

# Kwang-Soon Ahn

## List of Publications by Year in descending order

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63  
papers

2,367  
citations

218677

26  
h-index

206112

48  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drawing the distinguished graphite carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) on SnO <sub>2</sub> nanoflake film for solar water oxidation. International Journal of Hydrogen Energy, 2020, 45, 22567-22575.	7.1	12
2	Visible-light photoelectrochemical responses of dye-sensitized, compact TiO <sub>2</sub> thin films deposited by electron beam evaporation. Molecular Crystals and Liquid Crystals, 2019, 679, 119-126.	0.9	0
3	Multilayered Fluorine Doped SnO <sub>2</sub> Inverse Opal/WO <sub>3</sub> /BiVO <sub>4</sub> 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
4	Effects of Hydrogen Treatment and Nb <sub>2</sub> O <sub>5</sub> Nanoparticle Decoration in TiO <sub>2</sub> Nanorods for Solar Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 4495-4507.	6.7	9
5	Electrolyte effects on undoped and Mo-doped BiVO <sub>4</sub> film for photoelectrochemical water splitting. Journal of Electroanalytical Chemistry, 2019, 842, 41-49.	3.8	15
6	Effects of Al <sub>2</sub> O <sub>3</sub> Coating on BiVO <sub>4</sub> and Mo-doped BiVO <sub>4</sub> Film for Solar Water Oxidation. Journal of Electrochemical Science and Technology, 2019, 10, 424-432.	2.2	5
7	Dual roles of a fluoride-doped SnO <sub>2</sub> /TiO <sub>2</sub> bilayer based on inverse opal/nanoparticle structure for water oxidation. Journal of the Korean Physical Society, 2018, 72, 260-269.	0.7	3
8	Unique photoelectrochemical behavior of TiO <sub>2</sub> nanorods wrapped with novel titanium Oxy-Nitride (TiOxNy) nanoparticles. International Journal of Hydrogen Energy, 2018, 43, 16458-16467.	7.1	15
9	Nanolayered CuWO <sub>4</sub> Decoration on Fluorine-Doped SnO <sub>2</sub> Inverse Opals for Solar Water Oxidation. Journal of Electrochemical Science and Technology, 2018, 9, 282-291.	2.2	5
10	Annealing effect of fluorine-doped SnO <sub>2</sub> /WO <sub>3</sub> core-shell inverse opal nanoarchitecture for photoelectrochemical water splitting. Journal of the Korean Physical Society, 2017, 70, 162-168.	0.7	6
11	Hydrogen Treated Niobium Oxide Nanotube Arrays for Photoelectrochemical Water Oxidation. Journal of the Electrochemical Society, 2016, 163, H1165-H1170.	2.9	12
12	Beneficial surface passivation of hydrothermally grown TiO <sub>2</sub> nanowires for solar water oxidation. Applied Surface Science, 2016, 366, 561-566.	6.1	18
13	Role of WO <sub>3</sub> Layers Electrodeposited on SnO <sub>2</sub> Inverse Opal Skeletons in Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2016, 120, 5906-5915.	3.1	51
14	Visible Light Absorbing TiO <sub>2</sub> Nanotube Arrays by Sulfur Treatment for Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2015, 119, 13375-13383.	3.1	79
15	Joint Effects of Photoactive TiO <sub>2</sub> and Fluoride-Doping on SnO <sub>2</sub> Inverse Opal Nanoarchitecture for Solar Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 20292-20303.	8.0	72
16	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
17	Bifunctional Effects of CdSe Quantum Dots and Nb <sub>2</sub> O <sub>5</sub> Interlayer for ZnO Nanorods-based Photoelectrochemical Water-Splitting Cells. Electrochimica Acta, 2014, 133, 262-267.	5.2	18
18	Double layered nanoarchitecture based on anodic TiO <sub>2</sub> nanotubes for dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 274, 20-26.	3.9	7

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19	Bifunctional doping effect on the TiO <sub>2</sub> nanowires for photoelectrochemical water splitting. <i>Electrochimica Acta</i> , 2013, 114, 159-164.	5.2	12
20	Effects of TiCl <sub>4</sub> Surface Treatment on Photoelectrochemical Response of TiO <sub>2</sub> Nanotube Arrays. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 568, 192-197.	0.9	0
21	Carrier transport mechanism of Se/n-type Si Schottky diodes. <i>Journal of Alloys and Compounds</i> , 2012, 534, 37-41.	5.5	22
22	Effects of TiCl <sub>4</sub> Treatment of Nanoporous TiO <sub>2</sub> Films on Morphology, Light Harvesting, and Charge-Carrier Dynamics in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21285-21290.	3.1	131
23	Enhanced light-harvesting efficiency by Förster resonance energy transfer in quasi-solid state DSSC using organic blue dye. <i>Electrochimica Acta</i> , 2012, 68, 240-245.	5.2	25
24	Temperature-dependent current-voltage characteristics and reverse leakage conduction mechanism of Pt/n-type Si <sub>0.85</sub> Ge <sub>0.15</sub> schottky rectifiers. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1498-1503.	0.7	2
25	Enhanced Photoelectrochemical Response of Graphene-Coated Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Nanocomposite Photoanodes. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 538, 272-277.	0.9	3
26	Phase separation in Ga and N co-incorporated ZnO films and its effects on photo-response in photoelectrochemical water splitting. <i>Thin Solid Films</i> , 2011, 519, 5983-5987.	1.8	26
27	Tungsten oxide bilayer electrodes for photoelectrochemical cells. <i>Journal of Power Sources</i> , 2010, 195, 5422-5425.	7.8	11
28	Effects of substrate temperature and RF power on the formation of aligned nanorods in ZnO thin films. <i>Jom</i> , 2010, 62, 25-30.	1.9	6
29	Effect of substrate temperature on the photoelectrochemical responses of Ga and N co-doped ZnO films. <i>Journal of Materials Science</i> , 2010, 45, 5218-5222.	3.7	17
30	Influence of gas ambient on the synthesis of co-doped ZnO:(Al,N) films for photoelectrochemical water splitting. <i>Journal of Power Sources</i> , 2010, 195, 5801-5805.	7.8	47
31	Amorphous copper tungsten oxide with tunable band gaps. <i>Journal of Applied Physics</i> , 2010, 108, 043502.	2.5	14
32	Synthesis and characterization of band gap-reduced ZnO:N and ZnO:(Al,N) films for photoelectrochemical water splitting. <i>Journal of Materials Research</i> , 2010, 25, 69-75.	2.6	56
33	Tri-Branched Tri-Anchoring Organic Dye for Visible Light-Responsive Dye-Sensitized Photoelectrochemical Water-Splitting Cells. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 060219.	1.5	6
34	Temperature dependency and carrier transport mechanisms of Ti/p-type InP Schottky rectifiers. <i>Journal of Alloys and Compounds</i> , 2010, 504, 146-150.	5.5	85
35	Enhanced Carrier Transport of N-Doped TiO <sub>2</sub> for Photoelectrochemical Cells. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 120204.	1.5	9
36	CoAl <sub>2</sub> O <sub>4</sub> –Fe <sub>2</sub> O <sub>3</sub> p-n nanocomposite electrodes for photoelectrochemical cells. <i>Applied Physics Letters</i> , 2009, 95, 022116.	3.3	32

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37	Quasi-solid-state dye-sensitized solar cells employing ternary component polymer-gel electrolytes. <i>Journal of Power Sources</i> , 2008, 180, 896-901.	7.8	99
38	Enhancement of photoelectrochemical response by aligned nanorods in ZnO thin films. <i>Journal of Power Sources</i> , 2008, 176, 387-392.	7.8	115
39	Carrier concentration tuning of bandgap-reduced p-type ZnO films by codoping of Cu and Ga for improving photoelectrochemical response. <i>Journal of Applied Physics</i> , 2008, 103, 073504.	2.5	65
40	ZnO nanocoral structures for photoelectrochemical cells. <i>Applied Physics Letters</i> , 2008, 93, 163117.	3.3	92
41	Band gap narrowing of ZnO:N films by varying rf sputtering power in O <sub>2</sub> •N <sub>2</sub> mixtures. <i>Journal of Vacuum Science &amp; Technology B</i> , 2007, 25, L23.	1.3	30
42	Enhanced photoelectrochemical responses of ZnO films through Ga and N codoping. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	144
43	The effect of thermal annealing on photoelectrochemical responses of WO <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2007, 101, 093524.	2.5	80
44	Photoelectrochemical Properties of N-Incorporated ZnO Films Deposited by Reactive RF Magnetron Sputtering. <i>Journal of the Electrochemical Society</i> , 2007, 154, B956.	2.9	81
45	Tandem dye-sensitized solar cell-powered electrochromic devices for the photovoltaic-powered smart window. <i>Journal of Power Sources</i> , 2007, 168, 533-536.	7.8	92
46	Enhanced electron diffusion length of mesoporous TiO <sub>2</sub> film by using Nb <sub>2</sub> O <sub>5</sub> energy barrier for dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2006, 89, 013103.	3.3	102
47	Polymer-Laminated Electrochromic Devices Composed of WO <sub>3</sub> and Ni(OH) <sub>2</sub> on Glass and PET Substrates. <i>Journal of the Electrochemical Society</i> , 2005, 152, H201.	2.9	11
48	Electrochemical and Electrochromic Properties of Ni Oxide Thin Films Prepared by a Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 323-328.	2.4	35
49	PtRu Alloy and PtRu-WO <sub>3</sub> Nanocomposite Electrodes for Methanol Electrooxidation Fabricated by a Sputtering Deposition Method. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5989-5994.	2.6	105
50	Effect of interfacial property on electrochromic response speed of Ta <sub>2</sub> O <sub>5</sub> /NiO and Ta <sub>2</sub> O <sub>5</sub> /Ni(OH) <sub>2</sub> . <i>Solid State Ionics</i> , 2003, 165, 155-160.	2.7	12
51	The role of defects on the electrochromic response time of sputter-deposited Ni oxide films. <i>Solid State Ionics</i> , 2003, 156, 433-437.	2.7	8
52	Electrocatalytic Enhancement of Methanol Oxidation at Pt-WO <sub>x</sub> Nanophase Electrodes and In-Situ Observation of Hydrogen Spillover Using Electrochromism. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4352-4355.	2.6	96
53	PtRu-WO <sub>3</sub> nanostructured alloy electrode for use in thin-film fuel cells. <i>Applied Physics Letters</i> , 2003, 82, 1090-1092.	3.3	33
54	Bleached state transmittance in charge-unbalanced all-solid-state electrochromic devices. <i>Applied Physics Letters</i> , 2003, 82, 3379-3381.	3.3	38

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55	All-solid-state electrochromic device composed of WO <sub>3</sub> and Ni(OH) <sub>2</sub> with a Ta <sub>2</sub> O <sub>5</sub> protective layer. Applied Physics Letters, 2002, 81, 3930-3932.	3.3	64
56	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
57	The Effect of Ar/O <sub>2</sub> 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
58	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
59	Pt-WO <sub>x</sub> electrode structure for thin-film fuel cells. Applied Physics Letters, 2002, 81, 907-909.	3.3	52
60	Electrochromic properties of SnO <sub>2</sub> -incorporated Ni oxide films grown using a cosputtering system. Journal of Applied Physics, 2002, 92, 7128-7132.	2.5	14
61	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
62	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
63	Initial growth step and annealing effect of Ta <sub>2</sub> O <sub>5</sub> 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