Rinat R Ismagilov

List of Publications by Year
in descending order

63	1,176	566801	395343
papers	citations	15 h-index	33 g-index

64	64	64	1645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface graphitization of diamond nanotips induced by field-emission current. Applied Physics Letters, 2022, 120, .	1.5	6
2	Control of NV, SiV and GeV centers formation in single crystal diamond needles. Diamond and Related Materials, 2022, 125, 109007.	1.8	13
3	Nano-graphite field-emission cathode for space electric propulsion systems. Nanotechnology, 2022, 33, 415201.	1.3	2
4	Carbon single-electron point source controlled by Coulomb blockade. Carbon, 2021, 171, 154-160.	5.4	13
5	Coulomb blockade in field electron emission from carbon nanotubes. Applied Physics Letters, 2021, 118, .	1.5	5
6	Single-Crystal Diamond Needle Fabrication Using Hot-Filament Chemical Vapor Deposition. Materials, 2021, 14, 2320.	1.3	11
7	Analysis of Low-Temperature Plasma by Optical Emission Spectroscopy with Spatial Scanning. Instruments and Experimental Techniques, 2021, 64, 700-704.	0.1	0
8	Morphological Specific Features of (100)-Textured Polycrystalline Diamond Films. Crystallography Reports, 2020, 65, 152-158.	0.1	0
9	Coulomb blockade and quantum confinement in field electron emission from heterostructured nanotips. Physical Review B, 2020, 102, .	1.1	11
10	Few-layer graphene formation by carbon deposition on polycrystalline Ni surface. Applied Surface Science, 2019, 494, 1030-1035.	3.1	7
11	Conduction mechanisms and voltage drop during field electron emission from diamond needles. Ultramicroscopy, 2019, 202, 51-56.	0.8	7
12	Formation of GeV, SiV, and NV Color Centers in Single Crystal Diamond Needles Grown by Chemical Vapor Deposition. Physica Status Solidi (B): Basic Research, 2019, 256, 1800721.	0.7	6
13	Thermal diffusivity of diamond nanowires studied by laser assisted atom probe tomography. Applied Physics Letters, 2018, 112, .	1.5	10
14	Luminescent Characteristics of Needleâ€Like Single Crystal Diamonds. Physica Status Solidi (B): Basic Research, 2018, 255, 1700189.	0.7	16
15	A Comparative Study of Field Emission From Semiconducting and Metallic Singleâ€Walled Carbon Nanotube Planar Emitters. Physica Status Solidi (B): Basic Research, 2018, 255, 1700268.	0.7	17
16	Field Electron Emission From CVD Nanocarbon Films Containing Scrolled Graphene Structures. Physica Status Solidi (B): Basic Research, 2018, 255, 1700270.	0.7	11
17	Detonation Nanodiamondâ€Assisted Carbon Nanotube Growth by Hot Filament Chemical Vapor Deposition. Physica Status Solidi (B): Basic Research, 2018, 255, 1700286.	0.7	3
18	Photoluminescent properties of single crystal diamond microneedles. Optical Materials, 2018, 75, 49-55.	1.7	22

#	Article	IF	Citations
19	Production and potential applications of needle-like diamonds. Materials Today: Proceedings, 2018, 5, 26146-26152.	0.9	2
20	Structural and morphological peculiarities of needle-like diamond crystallites obtained by chemical vapor deposition. Diamond and Related Materials, 2018, 87, 261-266.	1.8	9
21	Electrochemical characterization of mesoporous nanographite films. Carbon, 2016, 105, 96-102.	5.4	8
22	Quasi-two-dimensional diamond crystals: Deposition from a gaseous phase and structuralâ€“morphological properties. Physics of the Solid State, 2016, 58, 1458-1462.	0.2	0
23	Photo- and cathodo-luminescence of needle-like single crystal diamonds. Journal of Luminescence, 2016, 179, 539-544.	1.5	13
24	Structural peculiarities of single crystal diamond needles of nanometer thickness. Nanotechnology, 2016, 27, 455707.	1.3	12
25	Luminescent properties of diamond single crystals of pyramidal shape. Physics of the Solid State, 2016, 58, 2307-2311.	0.2	3
26	Single Crystal Diamond Needle as Point Electron Source. Scientific Reports, 2016, 6, 35260.	1.6	32
27	Diamond platelets produced by chemical vapor deposition. Diamond and Related Materials, 2016, 65, 13-16.	1.8	10
28	CVD nanographite films covered by ALD metal oxides: structural and field emission properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1022-1027.	0.8	2
29	Edge field emission of large-area single layer graphene. Applied Surface Science, 2015, 357, 1967-1974.	3.1	41
30	Carbon nanoscrolls on the surface of nanocrystalline graphite and diamond films. Crystallography Reports, 2015, 60, 578-582.	0.1	5
31	Fluid modeling for plasma-enhanced direct current chemical vapor deposition. Journal of Nanophotonics, 2015, 10, 012503.	0.4	5
32	Single-crystal diamond pyramids: synthesis and application for atomic force microscopy. Journal of Nanophotonics, 2015, 10, 012517.	0.4	11
33	Atomic layer deposition of TiO₂and Al₂O₃on nanographite films: structure and field emission properties. Journal of Nanophotonics, 2015, 10, 012509.	0.4	3
34	Nano-graphite cold cathodes for electric solar wind sail. Carbon, 2015, 81, 132-136.	5.4	15
35	Raman spectroscopy of albumin interaction with nanodiamond films. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2014, 69, 552-557.	0.1	0
36	Single-crystal diamond microneedles shaped at growth stage. Diamond and Related Materials, 2014, 42, 15-20.	1.8	31

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37	Single crystal diamond probes for atomic-force microscopy. Technical Physics Letters, 2014, 40, 553-557.	0.2	2
38	Nanodiamond films with dendrite structure formed by needle crystallites. Diamond and Related Materials, 2013, 37, 64-67.	1.8	9
39	Incredible carbon. Materials Today, 2013, 16, 351-352.	8.3	0
40	Structural and charge transport characteristics of graphene layers obtained from CVD thin film and bulk graphite materials. Carbon, 2013, 52, 49-55.	5.4	12
41	Growth of a Carbon Nanotube Forest on Silicon using Remote Plasma CVD. Chemical Vapor Deposition, 2013, 19, 332-337.	1.4	17
42	A nano-graphite cold cathode for an energy-efficient cathodoluminescent light source. Beilstein Journal of Nanotechnology, 2013, 4, 493-500.	1.5	23
43	Scanning Anode Field Emission Microscopy of Nanocarbons. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 114-118.	0.1	12
44	Fabrication of Carbon Nanomaterials by Hot Filament Chemical Vapor Deposition. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 100-105.	0.1	4
45	Computer Simulation Study of Gas Dynamics for Torches Operating at Atmosphere Pressure. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 119-123.	0.1	0
46	Diamonds in the air. Materials Today, 2012, 15, 519.	8.3	0
47	Morphology and Raman Spectra Peculiarities of Chemical Vapor Deposition Diamond Films. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 22-28.	0.1	11
48	Spatially Resolved <I>In</I> <I>Situ</I> Diagnostics for Plasma-Enhanced Chemical Vapor Deposition Carbon Film Growth. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 90-94.	0.1	9
49	Characterization of Nanographite Films by Specular Gloss Measurements. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 54-59.	0.1	0
50	Broadband Light-Induced Absorbance Change in Multilayer Graphene. Nano Letters, 2011, 11, 1540-1545.	4.5	92
51	Noncatalytic synthesis of carbon nanotubes by chemical vapor deposition. Crystallography Reports, 2011, 56, 310-314.	0.1	8
52	Single crystal diamond tips for scanning probe microscopy. Review of Scientific Instruments, 2010, 81, 013703.	0.6	44
53	Topology peculiarities of graphite films of nanometer thickness. Physica Status Solidi (B): Basic Research, 2010, 247, 3010-3013.	0.7	12
54	Single-crystal diamond probes for atomic-force microscopy. Instruments and Experimental Techniques, 2010, 53, 613-619.	0.1	3

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55	Thermal oxidation of CVD diamond. Diamond and Related Materials, 2010, 19, 1007-1011.	1.8	41
56	Making graphene on a large scale. Nature Nanotechnology, 2009, 4, 212-213.	15.6	316
57	Chiral carbon nanoscrolls with a polygonal cross-section. Carbon, 2009, 47, 3099-3105.	5.4	37
58	Field electron emission from nanodiamond. Technical Physics Letters, 2009, 35, 249-252.	0.2	11
59	Physical and chemical processes in gas-discharge plasma during the deposition of nanocarbon films. Protection of Metals and Physical Chemistry of Surfaces, 2009, 45, 652-655.	0.3	1
60	Production of single crystal diamond needles by a combination of CVD growth and thermal oxidation. Diamond and Related Materials, 2009, 18, 1289-1293.	1.8	46
61	Cold and Laser Stimulated Electron Emission from Nanocarbons. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 207-219.	0.1	23
62	Optical Chacterization of Plasma Enhanced Chemical Vapor Deposition of Nanocarbon Film Materials. Journal of Nanoelectronics and Optoelectronics, 2009, 4, 243-246.	0.1	8
63	Raman scattering characterization of CVD graphite films. Carbon, 2008, 46, 963-968.	5.4	72