Bishnu P Biswal

List of Publications by Year in descending order

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Version: 2024-02-01

40 papers	7,534 citations	109321 35 h-index	265206 42 g-index
42 all docs	42 docs citations	42 times ranked	6962 citing authors

#	Article	IF	Citations
1	Mechanochemical Synthesis of Chemically Stable Isoreticular Covalent Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 5328-5331.	13.7	821
2	Chemically Stable Multilayered Covalent Organic Nanosheets from Covalent Organic Frameworks via Mechanical Delamination. Journal of the American Chemical Society, 2013, 135, 17853-17861.	13.7	717
3	Selective Molecular Sieving in Selfâ€Standing Porous Covalentâ€Organicâ€Framework Membranes. Advanced Materials, 2017, 29, 1603945.	21.0	524
4	Chemical sensing in two dimensional porous covalent organic nanosheets. Chemical Science, 2015, 6, 3931-3939.	7.4	504
5	Constructing Ultraporous Covalent Organic Frameworks in Seconds via an Organic Terracotta Process. Journal of the American Chemical Society, 2017, 139, 1856-1862.	13.7	432
6	Self-Exfoliated Guanidinium-Based Ionic Covalent Organic Nanosheets (iCONs). Journal of the American Chemical Society, 2016, 138, 2823-2828.	13.7	407
7	Polymer photocatalysts for solar-to-chemical energy conversion. Nature Reviews Materials, 2021, 6, 168-190.	48.7	361
8	A mechanochemically synthesized covalent organic framework as a proton-conducting solid electrolyte. Journal of Materials Chemistry A, 2016, 4, 2682-2690.	10.3	309
9	A Nitrogenâ€Rich 2D sp²â€Carbonâ€Linked Conjugated Polymer Framework as a Highâ€Performance Cathode for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 849-853.	13.8	275
10	Chemically Stable Covalent Organic Framework (COF)â€Polybenzimidazole Hybrid Membranes: Enhanced Gas Separation through Pore Modulation. Chemistry - A European Journal, 2016, 22, 4695-4699.	3.3	257
11	Crystalline metal-organic frameworks (MOFs): synthesis, structure and function. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 3-10.	1.1	246
12	Sustained Solar H₂ Evolution from a Thiazolo[5,4-d]thiazole-Bridged Covalent Organic Framework and Nickel-Thiolate Cluster in Water. Journal of the American Chemical Society, 2019, 141, 11082-11092.	13.7	239
13	Unveiling Electronic Properties in Metalâ€“Phthalocyanine-Based Pyrazine-Linked Conjugated Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 16810-16816.	13.7	227
14	A Crystalline, 2D Polyarylimide Cathode for Ultrastable and Ultrafast Li Storage. Advanced Materials, 2019, 31, e1901478.	21.0	192
15	Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation. Angewandte Chemie - International Edition, 2016, 55, 7806-7810.	13.8	168
16	Zeolitic Imidazolate Framework (ZIF)â€Derived, Hollowâ€Core, Nitrogenâ€Doped Carbon Nanostructures for Oxygenâ€Reduction Reactions in PEFCs. Chemistry - A European Journal, 2013, 19, 9335-9342.	3.3	147
17	Mechanosynthesis of imine, Î²-ketoenamine, and hydrogen-bonded imine-linked covalent organic frameworks using liquid-assisted grinding. Chemical Communications, 2014, 50, 12615-12618.	4.1	146
18	Pore surface engineering in porous, chemically stable covalent organic frameworks for water adsorption. Journal of Materials Chemistry A, 2015, 3, 23664-23669.	10.3	143

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19	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 6896-6900.	13.8	135
20	Stabilization of graphene quantum dots (GQDs) by encapsulation inside zeolitic imidazolate framework nanocrystals for photoluminescence tuning. Nanoscale, 2013, 5, 10556.	5.6	131
21	Control of Porosity by Using Isoreticular Zeolitic Imidazolate Frameworks (IRZIFs) as a Template for Porous Carbon Synthesis. Chemistry - A European Journal, 2012, 18, 11399-11408.	3.3	122
22	Thiopheneâ€Bridged Donorâ€“Acceptor sp²â€Carbonâ€Linked 2D Conjugated Polymers as Photocathodes for Water Reduction. Advanced Materials, 2021, 33, e2006274.	21.0	100
23	Boosting the Electrocatalytic Conversion of Nitrogen to Ammonia on Metal-Phthalocyanine-Based Two-Dimensional Conjugated Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 19992-20000.	13.7	100
24	Synthesis of Vinyleneâ€Linked Twoâ€Dimensional Conjugated Polymers via the Hornerâ€“Wadsworthâ€“Emmons Reaction. Angewandte Chemie - International Edition, 2020, 59, 23620-23625.	13.8	86
25	Sub-stoichiometric 2D covalent organic frameworks from tri- and tetratopic linkers. Nature Communications, 2019, 10, 2689.	12.8	83
26	Selective interfacial synthesis of metalâ€“organic frameworks on a polybenzimidazole hollow fiber membrane for gas separation. Nanoscale, 2015, 7, 7291-7298.	5.6	79
27	Solution mediated phase transformation (RHO to SOD) in porous Co-imidazolate based zeolitic frameworks with high water stability. Chemical Communications, 2012, 48, 11868.	4.1	77
28	A Nitrogenâ€Rich 2D sp²â€Carbonâ€Linked Conjugated Polymer Framework as a Highâ€Performance Cathode for Lithiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 859-863.	2.0	71
29	Constructing covalent organic frameworks in waterviadynamic covalent bonding. IUCrJ, 2016, 3, 402-407.	2.2	59
30	A thiazolo[5,4-d]thiazole-bridged porphyrin organic framework as a promising nonlinear optical material. Chemical Communications, 2019, 55, 11025-11028.	4.1	59
31	Luminescent sp²-Carbon-Linked 2D Conjugated Polymers with High Photostability. Chemistry of Materials, 2020, 32, 7985-7991.	6.7	48
32	Kitchen grinder: a tool for the synthesis of metalâ€“organic frameworks towards size selective dye adsorption. CrystEngComm, 2018, 20, 2486-2490.	2.6	47
33	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. Angewandte Chemie, 2019, 131, 6970-6974.	2.0	43
34	Fully sp²â€Carbonâ€Linked Crystalline Twoâ€Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. Chemistry - A European Journal, 2019, 25, 6562-6568.	3.3	40
35	Exploration of Thiazolo[5,4â€d]thiazole Linkages in Conjugated Porous Organic Polymers for Chemoselective Molecular Sieving. Chemistry - A European Journal, 2018, 24, 10868-10875.	3.3	39
36	Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation. Angewandte Chemie, 2016, 128, 7937-7941.	2.0	32

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37	Synthese von Vinylâ€verknÃ¼pften zweidimensionalen konjugierten Polymeren via Hornerâ€Wadsworthâ€Emmonsâ€Reaktion. Angewandte Chemie, 2020, 132, 23827-23832.	2.0	18
38	Transforming covalent organic framework into thin-film composite membranes for hydrocarbon recovery. Separation Science and Technology, 2018, 53, 1752-1759.	2.5	15
39	MXeneâ€Coupled Sandwichâ€Like Polyaniline as Dual Conductive Electrode for Flexible Allâ€Solidâ€State and Ionicâ€liquidâ€Based Supercapacitors with Superior Energy Density. Advanced Materials Interfaces, 2021, 8, 2101263.	3.7	14
40	Construction of MXeneâ€Coupled Nitrogenâ€Doped Porous Carbon Hybrid from a Conjugated Microporous Polymer for Highâ€Performance Supercapacitors. Advanced Energy and Sustainability Research, 2021, 2, 2000052.	5.8	12