Subhadip Goswami

List of Publications by Year
in descending order

50 papers	3,120 citations	159585 30 h-index	197818 49 g-index
51 all docs	51 docs citations	51 times ranked	4411 citing authors

#	ARTICLE	IF	CITATIONS
1	Postsynthetic Tuning of Metalâ€"Organic Frameworks for Targeted Applications. Accounts of Chemical Research, 2017, 50, 805-813.	15.6	644
2	Catalytic Zirconium/Hafnium-Based Metalâ€"Organic Frameworks. ACS Catalysis, 2017, 7, 997-1014.	11.2	288
3	Energy-based descriptors to rapidly predict hydrogen storage in metalâ€"organic frameworks. Molecular Systems Design and Engineering, 2019, 4, 162-174.	3.4	179
4	Increased Electrical Conductivity in a Mesoporous Metalâ€"Organic Framework Featuring Metallacarboranes Guests. Journal of the American Chemical Society, 2018, 140, 3871-3875.	13.7	158
5	A porous, electrically conductive hexa-zirconium(<scp>iv</scp>) metalâ€"organic framework. Chemical Science, 2018, 9, 4477-4482.	7.4	158
6	Computer-aided discovery of a metalâ€"organic framework with superior oxygen uptake. Nature Communications, 2018, 9, 1378.	12.8	136
7	Ultrastable Mesoporous Hydrogen-Bonded Organic Framework-Based Fiber Composites toward Mustard Gas Detoxification. Cell Reports Physical Science, 2020, 1, 100024.	5.6	107
8	Charge Transport in Zirconium-Based Metalâ€"Organic Frameworks. Accounts of Chemical Research, 2020, 53, 1187-1195.	15.6	100
9	Toward Metalâ€"Organic Framework-Based Solar Cells: Enhancing Directional Exciton Transport by Collapsing Three-Dimensional Film Structures. ACS Applied Materials & Interfaces, 2016, 8, 30863-30870.	8.0	88
10	Anisotropic Redox Conductivity within a Metalâ€"Organic Framework Material. Journal of the American Chemical Society, 2019, 141, 17696-17702.	13.7	71
11	Improving the Efficiency of Mustard Gas Simulant Detoxification by Tuning the Singlet Oxygen Quantum Yield in Metalâ€"Organic Frameworks and Their Corresponding Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 23802-23806.	8.0	67
12	Atomistic Approach toward Selective Photocatalytic Oxidation of a Mustard-Gas Simulant: A Case Study with Heavy-Chalcogen-Containing PCN-57 Analogues. ACS Applied Materials & Interfaces, 2017, 9, 19535-19540.	8.0	63
13	Porosity Dependence of Compression and Lattice Rigidity in Metalâ€"Organic Framework Series. Journal of the American Chemical Society, 2019, 141, 4365-4371.	13.7	51
14	Improving Energy Transfer within Metalâ€"Organic Frameworks by Aligning Linker Transition Dipoles along the Framework Axis. Journal of the American Chemical Society, 2020, 142, 11192-11202.	13.7	48
15	Pore-Templated Growth of Catalytically Active Gold Nanoparticles within a Metalâ€"Organic Framework. Chemistry of Materials, 2019, 31, 1485-1490.	6.7	47
16	Atomic Layer Deposition of Ultrathin Nickel Sulfide Films and Preliminary Assessment of Their Performance as Hydrogen Evolution Catalysts. Langmuir, 2016, 32, 12005-12012.	3.5	45
17	Photophysics and Light-Activated Biocidal Activity of Visible-Light-Absorbing Conjugated Oligomers. ACS Applied Materials & Interfaces, 2013, 5, 4516-4520.	8.0	44
18	Oxygenâ€Assisted Cathodic Deposition of Zeolitic Imidazolate Frameworks with Controlled Thickness. Angewandte Chemie - International Edition, 2019, 58, 1123-1128.	13.8	40

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19	Light-Harvesting â€œAntennaâ€•Behavior in NU-1000. ACS Energy Letters, 2021, 6, 848-853.	17.4	40
20	Stabilization of an Unprecedented Hexanuclear Secondary Building Unit in a Thorium-Based Metalâ€“Organic Framework. Inorganic Chemistry, 2019, 58, 3586-3590.	4.0	38
21	Photophysics and Nonlinear Absorption of Gold(I) and Platinum(II) Donorâ€“Acceptorâ€“Donor Chromophores. Inorganic Chemistry, 2015, 54, 10007-10014.	4.0	37
22	Photoexcited Naphthalene Diimide Radical Anion Linking the Nodes of a Metalâ€“Organic Framework: A Heterogeneous Super-reductant. Chemistry of Materials, 2018, 30, 2488-2492.	6.7	37
23	Photophysics of Organometallic Platinum(II) Derivatives of the Diketopyrrolopyrrole Chromophore. Journal of Physical Chemistry A, 2014, 118, 11735-11743.	2.5	36
24	A Flexible Interpenetrated Zirconiumâ€Based Metalâ€“Organic Framework with High Affinity toward Ammonia. ChemSusChem, 2020, 13, 1710-1714.	6.8	36
25	Designing Porous Materials to Resist Compression: Mechanical Reinforcement of a Zr-MOF with Structural Linkers. Chemistry of Materials, 2020, 32, 3545-3552.	6.7	36
26	Photon Upconversion in a Glowing Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 5053-5059.	13.7	34
27	An Electrically Conductive Tetrathiafulvalene-Based Hydrogen-Bonded Organic Framework. , 2022, 4, 128-135.		34
28	Photophysics and non-linear absorption of Au(<scp>i</scp>) and Pt(<scp>ii</scp>) acetylide complexes of a thienyl-carbazole chromophore. Dalton Transactions, 2014, 43, 17721-17728.	3.3	33
29	Boosting Transport Distances for Molecular Excitons within Photoexcited Metalâ€“Organic Framework Films. ACS Applied Materials & Interfaces, 2018, 10, 34409-34417.	8.0	33
30	Ï€-Conjugated Organometallic Isoindigo Oligomer and Polymer Chromophores: Singlet and Triplet Excited State Dynamics and Application in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 26828-26838.	8.0	32
31	Catalytic Degradation of an Organophosphorus Agent at Znâ€“OH Sites in a Metalâ€“Organic Framework. Chemistry of Materials, 2020, 32, 6998-7004.	6.7	32
32	Torsion Angle Effect on the Activation of UiO Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2019, 11, 15788-15794.	8.0	31
33	Vapor-Phase Fabrication and Condensed-Phase Application of a MOF-Node-Supported Iron Thiolate Photocatalyst for Nitrate Conversion to Ammonium. ACS Applied Energy Materials, 2019, 2, 8695-8700.	5.1	29
34	Effect of Polymer Side Chains on Charge Generation and Disorder in PBDTTPD Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 26999-27005.	8.0	27
35	Cyclometalated Platinum-Containing Diketopyrrolopyrrole Complexes and Polymers: Photophysics and Photovoltaic Applications. Chemistry of Materials, 2017, 29, 8449-8461.	6.7	27
36	Ultrafast Photoinduced Electron Transfer in a Ï€-Conjugated Oligomer/Porphyrin Complex. Journal of Physical Chemistry Letters, 2014, 5, 3386-3390.	4.6	26

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37	An iron-porphyrin grafted metalâ€"organic framework as a heterogeneous catalyst for the photochemical reduction of CO2. Journal of Photochemistry and Photobiology, 2022, 10, 100111.	2.5	23
38	Direct Observation of Modulated Radical Spin States in Metalâ€"Organic Frameworks by Controlled Flexibility. Journal of the American Chemical Society, 2022, 144, 2685-2693.	13.7	23
39	Superradiance and Directional Exciton Migration in Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2022, 144, 1396-1406.	13.7	22
40	Tuning the Conductivity of Hexa-Zirconium(IV) Metalâ€"Organic Frameworks by Encapsulating Heterofullerenes. Chemistry of Materials, 2021, 33, 1182-1189.	6.7	17
41	Regioselective Functionalization of the Mesoporous Metalâ€"Organic Framework, NU-1000, with Photo-Active Tris-(2,2â€²-bipyridine)ruthenium(II). ACS Omega, 2020, 5, 30299-30305.	3.5	17
42	Understanding Diffusional Charge Transport within a Pyrene-Based Hydrogen-Bonded Organic Framework. Langmuir, 2022, 38, 1533-1539.	3.5	17
43	Ultrafast Excited-State Dynamics of Diketopyrrolopyrrole (DPP)-Based Materials: Static versus Diffusion-Controlled Electron Transfer Process. Journal of Physical Chemistry C, 2015, 119, 15919-15925.	3.1	15
44	Photochemistry of a Model Cationic <i>p</i>-Phenylene Ethynylene in Water. Journal of Physical Chemistry Letters, 2012, 3, 1363-1368.	4.6	13
45	Light-Harvesting Two-Photon-Absorbing Polymers. Macromolecules, 2020, 53, 6279-6287.	4.8	9
46	Identifying the Polymorphs of Zr-Based Metalâ€"Organic Frameworks via Time-Resolved Fluorescence Imaging. , 2022, 4, 370-377.		8
47	Modulation of CO₂ adsorption in novel pillar-layered MOFs based on carboxylateâ€"pyrazole flexible linker. Dalton Transactions, 2021, 50, 2880-2890.	3.3	7
48	Does the Mode of Metalâ€"Organic Framework/Electrode Adhesion Determine Rates for Redox-Hopping-Based Charge Transport within Thin-Film Metalâ€"Organic Frameworks?. Journal of Physical Chemistry C, 2022, 126, 4601-4611.	3.1	7
49	Oxygenâ€Assisted Cathodic Deposition of Zeolitic Imidazolate Frameworks with Controlled Thickness. Angewandte Chemie, 2019, 131, 1135-1140.	2.0	4
50	Redox-Hopping-Based Charge Transport Mediated by Ru(II)-Polypyridyl Species Immobilized in a Mesoporous Metal-Organic Framework. Frontiers in Chemical Engineering, 2022, 3, .	2.7	2