

Alexander Semenov

List of Publications by Year in descending order

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31
papers

185
citations

1684188

5
h-index

1125743

13
g-index

32
all docs

32
docs citations

32
times ranked

218
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical study of the band structure of 2H-SiC and 4H-SiC of silicon carbide polytypes. Condensed Matter Physics, 2021, 24, 23706.	0.7	2
2	The Chemresistive Properties of SiC Nanocrystalline Films with Different Conductivity Type. Journal of Sensors, 2020, 2020, 1-6.	1.1	4
3	Ozone Sensitive Properties of Thin Films of Nanocrystalline Silicon Carbide. Journal of Nano- and Electronic Physics, 2020, 12, 05016-1-05016-4.	0.5	3
4	Gas sensing properties of nanocrystalline silicon carbide films. Micro and Nano Systems Letters, 2019, 7, .	3.7	4
5	Nanocrystalline SiC film thermistors for cryogenic applications. Review of Scientific Instruments, 2018, 89, 025004.	1.3	4
6	Optical properties of a microcavity based on a nanocrystalline SiC film. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	0
7	Topological Engineering of Interfacial Optical Tamm States for Highly Sensitive Near-Singular-Phase Optical Detection. ACS Photonics, 2018, 5, 929-938.	6.6	87
8	Effect of electron irradiation on the optical properties of nanocrystalline SiC films on single crystal Al ₂ O ₃ substrates. Tekhnologiya I Konstruirovaniye V Elektronnoi Apparature, 2017, , 40-48.	0.1	0
9	Topological Darkness of Tamm Plasmons for High-Sensitivity Singular-Phase Optical Detection. , 2016, , .		0
10	Increase in the lifetime of a photon and in the efficiency of raman scattering and second-harmonic generation processes in porous silicon carbide. JETP Letters, 2015, 101, 793-797.	1.4	10
11	Light scattering in nanocrystalline silicon-carbide (nc-SiC) films. Journal of Surface Investigation, 2014, 8, 149-154.	0.5	1
12	Luminescence properties of thin nanocrystalline silicon-carbide films fabricated by direct-beam ion deposition. Semiconductors, 2014, 48, 711-714.	0.5	2
13	Optical limiting effects in nanostructured silicon carbide thin films. Quantum Electronics, 2013, 43, 1122-1126.	1.0	4
14	Change of Electrophysical Properties of Nanocrystalline SiC Films by Laser Treatment at Applied Electric Field. ISRN Nanomaterials, 2013, 2013, 1-6.	0.7	0
15	Nonlinear-optical and structural properties of nanocrystalline silicon carbide films. Journal of Experimental and Theoretical Physics, 2012, 114, 205-211.	0.9	7
16	Effect of the spin and valence states of cobalt ions on the kinetic properties of Ho ³⁺ x Sr x CoO ₃ and Er ³⁺ x Sr x CoO ₃ compounds. Physics of the Solid State, 2011, 53, 707-716.	0.6	5
17	Exciton emission in tetrahedral carbon self-organized and ring-shaped quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 24-29.	0.8	0
18	Superconductivity of bulk molybdenum samples with carbidized surfaces. Low Temperature Physics, 2010, 36, 1036-1041.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Fabrication of heterostructures based on layered nanocrystalline silicon carbide polytypes. Semiconductors, 2010, 44, 816-823.	0.5	6
20	Anti-stokes exciton emission in tetrahedral nanocarbon. Doklady Physical Chemistry, 2010, 432, 87-91.	0.9	1
21	A laboratory setup for obtaining silicon carbide films by the direct ion deposition method. Instruments and Experimental Techniques, 2010, 53, 761-765.	0.5	1
22	Low-temperature production of silicon carbide films of different polytypes. Semiconductors, 2009, 43, 685-689.	0.5	21
23	Effect of irradiation on the properties of nanocrystalline silicon carbide films. Semiconductors, 2009, 43, 1322-1327.	0.5	6
24	Transport properties of cobaltites containing holmium. Journal of Physics: Conference Series, 2009, 150, 042221.	0.4	1
25	Transport properties of cobaltites containing holmium. Low Temperature Physics, 2008, 34, 947-951.	0.6	2
26	Theoretical and Experimental Study of Temperature-Dependent Spectral Properties of Multi-Layer Metal-Dielectric Nano-Film Structures. , 2007, , .		3
27	Cooperative Growth of Thin Films of Tetrahedral Nanocarbon. Doklady Physical Chemistry, 2005, 403, 150-153.	0.9	1
28	Recombination Emission from Tetrahedral Nanocarbon Films. Doklady Physical Chemistry, 2003, 388, 25-28.	0.9	0
29	Low-Temperature Deposition and Optical Properties of Re-Doped Nanocrystalline SiC Films. Journal of Wide Bandgap Materials, 2002, 9, 139-147.	0.1	3
30	<title>Deposition and laser damage tests of DLC coatings on silica optical fibers and plates</title>. , 1998, , .		0
31	<title>Annealing of KDP crystals in vacuum and under pressure</title>. , 1997, , .		1