

Alena M Sheveleva

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,156
citations

394421

19
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible adsorption of nitrogen dioxide within a robust porous metal-organic framework. <i>Nature Materials</i> , 2018, 17, 691-696.	27.5	162
2	Capture of nitrogen dioxide and conversion to nitric acid in a porous metal-organic framework. <i>Nature Chemistry</i> , 2019, 11, 1085-1090.	13.6	116
3	Direct photo-oxidation of methane to methanol over a mono-iron hydroxyl site. <i>Nature Materials</i> , 2022, 21, 932-938.	27.5	77
4	Iodine Adsorption in a Redox-Active Metal-Organic Framework: Electrical Conductivity Induced by Host-Guest Charge-Transfer. <i>Inorganic Chemistry</i> , 2019, 58, 14145-14150.	4.0	74
5	Quantitative production of butenes from biomass-derived γ -valerolactone catalysed by hetero-atomic MFI zeolite. <i>Nature Materials</i> , 2020, 19, 86-93.	27.5	74
6	High Ammonia Adsorption in MFM-300 Materials: Dynamics and Charge Transfer in Host-Guest Binding. <i>Journal of the American Chemical Society</i> , 2021, 143, 3153-3161.	13.7	67
7	Atomically Dispersed Copper Sites in a Metal-Organic Framework for Reduction of Nitrogen Dioxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 10977-10985.	13.7	66
8	Revisiting the Incorporation of Ti(IV) in UiO-type Metal-Organic Frameworks: Metal Exchange versus Grafting and Their Implications on Photocatalysis. <i>Chemistry of Materials</i> , 2017, 29, 8963-8967.	6.7	64
9	Electro-reduction of carbon dioxide at low over-potential at a metal-organic framework decorated cathode. <i>Nature Communications</i> , 2020, 11, 5464.	12.8	62
10	Adsorption of Nitrogen Dioxide in a Redox-Active Vanadium Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2020, 142, 15235-15239.	13.7	50
11	Structural Dynamics in a "Breathing" Metal-Organic Framework Studied by Electron Paramagnetic Resonance of Nitroxide Spin Probes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 20-24.	4.6	48
12	New oxidovanadium(V) complex with a BIAN ligand: synthesis, structure, redox properties and catalytic activity. <i>New Journal of Chemistry</i> , 2018, 42, 16200-16210.	2.8	42
13	Construction of C-C bonds via photoreductive coupling of ketones and aldehydes in the metal-organic-framework MFM-300(Cr). <i>Nature Communications</i> , 2021, 12, 3583.	12.8	35
14	Methane Activation on H-ZSM-5 Zeolite with Low Copper Loading. The Nature of Active Sites and Intermediates Identified with the Combination of Spectroscopic Methods. <i>Inorganic Chemistry</i> , 2020, 59, 2037-2050.	4.0	25
15	Magnetization Dynamics and Coherent Spin Manipulation of a Propeller Gd(III) Complex with the Smallest Helicene Ligand. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1508-1515.	4.6	24
16	Direct Observation of Ammonia Storage in UiO-66 Incorporating Cu(II) Binding Sites. <i>Journal of the American Chemical Society</i> , 2022, 144, 8624-8632.	13.7	24
17	Mobility and Reactivity of 4-Substituted TEMPO Derivatives in Metal-Organic Framework MIL-53(Al). <i>Journal of Physical Chemistry C</i> , 2016, 120, 10698-10704.	3.1	23
18	Control of zeolite microenvironment for propene synthesis from methanol. <i>Nature Communications</i> , 2021, 12, 822.	12.8	23

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19	Probing Gas Adsorption in Metal-Organic Framework ZIF-8 by EPR of Embedded Nitroxides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19880-19886.	3.1	19
20	Understanding Hysteresis in Carbon Dioxide Sorption in Porous Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2019, 58, 6811-6820.	4.0	19
21	Identical anomalous Raman relaxation exponent in a family of single ion magnets: towards reliable Raman relaxation determination?. <i>Dalton Transactions</i> , 2020, 49, 11942-11949.	3.3	16
22	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15243-15247.	13.8	15
23	Catalytic decomposition of NO ₂ over a copper-decorated metal-organic framework by non-thermal plasma. <i>Cell Reports Physical Science</i> , 2021, 2, 100349.	5.6	10
24	Ultra-thin g-C ₃ N ₄ /MFM-300(Fe) heterojunctions for photocatalytic aerobic oxidation of benzylic carbon centers. <i>Materials Advances</i> , 2021, 2, 5144-5149.	5.4	6
25	Inherent Microporosity and Photostability of Fluoroacrylic Polymer Films Studied by Electron Paramagnetic Resonance of Nitroxide Spin Probes. <i>Applied Magnetic Resonance</i> , 2015, 46, 523-540.	1.2	5
26	Acetylation Rather than H50Q Mutation Impacts the Kinetics of Cu(II) Binding to $\hat{\pm}$ -Synuclein. <i>ChemPhysChem</i> , 2021, 22, 2413-2419.	2.1	4
27	Continuous Wave and Time-Resolved Electron Paramagnetic Resonance Study of Photoinduced Radicals in Fluoroacrylic Porous Polymer Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14767-14773.	3.1	2
28	Electronic Structure of a Diiron Complex: A Multitechnique Experimental Study of [(dppf)Fe(CO) ₃] ⁺⁰ . <i>Inorganic Chemistry</i> , 2021, 60, 2856-2865.	4.0	1
29	Acetylation Rather than H50Q Mutation Impacts the Kinetics of Cu(II) Binding to $\hat{\pm}$ -Synuclein. <i>ChemPhysChem</i> , 2021, 22, 2380-2380.	2.1	1
30	The Origin of Catalytic Benzylic C-H Oxidation over a Redox-Active Metal-Organic Framework. <i>Angewandte Chemie</i> , 2021, 133, 15371-15375.	2.0	0