

Aamod V Desai

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.

64
papers

5,805
citations

35
h-index

70
g-index

70
ext. papers

6,878
ext. citations

7.8
avg, IF

6.4
L-index

#	Paper	IF	Citations
64	Metal-organic frameworks: functional luminescent and photonic materials for sensing applications. <i>Chemical Society Reviews</i> , 2017 , 46, 3242-3285	58.5	1829
63	A fluorescent metal-organic framework for highly selective detection of nitro explosives in the aqueous phase. <i>Chemical Communications</i> , 2014 , 50, 8915-8	5.8	411
62	Selective and sensitive aqueous-phase detection of 2,4,6-trinitrophenol (TNP) by an amine-functionalized metal-organic framework. <i>Chemistry - A European Journal</i> , 2015 , 21, 965-9	4.8	263
61	A Water-Stable Cationic Metal-Organic Framework as a Dual Adsorbent of Oxoanion Pollutants. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7811-5	16.4	252
60	Ionic metal-organic frameworks (iMOFs): Design principles and applications. <i>Coordination Chemistry Reviews</i> , 2016 , 307, 313-341	23.2	212
59	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10667-71	16.4	209
58	Guest-Responsive Metal-Organic Frameworks as Scaffolds for Separation and Sensing Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 2457-2469	24.3	183
57	Engineering metal-organic frameworks for aqueous phase 2,4,6-trinitrophenol (TNP) sensing. <i>CrystEngComm</i> , 2016 , 18, 2994-3007	3.3	163
56	Aqueous phase selective detection of 2,4,6-trinitrophenol using a fluorescent metal-organic framework with a pendant recognition site. <i>Dalton Transactions</i> , 2015 , 44, 15175-80	4.3	134
55	Exploitation of Guest Accessible Aliphatic Amine Functionality of a Metal-Organic Framework for Selective Detection of 2,4,6-Trinitrophenol (TNP) in Water. <i>Crystal Growth and Design</i> , 2015 , 15, 4627-4634	3.5	110
54	Advanced Porous Materials for Sensing, Capture and Detoxification of Organic Pollutants toward Water Remediation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7456-7478	8.3	109
53	Stimulus-responsive metal-organic frameworks. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2358-76	4.5	94
52	Metal-organic framework based highly selective fluorescence turn-on probe for hydrogen sulphide. <i>Scientific Reports</i> , 2014 , 4, 7053	4.9	91
51	Selective Recognition of Hg ion in Water by a Functionalized Metal-Organic Framework (MOF) Based Chemodosimeter. <i>Inorganic Chemistry</i> , 2018 , 57, 2360-2364	5.1	85
50	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, 864-8	4.8	75
49	An Ultrahydrophobic Fluorous Metal-Organic Framework Derived Recyclable Composite as a Promising Platform to Tackle Marine Oil Spills. <i>Chemistry - A European Journal</i> , 2016 , 22, 10937-43	4.8	75
48	Potential of metal-organic frameworks for adsorptive separation of industrially and environmentally relevant liquid mixtures. <i>Coordination Chemistry Reviews</i> , 2018 , 367, 82-126	23.2	73

47	Aqueous phase nitric oxide detection by an amine-decorated metal-organic framework. <i>Chemical Communications</i> , 2015 , 51, 6111-4	5.8	69
46	A Nitro-Functionalized Metal-Organic Framework as a Reaction-Based Fluorescence Turn-On Probe for Rapid and Selective H ₂ S Detection. <i>Chemistry - A European Journal</i> , 2015 , 21, 9994-7	4.8	68
45	Harnessing Lewis acidic open metal sites of metal-organic frameworks: the foremost route to achieve highly selective benzene sorption over cyclohexane. <i>Chemical Communications</i> , 2016 , 52, 8215-8	5.8	62
44	Ultrastable Luminescent Hybrid Bromide Nanocomposites for the Degradation of Organic Pollutants in Water. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1333-1340	5.6	61
43	Selective Detection of 2,4,6-Trinitrophenol (TNP) by a π -Stacked Organic Crystalline Solid in Water. <i>Crystal Growth and Design</i> , 2015 , 15, 3493-3497	3.5	61
42	Neutral N-donor ligand based flexible metal-organic frameworks. <i>Dalton Transactions</i> , 2016 , 45, 4060-72	4.3	60
41	Framework-flexibility driven selective sorption of p-xylene over other isomers by a dynamic metal-organic framework. <i>Scientific Reports</i> , 2014 , 4, 5761	4.9	60
40	N-donor linker based metal-organic frameworks (MOFs): Advancement and prospects as functional materials. <i>Coordination Chemistry Reviews</i> , 2019 , 395, 146-192	23.2	59
39	A π -Electron deficient diaminotriazine functionalized MOF for selective sorption of benzene over cyclohexane. <i>Chemical Communications</i> , 2015 , 51, 15386-9	5.8	56
38	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, 7071-6	4.8	52
37	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. <i>Angewandte Chemie</i> , 2016 , 128, 10825-10829	3.6	50
36	Selective anion exchange and tunable luminescent behaviors of metal-organic framework based supramolecular isomers. <i>Inorganic Chemistry</i> , 2015 , 54, 110-6	5.1	49
35	Chemically stable ionic viologen-organic network: an efficient scavenger of toxic oxo-anions from water. <i>Chemical Science</i> , 2018 , 9, 7874-7881	9.4	49
34	A Water-Stable Cationic Metal-Organic Framework as a Dual Adsorbent of Oxoanion Pollutants. <i>Angewandte Chemie</i> , 2016 , 128, 7942-7946	3.6	47
33	Exploiting Framework Flexibility of a Metal-Organic Framework for Selective Adsorption of Styrene over Ethylbenzene. <i>Inorganic Chemistry</i> , 2015 , 54, 4403-8	5.1	44
32	Aqueous phase sensing of cyanide ions using a hydrolytically stable metal-organic framework. <i>Chemical Communications</i> , 2017 , 53, 1253-1256	5.8	43
31	Guest-responsive function of a dynamic metal-organic framework with a π -Lewis acidic pore surface. <i>Chemistry - A European Journal</i> , 2014 , 20, 15303-8	4.8	41
30	Base-Resistant Ionic Metal-Organic Framework as a Porous Ion-Exchange Sorbent. <i>IScience</i> , 2018 , 3, 21-30	3.1	37

29	A Water-Stable Ionic MOF for the Selective Capture of Toxic Oxoanions of Se and As and Crystallographic Insight into the Ion-Exchange Mechanism. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7788-7792	16.4	34
28	Dynamic metal-organic framework with anion-triggered luminescence modulation behavior. <i>Inorganic Chemistry</i> , 2014 , 53, 12225-7	5.1	32
27	Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1041-1045	16.4	31
26	Enhanced proton conduction by post-synthetic covalent modification in a porous covalent framework. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13659-13664	13	30
25	Anion-responsive tunable bulk-phase homochirality and luminescence of a cationic framework. <i>Chemistry - A European Journal</i> , 2014 , 20, 12399-404	4.8	30
24	Bimodal Functionality in a Porous Covalent Triazine Framework by Rational Integration of an Electron-Rich and -Deficient Pore Surface. <i>Chemistry - A European Journal</i> , 2016 , 22, 4931-7	4.8	30
23	Polar Pore Surface Guided Selective CO ₂ Adsorption in a Prefunctionalized Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2017 , 17, 3581-3587	3.5	27
22	Chemically stable microporous hyper-cross-linked polymer (HCP): an efficient selective cationic dye scavenger from an aqueous medium. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1384-1388	7.8	24
21	High hydroxide conductivity in a chemically stable crystalline metal-organic framework containing a water-hydroxide supramolecular chain. <i>Chemical Communications</i> , 2016 , 52, 8459-62	5.8	24
20	Advances in Organic Anode Materials for Na-/K-Ion Rechargeable Batteries. <i>ChemSusChem</i> , 2020 , 13, 4866-4884	8.3	24
19	2021 roadmap for sodium-ion batteries. <i>JPhys Energy</i> , 2021 , 3, 031503	4.9	24
18	Rapid, selective capture of toxic oxo-anions of Se(IV), Se(VI) and As(V) from water by an ionic metal-organic framework (iMOF). <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6499-6507	13	19
17	Single-crystal-to-single-crystal transformation of an anion exchangeable dynamic metal-organic framework. <i>CrystEngComm</i> , 2015 , 17, 8796-8800	3.3	17
16	Multifunctional Behavior of Sulfonate-Based Hydrolytically Stable Microporous Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39049-39055	9.5	16
15	Coherent fusion of water array and protonated amine in a metal-sulfate-based coordination polymer for proton conduction. <i>Inorganic Chemistry</i> , 2015 , 54, 5366-71	5.1	14
14	Probing the Role of Anions in Influencing the Structure, Stability, and Properties in Neutral N-Donor Linker Based Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2019 , 19, 7046-7054	3.5	13
13	Post-synthetically modified metal-organic framework as a scaffold for selective bisulphite recognition in water. <i>Polyhedron</i> , 2018 , 156, 1-5	2.7	13
12	A Bifunctional Metal-Organic Framework: Striking CO ₂ -Selective Sorption Features along with Guest-Induced Tuning of Luminescence. <i>ChemPlusChem</i> , 2016 , 81, 702-707	2.8	12

11	A Water-Stable Ionic MOF for the Selective Capture of Toxic Oxoanions of SeVI and AsV and Crystallographic Insight into the Ion-Exchange Mechanism. <i>Angewandte Chemie</i> , 2020 , 132, 7862-7866	3.6	10
10	Toxic Aromatics Induced Responsive Facets for a Pore Surface Functionalized Luminescent Coordination Polymer. <i>Inorganic Chemistry</i> , 2017 , 56, 6864-6869	5.1	8
9	Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra. <i>Angewandte Chemie</i> , 2019 , 131, 1053-1057	3.6	7
8	Metal-organic frameworks for recognition and sequestration of toxic anionic pollutants 2019 , 95-140		6
7	Specific recognition of toxic allyl alcohol by pore-functionalized metal-organic frameworks. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 469-476	4.6	6
6	Conversion of a microwave synthesized alkali-metal MOF to a carbonaceous anode for Li-ion batteries.. <i>RSC Advances</i> , 2020 , 10, 13732-13736	3.7	6
5	A luminescent cationic MOF for bimodal recognition of chromium and arsenic based oxo-anions in water. <i>Dalton Transactions</i> , 2021 , 50, 10133-10141	4.3	5
4	Efficient Capture of Trace Acetylene by an Ultramicroporous Metal-Organic Framework with Purine Binding Sites. <i>Chemistry of Materials</i> , 2021 , 33, 5800-5808	9.6	3
3	Rapid Microwave-Assisted Synthesis and Electrode Optimization of Organic Anode Materials in Sodium-Ion Batteries.. <i>Small Methods</i> , 2021 , 5, e2101016	12.8	2
2	Synthesis and structural elucidation of neutral N-donor linker based bi-porous isostructural cationic metal-organic frameworks. <i>Inorganica Chimica Acta</i> , 2019 , 486, 401-405	2.7	1
1	Ultrahigh Ionic Conduction in Water-Stable Close-Packed Metal-Carbonate Frameworks. <i>Inorganic Chemistry</i> , 2017 , 56, 9710-9715	5.1	