Manuel Gliech

List of Publications by Year
in descending order

29 papers	5,873 citations	279701 23 h-index	477173 29 g-index
30 all docs	30 docs citations	30 times ranked	7414 citing authors

#	Article	IF	Citations
1	Reversible amorphization and the catalytically active state of crystalline Co3O4 during oxygen evolution. Nature Communications, 2015, 6, 8625.	5.8	694
2	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	5.8	594
3	Tracking Catalyst Redox States and Reaction Dynamics in Niâ€“Fe Oxyhydroxide Oxygen Evolution Reaction Electrocatalysts: The Role of Catalyst Support and Electrolyte pH. Journal of the American Chemical Society, 2017, 139, 2070-2082.	6.6	518
4	Design Criteria, Operating Conditions, and Nickelâ€“Iron Hydroxide Catalyst Materials for Selective Seawater Electrolysis. ChemSusChem, 2016, 9, 962-972.	3.6	467
5	Electrochemical Catalystâ€“Support Effects and Their Stabilizing Role for IrO_{<i>x</i>} Nanoparticle Catalysts during the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2016, 138, 12552-12563.	6.6	451
6	A unique oxygen ligand environment facilitates water oxidation in hole-doped IrNiOx coreâ€“shell electrocatalysts. Nature Catalysis, 2018, 1, 841-851.	16.1	424
7	Unified structural motifs of the catalytically active state of Co(oxyhydr)oxides during the electrochemical oxygen evolution reaction. Nature Catalysis, 2018, 1, 711-719.	16.1	415
8	Ionomer distribution control in porous carbon-supported catalyst layers for high-power and low Pt-loaded proton exchange membrane fuel cells. Nature Materials, 2020, 19, 77-85.	13.3	400
9	Oxide-supported Ir nanodendrites with high activity and durability for the oxygen evolution reaction in acid PEM water electrolyzers. Chemical Science, 2015, 6, 3321-3328.	3.7	332
10	An efficient bifunctional two-component catalyst for oxygen reduction and oxygen evolution in reversible fuel cells, electrolyzers and rechargeable air electrodes. Energy and Environmental Science, 2016, 9, 2020-2024.	15.6	221
11	Direct Electrolytic Splitting of Seawater: Activity, Selectivity, Degradation, and Recovery Studied from the Molecular Catalyst Structure to the Electrolyzer Cell Level. Advanced Energy Materials, 2018, 8, 1800338.	10.2	185
12	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie - International Edition, 2021, 60, 14446-14457.	7.2	170
13	Tantalum Nitride Nanorod Arrays: Introducing Niâ€“Fe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. Chemistry of Materials, 2015, 27, 2360-2366.	3.2	158
14	Elemental Anisotropic Growth and Atomic-Scale Structure of Shape-Controlled Octahedral Ptâ€“Niâ€“Co Alloy Nanocatalysts. Nano Letters, 2015, 15, 7473-7480.	4.5	156
15	Electrocatalytic CO₂ Reduction on CuO_{<i>x</i>} Nanocubes: Tracking the Evolution of Chemical State, Geometric Structure, and Catalytic Selectivity using Operando Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 17974-17983.	7.2	138
16	Electrochemical processes on solid shaped nanoparticles with defined facets. Chemical Society Reviews, 2018, 47, 715-735.	18.7	129
17	Dynamical changes of a Ni-Fe oxide water splitting catalyst investigated at different pH. Catalysis Today, 2016, 262, 65-73.	2.2	86
18	The Effect of Surface Site Ensembles on the Activity and Selectivity of Ethanol Electrooxidation by Octahedral PtNiRh Nanoparticles. Angewandte Chemie - International Edition, 2017, 56, 6533-6538.	7.2	81

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19	Electrocatalytic CO₂ Reduction on CuO_{<i>x</i>} Nanocubes: Tracking the Evolution of Chemical State, Geometric Structure, and Catalytic Selectivity using Operando Spectroscopy. Angewandte Chemie, 2020, 132, 18130-18139.	1.6	45
20	Electrochemical Dealloying of Bimetallic ORR Nanoparticle Catalysts at Constant Electrode Potentials. Journal of the Electrochemical Society, 2015, 162, F403-F409.	1.3	40
21	pH-Induced versus Oxygen-Induced Surface Enrichment and Segregation Effects in Ptâ€“Ni Alloy Nanoparticle Fuel Cell Catalysts. ACS Catalysis, 2017, 7, 6376-6384.	5.5	40
22	Intrinsic Electrocatalytic Activity for Oxygen Evolution of Crystalline 3dâ€Transition Metal Layered Double Hydroxides. Angewandte Chemie, 2021, 133, 14567-14578.	1.6	30
23	The Effect of Surface Site Ensembles on the Activity and Selectivity of Ethanol Electrooxidation by Octahedral PtNiRh Nanoparticles. Angewandte Chemie, 2017, 129, 6633-6638.	1.6	25
24	Synthesisâ€“structure correlations of manganeseâ€“cobalt mixed metal oxide nanoparticles. Journal of Energy Chemistry, 2016, 25, 278-281.	7.1	23
25	Molecular Analysis of the Unusual Stability of an IrNbO<i>_x</i> Catalyst for the Electrochemical Water Oxidation to Molecular Oxygen (OER). ACS Applied Materials & Interfaces, 2021, 13, 3748-3761.	4.0	20
26	Comparative assessment of synthetic strategies toward active platinumâ€“rhodiumâ€“tin electrocatalysts for efficient ethanol electro-oxidation. Journal of Power Sources, 2015, 294, 299-304.	4.0	18
27	Supported metal oxide nanoparticle electrocatalysts: How immobilization affects catalytic performance. Applied Catalysis A: General, 2018, 568, 11-15.	2.2	7
28	Synthesis of Niâ€“SiO₂/C Supported Platinum Catalysts for Improved Electrochemical Activity Towards Ethanol Oxidation. Journal of Nanoscience and Nanotechnology, 2019, 19, 4590-4598.	0.9	4
29	Solute Incorporation at Oxideâ€“Oxide Interfaces Explains How Ternary Mixedâ€Metal Oxide Nanocrystals Support Elementâ€Specific Anisotropic Growth. Advanced Functional Materials, 2020, 30, 1909054.	7.8	2