

# 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	Magnetic flux noise in superconducting qubits and the gap states continuum. <i>Scientific Reports</i> , 2021, 11, 1813.	1.6	2
2	Phonon-mediated superconductivity in bismuthates by nonadiabatic pairing. <i>Physical Review B</i> , 2021, 104, .	1.1	7
3	Cosmology in the mimetic higher-curvature $f(R, R_{\mu\nu}^{\mu\nu})$ gravity. <i>Scientific Reports</i> , 2021, 11, 18363.	1.6	10
4	Cosmological reconstruction and energy constraints in generalized Gauss-Bonnet-scalar kinetic matter couplings. <i>Scientific Reports</i> , 2020, 10, 18076.	1.6	5
5	Gap states and valley-spin filtering in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2020, 101, .	1.1	7
6	Signatures of nonadiabatic superconductivity in lithium-decorated graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	17
7	Unexpected Xe Cations and Superconductivity in Xe Intermediate Compounds under Pressure. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9323-9330.	1.5	6
8	Characterization of the superconducting state in hafnium hydride under high pressure. <i>Physica B: Condensed Matter</i> , 2018, 536, 275-279.	1.3	7
9	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.	1.3	6
10	Unbalanced Superconductivity Induced by the Constant Electron-Phonon Coupling on a Square Lattice. <i>Annalen Der Physik</i> , 2018, 530, 1800139.	0.9	3
11	Canonical Schottky barrier heights of transition metal dichalcogenide monolayers in contact with a metal. <i>Physical Review B</i> , 2018, 97, .	1.1	12
12	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
13	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
14	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
15	Superconducting state in bromium halide at high pressure. <i>Physica B: Condensed Matter</i> , 2016, 495, 106-116.	1.3	5
16	Thermodynamic parameters of Zr superconductor at structural phase transition. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 538-544.	0.7	2
17	Energy band gaps in graphene nanoribbons with corners. <i>Europhysics Letters</i> , 2016, 114, 48001.	0.7	9
18	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

#	ARTICLE	IF	CITATIONS
19	Isotropic and anisotropic description of superconducting state in CaC <sub>6</sub> compound. European Physical Journal B, 2015, 88, 1.	0.6	13
20	Superconducting properties of lithium-decorated bilayer graphene. Europhysics Letters, 2015, 111, 18003.	0.7	7
21	Characterization of Novel High-Pressure Close-Packed Superconducting Phase of Boron. Acta Physica Polonica A, 2015, 127, 254-256.	0.2	2
22	On the high-pressure superconducting phase in platinum hydride. Superconductor Science and Technology, 2015, 28, 085018.	1.8	27
23	Thermodynamics of the hydrogen dominant potassium hydride superconductor at high pressure. Solid State Communications, 2015, 212, 1-4.	0.9	5
24	Thermodynamic Critical Magnetic Field for Chlorine Halide Superconductor at High Pressure. Acta Physica Polonica A, 2014, 126, 344-345.	0.2	2
25	Thermodynamics of the CaLi <sub>2</sub> Superconductor in the Vicinity of Structural Phase Transition. Chinese Physics Letters, 2014, 31, 087401.	1.3	1
26	Energy Gap and Electron Effective Mass in Chlorine Halide Superconductor at High Pressure. Chinese Physics Letters, 2014, 31, 117401.	1.3	2
27	Study of the superconducting phase in silicene under biaxial tensile strain. Solid State Communications, 2014, 200, 17-21.	0.9	23
28	Thermodynamics of the superconducting phase in compressed $\text{SiO}_2$ . overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/comm	0.9	4
29	Influence of lithium doping on the thermodynamic properties of graphene based superconductors. Journal of Physics Condensed Matter, 2014, 26, 255701.	0.7	18
30	Description of the superconducting state in the high-pressure fcc phase of platinum hydride. Physica Status Solidi (B): Basic Research, 2014, 251, 178-183.	0.7	13
31	Study of the superconducting state in the Cmmm phase of GeH <sub>4</sub> compound. Solid State Communications, 2013, 165, 39-44.	0.9	15
32	The Predicted fcc Superconducting Phase for Compressed Se and Te. Chinese Physics Letters, 2013, 30, 027401.	1.3	5
33	Superconducting state in the atomic metallic hydrogen just above the pressure of the molecular dissociation. Solid State Communications, 2012, 152, 2023-2026.	0.9	27
34	Quantum conductance of silicon-doped carbon wire nanojunctions. Nanoscale Research Letters, 2012, 7, 616.	3.1	21
35	Characterization of the high-pressure superconductivity in the <i>Pnma</i> phase of calcium. Physica Status Solidi (B): Basic Research, 2012, 249, 2194-2201.	0.7	28
36	Thermodynamic investigations of high-pressure superconducting state in CaLi <sub>2</sub> at 45 GPa. Solid State Communications, 2012, 152, 779-783.	0.9	20

#	ARTICLE	IF	CITATIONS
37	Electronic conductance via atomic wires: a phase field matching theory approach. European Physical Journal B, 2012, 85, 1.	0.6	13
38	A simple analytical model for electronic conductance in a one dimensional atomic chain across a defect. Journal of Physics: Conference Series, 2011, 289, 012013.	0.3	3
39	Pressure-induced superconductivity in the fcc phase of lithium: Strong-coupling approach. Physica B: Condensed Matter, 2010, 405, 4897-4902.	1.3	35
40	The Thermodynamic Critical Field of YNi <sub>2</sub> B <sub>2</sub> C Superconductor. Acta Physica Polonica A, 2010, 118, 1031-1033.	0.2	14