

Valeriya Chernikova

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

17
papers

1,118
citations

14
h-index

21
g-index

21
ext. papers

1,382
ext. citations

8.3
avg, IF

4.64
L-index

#	Paper	IF	Citations
17	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. <i>Nature Materials</i> , 2018 , 17, 283-289	27	298
16	Advanced Fabrication Method for the Preparation of MOF Thin Films: Liquid-Phase Epitaxy Approach Meets Spin Coating Method. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20459-64	9.5	119
15	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H ₂ S and CO from Natural Gas. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14811-14816	16.4	111
14	Highly sensitive and selective SO ₂ MOF sensor: the integration of MFM-300 MOF as a sensitive layer on a capacitive interdigitated electrode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5550-5554	13	92
13	Insights on Capacitive Interdigitated Electrodes Coated with MOF Thin Films: Humidity and VOCs Sensing as a Case Study. <i>Sensors</i> , 2015 , 15, 18153-66	3.8	92
12	Enhanced CO/CH ₄ Separation Performance of a Mixed Matrix Membrane Based on Tailored MOF-Polymer Formulations. <i>Advanced Science</i> , 2018 , 5, 1800982	13.6	67
11	Zeolite-like Metal-Organic Framework (MOF) Encaged Pt(II)-Porphyrin for Anion-Selective Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11399-11405	9.5	56
10	Realization of an Ultrasensitive and Highly Selective OFET NO Sensor: The Synergistic Combination of PDVT-10 Polymer and Porphyrin-MOF. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18748-18760	9.5	45
9	Zeolite-like MOF nanocrystals incorporated 6FDA-polyimide mixed-matrix membranes for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2018 , 565, 186-193	9.6	44
8	Liquid phase epitaxial growth of heterostructured hierarchical MOF thin films. <i>Chemical Communications</i> , 2017 , 53, 6191-6194	5.8	43
7	Metal-Organic Framework Membranes: From Fabrication to Gas Separation. <i>Crystals</i> , 2018 , 8, 412	2.3	38
6	Nonlinear-Based MEMS Sensors and Active Switches for Gas Detection. <i>Sensors</i> , 2016 , 16,	3.8	31
5	A smart microelectromechanical sensor and switch triggered by gas. <i>Applied Physics Letters</i> , 2016 , 109, 013502	3.4	26
4	Nanoporous Fluorinated Metal-Organic Framework-Based Membranes for CO ₂ Capture. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6432-6439	5.6	25
3	Fully Integrated Organic Field-Effect Transistor Platform to Detect and to Quantify NO ₂ Gas. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000086	2.5	14
2	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H ₂ S and CO ₂ from Natural Gas. <i>Angewandte Chemie</i> , 2018 , 130, 15027-15032	3.6	10
1	The Mechanism of Low-Temperature Oxidation of Carbon Monoxide by Oxygen over the PdCl ₂ /CuCl ₂ /BAPO Nanocatalyst. <i>Nanomaterials</i> , 2018 , 8,	5.4	4

