Tatiana L Simonenko

List of Publications by Year
in descending order

53	657	471061 17	642321 23
papers	citations	h-index	g-index

54	54	54	229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pen plotter printing of Co3O4 thin films: features of the microstructure, optical, electrophysical and gas-sensing properties. Journal of Alloys and Compounds, 2020, 832, 154957.	2.8	38
2	Synthesis of BaCe0.9xZrxY0.1O3 nanopowders and the study of proton conductors fabricated on their basis by low-temperature spark plasma sintering. International Journal of Hydrogen Energy, 2019, 44, 20345-20354.	3.8	37
3	Pen plotter printing of ITO thin film as a highly CO sensitive component of a resistive gas sensor. Talanta, 2021, 221, 121455.	2.9	37
4	Microstructural, electrophysical and gas-sensing properties of CeO2â€“Y2O3 thin films obtained by the sol-gel process. Ceramics International, 2020, 46, 121-131.	2.3	32
5	Microplotter-Printed On-Chip Combinatorial Library of Ink-Derived Multiple Metal Oxides as an â€œElectronic Olfactionâ€•Unit. ACS Applied Materials & Interfaces, 2020, 12, 56135-56150.	4.0	32
6	Spark plasma sintering of nanopowders in the CeO2-Y2O3 system as a promising approach to the creation of nanocrystalline intermediate-temperature solid electrolytes. Ceramics International, 2018, 44, 19879-19884.	2.3	28
7	Microplotter printing of planar solid electrolytes in the CeO2â€“Y2O3 system. Journal of Colloid and Interface Science, 2021, 588, 209-220.	5.0	28
8	Chemoresistive gas-sensing properties of highly dispersed Nb2O5 obtained by programmable precipitation. Journal of Alloys and Compounds, 2021, 868, 159090.	2.8	26
9	Microextrusion printing of gas-sensitive planar anisotropic NiO nanostructures and their surface modification in an H2S atmosphere. Applied Surface Science, 2022, 578, 151984.	3.1	23
10	Chemoresistive gas-sensitive ZnO/Pt nanocomposites films applied by microplotter printing with increased sensitivity to benzene and hydrogen. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115233.	1.7	22
11	Liquid-phase synthesis and physicochemical properties of xerogels, nanopowders and thin films of the CeO2â€“Y2O3 system. Russian Journal of Inorganic Chemistry, 2016, 61, 1061-1069.	0.3	20
12	Printing Technologies as an Emerging Approach in Gas Sensors: Survey of Literature. Sensors, 2022, 22, 3473.	2.1	20
13	Synthesis and physicochemical properties of a solid oxide nanocomposite based on a ZrO2â€“Y2O3â€“Gd2O3â€“MgO system. Glass Physics and Chemistry, 2016, 42, 505-511.	0.2	19
14	Study of the effect of methods for liquid-phase synthesis of nanopowders on the structure and physicochemical properties of ceramics in the CeO2â€“Y2O3 system. Russian Journal of Inorganic Chemistry, 2017, 62, 1275-1285.	0.3	18
15	Obtaining of NiO Nanosheets by a Combination of Solâ€“Gel Technology and Hydrothermal Treatment Using Nickel Acetylacetonate as a Precursor. Russian Journal of Inorganic Chemistry, 2019, 64, 1753-1757.	0.3	18
16	Platinum Based Nanoparticles Produced by a Pulsed Spark Discharge as a Promising Material for Gas Sensors. Applied Sciences (Switzerland), 2021, 11, 526.	1.3	18
17	Synthesis of One-Dimensional Nanostructures of CeO2â€“10% Y2O3 Oxide by Programmed Coprecipitation in the Presence of Polyvinyl Alcohol. Russian Journal of Inorganic Chemistry, 2019, 64, 1475-1481.	0.3	17
18	Synthesis and Physicochemical Properties of Nanopowders and Ceramics in a CeO2â€“Gd2O3 System. Glass Physics and Chemistry, 2018, 44, 314-321.	0.2	15

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19	Formation of Hierarchical NiO Coatings on the Surface of Al2O3 Substrates under Hydrothermal Conditions. Russian Journal of Inorganic Chemistry, 2020, 65, 1292-1297.	0.3	15
20	Gas-sensitive nanostructured ZnO films praseodymium and europium doped: Electrical conductivity, selectivity, influence of UV irradiation and humidity. Applied Surface Science, 2022, 589, 152974.	3.1	15
21	Formation of One-Dimensional Hierarchical MoO3 Nanostructures under Hydrothermal Conditions. Russian Journal of Inorganic Chemistry, 2020, 65, 459-465.	0.3	14
22	Oxidation of graphene-modified HfB2-SiC ceramics by supersonic dissociated air flow. Journal of the European Ceramic Society, 2022, 42, 30-42.	2.8	14
23	Sol-gel synthesis of SiC@Y3Al5O12 composite nanopowder and preparation of porous SiC-ceramics derived from it. Materials Chemistry and Physics, 2019, 235, 121734.	2.0	12
24	Pen Plotter Printing of MnOx Thin Films Using Manganese Alkoxoacetylacetonate. Russian Journal of Inorganic Chemistry, 2021, 66, 1416-1424.	0.3	12
25	Preparation of ZnS Nanopowders and Their Use in the Additive Production of Thick-Film Structures. Russian Journal of Inorganic Chemistry, 2021, 66, 1283-1288.	0.3	11
26	Synthesis and investigation of nanoceramics based on cobalt metaniobate. Glass Physics and Chemistry, 2014, 40, 578-583.	0.2	9
27	Water State in the Products of Hydrothermal Treatment of Hydrargillite and Î³-Al2O3. Russian Journal of Inorganic Chemistry, 2020, 65, 1384-1389.	0.3	9
28	Features of Hydrothermal Growth of Hierarchical Co3O4 Coatings on Al2O3 Substrates. Russian Journal of Inorganic Chemistry, 2020, 65, 1304-1311.	0.3	9
29	Quantum of selectivity testing: detection of isomers and close homologs using an AZO based e-nose without a prior training. Journal of Materials Chemistry A, 2022, 10, 8413-8423.	5.2	9
30	Hydrothermally synthesized hierarchical Ce1-xSmxO2-Î´ oxides for additive manufacturing of planar solid electrolytes. Ceramics International, 2022, 48, 22401-22410.	2.3	9
31	MÃ¶ssbauer spectroscopy, XRPD, and SEM study of ironâ€containing Na₂Oâ€B₂O₃â€SiO₂ glasses. Journal of the American Ceramic Society, 2021, 104, 3149-3157.	1.9	7
32	Chemical durability of the iron-containing sodium borosilicate glasses. Journal of Non-Crystalline Solids, 2022, 584, 121519.	1.5	7
33	Synthesis of Nanoscale WO3 by Chemical Precipitation Using Oxalic Acid. Russian Journal of Inorganic Chemistry, 2021, 66, 1811-1816.	0.3	6
34	The formation and study of sensor thin layers based on zirconium and rare earth metal (Ce, Y, and Tb) oxides and the preparation of metal-oxide-semiconductor structures based on them. Glass Physics and Chemistry, 2014, 40, 629-634.	0.2	5
35	Doping graphene with a monovacancy: bonding and magnetism. Journal of Physics: Conference Series, 2015, 661, 012028.	0.3	5
36	Effect of the Addition of Cerium Acetylacetonate on the Synthesis of ZnO Nanopowder. Russian Journal of Inorganic Chemistry, 2021, 66, 638-644.	0.3	5

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37	Synthesis and Gas-Sensitive Chemoresistive Properties of TiO2:Cu Nanocomposite. Russian Journal of Inorganic Chemistry, 2021, 66, 594-602.	0.3	4
38	Synthesis of Ba0.5Sr0.5Co0.8Fe0.2O3 â€“ Î´ Oxide Promising as a Cathode Material of Modern Solid-Oxide Fuel Cells. Russian Journal of Inorganic Chemistry, 2021, 66, 662-666.	0.3	4
39	Hydrothermal Synthesis of Ag Thin Films and Their SERS Application. Nanomaterials, 2022, 12, 136.	1.9	4
40	Formation of NiMoO4 Anisotropic Nanostructures under Hydrothermal Conditions. Russian Journal of Inorganic Chemistry, 2021, 66, 1779-1784.	0.3	4
41	Synthesis and Chemoresistive Gas-Sensing Properties of Highly Dispersed Titanium-Doped Nb2O5. Russian Journal of Inorganic Chemistry, 2021, 66, 1425-1433.	0.3	3
42	A study of â€œThe Portrait of F.P. Makerovsky in a Masquerade Costumeâ€•by Dmitry Levitsky from the collection of the State Tretyakov Gallery. Heritage Science, 2020, 8, .	1.0	3
43	Hydrothermal Synthesis of Hierarchical CoMoO4 Nanostructures. Russian Journal of Inorganic Chemistry, 2021, 66, 1633-1638.	0.3	3
44	The dual role of SiO2 as a pore former and sintering aid in the preparation of the porous ceramic in ZrO2-In2O3 system. Glass Physics and Chemistry, 2015, 41, 431-436.	0.2	2
45	Obtaining of La0.6Sr0.4Co0.2Fe0.8O3 â€“ Î´ Nanopowder Using the Glycolâ€“Citrate Method. Russian Journal of Inorganic Chemistry, 2021, 66, 477-481.	0.3	2
46	Search of high-capacity cathode materials based on lithiumâ€“iron silicate compounds. Glass Physics and Chemistry, 2016, 42, 576-581.	0.2	1
47	Composite materials based on oxides of d and f elements and carbon layers. Inorganic Materials: Applied Research, 2017, 8, 254-259.	0.1	1
48	Microemulsion Synthesis of SnO2 Spheres Using Tin Acetylacetonate as a Precursor. Russian Journal of Inorganic Chemistry, 2019, 64, 1758-1761.	0.3	1
49	PZT 50/50 nanocrystalline powders with tetragonal structure prepared via gel combustion route: Effect of heat treatment on phase and chemical compositions. Ceramics International, 2021, 47, 16232-16239.	2.3	1
50	Proton-Conducting Ceramics Based on Barium Hafnate and Cerate Doped with Zirconium, Yttrium, and Ytterbium Oxides for Fuel Cell Electrolytes. Inorganic Materials: Applied Research, 2021, 12, 1265-1270.	0.1	1
51	Physicochemical Properties of Glasses of the Na2Oâ€“B2O3â€“SiO2â€“Fe2O3 System with a Varying SiO2 Content. Glass Physics and Chemistry, 2021, 47, 703-708.	0.2	1
52	Formation of NiCo2O4 Thin Films by Solâ€“Gel Technology and Pen Plotter Printing. Russian Journal of Inorganic Chemistry, 2021, 66, 2045-2052.	0.3	1
53	Computational Identification of a New Form of Li₂MnSiO₄ for Battery Applications. Solid State Phenomena, 2017, 263, 160-164.	0.3	0