Chinho Park

List of Publications by Year
in descending order

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		567144	501076
80	941	15	28
papers	citations	h-index	g-index

80	80	80	1325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perspectives on SnSe-based thin film solar cells: a comprehensive review. Journal of Materials Science: Materials in Electronics, 2016, 27, 5491-5508.	1.1	94
2	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
3	Screen printing of silver nanoparticle suspension for metal interconnects. Korean Journal of Chemical Engineering, 2008, 25, 1358-1361.	1.2	60
4	Status review on earth-abundant and environmentally green Sn-X (XÂ=ÂSe, S) nanoparticle synthesis by solution methods for photovoltaic applications. International Journal of Hydrogen Energy, 2017, 42, 2790-2831.	3.8	59
5	Studies on chemical bath deposited SnS 2 films for Cd-free thin film solar cells. Ceramics International, 2017, 43, 3713-3719.	2.3	42
6	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
7	Review on earth-abundant and environmentally benign Cuâ€“Snâ€“X(X = S, Se) nanoparticles by chemical synthesis for sustainable solar energy conversion. Journal of Industrial and Engineering Chemistry, 2018, 60, 19-52.	2.9	36
8	Eco-friendly synthesis of SnSe nanoparticles: effect of reducing agents on the reactivity of a Se-precursor and phase formation of SnSe NPs. New Journal of Chemistry, 2018, 42, 4843-4853.	1.4	33
9	RGO/WO3 hierarchical architectures for improved H2S sensing and highly efficient solar-driving photo-degradation of RhB dye. Scientific Reports, 2021, 11, 5023.	1.6	33
10	Temperature Effects on Cu₂ZnSnS₄(CZTS) Films Deposited by Spraying Method. Molecular Crystals and Liquid Crystals, 2012, 564, 155-161.	0.4	27
11	Î±-SnSe thin film solar cells produced by selenization of magnetron sputtered tin precursors. Solar Energy Materials and Solar Cells, 2018, 176, 251-258.	3.0	27
12	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
13	Effects of annealing temperature on Cu2ZnSnS4 (CZTS) films formed by electrospray technique. Korean Journal of Chemical Engineering, 2017, 34, 1187-1191.	1.2	21
14	Effect of post-synthesis annealing on properties of SnS nanospheres and its solar cell performance. Korean Journal of Chemical Engineering, 2017, 34, 1208-1213.	1.2	19
15	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
16	Optimization of inverted bulk heterojunction polymer solar cells. Korean Journal of Chemical Engineering, 2010, 27, 999-1002.	1.2	15
17	Effect of Thioacetamide Concentration on the Preparation of Single-Phase SnS and SnS2 Thin Films for Optoelectronic Applications. Coatings, 2019, 9, 632.	1.2	15
18	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

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19	Temperature-Dependent Electrical Properties and Carrier Transport Mechanisms of TMAH-Treated Ni/Au/Al2O3/GaN MIS Diode. Journal of Electronic Materials, 2016, 45, 5655-5662.	1.0	14
20	Polyaniline-wrapped MnMoO₄as an active catalyst for hydrogen production by electrochemical water splitting. Dalton Transactions, 2022, 51, 6027-6035.	1.6	14
21	Formation and characterization of CuInSe2 thin films from binary CuSe and In2Se3 nanocrystal-ink spray. Korean Journal of Chemical Engineering, 2016, 33, 2486-2491.	1.2	13
22	Fundamental Aspects and Comprehensive Review on Physical Properties of Chemically Grown Tin-Based Binary Sulfides. Nanomaterials, 2021, 11, 1955.	1.9	13
23	In situ Raman spectroscopic studies of trimethylindium pyrolysis in an OMVPE reactor. Journal of Materials Chemistry, 2002, 12, 356-360.	6.7	12
24	Effect of sulfur annealing on the morphological, structural, optical and electrical properties of iron pyrite thin films formed from FeS2 nano-powder. Korean Journal of Chemical Engineering, 2018, 35, 1525-1531.	1.2	12
25	Synthesis and Characterization of Ï€-SnS Nanoparticles and Corresponding Thin Films. Nanomaterials, 2021, 11, 767.	1.9	12
26	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
27	Structural and Optoelectronic Properties of CdSe Tetrapod Nanocrystals for Bulk Heterojunction Solar Cell Applications. International Journal of Photoenergy, 2013, 2013, 1-7.	1.4	11
28	Synthesis and characterization of tin disulfide nanocrystals for hybrid bulk hetero-junction solar cell applications. Electronic Materials Letters, 2016, 12, 308-314.	1.0	11
29	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
30	Controlling the morphology of the active layer by using additives and its effect on bulk hetero-junction solar cell performance. Korean Journal of Chemical Engineering, 2016, 33, 678-682.	1.2	9
31	Synthesis of binary Cu-Se and In-Se nanoparticle inks using cherry blossom gum for CuInSe2 thin film solar cell applications. Korean Journal of Chemical Engineering, 2018, 35, 2430-2441.	1.2	8
32	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
33	Morphological improvement of CH3NH3PbI3 films using blended solvents for perovskite solar cells. Korean Journal of Chemical Engineering, 2021, 38, 187-194.	1.2	8
34	Preparation of anodic aluminum oxide (AAO) nano-template on silicon and its application to one-dimensional copper nano-pillar array formation. Korean Journal of Chemical Engineering, 2013, 30, 221-227.	1.2	7
35	Structural, morphological, and optoelectronic properties of rod-like iron pyrite nanocrystals for solar cell applications. Japanese Journal of Applied Physics, 2015, 54, 045001.	0.8	7
36	Synthesis and thermal annealing treatment of octylphosphonic acid-capped CdSe-tetrapod nanocrystals for bulk hetero-junction solar cell applications. Korean Journal of Chemical Engineering, 2015, 32, 761-766.	1.2	7

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37	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
38	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
39	Engineering microstructure of LiFe(MoO4)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
40	Electrical and optical characteristics of Ar plasma generated by low-frequency (60Hz) power source. Korean Journal of Chemical Engineering, 2014, 31, 1892-1897.	1.2	6
41	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
42	Elucidation of morphological and optoelectronic properties of highly crystalline chalcopyrite (CuInSe2) nanoparticles synthesized via hot injection route. Korean Journal of Chemical Engineering, 2012, 29, 1453-1458.	1.2	5
43	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
44	Bulk Heterojunction Solar Cell Devices Prepared with Composites of Conjugated Polymer and Zinc Oxide Nanorods. Journal of Nanomaterials, 2017, 2017, 1-8.	1.5	5
45	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
46	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
47	Enhancement of CdSe/Poly(3-hexylthiophene) Bulk Heterojunction Solar Cell Efficiency by Surface Ligand Exchange and Thermal Treatment. Japanese Journal of Applied Physics, 2012, 51, 10NE27.	0.8	4
48	Characteristics of CuInSe₂Nanoparticles Synthesized by Se-Redox Method. Molecular Crystals and Liquid Crystals, 2012, 565, 32-36.	0.4	4
49	Synthesis and characterization of CdSe nanocrystals in the presence of butylamine as a capping agent. Korean Journal of Chemical Engineering, 2013, 30, 949-954.	1.2	4
50	Effect of Sodium Chloride (NaCl) as Crystallization Catalyst on Cu2ZnSnS4(CZTS) Films Deposited by Wet-solution Coating Method. Molecular Crystals and Liquid Crystals, 2014, 602, 144-150.	0.4	4
51	Effects of growth temperature on titanium carbide (TiC) film formation using low-frequency (60 Hz) plasma-enhanced chemical vapor deposition. Korean Journal of Chemical Engineering, 2018, 35, 246-250.	1.2	4
52	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
53	Facile and eco-friendly synthesis of water-soluble Cu2-xSe nanoparticles for photovoltaic applications. Materials Science in Semiconductor Processing, 2020, 112, 105013.	1.9	4
54	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

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55	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
56	Effects of Growth Temperature on the Properties of CdSe Nano-Crystals Synthesized Eco-Friendly Using Colloidal Route. Molecular Crystals and Liquid Crystals, 2014, 602, 151-158.	0.4	3
57	Improvement of Vacuum Free Hybrid Photovoltaic Performance Based on a Well-Aligned ZnO Nanorod and WO3 as a Carrier Transport Layer. Materials, 2019, 12, 1490.	1.3	3
58	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
59	Epitaxial growth of GaN on (0001) Al2O3 via solution-cast seed layer formation process using Ga(mDTC)3. Korean Journal of Chemical Engineering, 2008, 25, 1184-1189.	1.2	2
60	Synthesis and characterization of cadmium telluride nanocrystals for using hybrid solar cell. , 2011, , .		2
61	Investigation of the morphology of an MEH-PPV/PCBM active layer and its application to bulk hetero-junction solar cell performance. Journal of the Korean Physical Society, 2012, 60, 2029-2033.	0.3	2
62	Vibrations in Alternating Current Plasma Display Panels (AC-PDPs). Molecular Crystals and Liquid Crystals, 2013, 585, 1-6.	0.4	2
63	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
64	The effect of Na on the defect structure in CuGaSe/sub 2/ grown by molecular beam epitaxy. , 0, , .		0
65	A Simulation Study for Optimal Pull-Speed Schedule of Ingot Growing Process for Crystalline Silicon Solar Cell. , 2006, , .		0
66	Efficiency enhancement of bi-layer solar cells utilizing graded bandgap active layer. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
67	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
68	Surface morphological and electrical characterization of thin film CdSe/P<inf>3</inf>HT composite layer for bulk hetero-junction solar cells. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
69	Optoelectronic properties of CdSe nanoparticles and their application to bulk hetero-junction solar cells. , 2009, , .		0
70	Optical and electrical properties of ZnO thin films synthesized by sol-gel method for the application in three-dimensional junction photovoltaics. , 2009, , .		0
71	Optimization study of copper precursors for high quality CuInSe₂ nanoparticles by wet chemical route. , 2010, , .		0
72	Characterization of Na-doped CuInS<inf>2</inf> thin film absorber layer formed by a non-vacuum ink process. , 2011, , .		0

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73	Preparation of Single Phase CuInSe2Nanocrystals (NCs) via Phase Transformation of Cu-In-Se Compounds Formed by a Low Temperature Wet Chemical Route. Molecular Crystals and Liquid Crystals, 2013, 585, 107-113.	0.4	0
74	Effect of annealing and semiconductor nanoparticle incorporation on the performance of hybrid bulk hetero-junction solar cells. Journal of the Korean Physical Society, 2013, 62, 892-896.	0.3	0
75	Study of composition, heat treatment, and inorganic nanocrystal incorporation for hybrid-solar-cells performance. Journal of the Korean Physical Society, 2014, 64, 965-969.	0.3	0
76	Formation of Al2O3-graphite core shells versus growth time by using thermal chemical vapor deposition. Journal of the Korean Physical Society, 2016, 69, 842-846.	0.3	0
77	Synthesis of Ga(S₂CN(CH₃)₂)₃ nanoparticles using ultrasonic spray method as GaN precursor. Molecular Crystals and Liquid Crystals, 2017, 651, 208-213.	0.4	0
78	Fabrication and optimization of vacuum free hybrid solar cells prepared using composites of zinc oxide nanoparticles and narrow band gap polymer composite. Japanese Journal of Applied Physics, 2018, 57, 08RC04.	0.8	0
79	Effect of Sulfurization Time on the Physical Properties of Tin (II) Monosulfide Thin Films. Crystals, 2021, 11, 802.	1.0	0
80	10.2478/s11814-009-0336-y. , 2011, 26, 1785.		0