

Piotr Boguslawski

List of Publications by Year in descending order

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46
papers

1,803
citations

471061

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288905

40
g-index

46
all docs

46
docs citations

46
times ranked

1735
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn Interstitial Diffusion in(Ga,Mn)As. Physical Review Letters, 2004, 92, 037201.	2.9	476
2	Towards the Identification of the Dominant Donor in GaN. Physical Review Letters, 1995, 75, 296-299.	2.9	295
3	Doping properties of C, Si, and Ge impurities in GaN and AlN. Physical Review B, 1997, 56, 9496-9505.	1.1	233
4	Ab InitioStudies of the Diffusion Barriers at Single-Height Si(100) Steps. Physical Review Letters, 1995, 75, 101-104.	2.9	107
5	Magnetic and structural properties ofIIA ²⁺ Vnitrides. Physical Review B, 2007, 75, .	1.1	86
6	GaAs:N vs GaAs:B alloys: Symmetry-induced effects. Physical Review B, 2001, 64, .	1.1	68
7	Structure of monatomic steps on the Si(001) surface. Physical Review Letters, 1994, 72, 3694-3697.	2.9	56
8	Elastic Electron Scattering in Symmetryâ€­Induced Zeroâ€­Gap Semiconductors. Physica Status Solidi (B): Basic Research, 1974, 65, 641-654.	0.7	54
9	Magnetism of CaAs, CaP, and CaN half-metals. Journal of Alloys and Compounds, 2006, 423, 191-193.	2.8	51
10	Structural Properties of MnTe, ZnTe, and ZnMnTe. Acta Physica Polonica A, 2004, 106, 233-238.	0.2	33
11	Calculated electronic structure of Ph<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ²</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>	1.1	31
12	Surface Segregation of Ge at SiGe(001) by Concerted Exchange Pathways. Physical Review Letters, 2002, 88, 166101.	2.9	30
13	Fermi-level effects on the electronic structure and magnetic couplings in (Ga,Mn)N. Physical Review B, 2005, 72, .	1.1	28
14	Excess elastic energy and the instability of (GaAs) ₁ (InAs) ₁ (0 0 1), Ga ₃ InAs ₄ , Ga ₃ InAs ₄ and Ga _{1âˆ²} xIn _x As alloys. Solid State Communications, 1988, 66, 679-682.	0.9	27
15	Surface segregation and interface stability of AlN/GaN, GaN/InN, and AlN/InN {0001} epitaxial systems. Physical Review B, 2000, 61, 10820-10826.	1.1	26
16	Theory of nitrogen doping of carbon nanoribbons: Edge effects. Journal of Chemical Physics, 2012, 136, 014702.	1.2	26
17	Nonpolar Scattering of Electrons by Optical Phonons in Smallâ€­Gap Semiconductors. Physica Status Solidi (B): Basic Research, 1975, 70, 53-62.	0.7	24
18	Fe dopant in ZnO: 2+ versus 3+ valency and ion-carrier <math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>s</mml:mi></mml:mrow></math> exchange interaction. Physical Review B, 2016, 94, .	1.1	18

#	ARTICLE	IF	CITATIONS
19	Segregation effects at vacancies in $\text{Al}_x\text{Ga}_{1-x}\text{N}$ and $\text{Si}_x\text{Ge}_{1-x}$ alloys. <i>Physical Review B</i> , 1999, 59, 1567-1570.	1.1	16
20	Alloy broadening of the transition to the nontrivial topological phase of $\text{Pb}_{1-x}\text{Sn}_x$. <i>Physical Review B</i> , 2018, 98, .	1.1	16
21	Elastic Properties of Zinc Blende MnTe. <i>Acta Physica Polonica A</i> , 2004, 106, 239-247.	0.2	13
22	Optical-gap reduction in the ordered phases of GaInAs solid solution. <i>Solid State Communications</i> , 1989, 70, 1085-1090.	0.9	10
23	Interfacial Segregation and Electrodiffusion of Dopants in AlN/GaN Superlattices. <i>Physical Review Letters</i> , 2006, 96, 185501.	2.9	10
24	Metastability of Mn^{3+} in ZnO driven by strong d (Mn) intrashell Coulomb repulsion: Experiment and theory. <i>Physical Review B</i> , 2016, 94, .	1.1	10
25	Ionicity-dependent structural properties of zinc-blende semiconductors. <i>Solid State Communications</i> , 1986, 57, 623-626.	0.9	7
26	Properties of wurtzite $w\text{-MnN}$ and of $w\text{-MnN}$ inclusions in $(\text{Ga},\text{Mn})\text{N}$. <i>Applied Physics Letters</i> , 2006, 88, 092502.	1.5	7
27	DFT calculations of magnetic anisotropy energy of $\text{Ge}_{1-x}\text{Mn}_x\text{Te}$ ferromagnetic semiconductor. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 226002.	0.7	6
28	Green luminescence and calculated optical properties of Cu ions in ZnO. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1024-1030.	2.8	6
29	Influence of Chemistry on the Energy Band Structure: AlAs Versus GaAs. <i>Acta Physica Polonica A</i> , 1991, 80, 433-436.	0.2	6
30	Transition metal ions in ZnO: Effects of intrashell coulomb repulsion on electronic properties. <i>Optical Materials</i> , 2018, 79, 264-268.	1.7	5
31	Transition Metal Ions in Semiconductors: LDA, LDA+U, and Experiment. <i>Acta Physica Polonica A</i> , 2015, 127, 321-323.	0.2	4
32	Magnetic anisotropy energy in disordered $\text{Ge}_{1-x}\text{Mn}_x$. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 788-795.	1.0	4
33	Calculated optical properties of Co in ZnO: internal and ionization transitions. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 255501.	0.7	4
34	Electronic Structure and Optical Properties of $\text{GaAs}_{1-x}\text{N}_x$ and $\text{Ga}_{1-x}\text{B}_x\text{As}$ Alloys. <i>Acta Physica Polonica A</i> , 2002, 102, 633-641.	0.2	4
35	Magnetic Anisotropy in GeMnTe - ab initio Calculations. <i>Acta Physica Polonica A</i> , 2014, 126, 1177-1179.	0.2	3
36	Band structure and topological phases of $\text{Pb}_{1-x}\text{Sn}_x$ by ab initio calculations. <i>Physical Review B</i> , 2021, 103, .	1.1	16

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37	The Theory of the Electron Spinâ€“Lattice Relaxation in Zinblende Semiconductors. Physica Status Solidi (B): Basic Research, 1981, 104, 89-95.	0.7	1
38	Properties of p-Type ZnO Grown by Oxidation of Zn-Group-V Compounds. Materials Research Society Symposia Proceedings, 2006, 957, 1.	0.1	1
39	Towards efficient p-type doping of ZnO with group-V atoms: N versus As and Sb. AIP Conference Proceedings, 2007, , .	0.3	1
40	Impact of Exchange-Correlations Effects (+U Corrections) on the Energy Levels of Mn and Fe Impurities in GaN and AlN: A Comparison with Experiment. Acta Physica Polonica A, 2013, 124, 898-900.	0.2	1
41	Theory of Electronic Structure and Magnetic Interactions in (Ga,Mn)N and (Ga,Mn)As. AIP Conference Proceedings, 2005, , .	0.3	0
42	Theoretical Approach to Polarization Effects in Semiconductors. , 2008, , 2-25.		0
43	Influence of the electrical conductivity on magnetic properties of CdZnMnTe epitaxial layers. , 2010, , .		0
44	Surface Stability of Ordered Ga _{0.5} In _{0.5} P and GaAs _{0.5} Sb _{0.5} Alloys. Acta Physica Polonica A, 1991, 79, 125-128.	0.2	0
45	Thermodynamic Stability of Two Rhombohedral Phases of Si _{0.5} Ge _{0.5} Alloy. Acta Physica Polonica A, 1991, 80, 299-302.	0.2	0
46	Topological Phase Diagram of Semimagnetic Semiconductor Pb _{1-x} Sn _x Mn _y Te. Acta Physica Polonica A, 2022, 141, 156-160.	0.2	0