

# Souryadeep Bhattacharyya

## List of Publications by Year in descending order

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24  
papers

968  
citations

516710

16  
h-index

642732

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions of SO <sub>2</sub> -Containing Acid Gases with ZIF-8: Structural Changes and Mechanistic Investigations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27221-27229.	3.1	115
2	Acid Gas Stability of Zeolitic Imidazolate Frameworks: Generalized Kinetic and Thermodynamic Characteristics. <i>Chemistry of Materials</i> , 2018, 30, 4089-4101.	6.7	86
3	GPCR-Based Chemical Biosensors for Medium-Chain Fatty Acids. <i>ACS Synthetic Biology</i> , 2015, 4, 1261-1269.	3.8	83
4	Synergistic Effects of Water and SO <sub>2</sub> on Degradation of MIL-125 in the Presence of Acid Gases. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27230-27240.	3.1	79
5	Photocatalytic Degradation of Naphthalene by Electrospun Mesoporous Carbon-Doped Anatase TiO <sub>2</sub> Nanofiber Mats. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 18900-18909.	3.7	73
6	Heat-Treatment of Defective UiO-66 from Modulated Synthesis: Adsorption and Stability Studies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23471-23479.	3.1	73
7	Liquid-Phase Multicomponent Adsorption and Separation of Xylene Mixtures by Flexible MIL-53 Adsorbents. <i>Journal of Physical Chemistry C</i> , 2018, 122, 386-397.	3.1	52
8	DMOF-1 as a Representative MOF for SO <sub>2</sub> Adsorption in Both Humid and Dry Conditions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23493-23500.	3.1	51
9	Computational Identification and Experimental Evaluation of Metal-Organic Frameworks for Xylene Enrichment. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12075-12082.	3.1	46
10	Butanol Separation from Humid CO <sub>2</sub> -Containing Multicomponent Vapor Mixtures by Zeolitic Imidazolate Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9467-9476.	6.7	41
11	Reactive Adsorption of Humid SO <sub>2</sub> on Metal-Organic Framework Nanosheets. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10413-10422.	3.1	35
12	Stability of Zeolitic Imidazolate Frameworks in NO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2019, 123, 2336-2346.	3.1	35
13	Engineering Porous Organic Cage Crystals with Increased Acid Gas Resistance. <i>Chemistry - A European Journal</i> , 2016, 22, 10743-10747.	3.3	31
14	Solvent selection for biphasic extraction of 5-hydroxymethylfurfural <i>via</i> multiscale modeling and experiments. <i>Green Chemistry</i> , 2020, 22, 8699-8712.	9.0	28
15	Recovery of Acid-Gas-Degraded Zeolitic Imidazolate Frameworks by Solvent-Assisted Crystal Redemption (SACRed). <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34597-34602.	8.0	24
16	Purification of 2,5-Dimethylfuran from <i>n</i> -Butanol Using Defect-Engineered Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7931-7939.	6.7	24
17	Extraction of Furfural and Furfural/5-Hydroxymethylfurfural from Mixed Lignocellulosic Biomass-Derived Feedstocks. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7489-7498.	6.7	18
18	Origins of Acid-Gas Stability Behavior in Zeolitic Imidazolate Frameworks: The Unique High Stability of ZIF-71. <i>Journal of the American Chemical Society</i> , 2021, 143, 18061-18072.	13.7	18

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19	Direct Intranuclear Anticancer Drug Delivery via Polydimethylsiloxane Nanoparticles: in Vitro and in Vivo Xenograft Studies. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34625-34633.	8.0	17
20	Quantitative Correlations for the Durability of Zeolitic Imidazolate Frameworks in Humid SO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 245-252.	3.7	15
21	Synthesizing New Hybrid Zeolitic Imidazolate Frameworks by Controlled Demolition and Reconstruction. , 2019, 1, 447-451.		7
22	Structure Evolution of Chemically Degraded ZIF-8. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9736-9741.	3.1	7
23	Improved slit-shaped microseparator and its integration with a microreactor for modular biomanufacturing. <i>Green Chemistry</i> , 2021, 23, 3700-3714.	9.0	6
24	Controlled Demolition and Reconstruction of Imidazolate and Carboxylate Metal-Organic Frameworks by Acid Gas Exposure and Linker Treatment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15582-15592.	3.7	4