

Destruction of chemical warfare agents using metal

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Citation Report

#	ARTICLE	IF	CITATIONS
5	Selective Photooxidation of a Mustardâ€‘Gas Simulant Catalyzed by a Porphyrinic Metalâ€‘Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9001-9005.	7.2	244
7	Hierarchical Pore Development by Plasma Etching of Zrâ€‘Based Metalâ€‘Organic Frameworks. <i>Chemistry - A European Journal</i> , 2015, 21, 18029-18032.	1.7	36
8	Copper Hydroxyl Nitrate/Graphite Oxide Composite as Superoxidant for the Decomposition/Mineralization of Organophosphateâ€‘Based Chemical Warfare Agent Surrogate. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500215.	1.9	30
10	Synthesis of nanocrystals of Zr-based metalâ€‘organic frameworks with csq-net: significant enhancement in the degradation of a nerve agent simulant. <i>Chemical Communications</i> , 2015, 51, 10925-10928.	2.2	194
11	Update 1 of: Destruction and Detection of Chemical Warfare Agents. <i>Chemical Reviews</i> , 2015, 115, PR1-PR76.	23.0	284
12	An Operando View of the Nanoscale. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4923-4926.	2.1	5
13	One Step Backward Is Two Steps Forward: Enhancing the Hydrolysis Rate of UiO-66 by Decreasing [OH ⁺]. <i>ACS Catalysis</i> , 2015, 5, 4637-4642.	5.5	84
14	Removal of chlorine gas by an amine functionalized metalâ€‘organic framework via electrophilic aromatic substitution. <i>Chemical Communications</i> , 2015, 51, 12474-12477.	2.2	66
15	Targeted Single-Site MOF Node Modification: Trivalent Metal Loading via Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015, 27, 4772-4778.	3.2	116
16	Water stabilization of Zr ₆ -based metalâ€‘organic frameworks via solvent-assisted ligand incorporation. <i>Chemical Science</i> , 2015, 6, 5172-5176.	3.7	102
17	When the Solvent Locks the Cage: Theoretical Insight into the Transmetalation of MOF-5 Lattices and Its Kinetic Limitations. <i>Chemistry of Materials</i> , 2015, 27, 3422-3429.	3.2	23
18	Puncturing cells en masse. <i>Nature Materials</i> , 2015, 14, 470-471.	13.3	3
19	Breaking bad chemicals down. <i>Nature Materials</i> , 2015, 14, 469-470.	13.3	10
20	Instantaneous Hydrolysis of Nerveâ€‘Agent Simulants with a Sixâ€‘Connected Zirconiumâ€‘Based Metalâ€‘Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6795-6799.	7.2	338
21	Towards the use of metalâ€‘organic frameworks for water reuse: a review of the recent advances in the field of organic pollutants removal and degradation and the next steps in the field. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22484-22506.	5.2	516
22	Effective, Facile, and Selective Hydrolysis of the Chemical Warfare Agent VX Using Zr ₆ -Based Metalâ€‘Organic Frameworks. <i>Inorganic Chemistry</i> , 2015, 54, 10829-10833.	1.9	132
23	Dual-Function Metalâ€‘Organic Framework as a Versatile Catalyst for Detoxifying Chemical Warfare Agent Simulants. <i>ACS Nano</i> , 2015, 9, 12358-12364.	7.3	207
24	Phosphine Gas Adsorption in a Series of Metalâ€‘Organic Frameworks. <i>Inorganic Chemistry</i> , 2015, 54, 8162-8164.	1.9	30

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25	Synthesis and Selective CO ₂ Capture Properties of a Series of Hexatopic Linker-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2015, 54, 10065-10072.	1.9	57
26	Gas-Phase Dimerization of Ethylene under Mild Conditions Catalyzed by MOF Materials Containing (bpy)Ni ^{II} Complexes. <i>ACS Catalysis</i> , 2015, 5, 6713-6718.	5.5	127
27	Structures and multiple properties of two polar metal-organic frameworks based on achiral N,O-coordinated ligands: toward multifunctional materials. <i>Dalton Transactions</i> , 2015, 44, 18882-18892.	1.6	25
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30	Ultraporous, Water Stable, and Breathing Zirconium-Based Metal-Organic Frameworks with ftw Topology. <i>Journal of the American Chemical Society</i> , 2015, 137, 13183-13190.	6.6	149
31	Design of Surface-Active Artificial Enzyme Particles to Stabilize Pickering Emulsions for High-Performance Biphasic Biocatalysis. <i>Advanced Materials</i> , 2016, 28, 1682-1688.	11.1	121
32	Assembly of a Metal-Organic Framework into 3D Hierarchical Porous Monoliths Using a Pickering High Internal Phase Emulsion Template. <i>Chemistry - A European Journal</i> , 2016, 22, 8751-8755.	1.7	80
33	Extraordinary NO ₂ Removal by the Metal-Organic Framework UiO-66-NH ₂ . <i>Angewandte Chemie</i> , 2016, 128, 6343-6346.	1.6	25
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36	Calcium Vapor Adsorption on the Metal-Organic Framework NU-1000: Structure and Energetics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16850-16862.	1.5	16
37	Vacancy-Engineered Nanoceria: Enzyme Mimetic Hotspots for the Degradation of Nerve Agents. <i>Angewandte Chemie</i> , 2016, 128, 1434-1438.	1.6	33
38	Reaction Mechanism of Nerve-Agent Decomposition with Zr-Based Metal Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29312-29323.	1.5	84
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40	Effect of Ag containing (nano)particles on reactive adsorption of mustard gas surrogate on iron oxyhydroxide/graphite oxide composites under visible light irradiation. <i>Chemical Engineering Journal</i> , 2016, 303, 123-136.	6.6	23
41	Facile preparation of chitosan enwrapping Fe ₃ O ₄ nanoparticles and MIL-101(Cr) magnetic composites for enhanced methyl orange adsorption. <i>Journal of Porous Materials</i> , 2016, 23, 1363-1372.	1.3	25
42	Towards metal-organic framework based field effect chemical sensors: UiO-66-NH ₂ for nerve agent detection. <i>Chemical Science</i> , 2016, 7, 5827-5832.	3.7	108

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44	Structural Transitions of the Metal-Oxide Nodes within Metal-Organic Frameworks: On the Local Structures of NU-1000 and UiO-66. <i>Journal of the American Chemical Society</i> , 2016, 138, 4178-4185.	6.6	108
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47	Preparation of Nanofibrous Metal-Organic Framework Filters for Efficient Air Pollution Control. <i>Journal of the American Chemical Society</i> , 2016, 138, 5785-5788.	6.6	574
48	Graphene/ZIF-8 composites with tunable hierarchical porosity and electrical conductivity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7710-7717.	5.2	117
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56	Template-Directed Synthesis of Porous and Protective Core-Shell Bionanoparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10691-10696.	7.2	118
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60	Complete Transmetalation in a Metal-Organic Framework by Metal Ion Metathesis in a Single Crystal for Selective Sensing of Phosphate Ions in Aqueous Media. <i>Angewandte Chemie</i> , 2016, 128, 11700-11704.	1.6	25
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67	Ultra-Fast Degradation of Chemical Warfare Agents Using MOF-Nanofiber Kebabs. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13224-13228.	7.2	179
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80	Broad-Spectrum Liquid- and Gas-Phase Decontamination of Chemical Warfare Agents by One-Dimensional Heteropolyniobates. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7403-7407.	7.2	101
81	Vacancy-Engineered Nanoceria: Enzyme Mimetic Hotspots for the Degradation of Nerve Agents. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1412-1416.	7.2	157
82	Extraordinary NO ₂ Removal by the Metal-Organic Framework UiO-66-NH ₂ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6235-6238.	7.2	160
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92	A Computational and Experimental Approach Linking Disorder, High-Pressure Behavior, and Mechanical Properties in UiO Frameworks. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2401-2405.	7.2	103
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97	Iron-based metal-organic framework, Fe(BTC): an effective dual-functional catalyst for oxidative cyclization of bisnaphthols and tandem synthesis of quinazolin-4(3H)-ones. <i>RSC Advances</i> , 2016, 6, 1136-1142.	1.7	55

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99	Efficient extraction of sulfate from water using a Zr-metal-organic framework. <i>Dalton Transactions</i> , 2016, 45, 93-97.	1.6	56
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111	Reactive adsorption of mustard gas surrogate on zirconium (hydr)oxide/graphite oxide composites: the role of surface and chemical features. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1008-1019.	5.2	57
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135	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8292-8296.	5.2	78
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137	Atomic-Level Structural Dynamics of Polyoxoniobates during DMMP Decomposition. <i>Scientific Reports</i> , 2017, 7, 773.	1.6	24
138	Effect of chemical structure of S-nitrosothiols on nitric oxide release mediated by the copper sites of a metal organic framework based environment. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11947-11959.	1.3	10
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