Eric Garfunkel

List of Publications by Year
in descending order

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Version: 2024-02-01

33 papers	2,412 citations	394421 19 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	4194 citing authors

#	Article	IF	Citations
1	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	39.5	621
2	P-Doped Porous Carbon as Metal Free Catalysts for Selective Aerobic Oxidation with an Unexpected Mechanism. ACS Nano, 2016, 10, 2305-2315.	14.6	276
3	Climbing the Volcano of Electrocatalytic Activity while Avoiding Catalyst Corrosion: Ni₃P, a Hydrogen Evolution Electrocatalyst Stable in Both Acid and Alkali. ACS Catalysis, 2018, 8, 4408-4419.	11.2	178
4	Selective CO₂reduction to C₃and C₄oxyhydrocarbons on nickel phosphides at overpotentials as low as 10 mV. Energy and Environmental Science, 2018, 11, 2550-2559.	30.8	165
5	Coordination Geometry and Oxidation State Requirements of Corner-Sharing MnO₆ Octahedra for Water Oxidation Catalysis: An Investigation of Manganite (Î³-MnOOH). ACS Catalysis, 2016, 6, 2089-2099.	11.2	156
6	Graphene-Catalyzed Direct Friedelâ€“Crafts Alkylation Reactions: Mechanism, Selectivity, and Synthetic Utility. Journal of the American Chemical Society, 2015, 137, 14473-14480.	13.7	147
7	Doping of Conjugated Polythiophenes with Alkyl Silanes. Advanced Functional Materials, 2009, 19, 1906-1911.	14.9	107
8	Microwave Enabled Oneâ€Pot, Oneâ€Step Fabrication and Nitrogen Doping of Holey Graphene Oxide for Catalytic Applications. Small, 2015, 11, 3358-3368.	10.0	106
9	Effects of Mg on the electrical characteristics and thermal stability of MgxZn1â^'xO thin film transistors. Applied Physics Letters, 2011, 98, .	3.3	103
10	Reduction of persistent photoconductivity in ZnO thin film transistor-based UV photodetector. Applied Physics Letters, 2012, 101, .	3.3	72
11	Lanthanum silicate gate dielectric stacks with subnanometer equivalent oxide thickness utilizing an interfacial silica consumption reaction. Journal of Applied Physics, 2005, 98, 024314.	2.5	69
12	Reduction of native oxides on GaAs during atomic layer growth of Al2O3. Applied Physics Letters, 2009, 94, .	3.3	67
13	Growth of ultrathin crystalline Al2O3 films on Ru(0001) and Re(0001) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2554-2563.	2.1	54
14	Oxygen Incorporation in Rubrene Single Crystals. Scientific Reports, 2014, 4, 4753.	3.3	34
15	Photoinduced charge transfer between poly(3-hexylthiophene) and germanium nanowires. Applied Physics Letters, 2007, 91, 183501.	3.3	30
16	Synergy of oxygen and a piranha solution for eco-friendly production of highly conductive graphene dispersions. Green Chemistry, 2015, 17, 869-881.	9.0	27
17	CO2 electro-reduction on Cu3P: Role of Cu(I) oxidation state and surface facet structure in C1-formate production and H2 selectivity. Electrochimica Acta, 2021, 391, 138889.	5.2	27
18	Two-Dimensional Copper Iodide-Based Inorganicâ€“Organic Hybrid Semiconductors: Synthesis, Structures, and Optical and Transport Properties. Chemistry of Materials, 2021, 33, 5317-5325.	6.7	26

#	Article	IF	Citations
19	Creating stable interfaces between reactive materials: titanium nitride protects photoabsorberâ€“catalyst interface in water-splitting photocathodes. Journal of Materials Chemistry A, 2019, 7, 2400-2411.	10.3	25
20	Enhancing interfacial charge transfer in a WO₃/BiVO₄ photoanode heterojunction through gallium and tungsten co-doping and a sulfur modified Bi₂O₃ interfacial layer. Journal of Materials Chemistry A, 2021, 9, 16137-16149.	10.3	22
21	GeOx interface layer reduction upon Al-gate deposition on a HfO2âˆ•GeOxâˆ•Ge(001) stack. Applied Physics Letters, 2008, 92, 172906.	3.3	17
22	Graphene oxide catalyzed ketone Î±-alkylation with alkenes: enhancement of graphene oxide activity by hydrogen bonding. Chemical Communications, 2019, 55, 5379-5382.	4.1	17
23	A mixed Cuâ€“Ni bridge site for CO adsorption. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 1579-1584.	2.1	14
24	Effect of nitrogen passivation on interface composition and physical stress in SiO2/SiC(4H) structures. Applied Physics Letters, 2018, 113, .	3.3	12
25	Variability in Bioreactivity Linked to Changes in Size and Zeta Potential of Diesel Exhaust Particles in Human Immune Cells. PLoS ONE, 2014, 9, e97304.	2.5	12
26	Highly efficient and durable IIIâ€“V semiconductor-catalyst photocathodes via a transparent protection layer. Sustainable Energy and Fuels, 2020, 4, 1437-1442.	4.9	9
27	Microwave-Enabled Incorporation of Single Atomic Cu Catalytic Sites in Holey Graphene: Unifying Structural Requirements of a Carbon Matrix for Simultaneous Achievement of High Activity and Long-Term Durability. ACS Applied Energy Materials, 2020, 3, 8266-8275.	5.1	9
28	Nanoscale Internal Fields in a Biased Grapheneâ€“Insulatorâ€“Semiconductor Structure. Journal of Physical Chemistry Letters, 2016, 7, 3434-3439.	4.6	5
29	Lowâ€Loss Tunable Infrared Plasmons in the Highâ€Mobility Perovskite (Ba,La)SnO₃. Small, 2022, 18, e2106897.	10.0	3
30	Graphene: Microwave Enabled One-Pot, One-Step Fabrication and Nitrogen Doping of Holey Graphene Oxide for Catalytic Applications (Small 27/2015). Small, 2015, 11, 3357-3357.	10.0	1
31	Creating Functional Oxynitrideâ€“Silicon Interfaces and SrNbO₂N Thin Films for Photoelectrochemical Applications. Journal of Physical Chemistry C, 2022, 126, 5970-5979.	3.1	1
32	A new planar defect in SiGe nanopillars. Microscopy and Microanalysis, 2021, 27, 1948-1949.	0.4	0
33	Quantify doping efficiency at the nanoscale using monochromated STEM-EELS. Microscopy and Microanalysis, 2021, 27, 310-311.	0.4	0