Elizaveta A Konstantinova

List of Publications by Year in Descending Order

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	Doping Nature of Group V Elements in ZnO Single Crystals Grown from Melts at High Pressure. *Crystal Growth and Design*, **2022**, 22, 2452-2461	3.5	1
91	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	
90	The Key Role of Active Sites in the Development of Selective Metal Oxide Sensor Materials. *Sensors*, **2021**, 21,	3.8	24
89	Photoaccumulating Nanoheterostructures Based on Titanium Dioxide. *Semiconductors*, **2021**, 55, 219-227	0.7	2
88	Comparative Study: Catalytic Activity and Rhodamine Dye Luminescence at the Surface of TiO2-Based Nanoheterostructures. *Symmetry*, **2021**, 13, 1758	2.7	1
87	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	
86	Titania-based nanoheterostructured microspheres for prolonged visible-light-driven photocatalysis. *Nanotechnology*, **2020**, 31, 345207	3.4	3
85	EPR Study on the Intercalation of Azoles into Transition Metal Oxides. *Applied Magnetic Resonance*, **2020**, 51, 1079-1092	0.8	2
84	Effect of Humidity on Light-Activated NO and NO Gas Sensing by Hybrid Materials. *Nanomaterials*, **2020**, 10,	5.4	9
83	Solvothermally-derived MoO3-benzotriazole hybrid structures for nanocontainer depot systems. *New Journal of Chemistry*, **2020**, 44, 11131-11136	3.6	2
82	The Effect of Spin Center Parameters on the Photoactivity of Nanocrystalline Titanium Dioxide in the Visible Spectral Range. *Crystallography Reports*, **2020**, 65, 130-137	0.6	2
81	Nanostructured Microspheres Based on Titanium Nano-Oxide with the Function of Accumulation of a Charge for Prolonged Catalysis. *JETP Letters*, **2020**, 112, 527-531	1.2	0
80	Structural and magnetic characteristics of carboxymethyl dextran coated magnetic nanoparticles: From characterization to immobilization application. *Reactive and Functional Polymers*, **2020**, 148, 104481	4.6	25
79	Melamine-Barbiturate Supramolecular Assembly as a pH-Dependent Organic Radical Trap Material. *Chemistry - A European Journal*, **2020**, 26, 16603-16610	4.8	5
78	Radical Activity of Binary Melamine-Based Hydrogen-Bonded Self-Assemblies. *Applied Magnetic Resonance*, **2020**, 51, 939-949	0.8	4
77	Dynamics of Photogenerated Charge Carriers in TiO2/MoO3, TiO2/WO3 and TiO2/V2O5 Photocatalysts with Mosaic Structure. *Catalysts*, **2020**, 10, 1022	4	5
76	EPR Study of Photoexcited Charge Carrier Behavior in TiO2/MoO3 and TiO2/MoO3:V2O5 Photocatalysts. *Catalysis Letters*, **2019**, 149, 2256-2267	2.8	10

75	Enhancement of Lewis Acidity of Cr-Doped Nanocrystalline SnO : Effect on Surface NH Oxidation and Sensory Detection Pattern. *ChemPhysChem*, **2019**, 20, 1985-1996	3.2	4
74	Investigation of Photoelectron Properties of Polymer Films with Silicon Nanoparticles. *Surfaces*, **2019**, 2, 387-394	2.9	1
73	Photoaccumulating TiO2MoO3, TiO2V2O5, and TiO2WO3 Heterostructures for Self-Sterilizing Systems with the Prolonged Bactericidal Activity. *Catalysis Letters*, **2019**, 149, 1147-1153	2.8	8
72	Quasi Similar Routes of NO and NO Sensing by Nanocrystalline WO: Evidence by In Situ DRIFT Spectroscopy. *Sensors*, **2019**, 19,	3.8	17
71	Influence of Aluminum Addition on the Structure and Feathers of V2O5 Oxide Prepared by Mechanochemical Activation. *Journal of Physical Chemistry C*, **2019**, 123, 19991-19998	3.8	3
70	Red-Shifted Absorptions of Cation-Defective and Surface-Functionalized Anatase with Enhanced Photoelectrochemical Properties. *ACS Omega*, **2019**, 4, 10929-10938	3.9	2
69	High Photocatalytic Activity Nanomaterials Based on Titanium Dioxide. *Nanotechnologies in Russia*, **2019**, 14, 190-196	0.6	3
68	Nanocomposites SnO/SiO:SiO Impact on the Active Centers and Conductivity Mechanism. *Materials*, **2019**, 12,	3.5	7
67	Determination of the Energy Levels of Paramagnetic Centers in the Band Gap of Nanostructured Oxide Semiconductors Using EPR Spectroscopy. *Journal of Physical Chemistry C*, **2018**, 122, 10248-10254	3.8	18
66	Unveiling point defects in titania mesocrystals: a combined EPR and XPS study. *New Journal of Chemistry*, **2018**, 42, 15184-15189	3.6	6
65	Features of Charge Accumulation Processes in Nanoheterostructures Based on Titanium and Molybdenum Oxides. *JETP Letters*, **2018**, 107, 264-268	1.2	5
64	Characterization of Porous Silicon by EPR and ENDOR **2018**, 627-654		1
63	Effects of Ag Additive in Low Temperature CO Detection with InOBased Gas Sensors. *Nanomaterials*, **2018**, 8,	5.4	11
62	Influence of Defects on Photoconductivity and Photocatalytic Activity of Nitrogen-Doped Titania. *Applied Magnetic Resonance*, **2017**, 48, 335-345	0.8	8
61	Photoaccumulating film systems based on TiO2/MoO3 and TiO2/MoO3:V2O5 nanoheterostructures. *Russian Journal of Physical Chemistry B*, **2017**, 11, 348-353	1.2	8
60	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. *Technical Physics Letters*, **2017**, 43, 424-427	0.7	4
59	Characterization of Porous Silicon by EPR and ENDOR **2017**, 1-28		1
58	Influence of Formation Conditions on Structure and Properties of Paramagnetic Centers in Polymorphous Silicon Films. *Applied Magnetic Resonance*, **2016**, 47, 693-700	0.8	

57	Shedding Light on Aging of N-Doped Titania Photocatalysts. *Journal of Physical Chemistry C*, **2015**, 119, 18663-18670	3.8	17
56	Facile preparation of nitrogen-doped nanostructured titania microspheres by a new method of Thermally Assisted Reactions in Aqueous Sprays. *Journal of Materials Chemistry A*, **2014**, 2, 3102	13	22
55	Active Sites on Nanocrystalline Tin Dioxide Surface: Effect of Palladium and Ruthenium Oxides Clusters. *Journal of Physical Chemistry C*, **2014**, 118, 21541-21549	3.8	30
54	Investigation of the photoelectronic properties of nanocrystalline carbon- and nitrogen-doped titanium dioxide. *Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)*, **2014**, 69, 180-184	0.7	2
53	Paramagnetic centers of photocatalysts based on nitrogen-doped titanium dioxide. *Kinetics and Catalysis*, **2013**, 54, 373-377	1.5	7
52	The influence of light on the properties of paramagnetic centers in TiO2 nanocrystals doped with nitrogen. *Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)*, **2013**, 68, 61-64	0.7	
51	Features of the structure and defect states in hydrogenated polymorphous silicon films. *JETP Letters*, **2013**, 97, 466-469	1.2	7
50	Nanocrystalline ZnO(Ga): Paramagnetic centers, surface acidity and gas sensor properties. *Sensors and Actuators B: Chemical*, **2013**, 182, 555-564	8.5	58
49	The optoelectronic properties of nitrogen- and carbon-doped nanocrystalline titania. *Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)*, **2013**, 68, 387-396	0.7	2
48	Preparation of Nanocrystalline Nitrogen-doped Mesoporous Titanium Dioxide. *Mendeleev Communications*, **2013**, 23, 11-13	1.9	3
47	Role of PdOx and RuOy Clusters in Oxygen Exchange between Nanocrystalline Tin Dioxide and the Gas Phase. *Journal of Physical Chemistry C*, **2013**, 117, 23858-23867	3.8	23
46	Paramagnetic properties of carbon-doped titanium dioxide. *Nanoscale Research Letters*, **2012**, 7, 333	5	17
45	Electron spin resonance characterization of defects in sensor materials based on nanocrystalline tin dioxide **2012**,		3
44	Effect of parabenzoquinone adsorption on the magnetic properties of nanostructured silicon. *Semiconductors*, **2012**, 46, 1119-1121	0.7	4
43	Catalytic impact of RuOx clusters to high ammonia sensitivity of tin dioxide. *Sensors and Actuators B: Chemical*, **2012**, 175, 186-193	8.5	21
42	UV-VIS Photoconductivity of Nanocrystalline Tin Oxide. *Journal of Nanoelectronics and Optoelectronics*, **2012**, 7, 623-628	1.3	5
41	The dependence of magnetic properties of Co/FeMn bilayer structure on the magnitude of magnetic field applied during the layer deposition. *Journal of Physics: Conference Series*, **2011**, 303, 012104	0.3	1
40	Temperature dependence of exchange bias in Co/FeMn-structure induced by heating and cooling in magnetic field. *Journal of Physics: Conference Series*, **2011**, 303, 012103	0.3	3

39	Catalytic impact of RuOx clusters to high NH3 sensitivity of tin dioxide. *Procedia Engineering*, **2011**, 25, 227-230		1
38	Enhanced photoluminescence in grooved silicon microstructures. *Applied Physics B: Lasers and Optics*, **2011**, 104, 99-104	1.9	
37	EPR study of chromium-doped porous titanium dioxide. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2011**, 8, 1954-1956		5
36	Correlation between spin density and photoluminescence intensity in thermally oxidized porous silicon. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2011**, 8, 1928-1930		6
35	EPR study of nanocrystalline tin dioxide. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2011**, 8, 1957-1960		10
34	Luminescence and photosensitization properties of ensembles of silicon nanocrystals in terms of an exciton migration model. *Journal of Experimental and Theoretical Physics*, **2010**, 111, 830-843	1	6
33	Detection of singlet oxygen in photoexcited porous silicon nanocrystals by photoluminescence measurements. *Semiconductors*, **2010**, 44, 89-92	0.7	13
32	Study of spin centers in nanocrystalline titanium dioxide with a high degree of photocatalytic activity. *Semiconductors*, **2010**, 44, 1059-1063	0.7	8
31	Magnetic and structural anomalies of NanC60 (n = 2, 3). *Open Physics*, **2010**, 8,	1.3	4
30	EPR study of the illumination effect on properties of paramagnetic centers in nitrogen-doped TiO2 active in visible light photocatalysis. *Applied Magnetic Resonance*, **2009**, 35, 421-427	0.8	16
29	IR and EPR study of ammonia adsorption effect on silicon nanocrystals. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 1330-1332	1.6	5
28	EPR and photoluminescence diagnostics of singlet oxygen generation on porous silicon surface. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 1700-1703		4
27	Effect of the granule size in porous silicon on the photosensitization efficiency of molecular oxygen on the surface of silicon nanocrystals. *Journal of Experimental and Theoretical Physics*, **2009**, 108, 477-481	1	
26	Features of structure and properties of Na n C60 (n = 2, 3) fullerides synthesized in toluene. *Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)*, **2009**, 64, 172-176	0.7	
25	Investigation of Paramagnetic Centers in Fullerides A2MC60 and AM2C60 (A = K, Rb, M = Mg, Be). *Applied Magnetic Resonance*, **2008**, 33, 177-184	0.8	1
24	The interaction of P b centers with oxygen molecules in porous silicon powders. *Russian Journal of Physical Chemistry B*, **2008**, 2, 753-756	1.2	1
23	Study of the paramagnetic centers in heterofullerides MnM?3-nC60 (M = K, Rb, Cs; M? = Be, Mg, Ca, Ba; n = 1, 2). *Russian Journal of Inorganic Chemistry*, **2008**, 53, 30-35	1.5	7
22	Investigation of the generation of singlet oxygen in ensembles of photoexcited silicon nanocrystals by electron paramagnetic resonance spectroscopy. *Journal of Experimental and Theoretical Physics*, **2008**, 107, 473-481	1	10

21	Influence of iodine molecule adsorption on electronic properties of porous silicon studied by FTIR and EPR spectroscopy. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 2121-2125		1
20	Control of charge carrier density in mesoporous silicon by adsorption of active molecules. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 1404-1407	1.6	3
19	EPR diagnostics of the photosensitized generation of singlet oxygen on the surface of silicon nanocrystals. *JETP Letters*, **2007**, 85, 59-62	1.2	15
18	Superconductivity and spectroscopy of heterofullerides Rb2MC60, K2MC60, and KM2C60 (M = Mg, Be). *Journal of Experimental and Theoretical Physics*, **2007**, 105, 250-252	1	
17	Modification of the properties of porous silicon on adsorption of iodine molecules. *Semiconductors*, **2007**, 41, 953-957	0.7	10
16	Silicon nanocrystals as efficient photosensitizer of singlet oxygen for biomedical applications **2007**,		6
15	Carbon-Doped Titanium Dioxide: Visible Light Photocatalysis and EPR Investigation. *Chimia*, **2007**, 61, 810-814	1.3	41
14	Chemical modification of a porous silicon surface induced by nitrogen dioxide adsorption. *Journal of Physical Chemistry B*, **2005**, 109, 4684-93	3.4	12
13	The role of boron impurity in the activation of free charge carriers in layers of porous silicon during the adsorption of acceptor molecules. *Semiconductors*, **2005**, 39, 347-350	0.7	9
12	Influence of pyridine molecule adsorption on concentrations of free carriers and paramagnetic centers in porous silicon layers. *Semiconductors*, **2005**, 39, 458	0.7	1
11	Effect of the initial doping level on changes in the free-carrier concentration in porous silicon during ammonia adsorption. *Semiconductors*, **2005**, 39, 1338	0.7	2
10	Optical study of equilibrium charge carriers in mesoporous silicon. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 3495-3499		
9	Influence of NO2 molecule adsorption on free charge carriers and spin centers in porous silicon. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1592-1596	1.6	12
8	Effect of adsorption of the donor and acceptor molecules at the surface of porous silicon on the recombination properties of silicon nanocrystals. *Semiconductors*, **2004**, 38, 1344-1349	0.7	7
7	Interaction of nitrogen dioxide molecules with the surface of silicon nanocrystals in porous silicon layers. *Journal of Experimental and Theoretical Physics*, **2004**, 99, 741-748	1	7
6	Microwave photoconductivity in nanocrystalline porous titanium oxide subjected to pulsed laser excitation. *Semiconductors*, **2002**, 36, 319-324	0.7	2
5	Radiation hardness of porous silicon. *Semiconductors*, **1997**, 31, 966-969	0.7	6
4	Photovoltage and photo-induced charge trapping in porous silicon. *Applied Physics A: Materials Science and Processing*, **1996**, 62, 547-551	2.6	5

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3	Photovoltage and photo-induced charge trapping in porous silicon **1996**, 62, 547	1
2	Structure and Properties of Polycrystalline TiO2-Doped with Chromium Ions Studied by EPR and Optical Methods. *Applied Magnetic Resonance*,1	0.8
1	Thermoelectric Figure of Merit and Quantum Mobility of Holes in Copper-Doped Antimony-Telluride Single Crystals. *Semiconductors*,1	0.7