

Dominik SzczÄÅniak

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

414
citations

687363

13
h-index

839539

18
g-index

40
all docs

40
docs citations

40
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced superconductivity in the fcc phase of lithium: Strong-coupling approach. <i>Physica B: Condensed Matter</i> , 2010, 405, 4897-4902.	2.7	35
2	Characterization of the high-pressure superconductivity in the $Pnma$ phase of calcium. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2194-2201.	1.5	28
3	Superconducting state in the atomic metallic hydrogen just above the pressure of the molecular dissociation. <i>Solid State Communications</i> , 2012, 152, 2023-2026.	1.9	27
4	On the high-pressure superconducting phase in platinum hydride. <i>Superconductor Science and Technology</i> , 2015, 28, 085018.	3.5	27
5	Study of the superconducting phase in silicene under biaxial tensile strain. <i>Solid State Communications</i> , 2014, 200, 17-21.	1.9	23
6	Quantum conductance of silicon-doped carbon wire nanojunctions. <i>Nanoscale Research Letters</i> , 2012, 7, 616.	5.7	21
7	Thermodynamic investigations of high-pressure superconducting state in $CaLi_2$ at 45 GPa. <i>Solid State Communications</i> , 2012, 152, 779-783.	1.9	20
8	Influence of lithium doping on the thermodynamic properties of graphene based superconductors. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 255701.	1.8	18
9	Signatures of nonadiabatic superconductivity in lithium-decorated graphene. <i>Physical Review B</i> , 2019, 99, .	3.2	17
10	Study of the superconducting state in the $Cmmm$ phase of GeH_4 compound. <i>Solid State Communications</i> , 2013, 165, 39-44.	1.9	15
11	The Thermodynamic Critical Field of YNi_2B_2C Superconductor. <i>Acta Physica Polonica A</i> , 2010, 118, 1031-1033.	0.5	14
12	Electronic conductance via atomic wires: a phase field matching theory approach. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	13
13	Description of the superconducting state in the high-pressure fcc phase of platinum hydride. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 178-183.	1.5	13
14	Isotropic and anisotropic description of superconducting state in CaC_6 compound. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	13
15	Canonical Schottky barrier heights of transition metal dichalcogenide monolayers in contact with a metal. <i>Physical Review B</i> , 2018, 97, .	3.2	12
16	Cosmology in the mimetic higher-curvature $f(R, R_{\mu\nu}R^{\mu\nu})$ gravity. <i>Scientific Reports</i> , 2021, 11, 18363.	3.3	10
17	Energy band gaps in graphene nanoribbons with corners. <i>Europhysics Letters</i> , 2016, 114, 48001.	2.0	9
18	Superconducting properties of lithium-decorated bilayer graphene. <i>Europhysics Letters</i> , 2015, 111, 18003.	2.0	7

#	ARTICLE	IF	CITATIONS
19	Characterization of the superconducting state in hafnium hydride under high pressure. <i>Physica B: Condensed Matter</i> , 2018, 536, 275-279.	2.7	7
20	Gap states and valley-spin filtering in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2020, 101, .	3.2	7
21	Phonon-mediated superconductivity in bismuthates by nonadiabatic pairing. <i>Physical Review B</i> , 2021, 104, .	3.2	7
22	Complex band structures of transition metal dichalcogenide monolayers with spin-orbit coupling effects. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 355301.	1.8	7
23	On the superconducting state in $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ perovskite oxide. <i>Physica B: Condensed Matter</i> , 2018, 536, 676-681.	2.7	6
24	Unexpected Xe Cations and Superconductivity in YXe Intermediate Compounds under Pressure. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9323-9330.	3.1	6
25	The Predicted fcc Superconducting Phase for Compressed Se and Te. <i>Chinese Physics Letters</i> , 2013, 30, 027401.	3.3	5
26	Thermodynamics of the hydrogen dominant potassium hydride superconductor at high pressure. <i>Solid State Communications</i> , 2015, 212, 1-4.	1.9	5
27	Superconducting state in bromium halide at high pressure. <i>Physica B: Condensed Matter</i> , 2016, 495, 106-116.	2.7	5
28	Cosmological reconstruction and energy constraints in generalized Gauss-Bonnet-scalar kinetic matter couplings. <i>Scientific Reports</i> , 2020, 10, 18076.	3.3	5
29	Thermodynamics of the superconducting phase in compressed $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$. <i>Physica B: Condensed Matter</i> , 2018, 536, 676-681.	1.9	4
30	On the critical temperature discontinuity at the theoretical bcc-fcc phase transition in compressed selenium and tellurium superconductors. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 445602.	1.8	4
31	Superconducting properties of under- and over-doped $\text{Ba}_{1-x}\text{BiO}_3$ perovskite oxide. <i>Modern Physics Letters B</i> , 2018, 32, 1850174.	1.9	4
32	A simple analytical model for electronic conductance in a one dimensional atomic chain across a defect. <i>Journal of Physics: Conference Series</i> , 2011, 289, 012013.	0.4	3
33	Study of superconducting phase in cubic anti-perovskite Cr_3RhN . <i>Physica C: Superconductivity and Its Applications</i> , 2017, 541, 10-15.	1.2	3
34	Unbalanced Superconductivity Induced by the Constant Electron-Phonon Coupling on a Square Lattice. <i>Annalen Der Physik</i> , 2018, 530, 1800139.	2.4	3
35	Thermodynamic Critical Magnetic Field for Chlorine Halide Superconductor at High Pressure. <i>Acta Physica Polonica A</i> , 2014, 126, 344-345.	0.5	2
36	Energy Gap and Electron Effective Mass in Chlorine Halide Superconductor at High Pressure. <i>Chinese Physics Letters</i> , 2014, 31, 117401.	3.3	2

#	ARTICLE	IF	CITATIONS
37	Characterization of Novel High-Pressure Close-Packed Superconducting Phase of Boron. Acta Physica Polonica A, 2015, 127, 254-256.	0.5	2
38	Thermodynamic parameters of Zr superconductor at α structural phase transition. Physica Status Solidi (B): Basic Research, 2016, 253, 538-544.	1.5	2
39	Magnetic flux noise in superconducting qubits and the gap states continuum. Scientific Reports, 2021, 11, 1813.	3.3	2
40	Thermodynamics of the CaLi_2 Superconductor in the Vicinity of Structural Phase Transition. Chinese Physics Letters, 2014, 31, 087401.	3.3	1