

# Aasif Helal

## List of Publications by Year in descending order

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59  
papers

2,992  
citations

186265

28  
h-index

161849

54  
g-index

60  
all docs

60  
docs citations

60  
times ranked

4015  
citing authors

#	ARTICLE	IF	CITATIONS
1	The chemistry of metal-organic frameworks for CO <sub>2</sub> capture, regeneration and conversion. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	1,075
2	Multivariate metal-organic frameworks. <i>National Science Review</i> , 2017, 4, 296-298.	9.5	148
3	Chromogenic and fluorogenic sensing of Cu <sup>2+</sup> based on coumarin. <i>Tetrahedron</i> , 2011, 67, 2794-2802.	1.9	127
4	Metal-organic framework-guided growth of Mo <sub>2</sub> C embedded in mesoporous carbon as a high-performance and stable electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16225-16232.	10.3	102
5	Thiazole-based chemosensor: synthesis and ratiometric fluorescence sensing of zinc. <i>Tetrahedron Letters</i> , 2009, 50, 5510-5515.	1.4	85
6	A fluorescent chemosensor for sequential recognition of gallium and hydrogen sulfate ions based on a new phenylthiazole derivative. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 430-434.	7.8	70
7	Electrochemical Reduction of CO <sub>2</sub> : A Review of Cobalt Based Catalysts for Carbon Dioxide Conversion to Fuels. <i>Nanomaterials</i> , 2021, 11, 2029.	4.1	60
8	Prospects for a green methanol thermo-catalytic process from CO <sub>2</sub> by using MOFs based materials: A mini-review. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 43, 101361.	6.8	59
9	New regioisomeric naphthol-substituted thiazole based ratiometric fluorescence sensor for Zn <sup>2+</sup> with a remarkable red shift in emission spectra. <i>Tetrahedron</i> , 2012, 68, 647-653.	1.9	58
10	Fluorescence sensor for sequential detection of zinc and phosphate ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 169, 87-94.	3.9	58
11	Dual-signaling fluorescent chemosensor based on bisthiazole derivatives. <i>Tetrahedron Letters</i> , 2010, 51, 3531-3535.	1.4	56
12	Fluorescent probe for sequential recognition of Ga <sup>3+</sup> and pyrophosphate anions. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 789-799.	7.8	54
13	Highly selective fluorescent probe for switch-on Al <sup>3+</sup> detection and switch-off F <sup>-</sup> detection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 312-320.	3.9	52
14	Highly selective fluorescent probe for sequential recognition of copper(II) and iodide ions. <i>Tetrahedron</i> , 2017, 73, 4684-4691.	1.9	50
15	Thiazole-based chemosensor II: synthesis and fluorescence sensing of fluoride ions based on inhibition of ESIPT. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010, 66, 87-94.	1.6	49
16	Trends and Prospects in UiO-66 Metal-Organic Framework for CO <sub>2</sub> Capture, Separation, and Conversion. <i>Chemical Record</i> , 2021, 21, 1771-1791.	5.8	48
17	Thiazole sulfonamide based ratiometric fluorescent chemosensor with a large spectral shift for zinc sensing. <i>Tetrahedron</i> , 2010, 66, 9925-9932.	1.9	47
18	Allyl functionalized UiO-66 metal-organic framework as a catalyst for the synthesis of cyclic carbonates by CO <sub>2</sub> cycloaddition. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 89, 104-110.	5.8	47

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19	Facile hydrogenation of N-heteroarenes by magnetic nanoparticle-supported sub-nanometric Rh catalysts in aqueous medium. <i>Catalysis Science and Technology</i> , 2018, 8, 4709-4717.	4.1	45
20	An Ultrasensitive and Selective Metal-Organic Framework Chemosensor for Palladium Detection in Water. <i>Inorganic Chemistry</i> , 2019, 58, 1738-1741.	4.0	42
21	Advanced Strategies in Metal-Organic Frameworks for CO <sub>2</sub> Capture and Separation. <i>Chemical Record</i> , 2022, 22, .	5.8	42
22	A highly selective fluorescent turn-on probe for Al <sup>3+</sup> via Al <sup>3+</sup> -promoted hydrolysis of ester. <i>Tetrahedron</i> , 2013, 69, 6095-6099.	1.9	38
23	Potential Applications of Nickel-Based Metal-Organic Frameworks and their Derivatives. <i>Chemical Record</i> , 2022, 22, .	5.8	38
24	Thiazole-based chemosensor III: synthesis and fluorescence sensing of CH <sub>3</sub> CO <sub>2</sub> <sup>-</sup> based on inhibition of ESIPT. <i>Tetrahedron</i> , 2010, 66, 7097-7103.	1.9	34
25	New regioisomeric naphthol-thiazole based "turn-on" fluorescent chemosensor for Al <sup>3+</sup> . <i>Tetrahedron</i> , 2013, 69, 9600-9608.	1.9	34
26	Defect-engineering a metal-organic framework for CO <sub>2</sub> fixation in the synthesis of bioactive oxazolidinones. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3571-3577.	6.0	33
27	Sensing of Cyanide Using Highly Selective Thiazole-based Cu <sup>2+</sup> Chemosensor. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3123-3126.	1.9	32
28	Nickel based metal-organic framework as catalyst for chemical fixation of CO <sub>2</sub> in oxazolidinone synthesis. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 50, 101603.	6.8	30
29	The rhodium complex of bis(diphenylphosphinomethyl)dopamine-coated magnetic nanoparticles as an efficient and reusable catalyst for hydroformylation of olefins. <i>New Journal of Chemistry</i> , 2015, 39, 7293-7299.	2.8	29
30	Fluorescein-N-Methylimidazole Conjugate as Cu <sup>2+</sup> Sensor in Mixed Aqueous Media Through Electron Transfer. <i>Journal of Fluorescence</i> , 2016, 26, 1-9.	2.5	23
31	MB-UiO-66-NH <sub>2</sub> Metal-Organic Framework as Chromogenic and Fluorogenic Sensor for Hydrazine Hydrate in Aqueous Solution. <i>ChemistrySelect</i> , 2017, 2, 7630-7636.	1.5	23
32	Magnetic nanoparticle-supported ferrocenylphosphine: a reusable catalyst for hydroformylation of alkene and Mizoroki-Heck olefination. <i>RSC Advances</i> , 2016, 6, 41687-41695.	3.6	22
33	Hybrid polyMOF Materials Prepared by Combining an Organic Polymer with a MOF and Their Application for Solar Thermal Energy Storage. <i>Energy &amp; Fuels</i> , 2021, 35, 10199-10209.	5.1	22
34	Dual sensing of copper ion and chromium (VI) oxyanions by benzotriazole functionalized UiO-66 metal-organic framework in aqueous media. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112238.	3.9	20
35	Sub-nanometric Rh decorated magnetic nanoparticles as reusable catalysts for nitroarene reduction in water. <i>Catalysis Communications</i> , 2019, 119, 134-138.	3.3	19
36	Carbazole incorporated ratiometric chemosensor for Zn <sup>2+</sup> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 273-279.	3.9	18

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37	Propene Adsorption-Chemisorption Behaviors on H-SAPO-34 Zeolite Catalysts at Different Temperatures. <i>Catalysts</i> , 2019, 9, 919.	3.5	18
38	Pyridinyl Conjugate of UiO-66-NH <sub>2</sub> as Chemosensor for the Sequential Detection of Iron and Pyrophosphate Ion in Aqueous Media. <i>Chemosensors</i> , 2020, 8, 122.	3.6	17
39	A Simple and Direct Preparation of a Substrate-Free Interconnected Nanostructured Carbon Electrode from Date Palm Leaflets for Detecting Hydroquinone. <i>ChemistrySelect</i> , 2017, 2, 4787-4793.	1.5	16
40	Effect of Co(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O thermal decomposition temperature on the nano-Co <sub>3</sub> O <sub>4</sub> product morphology and electrocatalysis of water oxidation. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 251-259.	2.9	16
41	Fluorogenic assay of alkaline phosphatase activity based on the modulation of excited-state intramolecular proton transfer. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5541-5544.	2.2	12
42	Voltammetric ion-channel sensing of ammonium ion using self-assembled monolayers modified with ionophoric receptors. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 1026-1034.	7.8	12
43	Chalcopyrite UiO-67 metal-organic framework composite for CO <sub>2</sub> fixation as cyclic carbonates. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108061.	6.7	12
44	Schiff Base Ligand Coated Gold Nanoparticles for the Chemical Sensing of Fe(III) Ions. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	2.7	11
45	Fluorescence Sensing Properties of 2-(2'-Hydroxyphenyl)quinoline and Derivatives. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 1599-1603.	1.9	11
46	PdNPs@ZIF-8 Micro-Nanostructured Catalyst of Regioselective Mizoriki-Heck Olefination. <i>ChemistrySelect</i> , 2017, 2, 9052-9057.	1.5	9
47	Mixed Dimensional Nanostructure (UiO-66-Decorated MWCNT) as a Nanofiller in Mixed Matrix Membranes for Enhanced CO <sub>2</sub> /CH <sub>4</sub> Separation. <i>Chemistry - A European Journal</i> , 2021, 27, 11132-11140.	3.3	9
48	Multi Self-Healable UV Shielding Polyurethane/CeO <sub>2</sub> Protective Coating: The Effect of Low-Molecular-Weight Polyols. <i>Polymers</i> , 2020, 12, 1947.	4.5	8
49	Direct Electrodeposition of Nanogold on Gallium-Doped Zinc Oxide by Cyclic Voltammetry and Constant-Potential Techniques: Application to Electro-Oxidation of Sulfite. <i>Journal of the Electrochemical Society</i> , 2016, 163, D277-D281.	2.9	7
50	Molecular recognition of $\alpha$ -amino acids by thiazolobenzocrown receptors: a GABA-selective ionophore. <i>Supramolecular Chemistry</i> , 2013, 25, 16-23.	1.2	6
51	A 2D Graphitic-Polytriaminopyrimidine (g-PTAP)/Poly(ether-block-amide) Mixed Matrix Membrane for CO <sub>2</sub> Separation. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1839-1848.	3.3	6
52	Metal-organic framework coordinated with cobalt ion as charge recombination retarder in dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2022, 46, 9345-9357.	4.5	6
53	Fluorescein Hydrazide-Appended Metal-Organic Framework as a Chromogenic and Fluorogenic Chemosensor for Mercury Ions. <i>Molecules</i> , 2021, 26, 5773.	3.8	5
54	Europium doped Ni(BTC) metal-organic framework for detection of heteroaromatic compounds in mixed aqueous media. <i>Materials Research Bulletin</i> , 2022, 146, 111604.	5.2	5

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55	Energy Conversion Efficiency Enhancement of Polyethylene Glycol and a SiO <sub>2</sub> Composite Doped with Ni, Co, Zn, and Sc Oxides. ACS Omega, 2022, 7, 22657-22670.	3.5	5
56	Sequential Detection of Palladium and Chromium Oxyanion by a Fluorescein Based Chemosensor in Mixed Aqueous Media. Chemosensors, 2020, 8, 4.	3.6	4
57	Fluorescence Sensing Properties of Thiazolobenzo-crown Ether Incorporating Coumarin. Bulletin of the Korean Chemical Society, 2010, 31, 615-619.	1.9	4
58	UV-Protected Polyurethane/f-Oil Fly Ash-CeO <sub>2</sub> Coating: Effect of Pre-Mixing f-Oil Fly Ash-CeO <sub>2</sub> with Monomers. Polymers, 2021, 13, 3232.	4.5	3
59	Rh-Complex Supported on Magnetic Nanoparticles as Catalysts for Hydroformylations and Transfer Hydrogenation Reactions. Asian Journal of Organic Chemistry, 2022, 11, .	2.7	1