

Nickolai I Klyui

List of Publications by Year in descending order

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papers

914
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516215

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Effects of low doping on the improvement of cathode materials Na _{3-x} V ₂ M _x (PO ₄) ₃ (M = Co ²⁺ , Cu ²⁺ ; x = 0.01–0.05) for SIBs. Journal of Materials Chemistry A, 2021, 9, 17380-17389.	5.2	24
2	Palladium nanoparticles embedded in microporous carbon as electrocatalysts for water splitting in alkaline media. International Journal of Hydrogen Energy, 2021, 46, 21462-21474.	3.8	17
3	Properties of gas detonation ceramic coatings and their effect on the osseointegration of titanium implants for bone defect replacement. Ceramics International, 2021, 47, 25425-25439.	2.3	12
4	MOF-derived nitrogen-doped CoO@CoP arrays as bifunctional electrocatalysts for efficient overall water splitting. Electrochimica Acta, 2020, 330, 135210.	2.6	64
5	Mn ²⁺ luminescence of Gd(Zn,Mg)B ₅ O ₁₀ pentaborate under high pressure. Dalton Transactions, 2020, 49, 14268-14279.	1.6	6
6	Bi(nanoparticles)/CN _x (nanosheets) nanocomposites as high capacity and stable electrode materials for supercapacitors: the role of urea. Dalton Transactions, 2020, 49, 12197-12209.	1.6	11
7	Na ₄ Ni ₃ P ₄ O ₁₅ –Ni(OH) ₂ core–shell nanoparticles as hybrid electrocatalysts for the oxygen evolution reaction in alkaline electrolytes. Dalton Transactions, 2020, 49, 8226-8237.	1.6	12
8	Scheelite-related M _{1-x} Bi _x V _{1-x} Mo _x O ₄ (M ^{II} = Ca, Sr) solid solution-based photoanodes for enhanced photoelectrochemical water oxidation. Dalton Transactions, 2020, 49, 2345-2355.	1.6	3
9	Rietveld refinement of the langbeinite-type phosphate K ₂ Ni _{0.5} Hf _{1.5} (PO ₄) ₃ . Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 1634-1637.	0.2	0
10	Evaluation of the Interface Properties of Recombination Sensors From the Measurement of Capacitance-Voltage Characteristics. , 2019, , .		0
11	Effect of annealing in zinc vapors on charge trapping properties of ZnSe, ZnSe(Te) and ZnSe(Al) scintillation crystals: Revealing the mechanisms by DFT computational studies. Optical Materials, 2019, 97, 109402.	1.7	6
12	Nonstoichiometric amorphous silicon carbide films as promising antireflection and protective coatings for germanium in IR spectral range. Optical Materials, 2019, 88, 445-450.	1.7	9
13	Facile Synthesis of Hierarchical Tin Oxide Nanoflowers with Ultra-High Methanol Gas Sensing at Low Working Temperature. Nanoscale Research Letters, 2019, 14, 84.	3.1	19
14	Effect of discharge power and silicon content on optical and mechanical properties of carbon-rich amorphous silicon carbide films obtained by PECVD. Journal of Alloys and Compounds, 2019, 801, 285-294.	2.8	7
15	C-reactive protein detection based on ISFET structure with gate dielectric SiO ₂ -CeO ₂ . Microelectronic Engineering, 2019, 215, 110993.	1.1	11
16	Origin of luminescence in ZnMoO ₄ crystals: Insights from spectroscopic studies and electronic structure calculations. Journal of Luminescence, 2019, 211, 127-137.	1.5	7
17	Colorimetric analysis of optical reflection from thin porous silicon for detection of organic liquids. Sensors and Actuators B: Chemical, 2019, 280, 102-108.	4.0	9
18	New complex phosphates Cs ₃ M ^{II} Bi(P ₂ O ₇) ₂ (M ^{II} = Ca, Sr) Tj _{1,6} EQq0 0 0 ₁₆ rgBT /Ove 2274-2284.		

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19	Hierarchical porous ZnO microflowers with ultra-high ethanol gas-sensing at low concentration. <i>Chemical Physics Letters</i> , 2018, 699, 1-7.	1.2	39
20	CoO _x (OH) _y /C nanocomposites <i>in situ</i> derived from Na ₄ Co ₃ (PO ₄) ₂ P ₂ O ₇ as sustainable electrocatalysts for water splitting. <i>Dalton Transactions</i> , 2018, 47, 15703-15713.	1.6	24
21	Partial Substitution of Potassium with Sodium in the K ₂ Ti ₂ (PO ₄) ₃ Langbeinite-Type Framework: Synthesis and Crystalline Structure of K _{1.75} Na _{0.25} Ti ₂ (PO ₄) ₃ . <i>ChemistryOpen</i> , 2018, 7, 504-512.	0.9	6
22	Effect of H ⁺ implantation on the optical properties of semi-insulating GaAs crystals in the IR spectral region. <i>Semiconductors</i> , 2017, 51, 305-309.	0.2	8
23	Flexible Supercapacitors Based on Polyaniline Arrays Coated Graphene Aerogel Electrodes. <i>Nanoscale Research Letters</i> , 2017, 12, 394.	3.1	67
24	EPR and Raman study of silicon layers obtained by gas detonation spraying. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 232-239.	1.9	3
25	Features of the use of optical reflection from thin porous silicon for detection of organic liquids. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1177-1185.	4.0	12
26	Interaction of calcium phosphate and CaO (CaCO ₃) while their disposing on the titanium surface under gas detonation conditions. <i>Reports National Academy of Science of Ukraine</i> , 2017, , 66-72.	0.0	1
27	Effect of Plasma, RF, and RIE Treatments on Properties of Double-Sided High Voltage Solar Cells with Vertically Aligned p-n Junctions. <i>International Journal of Photoenergy</i> , 2016, 2016, 1-8.	1.4	3
28	Improvement of radiation stability of semi-insulating gallium arsenide crystals by deposition of diamond-like carbon films. <i>Optical Materials</i> , 2016, 62, 372-377.	1.7	2
29	Porous biomorphic silicon carbide ceramics coated with hydroxyapatite as prospective materials for bone implants. <i>Materials Science and Engineering C</i> , 2016, 68, 143-152.	3.8	54
30	Enhancing the cycling stability of the polyaniline hybrids benefited from the hollow manganese dioxide/acetylene black skeleton. <i>Chemical Engineering Journal</i> , 2016, 290, 361-370.	6.6	17
31	Improvement in the degradation resistance of silicon nanostructures by the deposition of diamond-like carbon films. <i>Semiconductors</i> , 2015, 49, 1030-1034.	0.2	3
32	Photo-assisted field emission and electro-reflectance modulation investigations of GaN nanorod arrays. <i>Thin Solid Films</i> , 2014, 564, 218-221.	0.8	7
33	Porous silicon Bragg mirrors on single- and multi-crystalline silicon for solar cells. <i>Renewable Energy</i> , 2013, 55, 79-84.	4.3	28
34	Ion-plasma treatment of Cd _{1-x} Zn _x Te (x ≈ 0.04) single crystals and application of antireflection diamond-like carbon films. <i>Technical Physics</i> , 2012, 57, 1121-1126.	0.2	4
35	Application of diamond-like carbon films to increase transmission of semi-insulating GaAs crystals in the IR spectral range. <i>Technical Physics Letters</i> , 2012, 38, 609-612.	0.2	4
36	Increasing the degradation resistance of semi-insulating gallium arsenide crystals by plasma processing. <i>Technical Physics Letters</i> , 2012, 38, 1016-1019.	0.2	3

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37	Electroreflectance study of the effect of \hat{f}^3 radiation on the optical properties of epitaxial GaN films. <i>Semiconductors</i> , 2012, 46, 302-305.	0.2	3
38	Improvement of Solar Cells Efficiency and Radiation Stability by Deposition of Diamond-Like Carbon Films. , 2011, , .		3
39	Antireflection properties of diamond-like carbon films on $Cd_{1-x}Zn_xTe$ ($x \approx 0.04$) single crystals. <i>Technical Physics Letters</i> , 2008, 34, 377-380.	0.2	8
40	Optical properties of diamond-like carbon films subjected to ultraviolet irradiation. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2008, 11, 396-399.	0.3	1
41	Influence of deposition conditions on the antireflection properties of diamond-like carbon films for Si-based solar cells. <i>Technical Physics</i> , 2006, 51, 654-658.	0.2	9
42	Porous silicon photoluminescence modification by surface treatments and impregnation of carbon based nanoclusters. <i>Physica Status Solidi A</i> , 2003, 197, 355-359.	1.7	8
43	Peculiarities of field emission from silicon carbide films. <i>Applied Surface Science</i> , 2003, 215, 237-241.	3.1	9
44	High efficient solar cells and modules based on diamond-like carbon film - multicrystalline Si structures. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2003, 6, 197-201.	0.3	6
45	Light emission of the silicon carbide nanoclusters embedded into porous silicon. <i>Materials Science and Engineering C</i> , 2002, 19, 229-231.	3.8	7
46	Silicon solar cells with antireflection diamond-like carbon and silicon carbide films. <i>Solar Energy Materials and Solar Cells</i> , 2002, 72, 597-603.	3.0	34
47	Raman spectroscopy and microhardness of ion-implanted a-C:H-films. <i>Ceramics International</i> , 2000, 26, 29-32.	2.3	5
48	Photoluminescent properties of nitrogen-containing DLC films. <i>Ceramics International</i> , 2000, 26, 411-414.	2.3	1
49	Photoluminescence of porous silicon layers formed in ion-implanted silicon wafers. <i>Technical Physics Letters</i> , 2000, 26, 944-946.	0.2	2
50	Micro-Raman study of high pressure induced graphite-diamond phase-structural transformation: The role of a nitrogen containing precursor. <i>Journal of Applied Physics</i> , 2000, 88, 4875.	1.1	5
51	Properties of plasma enhanced chemical vapor deposition diamond-like carbon films as field electron emitters prepared in different regimes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 679.	1.6	21
52	Photoluminescence of porous-silicon/diamondlike-carbon-film structures subjected to rapid thermal annealing. <i>Technical Physics Letters</i> , 1999, 25, 304-306.	0.2	3
53	Effect of oxygen on ion-beam induced synthesis of SiC in silicon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 147, 256-260.	0.6	7
54	Electron Field Emission from Undoped and Doped DLC Films. <i>Materials Research Society Symposia Proceedings</i> , 1999, 558, 577.	0.1	5

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55	Micro-Raman study of CNx composites subjected to high pressure treatment. Semiconductor Physics, Quantum Electronics and Optoelectronics, 1999, 2, 13-18.	0.3	0
56	Influence of oxygen on the ion-beam synthesis of silicon carbide buried layers in silicon. Semiconductors, 1998, 32, 1261-1265.	0.2	0
57	Distinctive features of time-resolved photoluminescence of porous silicon coated with a layer of diamondlike carbon. Technical Physics, 1998, 43, 423-426.	0.2	5
58	Influence of nitrogen on the optical and mechanical properties of diamond-like carbon films. Technical Physics Letters, 1998, 24, 408-409.	0.2	2
59	Microraman and microhardness study of nitrogen implanted diamond-like carbon films. Carbon, 1998, 36, 791-794.	5.4	7
60	Intensive visible photoluminescence of a-C:H:N films. Materials Letters, 1998, 35, 334-338.	1.3	19
61	Possibility of a double-well potential formation in diamondlike amorphous carbon. Physical Review B, 1998, 58, 3526-3528.	1.1	5
62	Electron Processes in Low-Dimension Porous Si-Fulleren System: Photoluminescence Study. Molecular Crystals and Liquid Crystals, 1998, 324, 13-18.	0.3	2
63	Modification of Optical Properties of a-C:H and a-C:H:N Films Subjected to Ion Implantation and UV Treatment. Molecular Crystals and Liquid Crystals, 1998, 324, 19-24.	0.3	1
64	Diagnostics of nitrogen-implanted diamond-like carbon films by optical and microhardness measurements. , 1998, 3359, 339.		0
65	Optical study of the influence of oxygen on the synthesis of SiC-buried layer in Cz-Si and Fz-Si. , 1998, 3359, 375.		0
66	The enhanced field emission from microtips covered by ultrathin layers. Journal of Micromechanics and Microengineering, 1997, 7, 1-6.	1.5	65
67	Field Electron Emission From Silicon Tip Arrays Coated With Nitrogen Doped DLC Films.. , 1997, , .		0
68	Enhancement of field emission from cathodes with superthin diamond-like carbon films. Applied Surface Science, 1997, 111, 213-217.	3.1	27
69	Parameters of the tip arrays covered by low work function layers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 2130.	1.6	21
70	SiC Buried Layer Formation Induced by Ion Implantation. Solid State Phenomena, 1995, 47-48, 211-216.	0.3	2
71	Oxygen plasma treatment of Gd _{1-x} Ba _x Cu _{1-y} O high-Tc superconducting films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1211-1212.	0.6	0
72	Oxygen plasma treatment effect on optical properties of GdBa ₂ Cu ₃ O _{7-x} high-Tc superconducting films. Thin Solid Films, 1994, 238, 119-122.	0.8	0

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73	Electronic band structure and optical properties of cubic silicon carbide crystals. Physica B: Condensed Matter, 1993, 185, 394-399.	1.3	36
74	Investigation of multilayer SOI structures by electroreflectance spectroscopy. Materials Letters, 1993, 18, 137-140.	1.3	0
75	Electronic band structure and optical properties of cubic silicon carbide crystals. , 1993, , 394-399.		1
76	Energy Band Structure and Optical Properties of Wurtzite-Structure Silicon Carbide Crystals. Physica Status Solidi (B): Basic Research, 1990, 162, 477-487.	0.7	40
77	Investigation of Ion Implanted Silicon by Electroreflectance Spectroscopy. Physica Status Solidi A, 1989, 112, 805-810.	1.7	0
78	Electron Energy Structure and Optical Properties of Microcrystalline Silicon. Physica Status Solidi (B): Basic Research, 1989, 155, 723-732.	0.7	15
79	Characteristic Features of the Electronic Structure of Carbon Films. Physica Status Solidi (B): Basic Research, 1988, 145, 209-217.	0.7	11
80	Properties of PE-CVD DLC films as field electron emitters prepared in different regimes. , 0, , .		0