Kwang-Soon Ahn

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11656079/publications.pdf

Version: 2024-02-01

63	2,367	218677	206112
papers	citations	26	48
		h-index	g-index

66	66	66	3089
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced photoelectrochemical responses of ZnO films through Ga and N codoping. Applied Physics Letters, 2007, 91, .	3.3	144
2	Effects of TiCl₄ Treatment of Nanoporous TiO₂ Films on Morphology, Light Harvesting, and Charge-Carrier Dynamics in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 21285-21290.	3.1	131
3	Enhancement of photoelectrochemical response by aligned nanorods in ZnO thin films. Journal of Power Sources, 2008, 176, 387-392.	7.8	115
4	PtRu Alloy and PtRuâ^'WO3 Nanocomposite Electrodes for Methanol Electrooxidation Fabricated by a Sputtering Deposition Method. Journal of Physical Chemistry B, 2004, 108, 5989-5994.	2.6	105
5	Enhanced electron diffusion length of mesoporous TiO2 film by using Nb2O5 energy barrier for dye-sensitized solar cells. Applied Physics Letters, 2006, 89, 013103.	3.3	102
6	Quasi-solid-state dye-sensitized solar cells employing ternary component polymer-gel electrolytes. Journal of Power Sources, 2008, 180, 896-901.	7.8	99
7	Electrocatalytic Enhancement of Methanol Oxidation at Ptâ^'WOxNanophase Electrodes and In-Situ Observation of Hydrogen Spillover Using Electrochromism. Journal of Physical Chemistry B, 2003, 107, 4352-4355.	2.6	96
8	Tandem dye-sensitized solar cell-powered electrochromic devices for the photovoltaic-powered smart window. Journal of Power Sources, 2007, 168, 533-536.	7.8	92
9	ZnO nanocoral structures for photoelectrochemical cells. Applied Physics Letters, 2008, 93, 163117.	3.3	92
10	Temperature dependency and carrier transport mechanisms of Ti/p-type InP Schottky rectifiers. Journal of Alloys and Compounds, 2010, 504, 146-150.	5.5	85
11	Photoelectrochemical Properties of N-Incorporated ZnO Films Deposited by Reactive RF Magnetron Sputtering. Journal of the Electrochemical Society, 2007, 154, B956.	2.9	81
12	The effect of thermal annealing on photoelectrochemical responses of WO3 thin films. Journal of Applied Physics, 2007, 101, 093524.	2.5	80
13	Visible Light Absorbing TiO₂ Nanotube Arrays by Sulfur Treatment for Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2015, 119, 13375-13383.	3.1	79
14	Joint Effects of Photoactive TiO₂ and Fluoride-Doping on SnO₂ Inverse Opal Nanoarchitecture for Solar Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 20292-20303.	8.0	72
15	Carrier concentration tuning of bandgap-reduced p-type ZnO films by codoping of Cu and Ga for improving photoelectrochemical response. Journal of Applied Physics, 2008, 103, 073504.	2.5	65
16	All-solid-state electrochromic device composed of WO3 and Ni(OH)2 with a Ta2O5 protective layer. Applied Physics Letters, 2002, 81, 3930-3932.	3.3	64
17	Surface morphological, microstructural, and electrochromic properties of short-range ordered and crystalline nickel oxide thin films. Applied Surface Science, 2002, 199, 259-269.	6.1	58
18	Synthesis and characterization of band gap-reduced ZnO:N and ZnO:(Al,N) films for photoelectrochemical water splitting. Journal of Materials Research, 2010, 25, 69-75.	2.6	56

#	Article	IF	Citations
19	Ptâ€“WOx electrode structure for thin-film fuel cells. Applied Physics Letters, 2002, 81, 907-909.	3.3	52
20	Role of WO₃ Layers Electrodeposited on SnO₂ Inverse Opal Skeletons in Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2016, 120, 5906-5915.	3.1	51
21	Influence of gas ambient on the synthesis of co-doped ZnO:(Al,N) films for photoelectrochemical water splitting. Journal of Power Sources, 2010, 195, 5801-5805.	7.8	47
22	Bleached state transmittance in charge-unbalanced all-solid-state electrochromic devices. Applied Physics Letters, 2003, 82, 3379-3381.	3.3	38
23	Electrochemical and Electrochromic Properties of Ni Oxide Thin Films Prepared by a Solâ€“Gel Method. Journal of Sol-Gel Science and Technology, 2004, 31, 323-328.	2.4	35
24	PtRuâ€“WO3 nanostructured alloy electrode for use in thin-film fuel cells. Applied Physics Letters, 2003, 82, 1090-1092.	3.3	33
25	CoAl2O4â€“Fe2O3 p-n nanocomposite electrodes for photoelectrochemical cells. Applied Physics Letters, 2009, 95, 022116.	3.3	32
26	Band gap narrowing of ZnO:N films by varying rf sputtering power in O[sub 2]â•N[sub 2] mixtures. Journal of Vacuum Science & Technology B, 2007, 25, L23.	1.3	30
27	Phase separation in Ga and N co-incorporated ZnO films and its effects on photo-response in photoelectrochemical water splitting. Thin Solid Films, 2011, 519, 5983-5987.	1.8	26
28	Enhanced light-harvesting efficiency by FÃ¶rster resonance energy transfer in quasi-solid state DSSC using organic blue dye. Electrochimica Acta, 2012, 68, 240-245.	5.2	25
29	Thickness-dependent microstructural and electrochromic properties of sputter-deposited Ni oxide films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1468-1474.	2.1	24
30	The Effect of Ar/O2 Ratio on Electrochromic Response Time of Ni Oxides Grown Using an RF Sputtering System. Japanese Journal of Applied Physics, 2002, 41, L212-L215.	1.5	22
31	Carrier transport mechanism of Se/n-type Si Schottky diodes. Journal of Alloys and Compounds, 2012, 534, 37-41.	5.5	22
32	Microstructural and electrochromic properties of sputter-deposited Ni oxide films grown at different working pressures. Journal of Applied Physics, 2002, 92, 1268-1273.	2.5	20
33	The Effect of RF Power on the Electrochromic Response Time of Sputter-Deposited Ni Oxide Films. Japanese Journal of Applied Physics, 2002, 41, L533-L535.	1.5	18
34	Bifunctional Effects of CdSe Quantum Dots and Nb2O5 Interlayer for ZnO Nanorods-based Photoelectrochemical Water-Splitting Cells. Electrochimica Acta, 2014, 133, 262-267.	5.2	18
35	Beneficial surface passivation of hydrothermally grown TiO2 nanowires for solar water oxidation. Applied Surface Science, 2016, 366, 561-566.	6.1	18
36	Effect of substrate temperature on the photoelectrochemical responses of Ga and N co-doped ZnO films. Journal of Materials Science, 2010, 45, 5218-5222.	3.7	17

#	Article	IF	Citations
37	Unique photoelectrochemical behavior of TiO2 nanorods wrapped with novel titanium Oxy-Nitride (TiOxNy) nanoparticles. International Journal of Hydrogen Energy, 2018, 43, 16458-16467.	7.1	15
38	Electrolyte effects on undoped and Mo-doped BiVO4 film for photoelectrochemical water splitting. Journal of Electroanalytical Chemistry, 2019, 842, 41-49.	3.8	15
39	Electrochromic properties of SnO2-incorporated Ni oxide films grown using a cosputtering system. Journal of Applied Physics, 2002, 92, 7128-7132.	2.5	14
40	Amorphous copper tungsten oxide with tunable band gaps. Journal of Applied Physics, 2010, 108, 043502.	2.5	14
41	Initial growth step and annealing effect of Ta[sub 2]O[sub 5] formed by anodization of Ta foil in an ammonium tartrate electrolyte. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 2840.	2.1	12
42	Effect of interfacial property on electrochromic response speed of Ta2O5/NiO and Ta2O5/Ni(OH)2. Solid State Ionics, 2003, 165, 155-160.	2.7	12
43	Bifunctional doping effect on the TiO2 nanowires for photoelectrochemical water splitting. Electrochimica Acta, 2013, 114, 159-164.	5.2	12
44	Hydrogen Treated Niobium Oxide Nanotube Arrays for Photoelectrochemical Water Oxidation. Journal of the Electrochemical Society, 2016, 163, H1165-H1170.	2.9	12
45	Drawing the distinguished graphite carbon nitride (g-C3N4) on SnO2 nanoflake film for solar water oxidation. International Journal of Hydrogen Energy, 2020, 45, 22567-22575.	7.1	12
46	Polymer-Laminated Electrochromic Devices Composed of WO[sub 3] and Ni(OH)[sub 2] on Glass and PET Substrates. Journal of the Electrochemical Society, 2005, 152, H201.	2.9	11
47	Tungsten oxide bilayer electrodes for photoelectrochemical cells. Journal of Power Sources, 2010, 195, 5422-5425.	7.8	11
48	Effect of copper phthalocyanine (CuPc) interlayer on the electrical characteristics of Au/n-GaN Schottky rectifier. Materials Science in Semiconductor Processing, 2015, 30, 420-428.	4.0	10
49	Enhanced Carrier Transport of N-Doped TiO₂for Photoelectrochemical Cells. Japanese Journal of Applied Physics, 2009, 48, 120204.	1.5	9
50	Effects of Hydrogen Treatment and Nb₂O₅ Nanoparticle Decoration in TiO₂Nanorods for Solar Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 4495-4507.	6.7	9
51	The role of defects on the electrochromic response time of sputter-deposited Ni oxide films. Solid State Ionics, 2003, 156, 433-437.	2.7	8
52	Double layered nanoarchitecture based on anodic TiO2 nanotubes for dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 274, 20-26.	3.9	7
53	Effects of substrate temperature and RF power on the formation of aligned nanorods in ZnO thin films. Jom, 2010, 62, 25-30.	1.9	6
54	Tri-Branched Tri-Anchoring Organic Dye for Visible Light-Responsive Dye-Sensitized Photoelectrochemical Water-Splitting Cells. Japanese Journal of Applied Physics, 2010, 49, 060219.	1.5	6

#	Article	IF	Citations
55	Annealing effect of fluorine-doped SnO2/WO3 core-shell inverse opal nanoarchitecture for photoelectrochemical water splitting. Journal of the Korean Physical Society, 2017, 70, 162-168.	0.7	6
56	Nanolayered CuWO4 Decoration on Fluorine-Doped SnO2 Inverse Opals for Solar Water Oxidation. Journal of Electrochemical Science and Technology, 2018, 9, 282-291.	2.2	5
57	Effects of Al2O3 Coating on BiVO4 and Mo-doped BiVO4 Film for Solar Water Oxidation. Journal of Electrochemical Science and Technology, 2019, 10, 424-432.	2.2	5
58	Multilayered Fluorine Doped SnO2 Inverse Opal/WO3/BiVO4 Film for Solar Water Oxidation: Systematic Development and Defined Role of Each Layer. Journal of the Electrochemical Society, 2019, 166, H750-H763.	2.9	4
59	Enhanced Photoelectrochemical Response of Graphene-Coated Al₂O₃-TiO₂Nanocomposite Photoanodes. Molecular Crystals and Liquid Crystals, 2011, 538, 272-277.	0.9	3
60	Dual roles of a flouride-doped SnO2/TiO2 bilayer based on inverse opal/nanoparticle structure for water oxidation. Journal of the Korean Physical Society, 2018, 72, 260-269.	0.7	3
61	Temperature-dependent current-voltage characteristics and reverse leakage conduction mechanism of Pt/n-type Si0.85Ge0.15 schottky rectifiers. Journal of the Korean Physical Society, 2012, 60, 1498-1503.	0.7	2
62	Effects of TiCl4Surface Treatment on Photoelectrochemical Response of TiO2Nanotube Arrays. Molecular Crystals and Liquid Crystals, 2012, 568, 192-197.	0.9	0
63	Visible-light photoelectrochemical responses of dye-sensitized, compact TiO₂ thin films deposited by electron beam evaporation. Molecular Crystals and Liquid Crystals, 2019, 679, 119-126.	0.9	0