Sagar Prabhudev

List of Publications by Year
in descending order

27	667	686830 13	610482 24
papers	citations	h-index	g-index

29	29	29	1404
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ptâ€“Auâ€“Co Alloy Electrocatalysts Demonstrating Enhanced Activity and Durability toward the Oxygen Reduction Reaction. ACS Catalysis, 2015, 5, 1513-1524.	5.5	106
2	In Situ Liquid Cell TEM Study of Morphological Evolution and Degradation of Ptâ€“Fe Nanocatalysts During Potential Cycling. Journal of Physical Chemistry C, 2014, 118, 22111-22119.	1.5	103
3	Strained Lattice with Persistent Atomic Order in Pt₃Fe₂ Intermetallic Coreâ€“Shell Nanocatalysts. ACS Nano, 2013, 7, 6103-6110.	7.3	95
4	Nano- and Microstructure Engineering: An Effective Method for Creating High Efficiency Magnesium Silicide Based Thermoelectrics. ACS Applied Materials & Interfaces, 2016, 8, 34431-34437.	4.0	58
5	Uncovering the nature of electroactive sites in nano architectured dendritic Bi for highly efficient CO2 electroreduction to formate. Applied Catalysis B: Environmental, 2020, 274, 119031.	10.8	46
6	Effect of oxides on the reaction kinetics during hot-dip galvanizing of high strength steels. Corrosion Science, 2011, 53, 2413-2418.	3.0	27
7	Europium-doped ZnO nanosponges â€“ controlling optical properties and photocatalytic activity. Journal of Materials Chemistry C, 2019, 7, 3909-3919.	2.7	27
8	Surface Segregation of Fe in Ptâ€“Fe Alloy Nanoparticles: Its Precedence and Effect on the Orderedâ€Phase Evolution during Thermal Annealing. ChemCatChem, 2015, 7, 3655-3664.	1.8	25
9	Enhanced figure of merit in Mg₂Si_{0.877}Ge_{0.1}Bi_{0.023}/multi wall carbon nanotube nanocomposites. RSC Advances, 2015, 5, 65328-65336.	1.7	20
10	Local structure and thermoelectric properties of Mg2Si0.977â˜Ge Bi0.023 (0.1 â©½xâ©½ 0.4). Journal of Alloys and Compounds, 2015, 644, 249-255.	2.8	19
11	Synthesis and structural evolution of Pt nanotubular skeletons: revealing the source of the instability of nanostructured electrocatalysts. Journal of Materials Chemistry A, 2015, 3, 12663-12671.	5.2	19
12	Effect of Silicon Carbide Nanoparticles on the Grain Boundary Segregation and Thermoelectric Properties of Bismuth Doped Mg2Si0.7Ge0.3. Journal of Electronic Materials, 2016, 45, 6052-6058.	1.0	19
13	Porous RuO_xN_yS_z Electrodes for Microsupercapacitors and Microbatteries with Enhanced Areal Performance. ACS Energy Letters, 2021, 6, 131-139.	8.8	19
14	Biomimetic design of monolithic fuel cell electrodes with hierarchical structures. Nano Energy, 2016, 20, 57-67.	8.2	13
15	Electrochemical promotion of Bi-metallic Ni9Pd core double-shell nanoparticles for complete methane oxidation. Journal of Catalysis, 2019, 374, 127-135.	3.1	13
16	Rethinking Pseudocapacitance: A Way to Harness Charge Storage of Crystalline RuO₂. ACS Applied Energy Materials, 2020, 3, 4144-4148.	2.5	11
17	Amorphous Ni-Based Nanoparticles for Alkaline Oxygen Evolution. ACS Applied Nano Materials, 2020, 3, 10522-10530.	2.4	10
18	Bulk Immiscibility at the Edge of the Nanoscale. ACS Nano, 2017, 11, 10984-10991.	7.3	8

#	Article	IF	Citations
19	Probing electrochemical surface/interfacial reactions with liquid cell transmission electron microscopy: a challenge or an opportunity?. Current Opinion in Electrochemistry, 2020, 23, 114-122.	2.5	8
20	Deposition and morphological evolution of nanostructured palladium during potential cycling: a liquid-cell TEM study. Chemical Communications, 2019, 55, 9204-9207.	2.2	6
21	Resolution of conflicting views on thermodynamics of glass transition: A unified model. Bulletin of Materials Science, 2010, 33, 603-609.	0.8	5
22	Vertically Aligned Ni Nanowires as a Platform for Kinetically Limited Water-Splitting Electrocatalysis. Journal of Physical Chemistry C, 2019, 123, 1082-1093.	1.5	5
23	Analytical Electron Microscopy. Springer Handbooks, 2019, , 345-453.	0.3	4
24	Machine-Learning Aided Evolution Studies of Nano-composite Electrodes and Nano-particle Catalysts for Fuel Cell Applications. Microscopy and Microanalysis, 2015, 21, 1063-1066.	0.2	1
25	Surface Segregation of Fe in Pt-Fe Alloy Nanoparticles: Its Precedence and Effect on the Ordered-Phase Evolution during Thermal Annealing. ChemCatChem, 2015, 7, 3597-3597.	1.8	0
26	Atomic Resolution Imaging and Spectroscopy of Pt-alloy Electrocatalytic Nanoparticles. Microscopy and Microanalysis, 2015, 21, 2247-2248.	0.2	0
27	Regeneration of Reactive Pd Surfaces in Au-Pd Nanoparticles after Electrochemical Aging. ECS Meeting Abstracts, 2020, MA2020-01, 2665-2665.	0.0	0