Gennady N Panin

List of Publications by Year
in descending order

76	1,233	430754 18	434063 31
papers	citations	h-index	g-index

77	77	77	1645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A patterned single layer graphene resistance temperature sensor. Scientific Reports, 2017, 7, 8811.	1.6	117
2	Synthesis and enhanced field emission of zinc oxide incorporated carbon nanotubes. Diamond and Related Materials, 2017, 71, 79-84.	1.8	113
3	MoS2 memristor with photoresistive switching. Scientific Reports, 2016, 6, 31224.	1.6	66
4	Vertical ZnO nanorod/Si contact light-emitting diode. Applied Physics Letters, 2011, 98, .	1.5	54
5	Postgrowth annealing effect on structural and optical properties of ZnO films grown on GaAs substrates by the radio frequency magnetron sputtering technique. Journal of Applied Physics, 2002, 92, 154-158.	1.1	52
6	Tunable UV-visible absorption of SnS₂layered quantum dots produced by liquid phase exfoliation. Nanoscale, 2017, 9, 1820-1826.	2.8	47
7	Strong violet luminescence from ZnO nanocrystals grown by the low-temperature chemical solution deposition. Journal of Luminescence, 2009, 129, 1099-1104.	1.5	41
8	Resistive Switching in Al/Graphene Oxide/Al Structure. Japanese Journal of Applied Physics, 2011, 50, 070110.	0.8	41
9	Growth of ZnO nanorods from a salt mixture. Nanotechnology, 2005, 16, 1918-1923.	1.3	35
10	Resistive Switching in Al/Graphene Oxide/Al Structure. Japanese Journal of Applied Physics, 2011, 50, 070110.	0.8	30
11	Luminescence from ZnO/MgO nanoparticle structures prepared by solution techniques. Current Applied Physics, 2004, 4, 647-650.	1.1	28
12	Electric field switching between blue-green and red cathodoluminescence in poly(4,4â€²- diphenylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	25
13	In situstudy of the ZnOâ€“NaCl system during the growth of ZnO nanorods. Nanotechnology, 2004, 15, 1613-1619.	1.3	22
14	Spatially resolved investigations of the emission around 3.31 eV (A-line) from ZnO nanocrystals. Applied Physics Letters, 2009, 95, .	1.5	21
15	Effect of ion beam milling on the defect structure of CdTe. Semiconductor Science and Technology, 1996, 11, 1354-1357.	1.0	19
16	Effect of thermal annealing on the structural and the optical properties of ZnO/MgO nanostructures. Journal of Crystal Growth, 2005, 279, 494-500.	0.7	19
17	Synthesis and properties of graphene oxide/graphene nanostructures. Journal of the Korean Physical Society, 2012, 60, 1789-1793.	0.3	19
18	Self-assembled MoS₂/rGO nanocomposites with tunable UV-IR absorption. RSC Advances, 2018, 8, 2410-2417.	1.7	19

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19	pâ€•to nâ€type conversion in GaSb by ion beam milling. Applied Physics Letters, 1995, 67, 3584-3586.	1.5	18
20	Ferroelectricity in Mn-implanted CdTe. Applied Physics Letters, 2003, 83, 2214-2216.	1.5	18
21	Laterally Selective Oxidation of Large-Scale Graphene with Atomic Oxygen. Journal of Physical Chemistry C, 2017, 121, 27915-27922.	1.5	18
22	Direct patterning of reduced graphene oxide/graphene oxide memristive heterostructures by electron-beam irradiation. Journal of Materials Science and Technology, 2020, 38, 237-243.	5.6	18
23	Molybdenum Disulfide Nanosheet/Quantum Dot Dynamic Memristive Structure Driven by Photoinduced Phase Transition. Small, 2019, 15, e1903809.	5.2	17
24	Resistive switching in graphene/graphene oxide/ZnO heterostructures. Journal of the Korean Physical Society, 2014, 64, 1399-1402.	0.3	16
25	Formation of self-assembled nanoscale graphene/graphene oxide photomemristive heterojunctions using photocatalytic oxidation. Nanotechnology, 2017, 28, 204005.	1.3	16
26	Electrical and Optical Properties of ZnO Films Grown on GaAs Substrates. Japanese Journal of Applied Physics, 2003, 42, 3333-3336.	0.8	15
27	Novel Green Luminescent and Phosphorescent Material: Semiconductive Nanoporous ZnMnO with Photon Confinement. ACS Applied Materials & Interfaces, 2017, 9, 20630-20636.	4.0	15
28	Effect of Î±-HgI2 epitaxial growth on the defect structure of CdTe:Ge substrates. Applied Physics Letters, 1997, 70, 877-879.	1.5	14
29	Thermo- and Photo-annealing of ZnO Nanocrystals. Japanese Journal of Applied Physics, 2007, 46, 4172-4174.	0.8	14
30	Synthesis of ZnO nanotetrapods. Inorganic Materials, 2008, 44, 846-852.	0.2	14
31	Domain matching epitaxy of GaN films on a novel langasite substrate: an in-plane epitaxial relationship analysis. CrystEngComm, 2015, 17, 4455-4461.	1.3	14
32	Electron beam induced current and scanning tunnelling spectroscopy correlative study of and CdTe crystals. Semiconductor Science and Technology, 1998, 13, 576-582.	1.0	13
33	Optical and electrical properties of hydrothermally grown Al-doped ZnO nanorods on graphene/Ni/Si substrate. Solid-State Electronics, 2013, 82, 99-102.	0.8	13
34	Cubic MgxZn1â^'xO wide band gap solid solutions synthesized at high pressures. Journal of Physics Condensed Matter, 2005, 17, 3377-3384.	0.7	12
35	Multicolor Emission from Poly(p-Phenylene)/Nanoporous ZnMnO Organicâ€“Inorganic Hybrid Light-Emitting Diode. ACS Applied Materials & Interfaces, 2016, 8, 35435-35439.	4.0	12
36	Phonon anharmonicities in supported graphene. Carbon, 2019, 141, 190-197.	5.4	12

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37	Shear Exfoliation and Photoresponse of 2Dâ€Layered Gallium Selenide Nanosheets. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800226.	1.2	11
38	Optoelectronic dynamic memristor systems based on two-dimensional crystals. Chaos, Solitons and Fractals, 2021, 142, 110523.	2.5	11
39	Characterization of charged defects in CdxHg1â^'xTe and CdTe crystals by electron beam induced current and scanning tunneling spectroscopy. Applied Physics Letters, 1998, 72, 2129-2131.	1.5	10
40	Synthesis of ZnO/NiO nanocomposites from ethanol solutions. Russian Journal of Inorganic Chemistry, 2008, 53, 1546-1551.	0.3	10
41	The effect of atmospheric doping on pressure-dependent Raman scattering in supported graphene. Beilstein Journal of Nanotechnology, 2018, 9, 704-710.	1.5	9
42	GaSe layered nanorods formed by liquid phase exfoliation for resistive switching memory applications. Journal of Alloys and Compounds, 2020, 823, 153697.	2.8	9
43	ZnO/MgO nanocomposites generated from alcoholic solutions. Russian Journal of Inorganic Chemistry, 2008, 53, 1366-1370.	0.3	8
44	Direct growth of graphene film on piezoelectric La₃Ga_{5.5}Ta_{0.5}O₁₄ crystal. Physica Status Solidi - Rapid Research Letters, 2016, 10, 639-644.	1.2	8
45	Semiconductor quantum dots created by postgrowth treatment. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 484-488.	1.3	7
46	Formation of Hexagonal GaN Pyramids by Photo Assisted Electroless Chemical Etching. Japanese Journal of Applied Physics, 2005, 44, L342-L344.	0.8	7
47	Airâ€“sea interaction including a shallow and coastal zone. Vital, 2005, 10, 289-305.	0.0	6
48	Growth and magnetic properties of Mn and MnSn-doped ZnO nanorods. Journal of Electroceramics, 2006, 17, 847-852.	0.8	6
49	Resistance Switching Induced by an Electric Field in ZnO:Li, Fe Nanowires. AIP Conference Proceedings, 2007, , .	0.3	6
50	Modulation of Excitonic Emission from ZnO Nanocrystals by Visible Light Illumination. Japanese Journal of Applied Physics, 2008, 47, 3760-3762.	0.8	6
51	Enhanced field emission from self-assembled ZnO nanorods on graphene/Ni/Si substrates. Materials Letters, 2013, 112, 183-186.	1.3	6
52	Contact light-emitting diodes based on vertical ZnO nanorods. Journal of the Korean Physical Society, 2014, 64, 1403-1406.	0.3	6
53	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. 2D Materials, 2019, 6, 045021.	2.0	6
54	Luminescent properties of three structures built from 3-cyano-4-dicyanomethylene-5-oxo-4,5-dihydro-1H-pyrrol-2-olate and cadmium. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, m541-m547.	0.4	5

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55	Au nanoparticles decorated photoresist derived multilayer graphene for transparent conducting films. Materials Letters, 2014, 124, 18-20.	1.3	5
56	Self-assembled ZnO1â^'S nanorod arrays with varied luminescent and electronic properties. Materials Letters, 2015, 148, 55-57.	1.3	5
57	Atmospheric adsorption on pristine and nitrogen-doped graphene: doping-dependent, spatially selective. Journal Physics D: Applied Physics, 2020, 53, 045302.	1.3	5
58	Potential relief in PbTe:In(Cd) heterophase systems. Journal of Physics and Chemistry of Solids, 1990, 51, 1333-1338.	1.9	4
59	Luminescence of ZnO nanocrystals capped with an organic dye. Optics Communications, 2007, 276, 127-130.	1.0	4
60	Study of optical, electrical and magnetic properties of composite nanomaterials on the basis of broadband oxide semiconductors. Nanotechnologies in Russia, 2009, 4, 822-827.	0.7	4
61	Highly efficient low-voltage cathodoluminescence of semiconductive nanoporous ZnMnO green phosphor films. Applied Surface Science, 2019, 470, 234-240.	3.1	4
62	Luminescent Properties of ZnO/MgO Nanocrystal/Polymer Composite Structure. Journal of the Korean Physical Society, 2008, 53, 2943-2946.	0.3	4
63	Light emission from the polythiophene derivative/ITO structure under electron beam excitation. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1074-1078.	1.3	3
64	SEM imaging of acoustically stimulated charge transport in solids. Applied Physics Letters, 2017, 110, 264103.	1.5	3
65	Structure, conductivity, and ion emission properties of RbAg₄I₅ solid electrolyte film prepared by pulsed laser deposition*. Chinese Physics B, 2019, 28, 060705.	0.7	3
66	In Situ XPS Studies of Solid Electrolyte Electroreduction Through Graphene Electrode. Journal of the Electrochemical Society, 2020, 167, 110533.	1.3	3
67	Cathodoluminescence study of the effect of annealing in HgI2 vapor on the defect structure of CdTe. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 42, 277-283.	1.7	2
68	Memristive Systems Based on Two-Dimensional Materials. , 0, , .		2
69	Electron beam induced light emission from the polythiophene derivative/ITO structure. Physica Status Solidi (B): Basic Research, 2004, 241, 2862-2865.	0.7	1
70	ZnO filled opal arrays: Photo and cathodoluminescence studies. Solid State Communications, 2008, 145, 577-581.	0.9	1
71	Homoepitaxial Nanostructures of Zinc Oxide. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	1
72	Structural and Optical Properties of ZnO_{1â€“ x} S_{<I>x</I>} Nanoparticles. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 633-636.	0.1	1

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73	Low-Dimensional Layered Light-Sensitive Memristive Structures for Energy-Efficient Machine Vision. Electronics (Switzerland), 2022, 11, 619.	1.8	1
74	Optical Properties of ZnOâˆ•MgO Nanocrystal Structures. , 2011, , .		0
75	Spatially-resolved study of the luminescence from ZnO/MgO core-shell nanocrystal structures. Journal of the Korean Physical Society, 2012, 60, 481-484.	0.3	0
76	Redox processes in graphene oxide for storing and converting energy. AIP Conference Proceedings, 2021, , .	0.3	0