third-order elastic constants and related properties for selected semiconductors. <i>Physical Review B</i> , 2007, 76, .	1.1	109
10	Crystal Stability and Structural Transition Pressures of sp ³ -Bonded Solids. <i>Physical Review Letters</i> , 1986, 57, 1366-1369.	2.9	77
11	Van Der Waals Density Functionals for Graphene Layers and Graphite. <i>Acta Physica Polonica A</i> , 2011, 120, 845-848.	0.2	77
12	Functionalization of carbon nanotubes with -CH _n , -NH _n fragments, -COOH and -OH groups. <i>Journal of Chemical Physics</i> , 2013, 138, 194704.	1.2	55
13	Stability and band offsets of polar GaN/SiC(001) and AlN/SiC(001) interfaces. <i>Physical Review B</i> , 1997, 56, 6911-6920.	1.1	52
14	Origin of Bulk Uniaxial Anisotropy in Zinc-Blende Dilute Magnetic Semiconductors. <i>Physical Review Letters</i> , 2012, 108, 237203.	2.9	52
15	Graphene-Based Sensors: Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17395-17401.	1.5	45
16	Advances in the theory of electronic structure of semiconductors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2003-2027.	0.8	43
17	Manipulating Mn ²⁺ Mg ²⁺ cation complexes to control the charge- and spin-state of Mn in GaN. <i>Scientific Reports</i> , 2012, 2, 722.	1.6	43
18	Mechanical and electrical properties of carbon nanotubes and graphene layers functionalized with amines. <i>Diamond and Related Materials</i> , 2012, 23, 167-171.	1.8	32

#	ARTICLE	IF	CITATIONS
19	Elastic properties of functionalized carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14303.	1.3	26
20	Surface-Related Features Responsible for Cytotoxic Behavior of MXenes Layered Materials Predicted with Machine Learning Approach. <i>Materials</i> , 2020, 13, 3083.	1.3	22
21	Borohydride as Magnetic Superexchange Pathway in Late Lanthanide Borohydrides. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1776-1783.	1.0	18
22	Forces and atomic relaxation in density functional theory with the pseudopotential self-interaction correction. <i>Physical Review B</i> , 2011, 84, .	1.1	16
23	Stability and electronic structure of covalently functionalized graphene layers. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1474-1477.	0.7	16
24	Electronic structure of graphene functionalized with boron and nitrogen. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1167-1171.	0.8	15
25	(Ga,Mn)As under pressure: A first-principles investigation. <i>Physical Review B</i> , 2015, 91, .	1.1	15
26	Ordering in ternary nitride semiconducting alloys. <i>Physical Review B</i> , 2012, 85, .	1.1	12
27	Energy decomposition analysis of neutral and negatively charged borophenes. <i>FlatChem</i> , 2018, 7, 42-47.	2.8	12
28	Graphene-iron(II) Phthalocyanine Hybrid Systems for Scalable Molecular Spintronics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27645-27655.	1.5	12
29	Electronic structure and magneto-optical properties of silicon-nitrogen-vacancy complexes in diamond. <i>Physical Review B</i> , 2020, 102, .	1.1	10
30	Superexchange dominates in magnetic topological insulators. <i>Physical Review B</i> , 2021, 104, .	1.1	10
31	Mechanical, electrical, and magnetic properties of functionalized carbon nanotubes. , 2011, , .		9
32	Nematicity of correlated systems driven by anisotropic chemical phase separation. <i>Physical Review Materials</i> , 2018, 2, .	0.9	9
33	Nitride heterostructures: a system for high frequency electronics. <i>Computational Materials Science</i> , 2004, 30, 81-91.	1.4	7
34	Assessment of approaches for dispersive forces employing semihydrogenated graphene as a case study. <i>Computational Materials Science</i> , 2021, 186, 109940.	1.4	7
35	Pressure and temperature dependence of gain in InGaAs/GaAs laser diode. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 217-221.	0.7	6
36	Morphology, Ordering, Stability, and Electronic Structure of Carbon-Doped Hexagonal Boron Nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800554.	0.7	5

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37	Nonlinear piezoelectric properties of GaN quantum dots nucleated at the edge of threading dislocations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 2399-2402.	0.8	4
38	Efficient implementation of the many-body Reactive Bond Order (REBO) potential on GPU. <i>Journal of Computational Physics</i> , 2016, 321, 556-570.	1.9	4
39	Ab initio studies of Co ₂ FeAl _{1-x} Si _x Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 409, 62-65.	1.0	3
40	Energetic, electronic, and magnetic properties of Mn pairs on reconstructed (001) GaAs surfaces. <i>Physical Review B</i> , 2017, 95, .	1.1	3
41	Ab initio studies of carbon dioxide affinity to carbon compounds and minerals. <i>Energy Procedia</i> , 2017, 125, 450-456.	1.8	3
42	Fröhlich resonance in carbon nanospiroids and the 2175 Å... interstellar absorption feature. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 393, 59-62.	0.6	3
43	Ab-initio study of structural, mechanical and electronic properties of functionalized carbon nanotubes. , 2013, , .		2
44	Pressure dependence of elastic constants in wurtzite and zinc-blende nitrides and their influence on the optical pressure coefficients in nitride heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2004, 831, 120.	0.1	0
45	Theory of Spin Transport Across Domain-Walls in (Ga,Mn)As. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
46	Spin Splitting in Semiconductors – Predictions of Relativistic Exact Exchange Density Functional Theory. , 2010, , .		0
47	Zero field spin induced by strain and symmetry reduction semiconductors and their heterostructures. , 2011, , .		0
48	Mechanical, electronic, and transport properties of functionalized graphene monolayers from ab initio studies. , 2013, , .		0
49	Monte Carlo studies of ordering in nitride ternary alloys. , 2013, , .		0
50	Ab initio modeling of graphene layer functionalized with boron and nitrogen. , 2013, , .		0
51	BASICS OF SPINTRONICS: FROM METALLIC TO ALL-SEMICONDUCTOR MAGNETIC TUNNEL JUNCTIONS. , 2008, , .		0