

Markus J Kalmutzki

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

1,783
citations

16
h-index

42
g-index

47
ext. papers

2,404
ext. citations

9.2
avg, IF

5.45
L-index

#	Paper	IF	Citations
41	Secondary building units as the turning point in the development of the reticular chemistry of MOFs. <i>Science Advances</i> , 2018 , 4, eaat9180	14.3	342
40	Metal-Organic Frameworks for Water Harvesting from Air. <i>Advanced Materials</i> , 2018 , 30, e1704304	24	291
39	The Chemistry of CO Capture in an Amine-Functionalized Metal-Organic Framework under Dry and Humid Conditions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12125-12128	16.4	269
38	Practical water production from desert air. <i>Science Advances</i> , 2018 , 4, eaat3198	14.3	214
37	Identification of the strong Brønsted acid site in a metal-organic framework solid acid catalyst. <i>Nature Chemistry</i> , 2019 , 11, 170-176	17.6	134
36	The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23975-24001	16.4	75
35	Synthesis, structure, and frequency-doubling effect of calcium cyanurate. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14260-3	16.4	70
34	Spiers Memorial Lecture: Progress and prospects of reticular chemistry. <i>Faraday Discussions</i> , 2017 , 201, 9-45	3.6	67
33	Conceptual Advances from Werner Complexes to Metal-Organic Frameworks. <i>ACS Central Science</i> , 2018 , 4, 1457-1464	16.8	67
32	Synthesis and SHG properties of two new cyanurates: Sr ₃ (O ₃ C ₃ N ₃) ₂ (SCY) and Eu ₃ (O ₃ C ₃ N ₃) ₂ (ECY). <i>Inorganic Chemistry</i> , 2014 , 53, 12540-5	5.1	55
31	From cyanate to cyanurate: cyclotrimerization reactions towards the novel family of metal cyanurates. <i>Dalton Transactions</i> , 2013 , 42, 12934-9	4.3	41
30	Development of Metal Cyanurates: The Example of Barium Cyanurate (BCY). <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 2536-2543	2.3	23
29	Covalent Organic Frameworks-Organic Chemistry Beyond the Molecule. <i>Molecules</i> , 2017 , 22,	4.8	21
28	Solid state synthesis of homoleptic tetracyanamidoaluminates. <i>Dalton Transactions</i> , 2011 , 40, 9921-4	4.3	20
27	Formation, Structure, and Frequency-Doubling Effect of a Modification of Strontium Cyanurate (ESCY). <i>Inorganic Chemistry</i> , 2017 , 56, 3357-3362	5.1	17
26	Solid state complex chemistry: formation, structure, and properties of homoleptic tetracyanamidobermanates RbRE[Ge(CN ₂) ₄] (RE = La, Pr, Nd, Gd). <i>Inorganic Chemistry</i> , 2013 , 52, 12372-82 ^{5,1}	5.1	16
25	Second harmonic generation properties of Ca ₃ (O ₃ C ₃ N ₃) ₂ -Sr ₃ (O ₃ C ₃ N ₃) ₂ solid solutions. <i>Crystal Research and Technology</i> , 2016 , 51, 460-465	1.3	15

24	Synthese, Struktur und Frequenzverdopplungseffekt von Calciumcyanurat. <i>Angewandte Chemie</i> , 2014 , 126, 14485-14488	3.6	7
23	Synthesis, Structure, and Luminescence of Rare Earth Cyanurates. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 134-140	2.3	6
22	Synthesis and Characterization of the First Tetracyanamidotungstate. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 6091-6096	2.3	6
21	Der derzeitige Stand von MOF- und COF-Anwendungen. <i>Angewandte Chemie</i> , 2021 , 133, 24174	3.6	4
20	Emergence of Metal-Organic Frameworks 2019 , 1-27		3
19	Liquid- and Gas-Phase Separation in MOFs 2019 , 365-393		2
18	Water Sorption Applications of MOFs 2019 , 395-427		2
17	The Applications of Reticular Framework Materials 2019 , 285-293		1
16	CO ₂ Capture and Sequestration 2019 , 313-338		1
15	Metal-Organic Polyhedra and Covalent Organic Polyhedra 2019 , 453-462		1
14	Determination and Design of Porosity 2019 , 29-56		1
13	Zeolithic Imidazolate Frameworks 2019 , 463-479		1
12	Building Units of MOFs 2019 , 57-81		1
11	Historical Perspective on the Discovery of Covalent Organic Frameworks 2019 , 177-195		1
10	Reticular Design of Covalent Organic Frameworks 2019 , 225-243		1
9	Functionalization of COFs 2019 , 245-266		
8	Nanoscopic and Macroscopic Structuring of Covalent Organic Frameworks 2019 , 267-283		
7	The Basics of Gas Sorption and Separation in MOFs 2019 , 295-311		

6 Hydrogen and Methane Storage in MOFs **2019**, 339-363

5 Dynamic Frameworks **2019**, 481-496

4 Binary Metal-Organic Frameworks **2019**, 83-119

3 Complexity and Heterogeneity in MOFs **2019**, 121-144

2 Functionalization of MOFs **2019**, 145-176

1 Linkages in Covalent Organic Frameworks **2019**, 197-223