

# Tatiana B Shatalova

## List of Publications by Year in descending order

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60  
papers

584  
citations

687363

13  
h-index

713466

21  
g-index

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. Solid State Ionics, 2001, 141-142, 513-522.	2.7	73
2	XPS study of SnTe(100) oxidation by molecular oxygen. Surface Science, 2005, 584, 77-82.	1.9	36
3	Active Sites on Nanocrystalline Tin Dioxide Surface: Effect of Palladium and Ruthenium Oxides Clusters. Journal of Physical Chemistry C, 2014, 118, 21541-21549.	3.1	35
4	Phase equilibria in the tricalcium phosphate-mixed calcium sodium (potassium) phosphate systems. Russian Journal of Inorganic Chemistry, 2014, 59, 1219-1227.	1.3	31
5	Biocompatibility of biphasic $\beta$ -tricalcium phosphate ceramics in vitro. Bioactive Materials, 2020, 5, 423-427.	15.6	30
6	Amorphous calcium phosphate powder synthesized from calcium acetate and polyphosphoric acid for bioceramics application. Ceramics International, 2017, 43, 1310-1317.	4.8	25
7	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
8	Properties of amorphous calcium pyrophosphate powder synthesized via ion exchange for the preparation of bioceramics. Inorganic Materials, 2015, 51, 1177-1184.	0.8	20
9	Size Effects in Nanocrystalline Thoria. Journal of Physical Chemistry C, 2019, 123, 23167-23176.	3.1	19
10	Synthesis of carbon nanotubes by high current divergent anode-channel plasma torch. Journal of Physics: Conference Series, 2014, 550, 012023.	0.4	16
11	Synthesis of Monetite from Calcium Hydroxyapatite and Monocalcium Phosphate Monohydrate under Mechanical Activation Conditions. Russian Journal of Inorganic Chemistry, 2019, 64, 1088-1094.	1.3	16
12	Powders Mixtures Based on Ammonium Pyrophosphate and Calcium Carbonate for Preparation of Biocompatible Porous Ceramic in the CaO-P <sub>2</sub> O <sub>5</sub> System. Refractories and Industrial Ceramics, 2016, 56, 502-509.	0.6	15
13	Chemical and electrochemical processes in low-temperature superionic hydrogen sulfide sensors. Russian Journal of Electrochemistry, 2007, 43, 552-560.	0.9	14
14	Calcium pyrophosphate powder for production of bioceramics synthesized from pyrophosphoric acid and calcium acetate. Inorganic Materials: Applied Research, 2017, 8, 118-125.	0.5	14
15	A new orthorhombic boron phase B <sub>51.5</sub> obtained by dehydrogenation of $\alpha$ -tetragonal boron. Journal of Materials Research, 2016, 31, 2773-2779.	2.6	13
16	Formation Efficiency of Porous Oxide Films in Aluminum Anodizing. Russian Journal of Electrochemistry, 2018, 54, 990-998.	0.9	13
17	Coarse-grain alpha-alumina films with highly ordered porous structure. Microporous and Mesoporous Materials, 2020, 294, 109840.	4.4	13
18	Ceramics Based on Brushite Powder Synthesized from Calcium Nitrate and Disodium and Dipotassium Hydrogen Phosphates. Inorganic Materials, 2018, 54, 195-207.	0.8	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.	4.1	11
20	XPS study of fresh and oxidized (Pb,Ge)Te surfaces. <i>Surface and Interface Analysis</i> , 2002, 34, 498-501.	1.8	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.	2.0	9
22	Ca <sub>2</sub> P <sub>2</sub> O <sub>7</sub> •Ca(PO <sub>3</sub> ) <sub>2</sub> Ceramic Obtained by Firing $\beta$ -Tricalcium Phosphate and Monocalcium Phosphate Monohydrate Based Cement Stone. <i>Glass and Ceramics (English Translation of Steklo i Keramika)</i> , 2020, 77, 165-172.	0.6	9
23	Ceramics in the Ca <sub>2</sub> P <sub>2</sub> O <sub>7</sub> •Ca(PO <sub>3</sub> ) <sub>2</sub> 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.	0.5	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.	0.6	8
25	Nanocomposites SnO <sub>2</sub> /SiO <sub>2</sub> :SiO <sub>2</sub> Impact on the Active Centers and Conductivity Mechanism. <i>Materials</i> , 2019, 12, 3618.	2.9	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.	0.5	7
27	Calcium Phosphate Powder Synthesized from Calcium Acetate and Ammonium Hydrophosphate for Bioceramics Application. <i>Ceramics</i> , 2018, 1, 375-392.	2.6	7
28	Meet the Cerium(IV) Phosphate Sisters: Ce IV (OH)PO <sub>4</sub> and Ce IV <sub>2</sub> O(PO <sub>4</sub> ) <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2020, 26, 12188-12193.	3.3	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.	0.8	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.	0.8	6
31	Ceramics Based on Powder Mixtures Containing Calcium Hydrogen Phosphates and Sodium Salts (Na <sub>2</sub> CO <sub>3</sub> , Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> , and NaPO <sub>3</sub> ). <i>Inorganic Materials</i> , 2018, 54, 724-735.	0.8	6
32	Bioceramics Based on $\beta$ -Calcium Pyrophosphate. <i>Materials</i> , 2022, 15, 3105.	2.9	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.	0.5	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.	0.5	5
35	Synthesis of double ammonium•calcium pyrophosphate monohydrate Ca(NH <sub>4</sub> ) <sub>2</sub> P <sub>2</sub> O <sub>7</sub> •H <sub>2</sub> O as the precursor of biocompatible phases of calcium phosphate ceramics. <i>Russian Chemical Bulletin</i> , 2020, 69, 139-147.	1.5	5
36	Investigation of the KLa(SO <sub>4</sub> ) <sub>2</sub> •H <sub>2</sub> O•SrSO <sub>4</sub> •0.5H <sub>2</sub> O System. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 405-411.	1.3	5

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37	Fixation of atmospheric nitrogen by nanodiamonds. New Journal of Chemistry, 2018, 42, 11160-11164.	2.8	4
38	Synthesis of Hydrogenated Graphene during Acetylene Conversion in Helium Plasma Jet. High Energy Chemistry, 2018, 52, 343-347.	0.9	4
39	Nanofibers of Semiconductor Oxides as Sensitive Materials for Detection of Gaseous Products Formed in Low-Temperature Pyrolysis of Polyvinyl Chloride. Russian Journal of Applied Chemistry, 2018, 91, 447-453.	0.5	4
40	Modified carbon nanotubes for water-based cathode slurries for lithium-sulfur batteries. Journal of Materials Research, 2019, 34, 634-641.	2.6	4
41	Calcium Phosphate Powder for Obtaining of Composite Bioceramics. Inorganic Materials: Applied Research, 2021, 12, 34-39.	0.5	4
42	The effect of reactor geometry on the synthesis of graphene materials in plasma jets. Journal of Physics: Conference Series, 2017, 857, 012040.	0.4	3
43	Continuous Synthesis of Hydrogenated Graphene in Thermal Plasma. Journal of Structural Chemistry, 2018, 59, 773-779.	1.0	3
44	Synthesis of the Nanoscale Calcium Hydroxyapatite from Calcium Malate and Ammonium Hydrophosphate. Inorganic Materials: Applied Research, 2019, 10, 841-845.	0.5	2
45	Thermal Transformations in Hardening Compositions Based on Hydroxyapatite, Monocalcium Phosphate Monohydrate, and Polymeric Binders. Glass and Ceramics (English Translation of Steklo i Keramika) 2021, 78, 14-19.	0.7	2
46	Properties of Calcium Phosphate Powder Synthesized from Calcium Chloride and Potassium Pyrophosphate. Inorganic Materials: Applied Research, 2020, 11, 44-49.	0.5	2
47	Powder Mixture for the Production of Microporous Ceramics Based on Hydroxyapatite. Ceramics, 2022, 5, 108-119.	2.6	2
48	Oxidation studies of UM3 (M=Ru, Rh, Pd) intermetallides. Journal of Nuclear Materials, 2022, 568, 153885.	2.7	2
49	Chemical deposition of PbS on NASICON from aqueous solutions. Inorganic Materials, 2009, 45, 1081-1086.	0.8	1
50	Electrochemical behavior of the graphene materials synthesized using low temperature plasma. Journal of Physics: Conference Series, 2017, 789, 012052.	0.4	1
51	Synthesis of Carbon Fibers in the Decomposition of Acetylene and Propane-Butane Mixture in a Plasma Jet. Technical Physics Letters, 2018, 44, 1017-1019.	0.7	1
52	Chemical Transformations as a Tool for Controlling the Properties of Calcium Carbonate Powder. Glass and Ceramics (English Translation of Steklo i Keramika), 2020, 77, 145-148.	0.6	1
53	Growth of polycrystalline GeTe films on PbTe and SnTe (x = 0, 0.05 or 0.2) and BaF2 substrates. Mendelev Communications, 2004, 14, 136-137.	1.6	0
54	Electrochemical growth of ZnO photonic crystals. International Journal of Nanotechnology, 2019, 16, 389.	0.2	0

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55	Fine Biocompatible Powders Synthesized from Calcium Lactate and Ammonium Sulfate. <i>Ceramics</i> , 2021, 4, 391-396.	2.6	0
56	Properties of calcium phosphate powder synthesized from calcium chloride and potassium pyrophosphate. <i>Materialovedenie</i> , 2019, , 37-42.	0.1	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.	0.1	0
58	Calcium-phosphate powder for production of composite ceramics. <i>Materialovedenie</i> , 2020, , 39-44.	0.1	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.	0.7	0
60	Calcium pyrophosphate powder synthesized from phosphoric acid and calcium carbonate. <i>Materialovedenie</i> , 2020, , 42-48.	0.1	0