

# Valeriya Chernikova

## List of Publications by Year in Descending Order

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

