

Tatiana B Shatalova

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

584
citations

686830

13
h-index

713013

21
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61
all docs

61
docs citations

61
times ranked

644
citing authors

#	ARTICLE	IF	CITATIONS
1	XPS study of fresh and oxidized GeTe and (Ge,Sn)Te surface. <i>Solid State Ionics</i> , 2001, 141-142, 513-522.	1.3	73
2	XPS study of SnTe(100) oxidation by molecular oxygen. <i>Surface Science</i> , 2005, 584, 77-82.	0.8	36
3	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.	1.5	35
4	Phase equilibria in the tricalcium phosphate-mixed calcium sodium (potassium) phosphate systems. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 1219-1227.	0.3	31
5	Biocompatibility of biphasic β -tricalcium phosphate ceramics in vitro. <i>Bioactive Materials</i> , 2020, 5, 423-427.	8.6	30
6	Amorphous calcium phosphate powder synthesized from calcium acetate and polyphosphoric acid for bioceramics application. <i>Ceramics International</i> , 2017, 43, 1310-1317.	2.3	25
7	Nanocomposites SnO ₂ /SiO ₂ for CO Gas Sensors: Microstructure and Reactivity in the Interaction with the Gas Phase. <i>Materials</i> , 2019, 12, 1096.	1.3	22
8	Properties of amorphous calcium pyrophosphate powder synthesized via ion exchange for the preparation of bioceramics. <i>Inorganic Materials</i> , 2015, 51, 1177-1184.	0.2	20
9	Size Effects in Nanocrystalline Thoria. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23167-23176.	1.5	19
10	Synthesis of carbon nanotubes by high current divergent anode-channel plasma torch. <i>Journal of Physics: Conference Series</i> , 2014, 550, 012023.	0.3	16
11	Synthesis of Monetite from Calcium Hydroxyapatite and Monocalcium Phosphate Monohydrate under Mechanical Activation Conditions. <i>Russian Journal of Inorganic Chemistry</i> , 2019, 64, 1088-1094.	0.3	16
12	Powders Mixtures Based on Ammonium Pyrophosphate and Calcium Carbonate for Preparation of Biocompatible Porous Ceramic in the CaO-P ₂ O ₅ System. <i>Refractories and Industrial Ceramics</i> , 2016, 56, 502-509.	0.2	15
13	Chemical and electrochemical processes in low-temperature superionic hydrogen sulfide sensors. <i>Russian Journal of Electrochemistry</i> , 2007, 43, 552-560.	0.3	14
14	Calcium pyrophosphate powder for production of bioceramics synthesized from pyrophosphoric acid and calcium acetate. <i>Inorganic Materials: Applied Research</i> , 2017, 8, 118-125.	0.1	14
15	A new orthorhombic boron phase B _{51.5} obtained by dehydrogenation of α -tetragonal boron. <i>Journal of Materials Research</i> , 2016, 31, 2773-2779.	1.2	13
16	Formation Efficiency of Porous Oxide Films in Aluminum Anodizing. <i>Russian Journal of Electrochemistry</i> , 2018, 54, 990-998.	0.3	13
17	Coarse-grain alpha-alumina films with highly ordered porous structure. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109840.	2.2	13
18	Ceramics Based on Brushite Powder Synthesized from Calcium Nitrate and Disodium and Dipotassium Hydrogen Phosphates. <i>Inorganic Materials</i> , 2018, 54, 195-207.	0.2	11

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19	Organic-Inorganic Hybrid Materials for Room Temperature Light-Activated Sub-ppm NO Detection. <i>Nanomaterials</i> , 2020, 10, 70.	1.9	11
20	XPS study of fresh and oxidized (Pb,Ge)Te surfaces. <i>Surface and Interface Analysis</i> , 2002, 34, 498-501.	0.8	9
21	Crystallization Pathways of Cerium(IV) Phosphates Under Hydrothermal Conditions: A Search for New Phases with a Tunnel Structure. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3242-3248.	1.0	9
22	Ca ₂ P ₂ O ₇ •Ca(PO ₃) ₂ Ceramic Obtained by Firing β -Tricalcium Phosphate and Monocalcium Phosphate Monohydrate Based Cement Stone. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2020, 77, 165-172.	0.2	9
23	Ceramics in the Ca ₂ P ₂ O ₇ •Ca(PO ₃) ₂ System Obtained by Annealing of the Samples Made from Hardening Mixtures Based on Calcium Citrate Tetrahydrate and Monocalcium Phosphate Monohydrate. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 777-786.	0.1	9
24	Calcium Phosphate Ceramic Based on Powder Synthesized From a Mixed-Anionic Solution. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2016, 73, 25-31.	0.2	8
25	Nanocomposites SnO ₂ /SiO ₂ :SiO ₂ Impact on the Active Centers and Conductivity Mechanism. <i>Materials</i> , 2019, 12, 3618.	1.3	8
26	Ceramics based on calcium phosphate powder synthesized from calcium saccharate and ammonium hydrophosphate. <i>Inorganic Materials: Applied Research</i> , 2016, 7, 635-640.	0.1	7
27	Calcium Phosphate Powder Synthesized from Calcium Acetate and Ammonium Hydrophosphate for Bioceramics Application. <i>Ceramics</i> , 2018, 1, 375-392.	1.0	7
28	Meet the Cerium(IV) Phosphate Sisters: Ce IV (OH)PO ₄ and Ce IV ₂ O(PO ₄) ₂ . <i>Chemistry - A European Journal</i> , 2020, 26, 12188-12193.	1.7	7
29	Thermally stable, electrically conductive diamond material prepared by high-pressure, high-temperature processing of a graphite + boron carbide mixture. <i>Inorganic Materials</i> , 2015, 51, 225-229.	0.2	6
30	Synthesis of calcium phosphate powder from calcium lactate and ammonium hydrogen phosphate for the fabrication of bioceramics. <i>Inorganic Materials</i> , 2017, 53, 859-868.	0.2	6
31	Ceramics Based on Powder Mixtures Containing Calcium Hydrogen Phosphates and Sodium Salts (Na ₂ CO ₃ , Na ₄ P ₂ O ₇ , and NaPO ₃). <i>Inorganic Materials</i> , 2018, 54, 724-735.	0.2	6
32	Bioceramics Based on β -Calcium Pyrophosphate. <i>Materials</i> , 2022, 15, 3105.	1.3	6
33	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.	0.1	5
34	Ceramics Based on a Powder Mixture of Calcium Hydroxyapatite, Monocalcium Phosphate Monohydrate, and Sodium Hydrogen Phosphate Homogenized under Mechanical Activation Conditions. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 879-885.	0.1	5
35	Synthesis of double ammonium•calcium pyrophosphate monohydrate Ca(NH ₄) ₂ P ₂ O ₇ •H ₂ O as the p recursor of biocompatible phases of calcium phosphate ceramics. <i>Russian Chemical Bulletin</i> , 2020, 69, 139-147.	0.4	5
36	Investigation of the KLa(SO ₄) ₂ •H ₂ O•SrSO ₄ •0.5H ₂ O System. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 405-411.	0.3	5

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37	Fixation of atmospheric nitrogen by nanodiamonds. <i>New Journal of Chemistry</i> , 2018, 42, 11160-11164.	1.4	4
38	Synthesis of Hydrogenated Graphene during Acetylene Conversion in Helium Plasma Jet. <i>High Energy Chemistry</i> , 2018, 52, 343-347.	0.2	4
39	Nanofibers of Semiconductor Oxides as Sensitive Materials for Detection of Gaseous Products Formed in Low-Temperature Pyrolysis of Polyvinyl Chloride. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 447-453.	0.1	4
40	Modified carbon nanotubes for water-based cathode slurries for lithium-sulfur batteries. <i>Journal of Materials Research</i> , 2019, 34, 634-641.	1.2	4
41	Calcium Phosphate Powder for Obtaining of Composite Bioceramics. <i>Inorganic Materials: Applied Research</i> , 2021, 12, 34-39.	0.1	4
42	The effect of reactor geometry on the synthesis of graphene materials in plasma jets. <i>Journal of Physics: Conference Series</i> , 2017, 857, 012040.	0.3	3
43	Continuous Synthesis of Hydrogenated Graphene in Thermal Plasma. <i>Journal of Structural Chemistry</i> , 2018, 59, 773-779.	0.3	3
44	Synthesis of the Nanoscale Calcium Hydroxyapatite from Calcium Malate and Ammonium Hydrophosphate. <i>Inorganic Materials: Applied Research</i> , 2019, 10, 841-845.	0.1	2
45	Thermal Transformations in Hardening Compositions Based on Hydroxyapatite, Monocalcium Phosphate Monohydrate, and Polymeric Binders. <i>Glass and Ceramics (English Translation of Steklo i Keramika)</i> , 2021, 78, 1314-1317.	0.78	1
46	Properties of Calcium Phosphate Powder Synthesized from Calcium Chloride and Potassium Pyrophosphate. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 44-49.	0.1	2
47	Powder Mixture for the Production of Microporous Ceramics Based on Hydroxyapatite. <i>Ceramics</i> , 2022, 5, 108-119.	1.0	2
48	Oxidation studies of UM3 (M = Ru, Rh, Pd) intermetallides. <i>Journal of Nuclear Materials</i> , 2022, 568, 153885.	1.3	2
49	Chemical deposition of PbS on NASICON from aqueous solutions. <i>Inorganic Materials</i> , 2009, 45, 1081-1086.	0.2	1
50	Electrochemical behavior of the graphene materials synthesized using low temperature plasma. <i>Journal of Physics: Conference Series</i> , 2017, 789, 012052.	0.3	1
51	Synthesis of Carbon Fibers in the Decomposition of Acetylene and Propane-Butane Mixture in a Plasma Jet. <i>Technical Physics Letters</i> , 2018, 44, 1017-1019.	0.2	1
52	Chemical Transformations as a Tool for Controlling the Properties of Calcium Carbonate Powder. <i>Glass and Ceramics (English Translation of Steklo i Keramika)</i> , 2020, 77, 145-148.	0.2	1
53	Growth of polycrystalline GeTe films on Pb _{1-x} Sn _x Te (x = 0, 0.05 or 0.2) and BaF ₂ substrates. <i>Mendelev Communications</i> , 2004, 14, 136-137.	0.6	0
54	Electrochemical growth of ZnO photonic crystals. <i>International Journal of Nanotechnology</i> , 2019, 16, 389.	0.1	0

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55	Fine Biocompatible Powders Synthesized from Calcium Lactate and Ammonium Sulfate. <i>Ceramics</i> , 2021, 4, 391-396.	1.0	0
56	Properties of calcium phosphate powder synthesized from calcium chloride and potassium pyrophosphate. <i>Materialovedenie</i> , 2019, , 37-42.	0.0	0
57	Ceramics based on powder mixture of calcium hydroxyapatite, monocalcium phosphate monohydrate and sodium hydrogen phosphate homogenized under conditions of mechanical activation. <i>Materialovedenie</i> , 2019, , 43-48.	0.0	0
58	Calcium-phosphate powder for production of composite ceramics. <i>Materialovedenie</i> , 2020, , 39-44.	0.0	0
59	The Discovery of Few-Layered Graphene Flakes in Paragenetic Association with Other Carbon Nano-sized Mineral Phases. <i>Doklady Earth Sciences</i> , 2020, 495, 827-830.	0.2	0
60	Calcium pyrophosphate powder synthesized from phosphoric acid and calcium carbonate. <i>Materialovedenie</i> , 2020, , 42-48.	0.0	0