Carsten Walter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9008479/publications.pdf

Version: 2024-02-01

21 papers	1,986 citations	471061 17 h-index	713013 21 g-index
21 all docs	21 docs citations	21 times ranked	2747 citing authors

#	Article	IF	Citations
1	Uncovering the Nature of Active Species of Nickel Phosphide Catalysts in High-Performance Electrochemical Overall Water Splitting. ACS Catalysis, 2017, 7, 103-109.	5.5	350
2	A structurally versatile nickel phosphite acting as a robust bifunctional electrocatalyst for overall water splitting. Energy and Environmental Science, 2018, 11, 1287-1298.	15.6	205
3	Helical cobalt borophosphates to master durable overall water-splitting. Energy and Environmental Science, 2019, 12, 988-999.	15.6	179
4	Uncovering the prominent role of metal ions in octahedral versus tetrahedral sites of cobaltâ€“zinc oxide catalysts for efficient oxidation of water. Journal of Materials Chemistry A, 2016, 4, 10014-10022.	5.2	171
5	From a Molecular 2Feâ€2Se Precursor to a Highly Efficient Iron Diselenide Electrocatalyst for Overall Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 10506-10510.	7.2	167
6	A Cobaltâ€Based Amorphous Bifunctional Electrocatalysts for Waterâ€Splitting Evolved from a Singleâ€Source Lazulite Cobalt Phosphate. Advanced Functional Materials, 2019, 29, 1808632.	7.8	157
7	A Molecular Approach to Manganese Nitride Acting as a High Performance Electrocatalyst in the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2018, 57, 698-702.	7.2	145
8	Boosting Electrocatalytic Hydrogen Evolution Activity with a NiPt₃@NiS Heteronanostructure Evolved from a Molecular Nickelâ€“Platinum Precursor. Journal of the American Chemical Society, 2019, 141, 13306-13310.	6.6	119
9	Structurally Ordered Intermetallic Cobalt Stannide Nanocrystals for Highâ€Performance Electrocatalytic Overall Waterâ€Splitting. Angewandte Chemie - International Edition, 2018, 57, 15237-15242.	7.2	103
10	Perspective on intermetallics towards efficient electrocatalytic water-splitting. Chemical Science, 2021, 12, 8603-8631.	3.7	74
11	Boosting Water Oxidation through In Situ Electroconversion of Manganese Gallide: An Intermetallic Precursor Approach. Angewandte Chemie - International Edition, 2019, 58, 16569-16574.	7.2	60
12	Combination of Highly Efficient Electrocatalytic Water Oxidation with Selective Oxygenation of Organic Substrates using Manganese Borophosphates. Advanced Materials, 2021, 33, e2004098.	11.1	52
13	Structurally Ordered Intermetallic Cobalt Stannide Nanocrystals for Highâ€Performance Electrocatalytic Overall Waterâ€Splitting. Angewandte Chemie, 2018, 130, 15457-15462.	1.6	46
14	High Electromagnetic Field Enhancement of TiO₂ Nanotube Electrodes. Angewandte Chemie - International Edition, 2018, 57, 7225-7229.	7.2	43
15	A Molecular Approach to Manganese Nitride Acting as a High Performance Electrocatalyst in the Oxygen Evolution Reaction. Angewandte Chemie, 2018, 130, 706-710.	1.6	35
16	From a Molecular 2Feâ€2Se Precursor to a Highly Efficient Iron Diselenide Electrocatalyst for Overall Water Splitting. Angewandte Chemie, 2017, 129, 10642-10646.	1.6	31
17	Facile Formation of Nanostructured Manganese Oxide Films as Highâ€Performance Catalysts for the Oxygen Evolution Reaction. ChemSusChem, 2018, 11, 2554-2561.	3.6	19
18	Steigerung der Wasseroxidation durch Inâ€situâ€Elektrokonversion eines Mangangallids: Ein intermetallischer VorlÃuferansatz. Angewandte Chemie, 2019, 131, 16722-16727.	1.6	13

#	Article	IF	Citations
19	Hohe elektromagnetische FeldverstÃrkung in nanotubularen TiO₂â€Elektroden. Angewandte Chemie, 2018, 130, 7344-7348.	1.6	6
20	Use of Cellulose for the Production of Photocatalytic Films for Hydrogen Evolution Along the Lines of Paper Production. Energy Technology, 2022, 10, 2100525.	1.8	6
21	Manganese sulfide enables the formation of a highly active Î²-MnOOH electrocatalyst for effective alkaline water oxidation. Materials Today Chemistry, 2022, 24, 100905.	1.7	5