Katherine A Mirica

List of Publications by Year
in descending order

36	4,123	257450 24	361022 35
papers	citations	h-index	g-index

37	37	37	5103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unraveling the Electrical and Magnetic Properties of Layered Conductive Metalâ€Organic Framework With Atomic Precision. Angewandte Chemie, 2022, 134, e202113569.	2.0	14
2	Bimetallic Twoâ€Dimensional Metalâ€“Organic Frameworks for the Chemiresistive Detection of Carbon Monoxide. Angewandte Chemie, 2022, 134, e202113665.	2.0	5
3	Unraveling the Electrical and Magnetic Properties of Layered Conductive Metalâ€Organic Framework With Atomic Precision. Angewandte Chemie - International Edition, 2022, 61, .	13.8	27
4	Bimetallic Twoâ€Dimensional Metalâ€“Organic Frameworks for the Chemiresistive Detection of Carbon Monoxide. Angewandte Chemie - International Edition, 2022, 61, e202113665.	13.8	21
5	Two-dimensional d-Ï€ conjugated metal-organic framework based on hexahydroxytrinaphthylene. Nano Research, 2021, 14, 369-375.	10.4	49
6	Stimuli-responsive temporary adhesives: enabling debonding on demand through strategic molecular design. Chemical Science, 2021, 12, 15183-15205.	7.4	22
7	Covalent organic frameworks as multifunctional materials for chemical detection. Chemical Society Reviews, 2021, 50, 13498-13558.	38.1	114
8	Conductive Stimuli-Responsive Coordination Network Linked with Bismuth for Chemiresistive Gas Sensing. ACS Applied Materials & Interfaces, 2021, 13, 60306-60318.	8.0	8
9	Crystal Engineering of Molecular Solids as Temporary Adhesives. Chemistry of Materials, 2020, 32, 9882-9896.	6.7	9
10	Hierarchical Tuning of the Performance of Electrochemical Carbon Dioxide Reduction Using Conductive Two-Dimensional Metallophthalocyanine Based Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 21656-21669.	13.7	129
11	Molecular Engineering of Multifunctional Metallophthalocyanine-Containing Framework Materials. Chemistry of Materials, 2020, 32, 5372-5409.	6.7	24
12	Employing Conductive Metalâ€“Organic Frameworks for Voltammetric Detection of Neurochemicals. Journal of the American Chemical Society, 2020, 142, 11717-11733.	13.7	159
13	Hostâ€“Guest Interactions and Redox Activity in Layered Conductive Metalâ€“Organic Frameworks. Chemistry of Materials, 2020, 32, 7639-7652.	6.7	43
14	Two-Dimensional Chemiresistive Covalent Organic Framework with High Intrinsic Conductivity. Journal of the American Chemical Society, 2019, 141, 11929-11937.	13.7	313
15	Proton Conduction in 2D Aza-Fused Covalent Organic Frameworks. Chemistry of Materials, 2019, 31, 819-825.	6.7	181
16	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. Chemical Reviews, 2019, 119, 478-598.	47.7	521
17	Welding Metallophthalocyanines into Bimetallic Molecular Meshes for Ultrasensitive, Low-Power Chemiresistive Detection of Gases. Journal of the American Chemical Society, 2019, 141, 2046-2053.	13.7	225
18	Introduction: Chemical Sensors. Chemical Reviews, 2019, 119, 1-2.	47.7	36

#	Article	IF	Citations
19	3D Nanostructures by Stacking Patterned Membranes. , 2018, , .		0
20	Conductive Metalâ€“Organic Frameworks as Ion-to-Electron Transducers in Potentiometric Sensors. ACS Applied Materials & Interfaces, 2018, 10, 19248-19257.	8.0	101
21	Conductive two-dimensional metalâ€“organic frameworks as multifunctional materials. Chemical Communications, 2018, 54, 7873-7891.	4.1	373
22	Polycyclic Aromatic Hydrocarbons as Sublimable Adhesives. Chemistry of Materials, 2017, 29, 2788-2793.	6.7	8
23	Fabrication of Solid-State Gas Sensors by Drawing: An Undergraduate and High School Introduction to Functional Nanomaterials and Chemical Detection. Journal of Chemical Education, 2017, 94, 1933-1938.	2.3	9
24	Self-Organized Frameworks on Textiles (SOFT): Conductive Fabrics for Simultaneous Sensing, Capture, and Filtration of Gases. Journal of the American Chemical Society, 2017, 139, 16759-16767.	13.7	231
25	Porous Scaffolds for Electrochemically Controlled Reversible Capture and Release of Ethylene. Journal of the American Chemical Society, 2017, 139, 17229-17232.	13.7	51
26	Drawing Sensors with Ball-Milled Blends of Metal-Organic Frameworks and Graphite. Sensors, 2017, 17, 2192.	3.8	90
27	Direct Self-Assembly of Conductive Nanorods of Metalâ€“Organic Frameworks into Chemiresistive Devices on Shrinkable Polymer Films. Chemistry of Materials, 2016, 28, 5264-5268.	6.7	171
28	NanodrÃhte in Chemoâ€•und Biosensoren: aktueller Stand und Fahrplan fÃ¼r die Zukunft. Angewandte Chemie, 2016, 128, 1286-1302.	2.0	10
29	Nanowire Chemical/Biological Sensors: Status and a Roadmap for the Future. Angewandte Chemie - International Edition, 2016, 55, 1266-1281.	13.8	237
30	Employing Halogen Bonding Interactions in Chemiresistive Gas Sensors. ACS Sensors, 2016, 1, 115-119.	7.8	42
31	Wireless gas detection with a smartphone via rf communication. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18162-18166.	7.1	185
32	Fully-drawn carbon-based chemical sensors on organic and inorganic surfaces. Lab on A Chip, 2014, 14, 4059-4066.	6.0	34
33	Rapid prototyping of carbon-based chemiresistive gas sensors on paper. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3265-70.	7.1	137
34	Mechanical Drawing of Gas Sensors on Paper. Angewandte Chemie - International Edition, 2012, 51, 10740-10745.	13.8	152
35	Quantifying Colorimetric Assays in Paper-Based Microfluidic Devices by Measuring the Transmission of Light through Paper. Analytical Chemistry, 2009, 81, 8447-8452.	6.5	360
36	Photochemical Control of the Mechanical and Adhesive Properties of Crystalline Molecular Solids. Crystal Growth and Design, 0, , .	3.0	1