

Chinho Park

List of Publications by Year in descending order

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80
papers

941
citations

567144

15
h-index

501076

28
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80
all docs

80
docs citations

80
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyaniline-wrapped MnMoO ₄ as an active catalyst for hydrogen production by electrochemical water splitting. Dalton Transactions, 2022, 51, 6027-6035.	1.6	14
2	Morphological improvement of CH ₃ NH ₃ PbI ₃ films using blended solvents for perovskite solar cells. Korean Journal of Chemical Engineering, 2021, 38, 187-194.	1.2	8
3	Synthesis and Characterization of ĩ€-SnS Nanoparticles and Corresponding Thin Films. Nanomaterials, 2021, 11, 767.	1.9	12
4	RGO/WO ₃ hierarchical architectures for improved H ₂ S sensing and highly efficient solar-driving photo-degradation of RhB dye. Scientific Reports, 2021, 11, 5023.	1.6	33
5	Properties of Yb-added ZnO (Yb:ZnO) films as an energy-conversion layer on polycrystalline silicon solar cells. Materials Chemistry and Physics, 2021, 265, 124513.	2.0	7
6	Effect of Sulfurization Time on the Physical Properties of Tin (II) Monosulfide Thin Films. Crystals, 2021, 11, 802.	1.0	0
7	Fundamental Aspects and Comprehensive Review on Physical Properties of Chemically Grown Tin-Based Binary Sulfides. Nanomaterials, 2021, 11, 1955.	1.9	13
8	Core-shell nickel-graphene nanoparticles for efficient tin sulfide/polymer bulk hetero-junction solar cells. Journal of Materials Science: Materials in Electronics, 2021, 32, 24575-24583.	1.1	3
9	Engineering microstructure of LiFe(MoO ₄) ₂ as an advanced anode material for rechargeable lithium-ion battery. Journal of Materials Science: Materials in Electronics, 2021, 32, 24273-24284.	1.1	7
10	Shape control of plasmonic gold nanoparticles and its application to vacuum-free bulk hetero-junction solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 22957-22965.	1.1	4
11	Investigation on the performance of SnS solar cells grown by sputtering and effusion cell evaporation. Korean Journal of Chemical Engineering, 2020, 37, 1066-1070.	1.2	6
12	Facile and eco-friendly synthesis of water-soluble Cu _{2-x} Se nanoparticles for photovoltaic applications. Materials Science in Semiconductor Processing, 2020, 112, 105013.	1.9	4
13	Development of SnSe thin films through selenization of sputtered Sn-metal films. Journal of Materials Science: Materials in Electronics, 2019, 30, 15980-15988.	1.1	16
14	Green and simple preparation of carbon-coated iron pyrite thin films for solar cells application. Journal of Materials Science: Materials in Electronics, 2019, 30, 19752-19759.	1.1	7
15	Effect of Thioacetamide Concentration on the Preparation of Single-Phase SnS and SnS ₂ Thin Films for Optoelectronic Applications. Coatings, 2019, 9, 632.	1.2	15
16	Improvement of Vacuum Free Hybrid Photovoltaic Performance Based on a Well-Aligned ZnO Nanorod and WO ₃ as a Carrier Transport Layer. Materials, 2019, 12, 1490.	1.3	3
17	Shape Control Iron Pyrite Synthesized by Hot Injection Method: Counter Electrode for Efficient Dye-Sensitized Solar Cells. Electronic Materials Letters, 2019, 15, 350-356.	1.0	5
18	Green and low-cost preparation of CIGSe thin film by a nanocrystals ink based spin-coating method. Korean Journal of Chemical Engineering, 2019, 36, 2110-2117.	1.2	8

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19	Eco-friendly synthesis of SnSe nanoparticles: effect of reducing agents on the reactivity of a Se-precursor and phase formation of SnSe NPs. <i>New Journal of Chemistry</i> , 2018, 42, 4843-4853.	1.4	33
20	λ -SnSe thin film solar cells produced by selenization of magnetron sputtered tin precursors. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 251-258.	3.0	27
21	Effects of growth temperature on titanium carbide (TiC) film formation using low-frequency (60 Hz) plasma-enhanced chemical vapor deposition. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 246-250.	1.2	4
22	Review on earth-abundant and environmentally benign Cu -- Sn -- X (X = S, Se) nanoparticles by chemical synthesis for sustainable solar energy conversion. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 19-52.	2.9	36
23	Fabrication and optimization of vacuum free hybrid solar cells prepared using composites of zinc oxide nanoparticles and narrow band gap polymer composite. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08RC04.	0.8	0
24	Synthesis of binary Cu-Se and In-Se nanoparticle inks using cherry blossom gum for CuInSe ₂ thin film solar cell applications. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 2430-2441.	1.2	8
25	Effect of sulfur annealing on the morphological, structural, optical and electrical properties of iron pyrite thin films formed from FeS ₂ nano-powder. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1525-1531.	1.2	12
26	Status review on earth-abundant and environmentally green Sn-X (X = Se, S) nanoparticle synthesis by solution methods for photovoltaic applications. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2790-2831.	3.8	59
27	Effects of annealing temperature on Cu ₂ ZnSnS ₄ (CZTS) films formed by electrospray technique. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1187-1191.	1.2	21
28	Effect of post-synthesis annealing on properties of SnS nanospheres and its solar cell performance. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1208-1213.	1.2	19
29	Studies on chemical bath deposited SnS ₂ films for Cd-free thin film solar cells. <i>Ceramics International</i> , 2017, 43, 3713-3719.	2.3	42
30	Synthesis of Ga(S ₂ CN(CH ₃) ₂) ₃ nanoparticles using ultrasonic spray method as GaN precursor. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 651, 208-213.	0.4	0
31	Bulk Heterojunction Solar Cell Devices Prepared with Composites of Conjugated Polymer and Zinc Oxide Nanorods. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-8.	1.5	5
32	Formation and characterization of CuInSe ₂ thin films from binary CuSe and In ₂ Se ₃ nanocrystal-ink spray. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2486-2491.	1.2	13
33	Temperature-Dependent Electrical Properties and Carrier Transport Mechanisms of TMAH-Treated Ni/Au/Al ₂ O ₃ /GaN MIS Diode. <i>Journal of Electronic Materials</i> , 2016, 45, 5655-5662.	1.0	14
34	Formation of Al ₂ O ₃ -graphite core shells versus growth time by using thermal chemical vapor deposition. <i>Journal of the Korean Physical Society</i> , 2016, 69, 842-846.	0.3	0
35	Controlling the morphology of the active layer by using additives and its effect on bulk hetero-junction solar cell performance. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 678-682.	1.2	9
36	Perspectives on SnSe-based thin film solar cells: a comprehensive review. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5491-5508.	1.1	94

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37	Synthesis and characterization of tin disulfide nanocrystals for hybrid bulk hetero-junction solar cell applications. <i>Electronic Materials Letters</i> , 2016, 12, 308-314.	1.0	11
38	Structural, morphological, and optoelectronic properties of rod-like iron pyrite nanocrystals for solar cell applications. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 045001.	0.8	7
39	Synthesis and thermal annealing treatment of octylphosphonic acid-capped CdSe-tetrapod nanocrystals for bulk hetero-junction solar cell applications. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 761-766.	1.2	7
40	Effect of Sodium Chloride (NaCl) as Crystallization Catalyst on Cu ₂ ZnSnS ₄ (CZTS) Films Deposited by Wet-solution Coating Method. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 602, 144-150.	0.4	4
41	Electrical and optical characteristics of Ar plasma generated by low-frequency (60Hz) power source. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1892-1897.	1.2	6
42	Effects of Growth Temperature on the Properties of CdSe Nano-Crystals Synthesized Eco-Friendly Using Colloidal Route. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 602, 151-158.	0.4	3
43	Study of composition, heat treatment, and inorganic nanocrystal incorporation for hybrid-solar-cells performance. <i>Journal of the Korean Physical Society</i> , 2014, 64, 965-969.	0.3	0
44	Synthesis and characterization of CdSe nanocrystals in the presence of butylamine as a capping agent. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 949-954.	1.2	4
45	Preparation of Single Phase CuInSe ₂ Nanocrystals (NCs) via Phase Transformation of Cu-In-Se Compounds Formed by a Low Temperature Wet Chemical Route. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 585, 107-113.	0.4	0
46	Preparation of anodic aluminum oxide (AAO) nano-template on silicon and its application to one-dimensional copper nano-pillar array formation. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 221-227.	1.2	7
47	Effect of annealing and semiconductor nanoparticle incorporation on the performance of hybrid bulk hetero-junction solar cells. <i>Journal of the Korean Physical Society</i> , 2013, 62, 892-896.	0.3	0
48	Structural and Optoelectronic Properties of CdSe Tetrapod Nanocrystals for Bulk Heterojunction Solar Cell Applications. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-7.	1.4	11
49	Vibrations in Alternating Current Plasma Display Panels (AC-PDPs). <i>Molecular Crystals and Liquid Crystals</i> , 2013, 585, 1-6.	0.4	2
50	Enhancement of CdSe/Poly(3-hexylthiophene) Bulk Heterojunction Solar Cell Efficiency by Surface Ligand Exchange and Thermal Treatment. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE27.	0.8	4
51	Characteristics of CuInSe ₂ Nanoparticles Synthesized by Se-Redox Method. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 565, 32-36.	0.4	4
52	Investigation of the morphology of an MEH-PPV/PCBM active layer and its application to bulk hetero-junction solar cell performance. <i>Journal of the Korean Physical Society</i> , 2012, 60, 2029-2033.	0.3	2
53	Elucidation of morphological and optoelectronic properties of highly crystalline chalcopyrite (CuInSe ₂) nanoparticles synthesized via hot injection route. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1453-1458.	1.2	5
54	Temperature Effects on Cu ₂ ZnSnS ₄ (CZTS) Films Deposited by Spraying Method. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 564, 155-161.	0.4	27

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55	Effects of nitrogen flow rate on titanium nitride films deposition by DC facing target sputtering method. Korean Journal of Chemical Engineering, 2012, 29, 676-679.	1.2	23
56	Study of MEHâ€‘PPV/PCBM active layer morphology and its application for hybrid solar cell performance. Bulletin of Materials Science, 2012, 35, 277-281.	0.8	5
57	Epitaxial gallium nitride thin films grown on silicon substrates utilizing gallium nitride seed-layer formed by liquid source precursor. Korean Journal of Chemical Engineering, 2012, 29, 130-133.	1.2	1
58	Synthesis and characterization of cadmium telluride nanocrystals for using hybrid solar cell. , 2011, , .		2
59	Characterization of Na-doped CuInS_2 thin film absorber layer formed by a non-vacuum ink process. , 2011, , .		0
60	Photoluminescence Blue-Shift of CdSe Nanoparticles Caused by Exchange of Surface Capping Layer. Journal of Physical Chemistry C, 2011, 115, 20817-20823.	1.5	39
61	Controlling the morphology of trioctyl phosphine oxide-coated cadmium selenide/poly 3-hexyl thiophene composite active layer for bulk hetero-junction solar cells. Korean Journal of Chemical Engineering, 2011, 28, 1625-1631.	1.2	3
62	10.2478/s11814-009-0336-y. , 2011, 26, 1785.		0
63	Optimization of inverted bulk heterojunction polymer solar cells. Korean Journal of Chemical Engineering, 2010, 27, 999-1002.	1.2	15
64	Parylene-C thin films deposited on polymer substrates using a modified chemical vapor condensation method. Korean Journal of Chemical Engineering, 2010, 27, 748-751.	1.2	3
65	Optimization study of copper precursors for high quality CuInSe_2 nanoparticles by wet chemical route. , 2010, , .		0
66	Optoelectronic properties of CdSe nanoparticles and their application to bulk hetero-junction solar cells. , 2009, , .		0
67	Optical and electrical properties of ZnO thin films synthesized by sol-gel method for the application in three-dimensional junction photovoltaics. , 2009, , .		0
68	Synthesis and optimization of porous anodic aluminum oxide nano-template for large area device applications. Korean Journal of Chemical Engineering, 2009, 26, 1785-1789.	1.2	4
69	Optimization of organic bi-layer solar cell through systematic study of anode treatment and material thickness. Korean Journal of Chemical Engineering, 2008, 25, 1036-1039.	1.2	11
70	Epitaxial growth of GaN on (0001) Al_2O_3 via solution-cast seed layer formation process using Ga(mDTC)_3 . Korean Journal of Chemical Engineering, 2008, 25, 1184-1189.	1.2	2
71	Screen printing of silver nanoparticle suspension for metal interconnects. Korean Journal of Chemical Engineering, 2008, 25, 1358-1361.	1.2	60
72	Efficiency enhancement of bi-layer solar cells utilizing graded bandgap active layer. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0

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73	Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
74	Surface morphological and electrical characterization of thin film CdSe/P ₃ HT composite layer for bulk hetero-junction solar cells. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
75	Influence of annealing temperature on the structural and optical properties of sol-gel prepared ZnO thin films. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2418-2425.	0.8	72
76	A Simulation Study for Optimal Pull-Speed Schedule of Ingot Growing Process for Crystalline Silicon Solar Cell. , 2006, , .		0
77	Fabrication of red, green, and blue organic light-emitting diodes using m-MTDATA as a common hole-injection layer. Korean Journal of Chemical Engineering, 2005, 22, 643-647.	1.2	10
78	In situ Raman spectroscopic studies of trimethylindium pyrolysis in an OMVPE reactor. Journal of Materials Chemistry, 2002, 12, 356-360.	6.7	12
79	Characterization of parylene deposition process for the passivation of organic light emitting diodes. Korean Journal of Chemical Engineering, 2002, 19, 722-727.	1.2	14
80	The effect of Na on the defect structure in CuGaSe ₂ grown by molecular beam epitaxy. , 0, , .		0