

Aleksander Shkurenko

List of Publications by Citations

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42
papers

2,389
citations

24
h-index

45
g-index

45
ext. papers

3,033
ext. citations

12.1
avg, IF

5.04
L-index

#	Paper	IF	Citations
42	A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO ₂ Removal and Air Capture Using Physisorption. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9301-7	16.4	244
41	Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. <i>Science</i> , 2017 , 356, 731-735	33.3	209
40	Fluorinated MOF platform for selective removal and sensing of SO from flue gas and air. <i>Nature Communications</i> , 2019 , 10, 1328	17.4	164
39	Reticular Chemistry in Action: A Hydrolytically Stable MOF Capturing Twice Its Weight in Adsorbed Water. <i>CheM</i> , 2018 , 4, 94-105	16.2	160
38	A Fine-Tuned Metal-Organic Framework for Autonomous Indoor Moisture Control. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10715-10722	16.4	150
37	[Ag(SPhMe)(PPh)]: Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14727-14732	16.4	138
36	Natural gas upgrading using a fluorinated MOF with tuned H ₂ S and CO ₂ adsorption selectivity. <i>Nature Energy</i> , 2018 , 3, 1059-1066	62.3	123
35	CsPb Br Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , 2017 , 10, 3746-3749	8.3	93
34	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal-Organic Framework Platforms. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8858-8867	16.4	91
33	Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3265-3274	16.4	84
32	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9585-9592	16.4	81
31	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12767-12770	16.4	80
30	Metal-organic frameworks to satisfy gas upgrading demands: fine-tuning the soc-MOF platform for the operative removal of H ₂ S. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3293-3303	13	76
29	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. <i>CheM</i> , 2019 , 5, 950-963	16.2	68
28	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [PtAgCl(PPh)] Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1053-1056	16.4	67
27	Polyoxometalate-Cyclodextrin Metal-Organic Frameworks: From Tunable Structure to Customized Storage Functionality. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1847-1851	16.4	65
26	A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. <i>CheM</i> , 2017 , 3, 822-833	16.2	62

25	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. <i>Chemistry of Materials</i> , 2018 , 30, 2719-2725	9.6	60
24	Trianglamine-Based Supramolecular Organic Framework with Permanent Intrinsic Porosity and Tunable Selectivity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14571-14575	16.4	46
23	Topology meets MOF chemistry for pore-aperture fine tuning: ftw-MOF platform for energy-efficient separations via adsorption kinetics or molecular sieving. <i>Chemical Communications</i> , 2018 , 54, 6404-6407	5.8	44
22	A Polymorphic Azobenzene Cage for Energy-Efficient and Highly Selective p-Xylene Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21367-21371	16.4	30
21	Enriching the Reticular Chemistry Repertoire with Minimal Edge-Transitive Related Nets: Access to Highly Coordinated Metal-Organic Frameworks Based on Double Six-Membered Rings as Net-Coded Building Units. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20480-20489	16.4	28
20	Supramolecular Isomers of Metal-Organic Frameworks Derived from a Partially Flexible Ligand with Distinct Binding Motifs. <i>Crystal Growth and Design</i> , 2016 , 16, 722-727	3.5	25
19	Toward New 2D Zirconium-Based Metal-Organic Frameworks: Synthesis, Structures, and Electronic Properties. <i>Chemistry of Materials</i> , 2020 , 32, 97-104	9.6	25
18	Mechanochemical Encapsulation of Fullerenes in Peptidic Containers Prepared by Dynamic Chiral Self-Sorting and Self-Assembly. <i>Chemistry - A European Journal</i> , 2016 , 22, 3148-55	4.8	24
17	Topology Meets Reticular Chemistry for Chemical Separations: MOFs as a Case Study. <i>CheM</i> , 2020 , 6, 1613-1633	16.2	23
16	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. <i>Chemical Communications</i> , 2020 , 56, 1883-1886	5.8	19
15	Spectroelectrochemical Approaches to Mechanistic Aspects of Charge Transport in meso-Nickel(II) Schiff Base Electrochromic Polymer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16710-16720	3.8	17
14	Upgrading gasoline to high octane numbers using a zeolite-like metal-organic framework molecular sieve with ana-topology. <i>Chemical Communications</i> , 2018 , 54, 9414-9417	5.8	15
13	Differential guest location by host dynamics enhances propylene/propane separation in a metal-organic framework. <i>Nature Communications</i> , 2020 , 11, 6099	17.4	14
12	Highly ordered luminescent calix[4]azacrown films showing an emission response selective to volatile tetrahydrofuran. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9012-9020	7.1	13
11	Introducing a Cantellation Strategy for the Design of Mesoporous Zeolite-like Metal-Organic Frameworks: Zr-sod-ZMOFs as a Case Study. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20547-20553	16.4	12
10	[Cu (PPh) (PET)] : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. <i>Small</i> , 2021 , 17, e2006839	11	10
9	10-1,9-diazaphenothiazine and its 10-derivatives: synthesis, characterisation and biological evaluation as potential anticancer agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019 , 34, 1298-1306	5.6	5
8	A quantum mechanical alternative to the Arrhenius equation in the interpretation of proton spin-lattice relaxation data for the methyl groups in solids. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28866-78	3.6	4

7	Breaking Down the Interdigitated Dimeric Structure of Calix[4]arenediphosphonic Acid: the Structures of the Complexes with Piroxicam and 9-Aminoacridine. <i>Journal of Chemical Crystallography</i> , 2014 , 44, 380-385	0.5	4
6	High-throughput screening of metal-organic frameworks for kinetic separation of propane and propene. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 23073-23082	3.6	4
5	A Polymorphic Azobenzene Cage for Energy-Efficient and Highly Selective p-Xylene Separation. <i>Angewandte Chemie</i> , 2020 , 132, 21551-21555	3.6	4
4	Nonclassical dynamics of the methyl group in 1,1,1-triphenylethane. Evidence from powder H NMR spectra. <i>Journal of Chemical Physics</i> , 2017 , 146, 104504	3.9	3
3	[Ag(1,2-BDT)]: How Square-Pyramidal Building Blocks Self-Assemble into the Smallest Silver Nanocluster. <i>Inorganic Chemistry</i> , 2021 , 60, 4306-4312	5.1	3
2	The solid-state structures of organic salts formed by calix[4]arene dihydroxyphosphonic acid with nucleic bases cations: adeninium, cytosinium, guaninium and uracilium. <i>Supramolecular Chemistry</i> , 2018 , 30, 545-559	1.8	0
1	Titelbild: A Polymorphic Azobenzene Cage for Energy-Efficient and Highly Selective p-Xylene Separation (Angew. Chem. 48/2020). <i>Angewandte Chemie</i> , 2020 , 132, 21433-21433	3.6	