

Sing Yang Chiam

List of Publications by Year in descending order

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19
papers

545
citations

840776

11
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

1060
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Silicon Nanowires with Precise Diameter Control Using Metal Nanodot Arrays as a Hard Mask Blocking Material in Chemical Etching. <i>Chemistry of Materials</i> , 2010, 22, 4111-4116.	6.7	83
2	The coloration and degradation mechanisms of electrochromic nickel oxide. <i>Solar Energy Materials and Solar Cells</i> , 2013, 116, 83-88.	6.2	82
3	Immobilization of dye pollutants on iron hydroxide coated substrates: kinetics, efficiency and the adsorption mechanism. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13280-13288.	10.3	51
4	Ruthenium-Tungsten Composite Catalyst for the Efficient and Contamination-Resistant Electrochemical Evolution of Hydrogen. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6354-6360.	8.0	51
5	Ultralow Thermal Conductivity of Single-Crystalline Porous Silicon Nanowires. <i>Advanced Functional Materials</i> , 2017, 27, 1702824.	14.9	47
6	Detrimental Effects of Oxygen Vacancies in Electrochromic Molybdenum Oxide. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10592-10601.	3.1	42
7	Damage-Free Smooth-Sidewall InGaAs Nanopillar Array by Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2017, 11, 10193-10205.	14.6	36
8	Evidences for redox reaction driven charge transfer and mass transport in metal-assisted chemical etching of silicon. <i>Scientific Reports</i> , 2016, 6, 36582.	3.3	34
9	Minimizing Isolate Catalyst Motion in Metal-Assisted Chemical Etching for Deep Trenching of Silicon Nanohole Array. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20981-20990.	8.0	33
10	Self-Anchored Catalyst Interface Enables Ordered Via Array Formation from Submicrometer to Millimeter Scale for Polycrystalline and Single-Crystalline Silicon. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9116-9122.	8.0	26
11	Nanostructuring of Nickel Hydroxide via a Template Solution Approach for Efficient Electrochemical Devices. <i>Small</i> , 2014, 10, 2611-2617.	10.0	12
12	The role of ions and reaction sites for electrochemical reversible charge cycling in mesoporous nickel hydroxides. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15095.	10.3	11
13	Metal-Assisted Silicon Chemical Etching Using Self-Assembled Sacrificial Nickel Nanoparticles Template for Antireflection Layers in Photovoltaic and Light-Trapping Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 7025-7031.	5.0	9
14	Interfacial-layer-free growth of yttrium oxide on germanium by understanding initial surface reactions. <i>Surface Science</i> , 2012, 606, 1638-1642.	1.9	7
15	Electrodeposited Copper Micropillar Surfaces with Pulse Reverse Voltammetry for Enhanced Heat Dissipation. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1041-1047.	4.3	7
16	Direct control of defects in molybdenum oxide and understanding their high CO ₂ sorption performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12576-12585.	10.3	5
17	Effects of electric field in band alignment measurements using photoelectron spectroscopy. <i>Surface and Interface Analysis</i> , 2012, 44, 1091-1095.	1.8	4
18	Band gap, band offsets and dielectric constant improvement by addition of yttrium into lanthanum aluminate. <i>Thin Solid Films</i> , 2013, 534, 177-182.	1.8	4

#	ARTICLE	IF	CITATIONS
19	Enhanced CO ₂ sorption in a hybrid PEI@Mo oxide film <i>via</i> pulsed electrodeposition. <i>Materials Advances</i> , 2022, 3, 5510-5520.	5.4	1