Sing Yang Chiam

List of Publications by Year
in descending order

19	545	840776 11	794594 19
papers	citations	h-index	g-index

19	19	19	1060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced CO₂ sorption in a hybrid PEIâ€“Mo oxide film via pulsed electrodeposition. Materials Advances, 2022, 3, 5510-5520.	5.4	1
2	Direct control of defects in molybdenum oxide and understanding their high CO₂ sorption performance. Journal of Materials Chemistry A, 2020, 8, 12576-12585.	10.3	5
3	Electrodeposited Copper Micropillar Surfaces with Pulse Reverse Voltammetry for Enhanced Heat Dissipation. ACS Applied Electronic Materials, 2020, 2, 1041-1047.	4.3	7
4	Metal-Assisted Silicon Chemical Etching Using Self-Assembled Sacrificial Nickel Nanoparticles Template for Antireflection Layers in Photovoltaic and Light-Trapping Devices. ACS Applied Nano Materials, 2019, 2, 7025-7031.	5.0	9
5	Ruthenâ€“Tungsten Composite Catalyst for the Efficient and Contamination-Resistant Electrochemical Evolution of Hydrogen. ACS Applied Materials & Interfaces, 2018, 10, 6354-6360.	8.0	51
6	Self-Anchored Catalyst Interface Enables Ordered Via Array Formation from Submicrometer to Millimeter Scale for Polycrystalline and Single-Crystalline Silicon. ACS Applied Materials & Interfaces, 2018, 10, 9116-9122.	8.0	26
7	Minimizing Isolate Catalyst Motion in Metal-Assisted Chemical Etching for Deep Trenching of Silicon Nanohole Array. ACS Applied Materials & Interfaces, 2017, 9, 20981-20990.	8.0	33
8	Ultralow Thermal Conductivity of Singleâ€Crystalline Porous Silicon Nanowires. Advanced Functional Materials, 2017, 27, 1702824.	14.9	47
9	Damage-Free Smooth-Sidewall InGaAs Nanopillar Array by Metal-Assisted Chemical Etching. ACS Nano, 2017, 11, 10193-10205.	14.6	36
10	Evidences for redox reaction driven charge transfer and mass transport in metal-assisted chemical etching of silicon. Scientific Reports, 2016, 6, 36582.	3.3	34
11	Immobilization of dye pollutants on iron hydroxide coated substrates: kinetics, efficiency and the adsorption mechanism. Journal of Materials Chemistry A, 2016, 4, 13280-13288.	10.3	51
12	Detrimental Effects of Oxygen Vacancies in Electrochromic Molybdenum Oxide. Journal of Physical Chemistry C, 2015, 119, 10592-10601.	3.1	42
13	Nanostructuring of Nickel Hydroxide via a Template Solution Approach for Efficient Electrochemical Devices. Small, 2014, 10, 2611-2617.	10.0	12
14	The role of ions and reaction sites for electrochemical reversible charge cycling in mesoporous nickel hydroxides. Journal of Materials Chemistry A, 2013, 1, 15095.	10.3	11
15	Band gap, band offsets and dielectric constant improvement by addition of yttrium into lanthanum aluminate. Thin Solid Films, 2013, 534, 177-182.	1.8	4
16	The coloration and degradation mechanisms of electrochromic nickel oxide. Solar Energy Materials and Solar Cells, 2013, 116, 83-88.	6.2	82
17	Interfacial-layer-free growth of yttrium oxide on germanium by understanding initial surface reactions. Surface Science, 2012, 606, 1638-1642.	1.9	7
18	Effects of electric field in band alignment measurements using photoelectron spectroscopy. Surface and Interface Analysis, 2012, 44, 1091-1095.	1.8	4

#	Article	IF	Citations
19	Fabrication of Silicon Nanowires with Precise Diameter Control Using Metal Nanodot Arrays as a Hard Mask Blocking Material in Chemical Etching. Chemistry of Materials, 2010, 22, 4111-4116.	6.7	83