Vera V Butova

List of Publications by Year in descending order

61 papers	1,095 citations	566801 15 h-index	433756 31 g-index
63 all docs	63 docs citations	63 times ranked	1193 citing authors

#	Article	IF	Citations
1	Metal-organic frameworks: structure, properties, methods of synthesis and characterization. Russian Chemical Reviews, 2016, 85, 280-307.	2.5	300
2	Hydrothermal synthesis of high surface area ZIF-8 with minimal use of TEA. Solid State Sciences, 2017, 69, 13-21.	1.5	68
3	Modulator Effect in UiO-66-NDC (1,4-Naphthalenedicarboxylic Acid) Synthesis and Comparison with UiO-67-NDC Isoreticular Metalâ€“Organic Frameworks. Crystal Growth and Design, 2017, 17, 5422-5431.	1.4	55
4	Zn/Co ZIF family: MW synthesis, characterization and stability upon halogen sorption. Polyhedron, 2018, 154, 457-464.	1.0	44
5	Partial and Complete Substitution of the 1,4-Benzenedicarboxylate Linker in UiO-66 with 1,4-Naphthalenedicarboxylate: Synthesis, Characterization, and H₂-Adsorption Properties. Inorganic Chemistry, 2019, 58, 1607-1620.	1.9	42
6	Water as a structure-driving agent between the UiO-66 and MIL-140A metalâ€“organic frameworks. Chemical Communications, 2019, 55, 901-904.	2.2	38
7	New microwave-assisted synthesis of ZIF-8. Mendeleev Communications, 2016, 26, 43-44.	0.6	33
8	New fast synthesis of MOF-801 for water and hydrogen storage: Modulator effect and recycling options. Inorganica Chimica Acta, 2021, 514, 120025.	1.2	33
9	UiO-66 type MOFs with mixed-linkers - 1,4-Benzenedicarboxylate and 1,4-naphthalenedicarboxylate: Effect of the modulator and post-synthetic exchange. Microporous and Mesoporous Materials, 2020, 305, 110324.	2.2	33
10	Self-Driving Laboratories for Development of New Functional Materials and Optimizing Known Reactions. Nanomaterials, 2021, 11, 619.	1.9	28
11	Doxorubicin-Loaded Coreâ€“Shell UiO-66@SiO2 Metalâ€“Organic Frameworks for Targeted Cellular Uptake and Cancer Treatment. Pharmaceutics, 2022, 14, 1325.	2.0	26
12	The effect of cobalt content in Zn/Co-ZIF-8 on iodine capping properties. Inorganica Chimica Acta, 2019, 492, 18-22.	1.2	25
13	Microwave synthesis and phase transition in UiO-66/MIL-140A system. Microporous and Mesoporous Materials, 2020, 296, 109998.	2.2	20
14	Ultra-Small Pd Nanoparticles on Ceria as an Advanced Catalyst for CO Oxidation. Catalysts, 2019, 9, 385.	1.6	19
15	Loading of the Model Amino Acid Leucine in UiO-66 and UiO-66-NH₂: Optimization of Metalâ€“Organic Framework Carriers and Evaluation of Hostâ€“Guest Interactions. Inorganic Chemistry, 2021, 60, 5694-5703.	1.9	18
16	Pd nanoparticle growth monitored by DRIFT spectroscopy of adsorbed CO. Analyst, The, 2020, 145, 7534-7540.	1.7	17
17	Modification of ZIF-8 with triethylamine molecules for enhanced iodine and bromine adsorption. Inorganica Chimica Acta, 2020, 509, 119678.	1.2	17
18	Cobalt nanoparticles embedded in porous N-doped carbon support as a superior catalyst for the p-nitrophenol reduction. Applied Surface Science, 2022, 592, 153292.	3.1	17

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19	The joint effect of naphthalene-system and defects on dye removal by UiO-66 derivatives. Microporous and Mesoporous Materials, 2021, 325, 111314.	2.2	16
20	MW synthesis of ZIF-65 with a hierarchical porous structure. Microporous and Mesoporous Materials, 2020, 293, 109685.	2.2	15
21	Structure and magnetic properties of pure and samarium doped magnetite nanoparticles. Journal of Structural Chemistry, 2016, 57, 1459-1468.	0.3	14
22	Photoswitchable Zirconium MOF for Light-Driven Hydrogen Storage. Polymers, 2021, 13, 4052.	2.0	14
23	A room-temperature growth of gold nanoparticles on MOF-199 and its transformation into the [Cu2(OH)(BTC)(H2O)] phase. Polyhedron, 2018, 154, 357-363.	1.0	13
24	Zirconium-Based Metal-Organic UiO-66, UiO-66-NDC and MOF-801 Frameworks. Influence of the Linker Effect on the Hydrogen Sorption Efficiency. Journal of Surface Investigation, 2019, 13, 787-792.	0.1	13
25	Preferences of the end members of the lanthanide series for A and B sites in BiFeO3. Ceramics International, 2020, 46, 6333-6341.	2.3	12
26	One-pot coating of LiCoPO₄/C by a UiO-66 metalâ€“organic framework. RSC Advances, 2020, 10, 35206-35213.	1.7	12
27	MW Synthesis of ZIF-7. The Effect of Solvent on Particle Size and Hydrogen Sorption Properties. Energies, 2020, 13, 6306.	1.6	12
28	Iron (II) fluoride cathode material derived from MIL-88A. Journal of Alloys and Compounds, 2022, 916, 165438.	2.8	10
29	á¶«-Leucine Loading and Release in MIL-100 Nanoparticles. International Journal of Molecular Sciences, 2020, 21, 9758.	1.8	9
30	New P2 Compound with Brucite-Like Layers: Potassium Lithiostannate. Inorganic Chemistry, 2012, 51, 4931-4937.	1.9	8
31	Atomic and electronic structure of CdS-based quantum dots. Journal of Structural Chemistry, 2015, 56, 517-522.	0.3	8
32	XAFS investigation of Co/Zn based ZIFs after I2, Cl2 and Br2 adsorption. Radiation Physics and Chemistry, 2020, 175, 108152.	1.4	8
33	The Rare-Earth Elements Doping of BaGdF5 Nanophosphors for X-ray Photodynamic Therapy. Nanomaterials, 2021, 11, 3212.	1.9	8
34	Rational Functionalization of UiO-66 with Pd Nanoparticles: Synthesis and In Situ Fourier-Transform Infrared Monitoring. Inorganic Chemistry, 2022, 61, 3875-3885.	1.9	8
35	Synthesis of ZnO Nanoparticles Doped with Cobalt Using Bimetallic ZIFs as Sacrificial Agents. Nanomaterials, 2020, 10, 1275.	1.9	7
36	Laboratory Operando XAS Study of Sodium Iron Titanite Cathode in the Li-Ion Half-Cell. Nanomaterials, 2021, 11, 156.	1.9	7

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37	New orthorhombic sodium iron(+2) titanate. Ceramics International, 2020, 46, 4416-4422.	2.3	6
38	BaGdF5 Nanophosphors Doped with Different Concentrations of Eu3+ for Application in X-ray Photodynamic Therapy. International Journal of Molecular Sciences, 2021, 22, 13040.	1.8	6
39	Facile synthesis of ZnNC derived from a ZIF-8 metal-organic framework by the microwave-assisted solvothermal technique as an anode material for lithium-ion batteries. New Journal of Chemistry, 2022, 46, 9138-9145.	1.4	6
40	The Effect of Hydrothermal Synthesis Parameters on the Formation of Sodium Bismuth Titanate. Comments on Inorganic Chemistry, 2020, 40, 314-326.	3.0	5
41	Formation of Local Defects and Mesopores in a Structure of UiO-66-NDC Metal-Organic Framework. Journal of Surface Investigation, 2020, 14, 318-323.	0.1	4
42	Microbial-based magnetic nanoparticles production: a mini-review. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.6	4
43	Rapid microwave synthesis of CdS quantum dots stabilized with 4,4 â€™ -bipyridine and dioctyl sodium sulfosuccinate. Mendeleev Communications, 2017, 27, 313-314.	0.6	4
44	Correlation between Theoretical and Experimental Specific Surface Area Estimation for PANI and PANI (Zr) Composite. Modern Applied Science, 2015, 9, 133.	0.4	3
45	Analysis of the local atomic structure of quantum dots of the CdS family. Journal of Structural Chemistry, 2016, 57, 1422-1428.	0.3	3
46	Synthesis and structure modeling of ZnS based quantum dots. Journal of Structural Chemistry, 2016, 57, 926-933.	0.3	3
47	Ion exchange conversion of solid electrolyte, potassium sodiostannate, into isomorphous metastable sodium stannate. Mendeleev Communications, 2016, 26, 246-247.	0.6	3
48	Local atomic and electronic structure of quantum dots based on Mn- and Co-doped ZnS. Journal of Structural Chemistry, 2017, 58, 45-52.	0.3	3
49	Characterization of local atomic structure in Co/Zn based ZIFs by XAFS. Journal of Physics: Conference Series, 2018, 987, 012031.	0.3	3
50	On the Possibility of Synthesizing Bimno₃ at Ambient Pressure Using Low-Temperature Methods. Comments on Inorganic Chemistry, 2019, 39, 270-286.	3.0	3
51	Laboratory X-ray Microscopy Study of Microcrack Evolution in a Novel Sodium Iron Titanate-Based Cathode Material for Li-Ion Batteries. Crystals, 2022, 12, 3.	1.0	3
52	Synthesis and structure of a new layered potassium sodiostannate. Mendeleev Communications, 2015, 25, 302-303.	0.6	2
53	Immobilization of UiO-67 with photochromic spiropyrans: a quantum chemical study. Journal of Molecular Modeling, 2020, 26, 212.	0.8	2
54	The effect of heterovalent doping on the stability and properties of multiferroic Aurivillius phases. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	2

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55	Microwave Assisted Synthesis and Oxidation Resistance of Sm3+ Doped Fe3O4 Nanoparticles. Nanotechnologies in Russia, 2018, 13, 109-115.	0.7	1
56	Synthesis of Zinc Oxide Nanoparticles Coated with Silicon Oxide. Doklady Chemistry, 2020, 492, 69-72.	0.2	1
57	In Situ Time-Resolved Decomposition of Î²-Hydride Phase in Palladium Nanoparticles Coated with Metal-Organic Framework. Metals, 2020, 10, 810.	1.0	1
58	Development of the Technology for Processing Plant Breeding By-Products to Obtain Biosorbent. E3S Web of Conferences, 2020, 169, 02011.	0.2	0
59	Synthesis of the Metal-Organic Framework UiO-66 in the Form of Nanoparticles with a Modified Surface. Journal of Surface Investigation, 2021, 15, 920-926.	0.1	0
60	Thermal pyrolysis and kinetic analysis of a ZnxCo1âˆ’x ZiF-8 metalâ€“organic framework for recent applications. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 831.	1.9	0
61	Improvement of the EC Performance in LCP-MOF Electrode Materials by Succinic Anhydrate Addition to the Electrolyte. Sustainability, 2022, 14, 323.	1.6	0