Kyung Hwan Kim

List of Publications by Year
in descending order

62 papers	506 citations	623734 14 h-index	752698 20 g-index
62 all docs	62 docs citations	62 times ranked	662 citing authors

#	Article	IF	Citations
1	Characteristics of the Dye-Sensitized Solar Cells Using TiO2 Nanotubes Treated with TiCl4. Materials, 2014, 7, 3522-3532.	2.9	64
2	Properties of AZO/Ag/AZO Multilayer Thin Film Deposited on Polyethersulfone Substrate. Transactions on Electrical and Electronic Materials, 2013, 14, 9-11.	1.9	32
3	Properties of TiO2 Films Prepared for Use in Dye-sensitized Solar Cells by Using the Sol-gel Method at Different Catalyst Concentrations. Journal of the Korean Physical Society, 2010, 57, 1049-1053.	0.7	28
4	Effective surface diffusion of nickel on single crystal Î²-Ga₂O₃for Schottky barrier modulation and high thermal stability. Journal of Materials Chemistry C, 2019, 7, 10953-10960.	5.5	26
5	Thin film properties by facing targets sputtering system. Applied Surface Science, 2001, 169-170, 410-414.	6.1	24
6	Thickness Dependence of WO_{3-x}Thin Films for Electrochromic Device Application. Molecular Crystals and Liquid Crystals, 2014, 598, 54-61.	0.9	21
7	Properties of WO_{3-x} Electrochromic Thin Film Prepared by Reactive Sputtering with Various Post Annealing Temperatures. Japanese Journal of Applied Physics, 2013, 52, 11NB09.	1.5	19
8	?Preparation of ITO and IZO thin films by using Facing Target Sputtering (FTS) method. Journal of the Korean Physical Society, 2009, 55, 1996-2001.	0.7	19
9	Ag₂O/Î²-Ga₂O₃ Heterojunction-Based Self-Powered Solar Blind Photodetector with High Responsivity and Stability. ACS Applied Materials & Interfaces, 2022, 14, 25648-25658.	8.0	18
10	Nanostructured TiO2 Films for Dye-Sensitized Solar Cells Prepared by the Solâ€“Gel Method. Journal of Nanoscience and Nanotechnology, 2011, 11, 10971-10975.	0.9	17
11	The effect of dye-sensitized solar cell based on the composite layer by anodic TiO2 nanotubes. Nanoscale Research Letters, 2014, 9, 671.	5.7	16
12	Investigation of the effect of oxygen gas on properties of GAZO thin films fabricated by facing targets sputtering system. Semiconductor Science and Technology, 2014, 29, 075007.	2.0	15
13	Properties of p-type N-doped Cu₂O thin films prepared by reactive sputtering. Japanese Journal of Applied Physics, 2014, 53, 11RA10.	1.5	14
14	Properties of Indium-Zinc-Oxide Thin Films Prepared by Facing Targets Sputtering at Room Temperature. Journal of the Korean Physical Society, 2009, 54, 1267-1272.	0.7	14
15	Characteristics of AZO/Cu/AZO Multilayer Thin Films Prepared on Polyethersulfone Substrate at Room Temperature. Molecular Crystals and Liquid Crystals, 2012, 564, 121-129.	0.9	12
16	Influence of Fe₂O₃Doping on TiO₂Electrode for Enhancement Photovoltaic Efficiency of Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2014, 600, 39-46.	0.9	12
17	Effects of intermediate metal layer on the properties of Gaâ€“Al doped ZnO/metal/Gaâ€“Al doped ZnO multilayers deposited on polymer substrate. Materials Research Bulletin, 2012, 47, 2895-2897.	5.2	11
18	Synthesis and Characterization of WO3Doped TiO2Particle/Nanowire Layer in Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2014, 598, 32-39.	0.9	10

#	Article	IF	Citations
19	Effect of Magnetic Field Arrangement of Facing Targets Sputtering (FTS) System on Controlling Plasma Confinement. Coatings, 2020, 10, 321.	2.6	10
20	Properties of GAZO/Ag/GAZO multilayer films prepared by FTS system. Microelectronic Engineering, 2012, 89, 124-128.	2.4	9
21	Effects of post-annealing treatment on the properties of reactive sputtered cuprous-oxide thin films. Journal of the Korean Physical Society, 2015, 67, 1013-1017.	0.7	8
22	Fabrication of Ag nanowire and Al-doped ZnO hybrid transparent electrodes. Japanese Journal of Applied Physics, 2016, 55, 01AE14.	1.5	8
23	Properties of indium tin oxide thin films prepared on the oxygen plasma-treated polycarbonate substrate. Thin Solid Films, 2011, 519, 6844-6848.	1.8	7
24	Numerical Simulation on Thickness Dependency and Bias Stress Test of Ultrathin IGZO Thinâ€Film Transistors Via a Solution Process. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800987.	1.8	7
25	Rod-Shaped Î²-FeOOH Synthesis for Hydrogen Production under Light Irradiation. ACS Omega, 2021, 6, 30562-30568.	3.5	7
26	Effects of intermediate GAZO layer thickness on the properties of GAZO/Ag/GAZO/Ag/GAZO film. Thin Solid Films, 2013, 549, 70-73.	1.8	6
27	Efficiency Improvement of Dye-Sensitized Solar Cells Using WO3. Molecular Crystals and Liquid Crystals, 2014, 602, 81-87.	0.9	6
28	Fabrication of ZnO/Ag Nanowire/ZnO Thin Films for Optoelectronic Applications. Molecular Crystals and Liquid Crystals, 2015, 622, 134-139.	0.9	6
29	Rectifying Characteristics of Thermally Treated Mo/SiC Schottky Contact. Coatings, 2019, 9, 388.	2.6	6
30	Electrochromic Properties of Tungsten Oxide Films Prepared by Reactive Sputtering. Japanese Journal of Applied Physics, 2013, 52, 05EC03.	1.5	5
31	Achieving Enhanced Dye-Sensitized Solar Cell Performance by TiCl₄/Al₂O₃Doped TiO₂Nanotube Array Photoelectrodes. Journal of Nanomaterials, 2015, 2015, 1-6.	2.7	5
32	Fabrication of copper oxide based heterojunction thin film solar cells using sputtering. Molecular Crystals and Liquid Crystals, 2018, 677, 10-18.	0.9	4
33	Properties of Ga-Al Doped ZnO with Various Thicknesses Prepared by Facing Targets Sputtering Method. Molecular Crystals and Liquid Crystals, 2012, 566, 80-86.	0.9	3
34	Effect of Post Annealing in Various Atmospheric Environment Applied to ZnO:Ga Films. Molecular Crystals and Liquid Crystals, 2012, 564, 113-120.	0.9	3
35	Enhancing performance of dye-sensitized solar cells by TiCl₄treatment at different concentrations. Japanese Journal of Applied Physics, 2014, 53, 06JG10.	1.5	3
36	Effect of dye-sensitized solar cells based on the anodizing TiO₂nanotube array/nanoparticle double-layer electrode. Japanese Journal of Applied Physics, 2014, 53, 11RB02.	1.5	3

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37	Improving the performance of dye-sensitized solar cells by using the conversion luminescence of a phosphor. Journal of the Korean Physical Society, 2014, 65, 1682-1686.	0.7	3
38	Effect of ZnO Passivating Layer Using RF-Sputtered for Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2012, 565, 131-137.	0.9	2
39	Characteristics of Ga-Al Doped ZnO Thin Films with Plasma Treatment Prepared by Using Facing Target Sputtering Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 6293-6295.	0.9	2
40	Properties of Cu₂O Thin Films for All-Oxide Solar Cells. Molecular Crystals and Liquid Crystals, 2014, 598, 62-68.	0.9	2
41	Working Pressure Dependence of WO3-xThin Films Prepared by Reactive Facing Targets Sputtering. Molecular Crystals and Liquid Crystals, 2014, 602, 185-192.	0.9	2
42	Synergistic effect of TiCl₄â€"ZnO treated TiO₂nanotubes in dye-sensitized solar cell. Japanese Journal of Applied Physics, 2015, 54, 06FK02.	1.5	2
43	Photocatalytic properties of transparent oxide thin films prepared by facing target magnetron sputtering. Molecular Crystals and Liquid Crystals, 2018, 663, 55-60.	0.9	2
44	Electrical and Optical Properties of IZTO Thin Film for OLED Anode. Molecular Crystals and Liquid Crystals, 2012, 567, 78-85.	0.9	1
45	Preparation of doping metal TiO2 particle/nanotube composite layer and their applications in dye-sensitized solar cells. Metals and Materials International, 2013, 19, 1355-1359.	3.4	1
46	Effect of Photoelectrode with Phosphor-Containing TiO2Layer for Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 11NM03.	1.5	1
47	Characteristics of Ga-Al Doped Zinc Oxide Thin Films Deposited by Facing Targets Sputtering. Molecular Crystals and Liquid Crystals, 2014, 600, 56-62.	0.9	1
48	Properties of ITO/Ga-Al Doped ZnO Bilayer Thin Film for Saving ITO Material. Molecular Crystals and Liquid Crystals, 2014, 602, 17-25.	0.9	1
49	Enhancing Performance of Dye-Sensitized Solar Cell Influenced by Phosphor ZnGa2O4. Molecular Crystals and Liquid Crystals, 2014, 598, 40-46.	0.9	1
50	Enhancing Performance of Dye-Sensitized Solar Cell Utilizing by Phosphor Layer (YAG:Ce). Molecular Crystals and Liquid Crystals, 2014, 602, 88-95.	0.9	1
51	Preparation of a Phosphor/TiO2 nanoparticle composite layer for applications in dye-sensitized solar cells. Journal of the Korean Physical Society, 2014, 65, 387-391.	0.7	1
52	Low-voltage Sputtering Deposition of Transparent Conductive GAZO Thin Films for Minimizing Damage to Organic Layers. Molecular Crystals and Liquid Crystals, 2015, 621, 47-52.	0.9	1
53	Characteristics of Dye-Sensitized Solar Cells Using TiO₂Nanotube Arrays with Large Surface Area by Spin-Coating Nanoparticle. Molecular Crystals and Liquid Crystals, 2015, 620, 91-99.	0.9	1
54	Effects of sputtering power Schottky metal layers on rectifying performance of Moâ€"SiC Schottky contacts. Japanese Journal of Applied Physics, 2016, 55, 01AC05.	1.5	1

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55	Characteristics of Aluminum-Doped Zinc Oxide Films Grown Using Facing Target Sputtering for Transparent Electrode of Heterojunction Solar Cells. Journal of Nanoscience and Nanotechnology, 2021, 21, 1799-1803.	0.9	1
56	Effect of Annealing in ITO Film Prepared at Various Argon-and-Oxygen-Mixture Ratios via Facing-Target Sputtering for Transparent Electrode of Perovskite Solar Cells. Coatings, 2022, 12, 203.	2.6	1
57	Enhancing Photoelectrical Performance of Dye-Sensitized Solar Cell Using Phosphor Photoelectrode. Molecular Crystals and Liquid Crystals, 2014, 602, 96-103.	0.9	0
58	Al2O3 Doping of TiO2 electrodes and applications in dye-sensitized solar cells. Journal of the Korean Physical Society, 2014, 65, 368-371.	0.7	0
59	Effect of IZO passivation layer on AgNWs flexible transparent electrode. Molecular Crystals and Liquid Crystals, 2017, 645, 255-260.	0.9	0
60	Effects of rapid thermal annealing on the electrical and structural properties of Mo/SiC schottky contacts. Molecular Crystals and Liquid Crystals, 2018, 677, 1-9.	0.9	0
61	Properties of ITO-stacked AgNWs films prepared on flexible substrates by low damage sputtering. Molecular Crystals and Liquid Crystals, 2018, 663, 47-54.	0.9	0
62	Electrical, Optical and Photocatalytic Properties of Silver Nanowires Deposited Indium Tin Oxide Thin Film. Journal of Nanoscience and Nanotechnology, 2017, 17, 7449-7453.	0.9	0