

Slaven Garaj

List of Publications by Year in descending order

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55
papers

7,010
citations

218677

26
h-index

214800

47
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all docs

56
docs citations

56
times ranked

9033
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling covalent chemistry on graphene oxide. <i>Nature Reviews Physics</i> , 2022, 4, 247-262.	26.6	78
2	Modulation of Spin Dynamics in 2D Transition-Metal Dichalcogenide via Strain-Driven Symmetry Breaking. <i>Advanced Science</i> , 2022, , 2200816.	11.2	4
3	Defect-Rich Molybdenum Sulfide Quantum Dots for Amplified Photoluminescence and Photonics-Driven Reactive Oxygen Species Generation. <i>Advanced Materials</i> , 2022, 34, .	21.0	23
4	Tunable Optical Properties of Thin Films Controlled by the Interface Twist Angle. <i>Nano Letters</i> , 2021, 21, 2832-2839.	9.1	26
5	DNA Knot Malleability in Single-Digit Nanopores. <i>Nano Letters</i> , 2021, 21, 3772-3779.	9.1	14
6	Toxicity of Two-Dimensional Layered Materials and Their Heterostructures. <i>Bioconjugate Chemistry</i> , 2019, 30, 2287-2299.	3.6	49
7	Complex DNA knots detected with a nanopore sensor. <i>Nature Communications</i> , 2019, 10, 4473.	12.8	85
8	Nanopores in 2D MoS ₂ : Defect-Mediated Formation and Density Modulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26228-26234.	8.0	22
9	Chemically activated MoS ₂ for efficient hydrogen production. <i>Nano Energy</i> , 2019, 57, 535-541.	16.0	95
10	Defect engineered bioactive transition metals dichalcogenides quantum dots. <i>Nature Communications</i> , 2019, 10, 41.	12.8	168
11	Crested two-dimensional transistors. <i>Nature Nanotechnology</i> , 2019, 14, 223-226.	31.5	129
12	Two-Dimensional Mo _{1-x} W _x S ₂ Graded Alloys: Growth and Optical Properties. <i>Scientific Reports</i> , 2018, 8, 12889.	3.3	24
13	Directing Assembly and Disassembly of 2D MoS ₂ Nanosheets with DNA for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15286-15296.	8.0	232
14	Scalable Graphene-Based Membranes for Ionic Sieving with Ultrahigh Charge Selectivity. <i>Nano Letters</i> , 2017, 17, 728-732.	9.1	166
15	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , 2017, 358, 511-513.	12.6	418
16	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016, 538, 222-225.	27.8	483
17	Low-Dimensional Transition Metal Dichalcogenide Nanostructures Based Sensors. <i>Advanced Functional Materials</i> , 2016, 26, 7034-7056.	14.9	208
18	Diffusion-Mediated Synthesis of MoS ₂ /WS ₂ Lateral Heterostructures. <i>Nano Letters</i> , 2016, 16, 5129-5134.	9.1	129

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19	Nucleic Acid Sequencing and Analysis with Nanopores. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 287-303.	0.2	0
20	Molecule-hugging graphene nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12192-12196.	7.1	229
21	Optofluidic Devices for Light Manipulation and Bio-sensing. , 2013, , 1-13.		0
22	Embedding a carbon nanotube across the diameter of a solid state nanopore. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011, 29, 053001.	1.2	11
23	Graphene as a subnanometre trans-electrode membrane. <i>Nature</i> , 2010, 467, 190-193.	27.8	1,259
24	Graphene synthesis by ion implantation. <i>Applied Physics Letters</i> , 2010, 97, 183103.	3.3	103
25	Probing Surface Charge Fluctuations with Solid-State Nanopores. <i>Physical Review Letters</i> , 2009, 102, 256804.	7.8	163
26	The potential and challenges of nanopore sequencing. , 2009, , 261-268.		23
27	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , 2008, 26, 1146-1153.	17.5	2,201
28	Generalized Elliott-Yafet Theory of Electron Spin Relaxation in Metals: Origin of the Anomalous Electron Spin Lifetime in MgB ₂ . <i>Physical Review Letters</i> , 2008, 101, 177003.	7.8	16
29	NMR Evidence for C ₆₀ Configurational Fluctuations Around Na Sites in Na ₂ CsC ₆₀ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 20, 155-159.	1.8	0
30	Influence of local fullerene orientation on the electronic properties of Na ₂ AC ₆₀ (A=Cs,Rb,K) compounds. <i>Physical Review B</i> , 2006, 74, .	3.2	8
31	Dielectric resonator-based resonant structure for sensitive ESR measurements at high-hydrostatic pressures. <i>Journal of Magnetic Resonance</i> , 2005, 177, 261-273.	2.1	25
32	NMR Studies of Insulating, Metallic, and Superconducting Fullerenes: Importance of Correlations and Jahn-Teller Distortions. <i>ChemInform</i> , 2005, 36, no.	0.0	1
33	Electron delocalization and dimerization in solid C ₅₉ N doped C ₆₀ fullerene. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
34	Magnetic-field-induced density of states in MgB ₂ : Spin susceptibility measured by conduction-electron spin resonance. <i>Physical Review B</i> , 2005, 72, .	3.2	9
35	Electron Delocalization and Dimerization in Solid C ₅₉ N Doped C ₆₀ Fullerene. <i>Physical Review Letters</i> , 2005, 94, 066603.	7.8	20
36	Gate-Defined Quantum Dots on Carbon Nanotubes. <i>Nano Letters</i> , 2005, 5, 1267-1271.	9.1	86

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37	Fullerene local order in Na ₂ CsC ₆₀ by ²³ Na NMR. Applied Magnetic Resonance, 2004, 27, 133-138.	1.2	3
38	Temperature induced de-polymerization in TDAE-C ₆₀ . Synthetic Metals, 2003, 133-134, 697-698.	3.9	3
39	Polymer phase of the tetrakis(dimethylamino)ethylene-C ₆₀ organic ferromagnet. Physical Review B, 2003, 68, .	3.2	18
40	High Pressure ESR System with Double-Stacked Dielectric Resonators –Its Application to the Polymerization of the TDAE–C ₆₀ Organic Ferromagnet–. Journal of the Physical Society of Japan, 2003, 72, 151-155.	1.6	3
41	Persistence of molecular excitations in metallic fullerides and their role in a possible metal to insulator transition at high temperatures. Physical Review B, 2002, 66, .	3.2	24
42	Gaps and excitations in fullerides with partially filled bands: NMR study of Na ₂ C ₆₀ and K ₄ C ₆₀ . Physical Review B, 2002, 66, .	3.2	37
43	Application of Electron Spin Resonance in Biophysics: from Rapid Mixing Stopped-Flow to High-Hydrostatic Pressure ESR. Defect and Diffusion Forum, 2002, 208-209, 1-18.	0.4	1
44	Field emission properties of carbon nanohorn films. Journal of Applied Physics, 2002, 91, 10107.	2.5	54
45	Mechanical Purification of Single-Walled Carbon Nanotube Bundles from Catalytic Particles. Nano Letters, 2002, 2, 1349-1352.	9.1	69
46	Instrumental recording of electrophonic sounds from Leonid fireballs. Journal of Geophysical Research, 2002, 107, SIA 11-1.	3.3	21
47	Electronic properties of nanohorns. AIP Conference Proceedings, 2001, , .	0.4	0
48	Azafullerene C ₅₉ N, a stable free radical substituent in crystalline C ₆₀ . Chemical Physics Letters, 2001, 334, 233-237.	2.6	29
49	Role of Dynamic Jahn-Teller Distortions in Na ₂ C ₆₀ and Na ₂ CsC ₆₀ Studied by NMR. Physical Review Letters, 2001, 86, 4680-4683.	7.8	40
50	Comment on –Low Temperature Magnetic Instabilities in Triply Charged Fulleride Polymers– Physical Review Letters, 2001, 87, 129703.	7.8	1
51	Anisotropy of Superconducting MgB ₂ as Seen in Electron Spin Resonance and Magnetization Data. Physical Review Letters, 2001, 87, 047002.	7.8	99
52	Pressure and doping dependence of electronic properties of carbon nanotube ropes. AIP Conference Proceedings, 2000, , .	0.4	0
53	Electronic properties of carbon nanohorns studied by ESR. Physical Review B, 2000, 62, 17115-17119.	3.2	57
54	ESR Signal in Azafullerene (C ₅₉ N) ₂ Induced by Thermal Homolysis. Journal of Physical Chemistry A, 1999, 103, 6969-6971.	2.5	35

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55	NMR Studies of Insulating, Metallic, and Superconducting Fullerides: Importance of Correlations and Jahnâ€Teller Distortions. Structure and Bonding, 0, , 165-199.	1.0	8