

# Avishek Karmakar

## List of Publications by Year in descending order

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42  
papers

2,797  
citations

201385

27  
h-index

276539

41  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3387  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10667-10671.	7.2	334
2	A Water-Stable Cationic Metal-Organic Framework as a Dual Adsorbent of Oxoanion Pollutants. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7811-7815.	7.2	302
3	Ionic metal-organic frameworks (iMOFs): Design principles and applications. <i>Coordination Chemistry Reviews</i> , 2016, 307, 313-341.	9.5	261
4	Guest-Responsive Metal-Organic Frameworks as Scaffolds for Separation and Sensing Applications. <i>Accounts of Chemical Research</i> , 2017, 50, 2457-2469.	7.6	241
5	Dynamic Structural Behavior and Anion-Responsive Tunable Luminescence of a Flexible Cationic Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 998-1002.	7.2	180
6	Fluorescent Turn-On Sensing Based on Metal-Organic Frameworks (MOFs). <i>Chemistry - an Asian Journal</i> , 2019, 14, 4506-4519.	1.7	140
7	Thermo-Responsive MOF/Polymer Composites for Temperature-Mediated Water Capture and Release. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11003-11009.	7.2	101
8	A review of metal-organic frameworks (MOFs) as energy-efficient desiccants for adsorption driven heat-transformation applications. <i>Applied Energy</i> , 2020, 269, 115070.	5.1	101
9	A Post-Synthetically Modified MOF for Selective and Sensitive Aqueous-Phase Detection of Highly Toxic Cyanide Ions. <i>Chemistry - A European Journal</i> , 2016, 22, 864-868.	1.7	91
10	On-Chip Tailorability of Capacitive Gas Sensors Integrated with Metal-Organic Framework Films. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14089-14094.	7.2	86
11	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie</i> , 2016, 128, 10825-10829.	1.6	76
12	Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO <sub>2</sub> Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11318-11325.	7.2	73
13	Hybrid MOF-808-Tb nanospheres for highly sensitive and selective detection of acetone vapor and Fe <sup>3+</sup> in aqueous solution. <i>Chemical Communications</i> , 2019, 55, 4727-4730.	2.2	61
14	A Water-Stable Cationic Metal-Organic Framework as a Dual Adsorbent of Oxoanion Pollutants. <i>Angewandte Chemie</i> , 2016, 128, 7942-7946.	1.6	59
15	An Amide-Functionalized Dynamic Metal-Organic Framework Exhibiting Visual Colorimetric Anion Exchange and Selective Uptake of Benzene over Cyclohexane. <i>Chemistry - A European Journal</i> , 2015, 21, 7071-7076.	1.7	56
16	Aqueous phase sensing of cyanide ions using a hydrolytically stable metal-organic framework. <i>Chemical Communications</i> , 2017, 53, 1253-1256.	2.2	56
17	Chip-Level Integration of Covalent Organic Frameworks for Trace Benzene Sensing. <i>ACS Sensors</i> , 2020, 5, 1474-1481.	4.0	56
18	Selective Anion Exchange and Tunable Luminescent Behaviors of Metal-Organic Framework Based Supramolecular Isomers. <i>Inorganic Chemistry</i> , 2015, 54, 110-116.	1.9	53

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19	Multiscale Design of Flexible Metal-Organic Frameworks. Trends in Chemistry, 2020, 2, 199-213.	4.4	43
20	Metal-Organic Frameworks (MOFs) as Functional Supramolecular Architectures for Anion Recognition and Sensing. Chemical Record, 2018, 18, 154-164.	2.9	39
21	Enhanced proton conduction by post-synthetic covalent modification in a porous covalent framework. Journal of Materials Chemistry A, 2017, 5, 13659-13664.	5.2	38
22	Dynamic Metal-Organic Framework with Anion-Triggered Luminescence Modulation Behavior. Inorganic Chemistry, 2014, 53, 12225-12227.	1.9	37
23	Bimodal Functionality in a Porous Covalent Triazine Framework by Rational Integration of an Electron-Rich and -Deficient Pore Surface. Chemistry - A European Journal, 2016, 22, 4931-4937.	1.7	36
24	Metal-organic frameworks as effective sensors and scavengers for toxic environmental pollutants. National Science Review, 2022, 9, .	4.6	35
25	Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities. Advanced Materials, 2021, 33, e2101257.	11.1	33
26	Anion-Responsive Tunable Bulk-Phase Homochirality and Luminescence of a Cationic Framework. Chemistry - A European Journal, 2014, 20, 12399-12404.	1.7	31
27	Luminescent Metal-Organic Frameworks for the Detection and Discrimination of <i>o</i> -Xylene from Xylene Isomers. Inorganic Chemistry, 2018, 57, 13631-13639.	1.9	25
28	On-Chip Tailorability of Capacitive Gas Sensors Integrated with Metal-Organic Framework Films. Angewandte Chemie, 2019, 131, 14227-14232.	1.6	24
29	Tuning the excited-state intramolecular proton transfer (ESIPT)-based luminescence of metal-organic frameworks by metal nodes toward versatile photoluminescent applications. Dalton Transactions, 2021, 50, 6901-6912.	1.6	22
30	Single-crystal-to-single-crystal transformation of an anion exchangeable dynamic metal-organic framework. CrystEngComm, 2015, 17, 8796-8800.	1.3	20
31	Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO <sub>2</sub> Separation. Angewandte Chemie, 2021, 133, 11419-11426.	1.6	14
32	On-Chip Template-Directed Conversion of Metal Hydroxides to Metal-Organic Framework Films with Enhanced Adhesion. ACS Applied Materials & Interfaces, 2020, 12, 36715-36722.	4.0	11
33	Thermo-Responsive MOF/Polymer Composites for Temperature-Mediated Water Capture and Release. Angewandte Chemie, 2020, 132, 11096-11102.	1.6	11
34	Accelerated Formation Kinetics of a Multicomponent Metal-Organic Framework Derived from Preferential Site Occupancy. Inorganic Chemistry, 2020, 59, 9350-9355.	1.9	7
35	The Best of Both Worlds: An MOP/COF-Based Hybrid Material for Highly Selective and Very Fast Sequestration of Toxic Oxoanions from Water. ACS Central Science, 2020, 6, 1476-1478.	5.3	4
36	Metal-Organic Frameworks: An Advanced Class of Anion-Exchange Materials. Series on Chemistry, Energy and the Environment, 2018, , 325-375.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Metal-Organic Frameworks: Solution-Processable Metal-Organic Framework Nanosheets with Variable Functionalities (Adv. Mater. 29/2021). Advanced Materials, 2021, 33, 2170228.	11.1	2
38	Innen-Titlebild: Pressure-Responsive Two-Dimensional Metal-Organic Framework Composite Membranes for CO <sub>2</sub> Separation (Angew. Chem. 20/2021). Angewandte Chemie, 2021, 133, 11635-11635.	1.6	1
39	Titelbild: On-Chip Tailorability of Capacitive Gas Sensors Integrated with Metal-Organic Framework Films (Angew. Chem. 40/2019). Angewandte Chemie, 2019, 131, 14137-14137.	1.6	0
40	RA-Titlebild: Thermo-Responsive MOF/Polymer Composites for Temperature-Mediated Water Capture and Release (Angew. Chem. 27/2020). Angewandte Chemie, 2020, 132, 11253-11253.	1.6	0
41	Post-synthetically modified porous covalent framework (PCF) for high proton conduction. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1156-C1156.	0.0	0
42	Water-stable MOF for recognition and sequestration of oxoanion pollutants. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1334-C1334.	0.0	0