

Ilwhan Oh

List of Publications by Year in descending order

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26
papers

3,454
citations

567281

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610901

24
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all docs

26
docs citations

26
times ranked

5487
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered nanoporous arrays of carbon supporting high dispersions of platinum nanoparticles. <i>Nature</i> , 2001, 412, 169-172.	27.8	2,439
2	Enhanced Photoelectrochemical Hydrogen Production from Silicon Nanowire Array Photocathode. <i>Nano Letters</i> , 2012, 12, 298-302.	9.1	297
3	Layered 2D alkylammonium lead iodide perovskites: synthesis, characterization, and use in solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15638-15646.	10.3	170
4	Platinum Monolayer Electrocatalyst on Gold Nanostructures on Silicon for Photoelectrochemical Hydrogen Evolution. <i>ACS Nano</i> , 2013, 7, 6017-6023.	14.6	95
5	Integrated Photoelectrolysis of Water Implemented On Organic Metal Halide Perovskite Photoelectrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11904-11909.	8.0	72
6	Ultrastable Photoelectrodes for Solar Water Splitting Based on Organic Metal Halide Perovskite Fabricated by Lift-Off Process. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14659-14664.	8.0	61
7	Volatile organic compound gas sensors based on methylammonium lead iodide perovskite operating at room temperature. <i>RSC Advances</i> , 2020, 10, 12982-12987.	3.6	48
8	Electrodeposition of Epitaxial Cu(111) Thin Films on Au(111) Using Defect-Mediated Growth. <i>Journal of the American Chemical Society</i> , 2001, 123, 7176-7177.	13.7	40
9	Ion and water transports in Prussian blue films investigated with electrochemical quartz crystal microbalance. <i>Electrochemistry Communications</i> , 2001, 3, 274-280.	4.7	35
10	Poisoning the Active Site of Electrochemical Reduction of Dioxygen on Metal Monolayer Modified Electrode Surfaces. <i>Langmuir</i> , 2000, 16, 1397-1406.	3.5	29
11	Atomic structure of highly ordered pyrolytic graphite doped with boron. <i>Electrochemistry Communications</i> , 2001, 3, 608-612.	4.7	28
12	Electrocatalytic dioxygen reduction on underpotentially deposited Pb on Au(111) studied by an active site blocking strategy. <i>Journal of Catalysis</i> , 2003, 213, 17-22.	6.2	24
13	Scanning Tunneling Microscopy Investigation of Silver Deposition upon Au(111) in the Presence of Chloride. <i>Langmuir</i> , 2002, 18, 8025-8032.	3.5	23
14	In-plane and out-of-plane mass transport during metal-assisted chemical etching of GaAs. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11017-11021.	10.3	17
15	Electrocatalytic Dioxygen Reduction on Underpotentially Deposited Tl on Au(111) Studied by an Active Site Blocking Strategy. <i>Langmuir</i> , 2001, 17, 3704-3711.	3.5	15
16	Catalyst feature independent metal-assisted chemical etching of silicon. <i>RSC Advances</i> , 2015, 5, 76128-76132.	3.6	12
17	Poly(imide-co-siloxane) as a Thermo-Stable Binder for a Thin Layer Cathode of Thermal Batteries. <i>Energies</i> , 2018, 11, 3154.	3.1	10
18	Evaluation of Electroless Pt Deposition and Electron Beam Pt Evaporation on p-GaAs as a Photocathode for Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 770-776.	5.1	8

#	ARTICLE	IF	CITATIONS
19	Deep Etching of Silicon Based on Metal-Assisted Chemical Etching. ACS Omega, 0, , .	3.5	7
20	Electrochemical Multiphase Microreactor as Fast, Selective, and Portable Chemical Sensor of Trace Toxic Vapors. IEEE Sensors Journal, 2008, 8, 522-526.	4.7	6
21	Galvanic Displacement of Gallium Arsenide Surface: A Simple and Low-Cost Method to Deposit Metal Nanoparticles and Films. Journal of Chemistry, 2014, 2014, 1-8.	1.9	6
22	Enzyme-Based Electrochemical Multiphase Microreactor for Detection of Trace Toxic Vapors. IEEE Sensors Journal, 2008, 8, 580-586.	4.7	5
23	Transformation of Silicon Nanowire into Nanopyramid in Alkaline Solution and its Implication in Silicon-Air Battery. Bulletin of the Korean Chemical Society, 2016, 37, 997-1003.	1.9	5
24	Direct Solar Water Splitting Enabled by Monolithic III-V Triple Junction Integrated with Low-Cost Catalyst. Science of Advanced Materials, 2016, 8, 241-246.	0.7	1
25	Silicon Nanostructures Fabricated by Metal-Assisted Chemical Etching of Silicon. Journal of the Korean Electrochemical Society, 2013, 16, 1-8.	0.1	1
26	Solar Water Splitting Based on Organic Metal Halide Perovskites. Journal of the Korean Electrochemical Society, 2017, 20, 18-25.	0.1	0