

Ulrich Ulmer

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

1,175
citations

623734

14
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

1619
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar Urea: Towards a Sustainable Fertilizer Industry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	37
2	Solar CO ₂ hydrogenation by photocatalytic foams. <i>Chemical Engineering Journal</i> , 2022, 435, 134864.	12.7	16
3	High-Performance, Scalable, and Low-Cost Copper Hydroxyapatite for Photothermal CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 13668-13681.	11.2	55
4	Shining light on CO ₂ : from materials discovery to photocatalyst, photoreactor and process engineering. <i>Chemical Society Reviews</i> , 2020, 49, 5648-5663.	38.1	91
5	Hybrid Photo- and Thermal Catalyst System for Continuous CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33613-33620.	8.0	22
6	Pd@H ₂ WO ₃ Nanowires Efficiently Catalyze the CO ₂ Heterogeneous Reduction Reaction with a Pronounced Light Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5610-5615.	8.0	52
7	Fundamentals and applications of photocatalytic CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 3169.	12.8	304
8	Cu ₂ O nanocubes with mixed oxidation-state facets for (photo)catalytic hydrogenation of carbon dioxide. <i>Nature Catalysis</i> , 2019, 2, 889-898.	34.4	234
9	Cu Atoms on Nanowire Pd/H ₂ WO ₃ Bronzes Enhance the Solar Reverse Water Gas Shift Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 14991-14996.	13.7	40
10	5th Anniversary Article: Towards Solar Methanol: Past, Present, and Future (<i>Adv. Sci.</i> 8/2019). <i>Advanced Science</i> , 2019, 6, 1970048.	11.2	0
11	Towards Solar Methanol: Past, Present, and Future. <i>Advanced Science</i> , 2019, 6, 1801903.	11.2	63
12	Performance Improvement of V ^{0.5} Fe ^{0.5} Cr ^{0.5} Ti Solid State Hydrogen Storage Materials in Impure Hydrogen Gas. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1662-1671.	8.0	14
13	Study of the structural, thermodynamic and cyclic effects of vanadium and titanium substitution in laves-phase AB ₂ hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20103-20110.	7.1	46
14	Thermochemical Energy Storage through De/Hydrogenation of Organic Liquids: Reactions of Organic Liquids on Metal Hydrides. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13993-14003.	8.0	11
15	Cost reduction possibilities of vanadium-based solid solutions ^{0.5} Microstructural, thermodynamic, cyclic and environmental effects of ferrovandium substitution. <i>Journal of Alloys and Compounds</i> , 2015, 648, 1024-1030.	5.5	31
16	Effect of oxygen on the microstructure and hydrogen storage properties of V ^{0.5} Ti ^{0.5} Cr ^{0.5} Fe quaternary solid solutions. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20000-20008.	7.1	22
17	Preparation, scale-up and testing of nanoscale, doped amide systems for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1439-1449.	7.1	11
18	Aging-related loss of the chromatin protein HMGB2 in articular cartilage is linked to reduced cellularity and osteoarthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1181-1186.	7.1	124