

Elizaveta A Konstantinova

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92
papers

664
citations

14
h-index

20
g-index

96
ext. papers

796
ext. citations

2.2
avg, IF

4.12
L-index

#	Paper	IF	Citations
92	Nanocrystalline ZnO(Ga): Paramagnetic centers, surface acidity and gas sensor properties. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 555-564	8.5	58
91	Carbon-Doped Titanium Dioxide: Visible Light Photocatalysis and EPR Investigation. <i>Chimia</i> , 2007 , 61, 810-814	1.3	41
90	Active Sites on Nanocrystalline Tin Dioxide Surface: Effect of Palladium and Ruthenium Oxides Clusters. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21541-21549	3.8	30
89	Structural and magnetic characteristics of carboxymethyl dextran coated magnetic nanoparticles: From characterization to immobilization application. <i>Reactive and Functional Polymers</i> , 2020 , 148, 104481	4.6	25
88	The Key Role of Active Sites in the Development of Selective Metal Oxide Sensor Materials. <i>Sensors</i> , 2021 , 21,	3.8	24
87	Role of PdOx and RuOy Clusters in Oxygen Exchange between Nanocrystalline Tin Dioxide and the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23858-23867	3.8	23
86	Facile preparation of nitrogen-doped nanostructured titania microspheres by a new method of Thermally Assisted Reactions in Aqueous Sprays. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3102	13	22
85	Catalytic impact of RuOx clusters to high ammonia sensitivity of tin dioxide. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 186-193	8.5	21
84	Determination of the Energy Levels of Paramagnetic Centers in the Band Gap of Nanostructured Oxide Semiconductors Using EPR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10248-10254	3.8	18
83	Shedding Light on Aging of N-Doped Titania Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18663-18670	3.8	17
82	Quasi Similar Routes of NO and NO Sensing by Nanocrystalline WO: Evidence by In Situ DRIFT Spectroscopy. <i>Sensors</i> , 2019 , 19,	3.8	17
81	Paramagnetic properties of carbon-doped titanium dioxide. <i>Nanoscale Research Letters</i> , 2012 , 7, 333	5	17
80	EPR study of the illumination effect on properties of paramagnetic centers in nitrogen-doped TiO2 active in visible light photocatalysis. <i>Applied Magnetic Resonance</i> , 2009 , 35, 421-427	0.8	16
79	EPR diagnostics of the photosensitized generation of singlet oxygen on the surface of silicon nanocrystals. <i>JETP Letters</i> , 2007 , 85, 59-62	1.2	15
78	Detection of singlet oxygen in photoexcited porous silicon nanocrystals by photoluminescence measurements. <i>Semiconductors</i> , 2010 , 44, 89-92	0.7	13
77	Chemical modification of a porous silicon surface induced by nitrogen dioxide adsorption. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4684-93	3.4	12
76	Influence of NO2 molecule adsorption on free charge carriers and spin centers in porous silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 1592-1596	1.6	12

75	Effects of Ag Additive in Low Temperature CO Detection with In ₂ O ₃ -Based Gas Sensors. <i>Nanomaterials</i> , 2018 , 8,	5.4	11
74	EPR Study of Photoexcited Charge Carrier Behavior in TiO ₂ /MoO ₃ and TiO ₂ /MoO ₃ :V ₂ O ₅ Photocatalysts. <i>Catalysis Letters</i> , 2019 , 149, 2256-2267	2.8	10
73	EPR study of nanocrystalline tin dioxide. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1957-1960		10
72	Modification of the properties of porous silicon on adsorption of iodine molecules. <i>Semiconductors</i> , 2007 , 41, 953-957	0.7	10
71	Investigation of the generation of singlet oxygen in ensembles of photoexcited silicon nanocrystals by electron paramagnetic resonance spectroscopy. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 473-481	1	10
70	Effect of Humidity on Light-Activated NO and NO Gas Sensing by Hybrid Materials. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
69	The role of boron impurity in the activation of free charge carriers in layers of porous silicon during the adsorption of acceptor molecules. <i>Semiconductors</i> , 2005 , 39, 347-350	0.7	9
68	Influence of Defects on Photoconductivity and Photocatalytic Activity of Nitrogen-Doped Titania. <i>Applied Magnetic Resonance</i> , 2017 , 48, 335-345	0.8	8
67	Photoaccumulating film systems based on TiO ₂ /MoO ₃ and TiO ₂ /MoO ₃ :V ₂ O ₅ nanoheterostructures. <i>Russian Journal of Physical Chemistry B</i> , 2017 , 11, 348-353	1.2	8
66	Photoaccumulating TiO ₂ /MoO ₃ , TiO ₂ /V ₂ O ₅ , and TiO ₂ /MoO ₃ Heterostructures for Self-Sterilizing Systems with the Prolonged Bactericidal Activity. <i>Catalysis Letters</i> , 2019 , 149, 1147-1153	2.8	8
65	Study of spin centers in nanocrystalline titanium dioxide with a high degree of photocatalytic activity. <i>Semiconductors</i> , 2010 , 44, 1059-1063	0.7	8
64	Paramagnetic centers of photocatalysts based on nitrogen-doped titanium dioxide. <i>Kinetics and Catalysis</i> , 2013 , 54, 373-377	1.5	7
63	Features of the structure and defect states in hydrogenated polymorphous silicon films. <i>JETP Letters</i> , 2013 , 97, 466-469	1.2	7
62	Study of the paramagnetic centers in heterofullerides MnM ₂₃ -nC ₆₀ (M = K, Rb, Cs; M' = Be, Mg, Ca, Ba; n = 1, 2). <i>Russian Journal of Inorganic Chemistry</i> , 2008 , 53, 30-35	1.5	7
61	Effect of adsorption of the donor and acceptor molecules at the surface of porous silicon on the recombination properties of silicon nanocrystals. <i>Semiconductors</i> , 2004 , 38, 1344-1349	0.7	7
60	Interaction of nitrogen dioxide molecules with the surface of silicon nanocrystals in porous silicon layers. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 99, 741-748	1	7
59	Nanocomposites SnO/SiO ₂ :SiO ₂ Impact on the Active Centers and Conductivity Mechanism. <i>Materials</i> , 2019 , 12,	3.5	7
58	Unveiling point defects in titania mesocrystals: a combined EPR and XPS study. <i>New Journal of Chemistry</i> , 2018 , 42, 15184-15189	3.6	6

57	Correlation between spin density and photoluminescence intensity in thermally oxidized porous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1928-1930		6
56	Luminescence and photosensitization properties of ensembles of silicon nanocrystals in terms of an exciton migration model. <i>Journal of Experimental and Theoretical Physics</i> , 2010 , 111, 830-843	1	6
55	Radiation hardness of porous silicon. <i>Semiconductors</i> , 1997 , 31, 966-969	0.7	6
54	Silicon nanocrystals as efficient photosensitizer of singlet oxygen for biomedical applications 2007 ,		6
53	Features of Charge Accumulation Processes in Nanoheterostructures Based on Titanium and Molybdenum Oxides. <i>JETP Letters</i> , 2018 , 107, 264-268	1.2	5
52	EPR study of chromium-doped porous titanium dioxide. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1954-1956		5
51	IR and EPR study of ammonia adsorption effect on silicon nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1330-1332	1.6	5
50	Photovoltage and photo-induced charge trapping in porous silicon. <i>Applied Physics A: Materials Science and Processing</i> , 1996 , 62, 547-551	2.6	5
49	UV-VIS Photoconductivity of Nanocrystalline Tin Oxide. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012 , 7, 623-628	1.3	5
48	Melamine-Barbiturate Supramolecular Assembly as a pH-Dependent Organic Radical Trap Material. <i>Chemistry - A European Journal</i> , 2020 , 26, 16603-16610	4.8	5
47	Dynamics of Photogenerated Charge Carriers in TiO ₂ /MoO ₃ , TiO ₂ /WO ₃ and TiO ₂ /V ₂ O ₅ Photocatalysts with Mosaic Structure. <i>Catalysts</i> , 2020 , 10, 1022	4	5
46	Enhancement of Lewis Acidity of Cr-Doped Nanocrystalline SnO : Effect on Surface NH Oxidation and Sensory Detection Pattern. <i>ChemPhysChem</i> , 2019 , 20, 1985-1996	3.2	4
45	The influence of the formation and storage conditions of silicon nanoparticles obtained by laser-induced pyrolysis of monosilane on the nature and properties of defects. <i>Technical Physics Letters</i> , 2017 , 43, 424-427	0.7	4
44	Effect of parabenzoquinone adsorption on the magnetic properties of nanostructured silicon. <i>Semiconductors</i> , 2012 , 46, 1119-1121	0.7	4
43	EPR and photoluminescence diagnostics of singlet oxygen generation on porous silicon surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1700-1703		4
42	Magnetic and structural anomalies of NanC ₆₀ (n = 2, 3). <i>Open Physics</i> , 2010 , 8,	1.3	4
41	Radical Activity of Binary Melamine-Based Hydrogen-Bonded Self-Assemblies. <i>Applied Magnetic Resonance</i> , 2020 , 51, 939-949	0.8	4
40	Titania-based nanoheterostructured microspheres for prolonged visible-light-driven photocatalysis. <i>Nanotechnology</i> , 2020 , 31, 345207	3.4	3

39	Influence of Aluminum Addition on the Structure and Feathers of V2O5 Oxide Prepared by Mechanochemical Activation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19991-19998	3.8	3
38	Preparation of Nanocrystalline Nitrogen-doped Mesoporous Titanium Dioxide. <i>Mendeleev Communications</i> , 2013 , 23, 11-13	1.9	3
37	Electron spin resonance characterization of defects in sensor materials based on nanocrystalline tin dioxide 2012 ,		3
36	Temperature dependence of exchange bias in Co/FeMn-structure induced by heating and cooling in magnetic field. <i>Journal of Physics: Conference Series</i> , 2011 , 303, 012103	0.3	3
35	Control of charge carrier density in mesoporous silicon by adsorption of active molecules. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1404-1407	1.6	3
34	High Photocatalytic Activity Nanomaterials Based on Titanium Dioxide. <i>Nanotechnologies in Russia</i> , 2019 , 14, 190-196	0.6	3
33	EPR Study on the Intercalation of Azoles into Transition Metal Oxides. <i>Applied Magnetic Resonance</i> , 2020 , 51, 1079-1092	0.8	2
32	Solvothermally-derived MoO3-benzotriazole hybrid structures for nanocontainer depot systems. <i>New Journal of Chemistry</i> , 2020 , 44, 11131-11136	3.6	2
31	The Effect of Spin Center Parameters on the Photoactivity of Nanocrystalline Titanium Dioxide in the Visible Spectral Range. <i>Crystallography Reports</i> , 2020 , 65, 130-137	0.6	2
30	Red-Shifted Absorptions of Cation-Defective and Surface-Functionalized Anatase with Enhanced Photoelectrochemical Properties. <i>ACS Omega</i> , 2019 , 4, 10929-10938	3.9	2
29	Investigation of the photoelectronic properties of nanocrystalline carbon- and nitrogen-doped titanium dioxide. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2014 , 69, 180-184	0.7	2
28	The optoelectronic properties of nitrogen- and carbon-doped nanocrystalline titania. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2013 , 68, 387-396	0.7	2
27	Microwave photoconductivity in nanocrystalline porous titanium oxide subjected to pulsed laser excitation. <i>Semiconductors</i> , 2002 , 36, 319-324	0.7	2
26	Effect of the initial doping level on changes in the free-carrier concentration in porous silicon during ammonia adsorption. <i>Semiconductors</i> , 2005 , 39, 1338	0.7	2
25	Photoaccumulating Nanoheterostructures Based on Titanium Dioxide. <i>Semiconductors</i> , 2021 , 55, 219-227.	0.7	2
24	Investigation of Photoelectron Properties of Polymer Films with Silicon Nanoparticles. <i>Surfaces</i> , 2019 , 2, 387-394	2.9	1
23	Characterization of Porous Silicon by EPR and ENDOR 2018 , 627-654		1
22	The dependence of magnetic properties of Co/FeMn bilayer structure on the magnitude of magnetic field applied during the layer deposition. <i>Journal of Physics: Conference Series</i> , 2011 , 303, 012104	0.3	1

21	Catalytic impact of RuOx clusters to high NH3 sensitivity of tin dioxide. <i>Procedia Engineering</i> , 2011 , 25, 227-230		1
20	Influence of iodine molecule adsorption on electronic properties of porous silicon studied by FTIR and EPR spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 2121-2125		1
19	Investigation of Paramagnetic Centers in Fullerides A2MC60 and AM2C60 (A = K, Rb, M = Mg, Be). <i>Applied Magnetic Resonance</i> , 2008 , 33, 177-184	0.8	1
18	The interaction of P b centers with oxygen molecules in porous silicon powders. <i>Russian Journal of Physical Chemistry B</i> , 2008 , 2, 753-756	1.2	1
17	Influence of pyridine molecule adsorption on concentrations of free carriers and paramagnetic centers in porous silicon layers. <i>Semiconductors</i> , 2005 , 39, 458	0.7	1
16	Photovoltage and photo-induced charge trapping in porous silicon 1996 , 62, 547		1
15	Characterization of Porous Silicon by EPR and ENDOR 2017 , 1-28		1
14	Comparative Study: Catalytic Activity and Rhodamine Dye Luminescence at the Surface of TiO2-Based Nanoheterostructures. <i>Symmetry</i> , 2021 , 13, 1758	2.7	1
13	Doping Nature of Group V Elements in ZnO Single Crystals Grown from Melts at High Pressure. <i>Crystal Growth and Design</i> , 2022 , 22, 2452-2461	3.5	1
12	Nanostructured Microspheres Based on Titanium Nano-Oxide with the Function of Accumulation of a Charge for Prolonged Catalysis. <i>JETP Letters</i> , 2020 , 112, 527-531	1.2	0
11	Influence of Formation Conditions on Structure and Properties of Paramagnetic Centers in Polymorphous Silicon Films. <i>Applied Magnetic Resonance</i> , 2016 , 47, 693-700	0.8	
10	The influence of light on the properties of paramagnetic centers in TiO2 nanocrystals doped with nitrogen. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2013 , 68, 61-64	0.7	
9	Enhanced photoluminescence in grooved silicon microstructures. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 104, 99-104	1.9	
8	Effect of the granule size in porous silicon on the photosensitization efficiency of molecular oxygen on the surface of silicon nanocrystals. <i>Journal of Experimental and Theoretical Physics</i> , 2009 , 108, 477-481		
7	Features of structure and properties of Na n C60 (n = 2, 3) fullerides synthesized in toluene. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2009 , 64, 172-176	0.7	
6	Superconductivity and spectroscopy of heterofullerides Rb2MC60, K2MC60, and KM2C60 (M = Mg, Be). <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 105, 250-252	1	
5	Optical study of equilibrium charge carriers in mesoporous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 3495-3499		
4	Structure and Properties of Polycrystalline TiO2-Doped with Chromium Ions Studied by EPR and Optical Methods. <i>Applied Magnetic Resonance</i> , 1	0.8	

- 3 Determination of Radicals Energy Levels in the Bandgap of Nanocrystalline Oxides of Titanium, Molybdenum, and Vanadium Using EPR Spectroscopy. *Doklady Physics*, **2021**, 66, 191-194 0.8
- 2 Thermoelectric Figure of Merit and Quantum Mobility of Holes in Copper-Doped Antimony-Telluride Single Crystals. *Semiconductors*,¹ 0.7
- 1 Synthesis and Properties of Silicon Carbide Nanoparticles Obtained by the Laser Pyrolysis of a Mixture of Monosilane and Acetylene. *Inorganic Materials: Applied Research*, **2022**, 13, 775-780 0.6