

# Amrit Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,543  
citations

346980

22  
h-index

488211

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2504  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed-metal hybrid ultramicroporous material (HUM) precursor to graphene-supported tetrataenite as a highly active and durable NPG catalyst for the OER. Dalton Transactions, 2021, 50, 5311-5317.	1.6	3
2	Breaking the trade-off between selectivity and adsorption capacity for gas separation. Chem, 2021, 7, 3085-3098.	5.8	68
3	An overview on trace CO <sub>2</sub> removal by advanced physisorbent materials. Journal of Environmental Management, 2020, 255, 109874.	3.8	45
4	Innentitelbild: Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H <sub>2</sub> by Calcium Trimesate (Angew. Chem. 37/2020). Angewandte Chemie, 2020, 132, 15898-15898.	1.6	0
5	Crystal engineering of a rectangular $q^2$ coordination network to enable xylenes selectivity over ethylbenzene. Chemical Science, 2020, 11, 6889-6895.	3.7	26
6	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. Journal of the American Chemical Society, 2020, 142, 6896-6901.	6.6	51
7	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H <sub>2</sub> by Calcium Trimesate. Angewandte Chemie, 2020, 132, 16322-16328.	1.6	8
8	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H <sub>2</sub> by Calcium Trimesate. Angewandte Chemie - International Edition, 2020, 59, 16188-16194.	7.2	28
9	Metal-organic framework based carbon capture and purification technologies for clean environment. , 2019, , 5-61.		21
10	Synergistic sorbent separation for one-step ethylene purification from a four-component mixture. Science, 2019, 366, 241-246.	6.0	360
11	Tuning the Gate-Opening Pressure in a Switching pcu Coordination Network, $X^{\text{pcu}} \text{Zn}$ , by Pillar-Ligand Substitution. Angewandte Chemie - International Edition, 2019, 58, 18212-18217.	7.2	55
12	Highly selective CO <sub>2</sub> removal for one-step liquefied natural gas processing by physisorbents. Chemical Communications, 2019, 55, 3219-3222.	2.2	31
13	Tuning the Gate-Opening Pressure in a Switching pcu Coordination Network, $X^{\text{pcu}} \text{Zn}$ , by Pillar-Ligand Substitution. Angewandte Chemie, 2019, 131, 18380-18385.	1.6	12
14	Trace CO <sub>2</sub> capture by an ultramicroporous physisorbent with low water affinity. Science Advances, 2019, 5, eaax9171.	4.7	143
15	Efficient CO <sub>2</sub> Removal for Ultra- $q^2$ Pure CO Production by Two Hybrid Ultramicroporous Materials. Angewandte Chemie - International Edition, 2018, 57, 3332-3336.	7.2	52
16	Efficient CO <sub>2</sub> Removal for Ultra- $q^2$ Pure CO Production by Two Hybrid Ultramicroporous Materials. Angewandte Chemie, 2018, 130, 3390-3394.	1.6	12
17	Impact of partial interpenetration in a hybrid ultramicroporous material on C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> separation performance. Chemical Communications, 2018, 54, 3488-3491.	2.2	38
18	Finding the Optimal Balance between the Pore Size and Pore Chemistry in Hybrid Ultramicroporous Materials for Trace Acetylene Capture. ACS Applied Nano Materials, 2018, 1, 6000-6004.	2.4	12

#	ARTICLE	IF	CITATIONS
19	Coordination Network That Reversibly Switches between Two Nonporous Polymorphs and a High Surface Area Porous Phase. <i>Journal of the American Chemical Society</i> , 2018, 140, 15572-15576.	6.6	51
20	Hybrid ultramicroporous materials (HUMs) with enhanced stability and trace carbon capture performance. <i>Chemical Communications</i> , 2017, 53, 5946-5949.	2.2	99
21	Flue-gas and direct-air capture of CO <sub>2</sub> by porous metal-organic materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160025.	1.6	80
22	Water Vapor Sorption in Hybrid Pillared Square Grid Materials. <i>Journal of the American Chemical Society</i> , 2017, 139, 8508-8513.	6.6	90
23	The effect of centred versus offset interpenetration on C <sub>2</sub> H <sub>2</sub> sorption in hybrid ultramicroporous materials. <i>Chemical Communications</i> , 2017, 53, 11592-11595.	2.2	40
24	Controlling the Uptake and Regulating the Release of Nitric Oxide in Microporous Solids. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43520-43528.	4.0	15
25	Benchmark C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> and CO <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> Separation by Two Closely Related Hybrid Ultramicroporous Materials. <i>CheM</i> , 2016, 1, 753-765.	5.8	349
26	Tuning Pore Size in Square Lattice Coordination Networks for Size-Selective Sieving of CO <sub>2</sub> . <i>Angewandte Chemie</i> , 2016, 128, 10424-10428.	1.6	43
27	Tuning Pore Size in Square Lattice Coordination Networks for Size-Selective Sieving of CO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10268-10272.	7.2	237
28	Theoretical Investigations of CO <sub>2</sub> and H <sub>2</sub> Sorption in Robust Molecular Porous Materials. <i>Langmuir</i> , 2016, 32, 11492-11505.	1.6	17
29	Direct Air Capture of CO <sub>2</sub> by Physisorbent Materials. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14372-14377.	7.2	382
30	Hydrophobic pillared square grids for selective removal of CO <sub>2</sub> from simulated flue gas. <i>Chemical Communications</i> , 2015, 51, 15530-15533.	2.2	115
31	Photochromism of novel chromenes constrained to be part of [2.2]paracyclophane: remarkable $\pi$ -phane effects on the colored o-quinonoid intermediates. <i>New Journal of Chemistry</i> , 2013, 37, 82-88.	1.4	18