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	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. Chemical Reviews, 2019, 119, 478-598.	47.7	521
2	Conductive two-dimensional metalâ€“organic frameworks as multifunctional materials. Chemical Communications, 2018, 54, 7873-7891.	4.1	373
3	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
4	Two-Dimensional Chemiresistive Covalent Organic Framework with High Intrinsic Conductivity. Journal of the American Chemical Society, 2019, 141, 11929-11937.	13.7	313
5	Nanowire Chemical/Biological Sensors: Status and a Roadmap for the Future. Angewandte Chemie - International Edition, 2016, 55, 1266-1281.	13.8	237
6	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
7	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
8	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
9	Proton Conduction in 2D Aza-Fused Covalent Organic Frameworks. Chemistry of Materials, 2019, 31, 819-825.	6.7	181
10	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
11	Employing Conductive Metalâ€“Organic Frameworks for Voltammetric Detection of Neurochemicals. Journal of the American Chemical Society, 2020, 142, 11717-11733.	13.7	159
12	Mechanical Drawing of Gas Sensors on Paper. Angewandte Chemie - International Edition, 2012, 51, 10740-10745.	13.8	152
13	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
14	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
15	Covalent organic frameworks as multifunctional materials for chemical detection. Chemical Society Reviews, 2021, 50, 13498-13558.	38.1	114
16	Conductive Metalâ€“Organic Frameworks as Ion-to-Electron Transducers in Potentiometric Sensors. ACS Applied Materials & Interfaces, 2018, 10, 19248-19257.	8.0	101
17	Drawing Sensors with Ball-Milled Blends of Metal-Organic Frameworks and Graphite. Sensors, 2017, 17, 2192.	3.8	90
18	Porous Scaffolds for Electrochemically Controlled Reversible Capture and Release of Ethylene. Journal of the American Chemical Society, 2017, 139, 17229-17232.	13.7	51

#	Article	IF	Citations
19	Two-dimensional d-Ï€ conjugated metal-organic framework based on hexahydroxytrinaphthylene. Nano Research, 2021, 14, 369-375.	10.4	49
20	Hostâ€“Guest Interactions and Redox Activity in Layered Conductive Metalâ€“Organic Frameworks. Chemistry of Materials, 2020, 32, 7639-7652.	6.7	43
21	Employing Halogen Bonding Interactions in Chemiresistive Gas Sensors. ACS Sensors, 2016, 1, 115-119.	7.8	42
22	Introduction: Chemical Sensors. Chemical Reviews, 2019, 119, 1-2.	47.7	36
23	Fully-drawn carbon-based chemical sensors on organic and inorganic surfaces. Lab on A Chip, 2014, 14, 4059-4066.	6.0	34
24	Unraveling the Electrical and Magnetic Properties of Layered Conductive Metalâ€Organic Framework With Atomic Precision. Angewandte Chemie - International Edition, 2022, 61, .	13.8	27
25	Molecular Engineering of Multifunctional Metallophthalocyanine-Containing Framework Materials. Chemistry of Materials, 2020, 32, 5372-5409.	6.7	24
26	Stimuli-responsive temporary adhesives: enabling debonding on demand through strategic molecular design. Chemical Science, 2021, 12, 15183-15205.	7.4	22
27	Bimetallic Twoâ€Dimensional Metalâ€“Organic Frameworks for the Chemiresistive Detection of Carbon Monoxide. Angewandte Chemie - International Edition, 2022, 61, e202113665.	13.8	21
28	Unraveling the Electrical and Magnetic Properties of Layered Conductive Metalâ€Organic Framework With Atomic Precision. Angewandte Chemie, 2022, 134, e202113569.	2.0	14
29	NanodrÃhte in Chemoâ€•und Biosensoren: aktueller Stand und Fahrplan fÃ¼r die Zukunft. Angewandte Chemie, 2016, 128, 1286-1302.	2.0	10
30	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
31	Crystal Engineering of Molecular Solids as Temporary Adhesives. Chemistry of Materials, 2020, 32, 9882-9896.	6.7	9
32	Polycyclic Aromatic Hydrocarbons as Sublimable Adhesives. Chemistry of Materials, 2017, 29, 2788-2793.	6.7	8
33	Conductive Stimuli-Responsive Coordination Network Linked with Bismuth for Chemiresistive Gas Sensing. ACS Applied Materials & Interfaces, 2021, 13, 60306-60318.	8.0	8
34	Bimetallic Twoâ€Dimensional Metalâ€“Organic Frameworks for the Chemiresistive Detection of Carbon Monoxide. Angewandte Chemie, 2022, 134, e202113665.	2.0	5
35	Photochemical Control of the Mechanical and Adhesive Properties of Crystalline Molecular Solids. Crystal Growth and Design, 0, , .	3.0	1
36	3D Nanostructures by Stacking Patterned Membranes. , 2018, , .		0