John Mark Martirez

List of Publications by Year
in descending order

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

236833

330025

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

#	Article	IF	Citations
1	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
2	First-Principles Insights into Plasmon-Induced Catalysis. Annual Review of Physical Chemistry, 2021, 72, 99-119.	4.8	41
3	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
4	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
5	Hot carrier multiplication in plasmonic photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
6	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
7	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
8	Coupled Effects of Temperature, Pressure, and pH on Water Oxidation Thermodynamics and Kinetics. ACS Catalysis, 2021, 11, 11305-11319.	5.5	9
9	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></m surfaces. Physical Review Materials, 2021, 5, .	0.9	4
10	Light-driven methane dry reforming with single atomic site antenna-reactor plasmonic photocatalysts. Nature Energy, 2020, 5, 61-70.	19.8	466
11	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
12	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
13	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
14	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
15	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
16	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
17	Plasmonic Photocatalysis of Nitrous Oxide into N₂ and O₂ Using Aluminumâ€“Iridium Antennaâ€“Reactor Nanoparticles. ACS Nano, 2019, 13, 8076-8086.	7.3	83
18	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

#	Article	IF	Citations
19	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
20	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
21	Thermodynamic Evaluation of Trace-Amount Transition-Metal-Ion Doping in NiOOH Films. Journal of the Electrochemical Society, 2018, 165, F907-F913.	1.3	7
22	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
23	Effects of the Aqueous Environment on the Stability and Chemistry of Î²-NiOOH Surfaces. Chemistry of Materials, 2018, 30, 5205-5219.	3.2	41
24	Understanding the apparent fractional charge of protons in the aqueous electrochemical double layer. Nature Communications, 2018, 9, 3202.	5.8	47
25	Excited-State N₂ Dissociation Pathway on Fe-Functionalized Au. Journal of the American Chemical Society, 2017, 139, 4390-4398.	6.6	76
26	Active Role of Phosphorus in the Hydrogen Evolving Activity of Nickel Phosphide (0001) Surfaces. ACS Catalysis, 2017, 7, 7718-7725.	5.5	104
27	Prediction of a low-temperature N ₂ dissociation catalyst exploiting near-IRâ€“toâ€“visible light nanoplasmonics. Science Advances, 2017, 3, eaao4710.	4.7	74
28	Heterometallic antennaâˆ'reactor complexes for photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8916-8920.	3.3	381
29	Stable Phosphorus-Enriched (0001) Surfaces of Nickel Phosphides. Chemistry of Materials, 2016, 28, 5365-5372.	3.2	48
30	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
31	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
32	Ferroelectrically driven spatial carrier density modulation in graphene. Nature Communications, 2015, 6, 6136.	5.8	142
33	Strong Reciprocal Interaction between Polarization and Surface Stoichiometry in Oxide Ferroelectrics. Nano Letters, 2014, 14, 6711-6717.	4.5	37
34	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
35	Coexisting Surface Phases and Coherent One-Dimensional Interfaces on BaTiO₃(001). ACS Nano, 2014, 8, 4465-4473.	7.3	20
36	Atomic and Electronic Structure of the<mml:math 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		