

# Dominik SzczÄÅniak

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

414  
citations

687220

13  
h-index

839398

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.	1.3	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.	0.7	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.	0.9	27
4	On the high-pressure superconducting phase in platinum hydride. <i>Superconductor Science and Technology</i> , 2015, 28, 085018.	1.8	27
5	Study of the superconducting phase in silicene under biaxial tensile strain. <i>Solid State Communications</i> , 2014, 200, 17-21.	0.9	23
6	Quantum conductance of silicon-doped carbon wire nanojunctions. <i>Nanoscale Research Letters</i> , 2012, 7, 616.	3.1	21
7	Thermodynamic investigations of high-pressure superconducting state in $CaLi_2$ at 45 GPa. <i>Solid State Communications</i> , 2012, 152, 779-783.	0.9	20
8	Influence of lithium doping on the thermodynamic properties of graphene based superconductors. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 255701.	0.7	18
9	Signatures of nonadiabatic superconductivity in lithium-decorated graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	17
10	Study of the superconducting state in the $Cmmm$ phase of $GeH_4$ compound. <i>Solid State Communications</i> , 2013, 165, 39-44.	0.9	15
11	The Thermodynamic Critical Field of $YNi_2B_2C$ Superconductor. <i>Acta Physica Polonica A</i> , 2010, 118, 1031-1033.	0.2	14
12	Electronic conductance via atomic wires: a phase field matching theory approach. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	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.	0.7	13
14	Isotropic and anisotropic description of superconducting state in $CaC_6$ compound. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	13
15	Canonical Schottky barrier heights of transition metal dichalcogenide monolayers in contact with a metal. <i>Physical Review B</i> , 2018, 97, .	1.1	12
16	Cosmology in the mimetic higher-curvature $f(R, R_{\mu\nu}R^{\mu\nu})$ gravity. <i>Scientific Reports</i> , 2021, 11, 18363.	1.6	10
17	Energy band gaps in graphene nanoribbons with corners. <i>Europhysics Letters</i> , 2016, 114, 48001.	0.7	9
18	Superconducting properties of lithium-decorated bilayer graphene. <i>Europhysics Letters</i> , 2015, 111, 18003.	0.7	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.	1.3	7
20	Gap states and valley-spin filtering in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2020, 101, .	1.1	7
21	Phonon-mediated superconductivity in bismuthates by nonadiabatic pairing. <i>Physical Review B</i> , 2021, 104, .	1.1	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.	0.7	7
23	On the superconducting state in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ perovskite oxide. <i>Physica B: Condensed Matter</i> , 2018, 536, 676-681.	1.1	6
24	Unexpected Xe Cations and Superconductivity in $\text{YXe}$ Intermediate Compounds under Pressure. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9323-9330.	1.5	6
25	The Predicted fcc Superconducting Phase for Compressed Se and Te. <i>Chinese Physics Letters</i> , 2013, 30, 027401.	1.3	5
26	Thermodynamics of the hydrogen dominant potassium hydride superconductor at high pressure. <i>Solid State Communications</i> , 2015, 212, 1-4.	0.9	5
27	Superconducting state in bromium halide at high pressure. <i>Physica B: Condensed Matter</i> , 2016, 495, 106-116.	1.3	5
28	Cosmological reconstruction and energy constraints in generalized Gauss-Bonnet-scalar kinetic matter couplings. <i>Scientific Reports</i> , 2020, 10, 18076.	1.6	5
29	Thermodynamics of the superconducting phase in compressed $\text{CaMg}_2\text{B}_2\text{C}_2$ . <i>Physica B: Condensed Matter</i> , 2018, 536, 676-681.	0.9	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.	0.7	4
31	Superconducting properties of under- and over-doped $\text{Ba}_{1-x}\text{Bi}_x\text{O}_3$ perovskite oxide. <i>Modern Physics Letters B</i> , 2018, 32, 1850174.	1.0	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.	0.3	3
33	Study of superconducting phase in cubic anti-perovskite $\text{Cr}_3\text{RhN}$ . <i>Physica C: Superconductivity and Its Applications</i> , 2017, 541, 10-15.	0.6	3
34	Unbalanced Superconductivity Induced by the Constant Electron-Phonon Coupling on a Square Lattice. <i>Annalen Der Physik</i> , 2018, 530, 1800139.	0.9	3
35	Thermodynamic Critical Magnetic Field for Chlorine Halide Superconductor at High Pressure. <i>Acta Physica Polonica A</i> , 2014, 126, 344-345.	0.2	2
36	Energy Gap and Electron Effective Mass in Chlorine Halide Superconductor at High Pressure. <i>Chinese Physics Letters</i> , 2014, 31, 117401.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Characterization of Novel High-Pressure Close-Packed Superconducting Phase of Boron. Acta Physica Polonica A, 2015, 127, 254-256.	0.2	2
38	Thermodynamic parameters of Zr superconductor at $\alpha$ structural phase transition. Physica Status Solidi (B): Basic Research, 2016, 253, 538-544.	0.7	2
39	Magnetic flux noise in superconducting qubits and the gap states continuum. Scientific Reports, 2021, 11, 1813.	1.6	2
40	Thermodynamics of the $\text{CaLi}_2$ Superconductor in the Vicinity of Structural Phase Transition. Chinese Physics Letters, 2014, 31, 087401.	1.3	1