

# Marina N Rummyantseva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4001737/publications.pdf>

Version: 2024-02-01

205  
papers

4,649  
citations

94433

37  
h-index

138484

58  
g-index

206  
all docs

206  
docs citations

206  
times ranked

4248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative effect of PdOx and SiO2 in CO detection by SnO2-based gas sensors: Thorough operando DRIFTS analysis. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162297.	5.5	3
2	In2O3 Based Hybrid Materials: Interplay between Microstructure, Photoelectrical and Light Activated NO2 Sensor Properties. <i>Chemosensors</i> , 2022, 10, 135.	3.6	6
3	UV-Activated NO2 Gas Sensing by Nanocrystalline ZnO: Mechanistic Insights from Mass Spectrometry Investigations. <i>Chemosensors</i> , 2022, 10, 147.	3.6	11
4	Au Functionalized SnS2 Nanosheets Based Chemiresistive NO2 Sensors. <i>Chemosensors</i> , 2022, 10, 165.	3.6	8
5	Comparison of Au-functionalized semiconductor metal oxides in sensitivity to VOC. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128980.	7.8	33
6	Photoresistive gas sensor based on nanocrystalline ZnO sensitized with colloidal perovskite CsPbBr3 nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129035.	7.8	24
7	ZnSe/NiO heterostructure-based chemiresistive-type sensors for low-concentration NO2 detection. <i>Rare Metals</i> , 2021, 40, 1632-1641.	7.1	38
8	WS2 nanotubes dressed in gold and silver: Synthesis, optoelectronic properties, and NO2 sensing. <i>AIP Conference Proceedings</i> , 2021, . .	0.4	0
9	Nanocrystalline Oxides NixCo3xO4: Sub-ppm H2S Sensing and Humidity Effect. <i>Chemosensors</i> , 2021, 9, 34.	3.6	6
10	Effect of W-O bonding on gas sensitivity of nanocrystalline Bi2WO6 and WO3. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158159.	5.5	12
11	Light Activation of Nanocrystalline Metal Oxides for Gas Sensing: Principles, Achievements, Challenges. <i>Nanomaterials</i> , 2021, 11, 892.	4.1	38
12	The Key Role of Active Sites in the Development of Selective Metal Oxide Sensor Materials. <i>Sensors</i> , 2021, 21, 2554.	3.8	67
13	Obituary for Prof. Dr. Alexander Gaskov. <i>Sensors</i> , 2021, 21, 2913.	3.8	0
14	Simple in situ analysis of metal halide perovskite-based sensor materials using micro X-ray fluorescence and inductively coupled plasma mass spectrometry. <i>Mendeleev Communications</i> , 2021, 31, 462-464.	1.6	5
15	Low Temperature HCHO Detection by SnO2/TiO2@Au and SnO2/TiO2@Pt: Understanding by In-Situ DRIFT Spectroscopy. <i>Nanomaterials</i> , 2021, 11, 2049.	4.1	5
16	Flame-Made La2O3-Based Nanocomposite CO2 Sensors as Perspective Part of GHG Monitoring System. <i>Sensors</i> , 2021, 21, 7297.	3.8	2
17	Ga2O3(Sn) Oxides for High-Temperature Gas Sensors. <i>Nanomaterials</i> , 2021, 11, 2938.	4.1	18
18	Nanocrystalline SnO2 Functionalized with Ag(I) Organometallic Complexes as Materials for Low Temperature H2S Detection. <i>Materials</i> , 2021, 14, 7778.	2.9	5

#	ARTICLE	IF	CITATIONS
19	Tin oxide nanomaterials: Active centers and gas sensor properties. , 2020, , 163-218.		5
20	Sub-ppm H <sub>2</sub> S sensing by tubular ZnO-Co <sub>3</sub> O <sub>4</sub> nanofibers. Sensors and Actuators B: Chemical, 2020, 307, 127624.	7.8	31
21	Visible-light activated room temperature NO <sub>2</sub> sensing of SnS <sub>2</sub> nanosheets based chemiresistive sensors. Sensors and Actuators B: Chemical, 2020, 305, 127455.	7.8	109
22	The acetic acid vapor sensing properties of BaSnO <sub>3</sub> microtubes prepared by electrospinning method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 259, 114606.	3.5	10
23	Electrospun ZnO/Pd Nanofibers: CO Sensing and Humidity Effect. Sensors, 2020, 20, 7333.	3.8	14
24	Effect of Humidity on Light-Activated NO and NO <sub>2</sub> Gas Sensing by Hybrid Materials. Nanomaterials, 2020, 10, 915.	4.1	24
25	Electron injection effect in In <sub>2</sub> O <sub>3</sub> and SnO <sub>2</sub> nanocrystals modified by ruthenium heteroleptic complexes. Physical Chemistry Chemical Physics, 2020, 22, 8146-8156.	2.8	5
26	Effect of WO <sub>3</sub> particle size on the type and concentration of surface oxygen. Mendeleev Communications, 2020, 30, 126-128.	1.6	2
27	Nanocrystalline complex oxides Ni <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> : Cations distribution impact on electrical and gas sensor behaviour. Journal of Alloys and Compounds, 2020, 828, 154420.	5.5	7
28	Gas-sensing behaviors of TiO <sub>2</sub> -layer-modified SnO <sub>2</sub> quantum dots in self-heating mode and effects of the TiO <sub>2</sub> layer. Sensors and Actuators B: Chemical, 2020, 310, 127870.	7.8	26
29	Organic-Inorganic Hybrid Materials for Room Temperature Light-Activated Sub-ppm NO Detection. Nanomaterials, 2020, 10, 70.	4.1	11
30	p-n Transition-Enhanced Sensing Properties of rGO-SnO <sub>2</sub> Heterojunction to NO <sub>2</sub> at Room Temperature. IEEE Sensors Journal, 2020, 20, 4562-4570.	4.7	9
31	Synergy Effect of Au and SiO <sub>2</sub> Modification on SnO <sub>2</sub> Sensor Properties in VOCs Detection in Humid Air. Nanomaterials, 2020, 10, 813.	4.1	16
32	Crystalline WO <sub>3</sub> nanoparticles for NO <sub>2</sub> sensing. Processing and Application of Ceramics, 2020, 14, 282-292.	0.8	10
33	Quasi Similar Routes of NO <sub>2</sub> and NO Sensing by Nanocrystalline WO <sub>3</sub> : Evidence by In Situ DRIFT Spectroscopy. Sensors, 2019, 19, 3405.	3.8	30
34	Light-Assisted Low Temperature Formaldehyde Detection at Sub-ppm Level Using Metal Oxide Semiconductor Gas Sensors. Proceedings (mdpi), 2019, 14, 37.	0.2	1
35	Nanocrystalline LaCoO <sub>3</sub> Modified by Ag Nanoparticles with Improved Sensitivity to H <sub>2</sub> S. Proceedings (mdpi), 2019, 14, 44.	0.2	0
36	Sub-ppm Formaldehyde Detection by n-n TiO <sub>2</sub> @SnO <sub>2</sub> Nanocomposites. Sensors, 2019, 19, 3182.	3.8	32

#	ARTICLE	IF	CITATIONS
37	High-temperature resistive gas sensors based on ZnO/SiC nanocomposites. Beilstein Journal of Nanotechnology, 2019, 10, 1537-1547.	2.8	14
38	High Temperature Resistive Gas Sensors Based on ZnO/SiC Nanocomposites. Proceedings (mdpi), 2019, 14, 36.	0.2	2
39	Light-Activated Sub-ppm NO <sub>2</sub> Detection by Hybrid ZnO/QD Nanomaterials vs. Charge Localization in Core-Shell QD. Frontiers in Materials, 2019, 6, .	2.4	15
40	Nanocrystalline LaCoO <sub>3</sub> modified by Ag nanoparticles with improved sensitivity to H <sub>2</sub> S. Sensors and Actuators B: Chemical, 2019, 296, 126661.	7.8	22
41	Enhancement of Lewis Acidity of Cr <sup>3+</sup> -Doped Nanocrystalline SnO <sub>2</sub> : Effect on Surface NH <sub>3</sub> Oxidation and Sensory Detection Pattern. ChemPhysChem, 2019, 20, 1985-1996.	2.1	9
42	Room Temperature Formaldehyde Sensing of Hollow SnO <sub>2</sub> /ZnO Heterojunctions Under UV-LED Activation. IEEE Sensors Journal, 2019, 19, 7207-7214.	4.7	18
43	Effect of AuPd Bimetal Sensitization on Gas Sensing Performance of Nanocrystalline SnO <sub>2</sub> Obtained by Single Step Flame Spray Pyrolysis. Nanomaterials, 2019, 9, 728.	4.1	31
44	First-principles study of CO and OH adsorption on in-doped ZnO surfaces. Journal of Physics and Chemistry of Solids, 2019, 132, 172-181.	4.0	8
45	Effect of Zinc Oxide Modification by Indium Oxide on Microstructure, Adsorbed Surface Species, and Sensitivity to CO. Frontiers in Materials, 2019, 6, .	2.4	13
46	A real-time on-line photoelectrochemical sensor toward chemical oxygen demand determination based on field-effect transistor using an extended gate with 3D TiO <sub>2</sub> nanotube arrays. Sensors and Actuators B: Chemical, 2019, 289, 106-113.	7.8	44
47	Nanocomposites SnO <sub>2</sub> /SiO <sub>2</sub> for CO Gas Sensors: Microstructure and Reactivity in the Interaction with the Gas Phase. Materials, 2019, 12, 1096.	2.9	22
48	Nanocomposites SnO <sub>2</sub> /SiO <sub>2</sub> :SiO <sub>2</sub> Impact on the Active Centers and Conductivity Mechanism. Materials, 2019, 12, 3618.	2.9	8
49	Reduced graphene oxide hybridized with WS <sub>2</sub> nanoflakes based heterojunctions for selective ammonia sensors at room temperature. Sensors and Actuators B: Chemical, 2019, 282, 290-299.	7.8	112
50	The Effect of CdSe and InP Quantum Dots on the Interaction of ZnO with NO <sub>2</sub> under Visible Light Irradiation. Russian Journal of Inorganic Chemistry, 2018, 63, 512-518.	1.3	12
51	Selective detection of individual gases and CO/H <sub>2</sub> mixture at low concentrations in air by single semiconductor metal oxide sensors working in dynamic temperature mode. Sensors and Actuators B: Chemical, 2018, 254, 502-513.	7.8	61
52	Acidic and catalytic co-functionalization for tuning the sensitivity of sulfated tin oxide modified by ruthenium oxide to ammonia gas. Sensors and Actuators B: Chemical, 2018, 255, 3523-3532.	7.8	13
53	Ultrasonic disintegration of tungsten trioxide pseudomorphs after ammonium paratungstate as a route for stable aqueous sols of nanocrystalline WO <sub>3</sub> . Journal of Materials Science, 2018, 53, 1758-1768.	3.7	9
54	p-CoOx/n-SnO <sub>2</sub> nanostructures: New highly selective materials for H <sub>2</sub> S detection. Sensors and Actuators B: Chemical, 2018, 255, 564-571.	7.8	20

#	ARTICLE	IF	CITATIONS
55	Determination of gold and cobalt dopants in advanced materials based on tin oxide by slurry sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 140, 1-4.	2.9	13
56	Detection of Carbon Monoxide in Humid Air with Double-Layer Structures Based on Semiconducting Metal Oxides and Silicalite. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1671-1679.	0.5	5
57	Influence of Mono- and Bimetallic PtOx, PdOx, PtPdOx Clusters on CO Sensing by SnO2 Based Gas Sensors. <i>Nanomaterials</i> , 2018, 8, 917.	4.1	22
58	Gold Decoration and Photoresistive Response to Nitrogen Dioxide of WS <sub>2</sub> Nanotubes. <i>Chemistry - A European Journal</i> , 2018, 24, 18952-18962.	3.3	27
59	Effects of Ag Additive in Low Temperature CO Detection with In2O3 Based Gas Sensors. <i>Nanomaterials</i> , 2018, 8, 801.	4.1	17
60	Sensitivity of nanocrystalline tungsten oxide to CO and ammonia gas determined by surface catalysts. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 336-346.	7.8	18
61	Photosensitive Organic-Inorganic Hybrid Materials for Room Temperature Gas Sensor Applications. <i>Nanomaterials</i> , 2018, 8, 671.	4.1	18
62	Effect of Bimetallic Pd/Pt Clusters on the Sensing Properties of Nanocrystalline SnO2 in the Detection of CO. <i>Russian Journal of Inorganic Chemistry</i> , 2018, 63, 1007-1011.	1.3	8
63	Controlling the phase composition of cadmium sulfide films during pulsed laser deposition. <i>Inorganic Materials</i> , 2017, 53, 1120-1125.	0.8	2
64	Cobalt location in p-CoOx/n-SnO2 nanocomposites: Correlation with gas sensor performances. <i>Journal of Alloys and Compounds</i> , 2017, 721, 249-260.	5.5	19
65	Chemically modified nanocrystalline SnO2-based materials for nitrogen-containing gases detection using gas sensor array. <i>Journal of Alloys and Compounds</i> , 2017, 691, 514-523.	5.5	27
66	Synthesis of ZnO Thin Films Doped with Ga and In: Determination of Their Composition through X-Ray Spectroscopy and Inductively Coupled Plasma Mass Spectrometry. <i>Inorganic Materials</i> , 2017, 53, 1458-1462.	0.8	0
67	Active sites on the surface of nanocrystalline semiconductor oxides ZnO and SnO2 and gas sensitivity. <i>Russian Chemical Bulletin</i> , 2017, 66, 1728-1764.	1.5	18
68	H2S Sensing by Hybrids Based on Nanocrystalline SnO2 Functionalized with Cu(II) Organometallic Complexes: The Role of the Ligand Platform. <i>Nanomaterials</i> , 2017, 7, 384.	4.1	7
69	Co3O4 as p-Type Material for CO Sensing in Humid Air. <i>Sensors</i> , 2017, 17, 2216.	3.8	51
70	Highly Sensitive ZnO(Ga, In) for Sub-ppm Level NO2 Detection: Effect of Indium Content. <i>Chemosensors</i> , 2017, 5, 18.	3.6	15
71	Synthesis, Optical Characteristics and Complex Formation of Molecular Receptors Based on 1,8-Naphthalimide Derivatives in Solution and in Composition of Hybrid Tin Dioxide Nanoparticles. <i>Macromolecules</i> , 2017, 50, 84-93.	0.5	2
72	Effect of n-type Doping of SnO2 and ZnO on Surface Sites and Gas Sensing Behaviour. <i>Procedia Engineering</i> , 2016, 168, 1082-1085.	1.2	5

#	ARTICLE	IF	CITATIONS
73	Nanocrystalline tin dioxide: Basics in relation with gas sensing phenomena part II. Active centers and sensor behavior. <i>Inorganic Materials</i> , 2016, 52, 1311-1338.	0.8	8
74	UV effect on NO <sub>2</sub> sensing properties of nanocrystalline In <sub>2</sub> O <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 491-496.	7.8	54
75	Effect of cadmium-selenide quantum dots on the conductivity and photoconductivity of nanocrystalline indium oxide. <i>Semiconductors</i> , 2016, 50, 607-611.	0.5	3
76	Visible light activation of room temperature NO <sub>2</sub> gas sensors based on ZnO, SnO <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> sensitized with CdSe quantum dots. <i>Thin Solid Films</i> , 2016, 618, 253-262.	1.8	53
77	Influence of La(III) on the reactivity and sensor properties of nanocrystalline SnO <sub>2</sub> . <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 1368-1373.	1.3	1
78	Determination of selenium and cadmium dopants in nanocomposites based on zinc and indium oxides by high resolution continuous source electrothermal atomic absorption spectrometry and inductively coupled plasma mass spectrometry. <i>Journal of Analytical Chemistry</i> , 2016, 71, 496-499.	0.9	4
79	Effect of Ga and In doping on acid centers and oxygen chemisorption on the surface of nanocrystalline ZnO. <i>Inorganic Materials</i> , 2016, 52, 578-583.	0.8	4
80	SnO <sub>2</sub> (AuO, CoII, III) nanocomposites: A synergistic effect of the modifiers in CO detection. <i>Inorganic Materials</i> , 2016, 52, 94-100.	0.8	6
81	Quantification of modifiers in advanced materials based on zinc oxide by total reflection X-ray fluorescence and inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 62-65.	2.9	8
82	Effect of antimony on the reaction of nanocrystalline SnO <sub>2</sub> with oxygen. <i>Inorganic Materials</i> , 2016, 52, 1-6.	0.8	1
83	Selectivity of Catalytically Modified Tin Dioxide to CO and NH <sub>3</sub> Gas Mixtures. <i>Chemosensors</i> , 2015, 3, 241-252.	3.6	16
84	Nanocrystalline BaSnO <sub>3</sub> as an Alternative Gas Sensor Material: Surface Reactivity and High Sensitivity to SO <sub>2</sub> . <i>Materials</i> , 2015, 8, 6437-6454.	2.9	63
85	Optical and photoelectrical properties of nanocrystalline indium oxide with small grains. <i>Thin Solid Films</i> , 2015, 595, 25-31.	1.8	33
86	Voltage effect on the sensitivity of nanocrystalline indium oxide to nitrogen dioxide under ultraviolet irradiation. <i>Technical Physics Letters</i> , 2015, 41, 252-254.	0.7	4
87	Specific Interaction of PdO <sub>x</sub> - and RuO <sub>y</sub> -Modified Tin Dioxide with CO and NH <sub>3</sub> Gases: Kelvin Probe and DRIFT Studies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24342-24350.	3.1	17
88	Nanocrystalline tin dioxide: Basics in relation with gas sensing phenomena. Part I. Physical and chemical properties and sensor signal formation. <i>Inorganic Materials</i> , 2015, 51, 1329-1347.	0.8	32
89	Doping effects on electrical and optical properties of spin-coated ZnO thin films. <i>Vacuum</i> , 2015, 114, 198-204.	3.5	30
90	Interplay between active sites of modified nanocrystalline tin dioxide and selectivity to CO and NH <sub>3</sub> gases. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
91	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.	3.1	35
92	Visible light activated room temperature gas sensors based on nanocrystalline ZnO sensitized with CdSe quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 305-312.	7.8	68
93	Charge carrier transport mechanisms in nanocrystalline indium oxide. <i>Thin Solid Films</i> , 2014, 558, 320-325.	1.8	15
94	Effect of the tin impurity on the energy spectrum and photoelectric properties of nanostructured In <sub>2</sub> O <sub>3</sub> films. <i>Semiconductors</i> , 2014, 48, 451-454.	0.5	0
95	Effect of heterovalent substitution on the electrical and optical properties of ZnO(M) thin films (M =) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	0
96	One-dimensional CuO/SnO <sub>2</sub> heterojunctions for enhanced detection of H <sub>2</sub> S. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11261.	10.3	58
97	Conductivity of nanocrystalline ZnO(Ga). <i>Semiconductors</i> , 2013, 47, 650-654.	0.5	14
98	Photoconductivity of composite structures based on porous SnO <sub>2</sub> sensitized with CdSe nanocrystals. <i>Semiconductors</i> , 2013, 47, 383-386.	0.5	4
99	Transport properties of thin SnO <sub>2</sub> /Sb films grown by pulsed laser deposition. <i>Inorganic Materials</i> , 2013, 49, 1123-1126.	0.8	3
100	Heterostructured p-CuO (nanoparticle)/n-SnO <sub>2</sub> (nanowire) devices for selective H <sub>2</sub> S detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 130-135.	7.8	148
101	Nanocrystalline ZnO(Ga): Paramagnetic centers, surface acidity and gas sensor properties. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 555-564.	7.8	74
102	Pd nanoparticles on SnO <sub>2</sub> (Sb) whiskers: Aggregation and reactivity in CO detection. <i>Journal of Alloys and Compounds</i> , 2013, 565, 6-10.	5.5	16
103	Chemical modification of nanocrystalline tin dioxide for selective gas sensors. <i>Russian Chemical Reviews</i> , 2013, 82, 917-941.	6.5	72
104	Frequency-dependent electrical conductivity of nanocrystalline SnO <sub>2</sub> . <i>Inorganic Materials</i> , 2013, 49, 1000-1004.	0.8	6
105	Detection of organophosphorus compounds with semiconductor gas sensors using adsorption preconcentration. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 1682-1690.	0.5	0
106	Effect of surface modification with palladium on the CO sensing properties of antimony-doped SnO <sub>2</sub> whiskers. <i>Inorganic Materials</i> , 2013, 49, 1005-1010.	0.8	2
107	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.	0.4	3
108	Photoconductivity of structures based on the SnO <sub>2</sub> porous matrix coupled with core-shell CdSe/CdS quantum dots. <i>Applied Physics Letters</i> , 2013, 103, 133115.	3.3	10

#	ARTICLE	IF	CITATIONS
109	Combination of tailored acid-base and red/ox properties of nanocrystalline SnO <sub>2</sub> for optimal gas sensor performance: Principle applicability study on NH <sub>3</sub> and H <sub>2</sub> S examples. , 2013, , .		0
110	Photoconductivity of nanocrystalline SnO <sub>2</sub> sensitized with colloidal CdSe quantum dots. Journal of Materials Chemistry C, 2013, 1, 1005-1010.	5.5	25
111	pH control of the structure, composition, and catalytic activity of sulfated zirconia. Journal of Solid State Chemistry, 2013, 198, 496-505.	2.9	24
112	Design, Synthesis and Application of Metal Oxide-Based Sensing Elements: A Chemical Principles Approach. , 2013, , 69-115.		9
113	Role of PdO <sub>x</sub> and RuO <sub>y</sub> Clusters in Oxygen Exchange between Nanocrystalline Tin Dioxide and the Gas Phase. Journal of Physical Chemistry C, 2013, 117, 23858-23867.	3.1	28
114	Pulsed laser deposition of conductive indium tin oxide thin films. Inorganic Materials, 2012, 48, 1020-1025.	0.8	11
115	Determination of antimony and tin in tin dioxide whiskers by inductively coupled plasma mass spectrometry. Journal of Analytical Chemistry, 2012, 67, 950-954.	0.9	4
116	Catalytic impact of RuO <sub>x</sub> clusters to high ammonia sensitivity of tin dioxide. Sensors and Actuators B: Chemical, 2012, 175, 186-193.	7.8	24
117	Cation distribution in nanocrystalline Ni <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrites. Inorganic Materials, 2012, 48, 525-530.	0.8	11
118	Oxygen exchange on nanocrystalline tin dioxide modified by palladium. Journal of Solid State Chemistry, 2012, 186, 1-8.	2.9	40
119	UV-VIS Photoconductivity of Nanocrystalline Tin Oxide. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 623-628.	0.5	6
120	SnO <sub>2</sub> Whiskers with Pd Nanoparticles for Gas Sensor Applications. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 607-613.	0.5	0
121	Acetone Sensing by Modified SnO <sub>2</sub> Nanocrystalline Sensor Materials. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 409-421.	0.3	3
122	Inversion of NH <sub>3</sub> sensor signal and paramagnetic centers of nanocrystalline ZnO(Ga). Procedia Engineering, 2011, 25, 296-299.	1.2	10
123	Catalytic impact of RuO <sub>x</sub> clusters to high NH <sub>3</sub> sensitivity of tin dioxide. Procedia Engineering, 2011, 25, 227-230.	1.2	3
124	CO and NH <sub>3</sub> sensor properties and paramagnetic centers of nanocrystalline SnO <sub>2</sub> modified by Pd and Ru. Thin Solid Films, 2011, 520, 904-908.	1.8	23
125	Nanocrystalline ferrites Ni <sub>x</sub> Zn <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> : Influence of cation distribution on acidic and gas sensing properties. Journal of Solid State Chemistry, 2011, 184, 2799-2805.	2.9	20
126	EPR study of nanocrystalline tin dioxide. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1957-1960.	0.8	11



#	ARTICLE	IF	CITATIONS
127	Hybrid sensor materials based on tin(IV) oxide and crown-containing 4-amino-1,8-naphthalimides. Mendeleev Communications, 2011, 21, 12-14.	1.6	11
128	Influence of In <sub>2</sub> O <sub>3</sub> Nanocrystals Size on the Sensitivity to NO <sub>2</sub> . Journal of Nanoelectronics and Optoelectronics, 2011, 6, 452-455.	0.5	8
129	Structural and Optoelectronic Properties of Tin Oxide Nanocrystals Prepared by Wet Chemistry Methods. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 514-518.	0.5	0
130	Effect of the conditions of structure formation on the physicochemical properties of ozonated shungites. Russian Journal of Physical Chemistry A, 2010, 84, 1376-1381.	0.6	4
131	Charge carrier transport in indium oxide nanocrystals. Journal of Experimental and Theoretical Physics, 2010, 111, 653-658.	0.9	12
132	Synthesis, Structure, and Sensor Properties of Vanadium Pentoxide Nanorods. European Journal of Inorganic Chemistry, 2010, 2010, 5247-5253.	2.0	42
133	Selectivity Modification of SnO <sub>2</sub> -Based Materials for Gas Sensor Arrays. Electroanalysis, 2010, 22, 2809-2816.	2.9	53
134	Antimony doped whiskers of SnO <sub>2</sub> grown from vapor phase. Journal of Crystal Growth, 2010, 312, 386-390.	1.5	8
135	Role of surface hydroxyl groups in promoting room temperature CO sensing by Pd-modified nanocrystalline SnO <sub>2</sub> . Journal of Solid State Chemistry, 2010, 183, 2389-2399.	2.9	81
136	Optical and photoelectric properties of nanocrystalline SnO <sub>2</sub> -CdSe quantum dot structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 972-975.	0.8	3
137	Effect of Au and NiO catalysts on the NO <sub>2</sub> sensing properties of nanocrystalline SnO <sub>2</sub> . Inorganic Materials, 2010, 46, 232-236.	0.8	26
138	Materials based on modified SnO <sub>2</sub> for selective gas sensors. Inorganic Materials, 2010, 46, 1100-1105.	0.8	14
139	Microstructure and gas-sensing properties of nanocrystalline NiFe <sub>2</sub> O <sub>4</sub> prepared by spray pyrolysis. Inorganic Materials, 2010, 46, 1254-1259.	0.8	12
140	Kinetics of interaction between nanocrystalline SnO <sub>2</sub> -M <sup>3+</sup> (M = In, Fe, Ru, Ce) and oxygen. Inorganic Materials, 2009, 45, 1153-1157.	0.8	2
141	Influence of antimony doping on structure and conductivity of tin oxide whiskers. Thin Solid Films, 2009, 518, 1359-1362.	1.8	10
142	Nanocrystalline SnO <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> as materials for gas sensors: The relationship between microstructure and oxygen chemisorption. Thin Solid Films, 2009, 518, 1283-1288.	1.8	44
143	Sensor properties of hybrid SnO <sub>2</sub> -polysilazane materials. Procedia Chemistry, 2009, 1, 172-175.	0.7	0
144	Selective modified SnO <sub>2</sub> -based materials for gas sensors arrays. Procedia Chemistry, 2009, 1, 204-207.	0.7	19

#	ARTICLE	IF	CITATIONS
145	Microstructure and sensing properties of nanocrystalline indium oxide prepared using hydrothermal treatment. Russian Journal of Inorganic Chemistry, 2009, 54, 163-171.	1.3	8
146	Conductivity of ultradispersed SnO <sub>2</sub> ceramic in strong electric fields. Semiconductors, 2009, 43, 156-157.	0.5	6
147	Metal Oxide Nanocomposites: Synthesis and Characterization in Relation with Gas Sensing Phenomena. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 3-30.	0.2	11
148	Synthesis, surface modification and ethanol sensing properties of Sb-doped SnO <sub>2</sub> . Proceedings of SPIE, 2009, , .	0.8	0
149	High-Sensitivity Humidity Sensor Based on a Single Sb-Doped SnO <sub>2</sub> Whisker. Sensor Letters, 2009, 7, 1025-1029.	0.4	10
150	Physicochemical and functional peculiarities of metal oxide whiskers. Russian Chemical Bulletin, 2008, 57, 1042-1053.	1.5	0
151	Chemical modification of nanocrystalline metal oxides: effect of the real structure and surface chemistry on the sensor properties. Russian Chemical Bulletin, 2008, 57, 1106-1125.	1.5	51
152	Sensor properties of vanadium oxide nanotubes. Mendeleev Communications, 2008, 18, 6-7.	1.6	27
153	Metal-oxide based nanocomposites as materials for gas sensors. Russian Journal of General Chemistry, 2008, 78, 1081-1092.	0.8	18
154	Influence of the microstructure of semiconductor sensor materials on oxygen chemisorption on their surface. Russian Journal of General Chemistry, 2008, 78, 2556-2565.	0.8	17
155	Effect of oxygen partial pressure on SnO <sub>2</sub> whisker growth. Inorganic Materials, 2008, 44, 268-271.	0.8	7
156	Pre-concentration of organophosphorous compounds on porous silica materials. Studies in Surface Science and Catalysis, 2008, 174, 623-626.	1.5	2
157	Surface chemistry of nanocrystalline SnO <sub>2</sub> : Effect of thermal treatment and additives. Sensors and Actuators B: Chemical, 2007, 126, 52-55.	7.8	77
158	Physicochemical properties of fine-particle ZnFe <sub>2</sub> O <sub>4</sub> prepared by spray pyrolysis of nitrate solutions. Inorganic Materials, 2007, 43, 853-859.	0.8	10
159	Vapor growth of SnO <sub>2</sub> whiskers. Inorganic Materials, 2007, 43, 964-967.	0.8	7
160	SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanocomposites: Ethanol-sensing performance and catalytic activity for oxidation of ethanol. Inorganic Materials, 2006, 42, 1088-1093.	0.8	21
161	SnO <sub>2</sub> /MoO <sub>3</sub> -nanostructure and alcohol detection. Sensors and Actuators B: Chemical, 2006, 118, 156-162.	7.8	42
162	Nanocomposites SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> : Sensor and catalytic properties. Sensors and Actuators B: Chemical, 2006, 118, 208-214.	7.8	117

#	ARTICLE	IF	CITATIONS
163	Impedance spectroscopy of ultrafine-grain SnO <sub>2</sub> ceramics with a variable grain size. <i>Semiconductors</i> , 2006, 40, 104-107.	0.5	15
164	Hydrogen sensitivity of SnO <sub>2</sub> thin films doped with Pt by laser ablation. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 387-391.	7.8	37
165	Nanocomposites SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> : Wet chemical synthesis and nanostructure characterization. <i>Sensors and Actuators B: Chemical</i> , 2005, 109, 64-74.	7.8	55
166	Synthesis, microstructure, and gas-sensing properties of SnO <sub>2</sub> /MoO <sub>3</sub> nanocomposites. <i>Inorganic Materials</i> , 2005, 41, 370-377.	0.8	12
167	Raman Surface Vibration Modes in Nanocrystalline SnO <sub>2</sub> : Correlation with Gas Sensor Performances. <i>Chemistry of Materials</i> , 2005, 17, 893-901.	6.7	162
168	Fe <sub>2</sub> O <sub>3</sub> :SnO <sub>2</sub> Nanostructured System as Semiconductor Gas Sensor Material. <i>Materials Research Society Symposia Proceedings</i> , 2004, 828, 215.	0.1	1
169	Inorganic structures as materials for gas sensors. <i>Russian Chemical Reviews</i> , 2004, 73, 939-956.	6.5	25
170	Unusual distribution of the constituents of an (Fe <sub>2</sub> O <sub>3</sub> ) <sub>0.8</sub> (SnO <sub>2</sub> ) <sub>0.2</sub> nanocomposite evidenced by <sup>57</sup> Fe and <sup>119</sup> Sn Mössbauer spectroscopy. <i>Mendeleev Communications</i> , 2004, 14, 140-141.	1.6	12
171	Crystallite size effect on the conductivity of the ultradisperse ceramics of SnO <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> . <i>Mendeleev Communications</i> , 2004, 14, 167-169.	1.6	14
172	Kinetics of Interaction of Thick Nanocrystalline SnO <sub>2</sub> Films with Oxygen. <i>Inorganic Materials</i> , 2004, 40, 161-165.	0.8	4
173	Mass Spectrometric Study of Nanocrystalline ZnO Vaporization. <i>Inorganic Materials</i> , 2003, 39, 594-598.	0.8	17
174	Dopants in nanocrystalline tin dioxide. <i>Russian Chemical Bulletin</i> , 2003, 52, 1217-1238.	1.5	68
175	Hydrothermal Synthesis of Nanocrystalline SnO <sub>2</sub> for Gas Sensors. <i>Inorganic Materials</i> , 2003, 39, 1158-1162.	0.8	16
176	Mechanism of sensing CO in nitrogen by nanocrystalline SnO <sub>2</sub> and SnO <sub>2</sub> (Pd) studied by Mössbauer spectroscopy and conductance measurements. <i>Journal of Materials Chemistry</i> , 2002, 12, 1174-1178.	6.7	49
177	Microstructure and electrophysical properties of SnO <sub>2</sub> , ZnO and In <sub>2</sub> O <sub>3</sub> nanocrystalline films prepared by reactive magnetron sputtering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 96, 268-274.	3.5	45
178	Sensor Properties of Pd-Doped SnO <sub>2</sub> Films Deposited by Laser Ablation. <i>Inorganic Materials</i> , 2002, 38, 374-379.	0.8	11
179	Effect of combined Pd and Cu doping on microstructure, electrical and gas sensor properties of nanocrystalline tin dioxide. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 85, 43-49.	3.5	56
180	Electrical Properties of Nanocrystalline n-SnO <sub>2</sub> to Single Crystal p-Si Interfaces under Gas Adsorption Conditions. <i>Physica Status Solidi A</i> , 2001, 188, 1093-1104.	1.7	4

#	ARTICLE	IF	CITATIONS
181	Nanocrystalline Metal Oxides as Promising Materials for Gas Sensors for Hydrogen Sulfide. Russian Journal of Applied Chemistry, 2001, 74, 434-439.	0.5	3
182	Nature of Gas Sensitivity in Nanocrystalline Metal Oxides. Russian Journal of Applied Chemistry, 2001, 74, 440-444.	0.5	47
183	Interface states and capacitance-voltage characteristics of n-SnO <sub>2</sub> :Ni/p-Si heterostructures under gas-adsorption conditions. Semiconductors, 2001, 35, 424-426.	0.5	1
184	Two successive effects in the interaction of nanocrystalline SnO <sub>2</sub> thin films with reducing gases. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 77, 159-166.	3.5	21
185	Memory effect and its switching by electric field in solid-state gas sensors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 77, 106-109.	3.5	7
186	Properties of diode heterostructures based on nanocrystalline n-SnO <sub>2</sub> on p-Si under the conditions of gas Adsorption. Semiconductors, 2000, 34, 955-959.	0.5	5
187	Materials for solid-state gas sensors. Inorganic Materials, 2000, 36, 293-301.	0.8	37
188	Role of Pt Aggregates in Pt/SnO <sub>2</sub> Thin Films Used as Gas Sensors Investigations of the Catalytic Effect. Journal of the Electrochemical Society, 2000, 147, 3131.	2.9	36
189	Effect of interdiffusion on electrical and gas sensor properties of CuO/SnO <sub>2</sub> heterostructure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 57, 241-246.	3.5	43
190	Conductivity of structures based on doped nanocrystalline SnO <sub>2</sub> films with gold contacts. Semiconductors, 1999, 33, 175-176.	0.5	5
191	Electric-field-controlled memory effect in heterostructures for gas sensors. Technical Physics Letters, 1999, 25, 471-474.	0.7	1
192	Study of the Reactivity of Nanocrystallites of SnO <sub>2</sub> With H <sub>2</sub> S by Coupled Electrical and Raman Measurements. , 1999, , 285-290.		1
193	Structural Characterization of Nanocrystalline SnO <sub>2</sub> by X-Ray and Raman Spectroscopy. Journal of Solid State Chemistry, 1998, 135, 78-85.	2.9	340
194	CuO/SnO <sub>2</sub> thin film heterostructures as chemical sensors to H <sub>2</sub> S. Sensors and Actuators B: Chemical, 1998, 50, 186-193.	7.8	117
195	Effect of doping metals on the kinetics of interaction of SnO <sub>2</sub> thin films with oxygen. Journal of Materials Chemistry, 1998, 8, 1577-1581.	6.7	4
196	Copper and nickel doping effect on interaction of SnO <sub>2</sub> films with H <sub>2</sub> S. Journal of Materials Chemistry, 1997, 7, 1785-1790.	6.7	40
197	Effect of microstructure on the stability of nanocrystalline tin dioxide ceramics. Journal of Materials Chemistry, 1997, 7, 2269-2272.	6.7	18
198	The electrical conductivity of polycrystalline SnO <sub>2</sub> (Cu) films and their sensitivity to hydrogen sulfide. Semiconductors, 1997, 31, 335-339.	0.5	14

#	ARTICLE	IF	CITATIONS
199	Influence of copper on sensor properties of tin dioxide films in H <sub>2</sub> S. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 41, 228-234.	3.5	37
200	Pyrosol spraying deposition of copper- and nickel-doped tin oxide films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 41, 333-338.	3.5	24
201	Copper diffusion in SnO <sub>2</sub> polycrystalline films. Journal of Materials Science Letters, 1994, 13, 1632-1634.	0.5	5
202	Influence of the boundary on the interdiffusion in heterostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 26, 147-149.	3.5	1
203	Analysis of CO and NH <sub>3</sub> Reductive Gases Mixture by Chemically Modified Nanocrystalline Tin Dioxide. Key Engineering Materials, 0, 605, 227-230.	0.4	3
204	ZnSe/NiO heterostructure-based chemiresistive-type sensors for low-concentration NO <sub>2</sub> detection. , O, .		1
205	Nanocrystalline Complex Oxides Zn <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> : Cobalt and Zinc Ions Impact on Large Growth of Conductivity. Journal of Physical Chemistry C, 0, , .	3.1	2