John Mark Martirez

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7452121/publications.pdf

Version: 2024-02-01

36	2,608	236833	330025
papers	citations	25 h-index	37 g-index

37	37	37	3586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light-driven methane dry reforming with single atomic site antenna-reactor plasmonic photocatalysts. Nature Energy, 2020, 5, 61-70.	19.8	466
2	Heterometallic antennaâ^'reactor complexes for photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8916-8920.	3.3	381
3	Unraveling Oxygen Evolution on Iron-Doped Î²-Nickel Oxyhydroxide: The Key Role of Highly Active Molecular-like Sites. Journal of the American Chemical Society, 2019, 141, 693-705.	6.6	176
4	Chemical Pressure-Driven Enhancement of the Hydrogen Evolving Activity of Ni₂P from Nonmetal Surface Doping Interpreted via Machine Learning. Journal of the American Chemical Society, 2018, 140, 4678-4683.	6.6	145
5	Ferroelectrically driven spatial carrier density modulation in graphene. Nature Communications, 2015, 6, 6136.	5.8	142
6	Facet-Independent Oxygen Evolution Activity of Pure Î²-NiOOH: Different Chemistries Leading to Similar Overpotentials. Journal of the American Chemical Society, 2020, 142, 3600-3612.	6.6	114
7	Active Role of Phosphorus in the Hydrogen Evolving Activity of Nickel Phosphide (0001) Surfaces. ACS Catalysis, 2017, 7, 7718-7725.	5.5	104
8	Prediction of Highly Selective Electrocatalytic Nitrogen Reduction at Low Overpotential on a Mo-Doped g-GaN Monolayer. ACS Catalysis, 2020, 10, 12841-12857.	5.5	92
9	Why Do We Use the Materials and Operating Conditions We Use for Heterogeneous (Photo)Electrochemical Water Splitting?. ACS Catalysis, 2020, 10, 11177-11234.	5.5	89
10	Plasmonic Photocatalysis of Nitrous Oxide into N₂ and O₂ Using Aluminumâ€“Iridium Antennaâ€“Reactor Nanoparticles. ACS Nano, 2019, 13, 8076-8086.	7.3	83
11	Excited-State N₂ Dissociation Pathway on Fe-Functionalized Au. Journal of the American Chemical Society, 2017, 139, 4390-4398.	6.6	76
12	Prediction of a low-temperature N ₂ dissociation catalyst exploiting near-IRâ€“toâ€“visible light nanoplasmonics. Science Advances, 2017, 3, eaao4710.	4.7	74
13	Revisiting Understanding of Electrochemical CO₂ Reduction on Cu(111): Competing Proton-Coupled Electron Transfer Reaction Mechanisms Revealed by Embedded Correlated Wavefunction Theory. Journal of the American Chemical Society, 2021, 143, 6152-6164.	6.6	65
14	Synergistic Oxygen Evolving Activity of a TiO₂-Rich Reconstructed SrTiO₃(001) Surface. Journal of the American Chemical Society, 2015, 137, 2939-2947.	6.6	58
15	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>(001)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo		

#	Article	IF	Citations
19	Effects of the Aqueous Environment on the Stability and Chemistry of Î²-NiOOH Surfaces. Chemistry of Materials, 2018, 30, 5205-5219.	3.2	41
20	First-Principles Insights into Plasmon-Induced Catalysis. Annual Review of Physical Chemistry, 2021, 72, 99-119.	4.8	41
21	Thermodynamic Constraints in Using AuM (M = Fe, Co, Ni, and Mo) Alloys as N₂ Dissociation Catalysts: Functionalizing a Plasmon-Active Metal. ACS Nano, 2016, 10, 2940-2949.	7.3	40
22	Strong Reciprocal Interaction between Polarization and Surface Stoichiometry in Oxide Ferroelectrics. Nano Letters, 2014, 14, 6711-6717.	4.5	37
23	Effect of transition-metal-ion dopants on the oxygen evolution reaction on NiOOH(0001). Physical Chemistry Chemical Physics, 2018, 20, 19525-19531.	1.3	33
24	Noninnocent Influence of Host Î²-NiOOH Redox Activity on Transition-Metal Dopantsâ€™ Efficacy as Active Sites in Electrocatalytic Water Oxidation. ACS Catalysis, 2020, 10, 2720-2734.	5.5	32
25	Theoretical Model of Oxidative Adsorption of Water on a Highly Reduced Reconstructed Oxide Surface. Journal of Physical Chemistry Letters, 2014, 5, 3408-3414.	2.1	25
26	Benchmarking an Embedded Adaptive Sampling Configuration Interaction Method for Surface Reactions: H₂ Desorption from and CH₄ Dissociation on Cu(111). Journal of Chemical Theory and Computation, 2020, 16, 7078-7088.	2.3	23
27	Coexisting Surface Phases and Coherent One-Dimensional Interfaces on BaTiO₃(001). ACS Nano, 2014, 8, 4465-4473.	7.3	20
28	Secondary Transition-Metal Dopants for Enhanced Electrochemical O2 Formation and Desorption on Fe-Doped Î²-NiOOH. ACS Energy Letters, 2020, 5, 962-967.	8.8	14
29	Coupled Effects of Temperature, Pressure, and pH on Water Oxidation Thermodynamics and Kinetics. ACS Catalysis, 2021, 11, 11305-11319.	5.5	9
30	Thermodynamic Evaluation of Trace-Amount Transition-Metal-Ion Doping in NiOOH Films. Journal of the Electrochemical Society, 2018, 165, F907-F913.	1.3	7
31	Precise Control of Nanoscale Cu Etching via Gas-Phase Oxidation and Chemical Complexation. Journal of Physical Chemistry C, 2021, 125, 1819-1832.	1.5	7
32	Metal-to-Ligand Charge-Transfer Spectrum of a Ru-Bipyridine-Sensitized TiO₂ Cluster from Embedded Multiconfigurational Excited-State Theory. Journal of Physical Chemistry A, 2021, 125, 4998-5013.	1.1	5
33	Identifying an Alternative Hydride Transfer Pathway for CO ₂ Reduction on CdTe(111) and CuInS ₂ (112) Surfaces. Advanced Theory and Simulations, 2022, 5, 2100413.	1.3	5
34	Relationship between ferroelectric polarization and stoichiometry of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>HfO</mml:mi><mml:mn>2</mml:mn></mml:msub></mm surfaces. Physical Review Materials, 2021, 5, .	0.9	4
35	Self-assembling of formic acid on the partially oxidizedp(2 Ã— 1) Cu(110) surface reconstruction at low coverages. Journal of Chemical Physics, 2019, 150, 041720.	1.2	3
36	Projector-Free Capped-Fragment Scheme within Density Functional Embedding Theory for Covalent and Ionic Compounds. Journal of Chemical Theory and Computation, 2021, 17, 4105-4121.	2.3	3