

Chan Im

List of Publications by Year in descending order

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82
papers

1,451
citations

279798

23
h-index

361022

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86
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86
docs citations

86
times ranked

2194
citing authors

#	ARTICLE	IF	CITATIONS
1	Monodisperse Oligofluorenes with Keto Defect as Models to Investigate the Origin of Green Emission From Polyfluorenes: Synthesis, Self-Assembly, and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2005, 11, 6833-6845.	3.3	99
2	Efficient upconversion fluorescence in a blue-emitting spirobifluorene-anthracene copolymer doped with low concentrations of Pt(II)octaethylporphyrin. <i>Journal of Chemical Physics</i> , 2005, 123, 074902.	3.0	72
3	Fluorescence dynamics of phenyl-substituted polyphenylenevinylene-trinitrofluorenone blend systems. <i>Journal of Chemical Physics</i> , 2002, 117, 1395-1402.	3.0	61
4	Photoinduced Charge Transfer in Donor-Acceptor (DA) Copolymer: Fullerene Bis-adduct Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 861-868.	8.0	58
5	Highly Efficient Amorphous Zn ₂ SnO ₄ Electron-Selective Layers Yielding over 20% Efficiency in FAMAPbI ₃ -Based Planar Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 2410-2417.	17.4	54
6	Aggregation induced enhanced emission of conjugated dendrimers with a large intrinsic two-photon absorption cross-section. <i>Polymer Chemistry</i> , 2014, 5, 479-488.	3.9	52
7	Hole transport in polyphenylenevinylene-ether under bulk photoexcitation and sensitized injection. <i>Journal of Chemical Physics</i> , 2000, 113, 3802-3807.	3.0	50
8	Insights into the origin of aggregation enhanced emission of 9,10-distyrylanthracene derivatives. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1422-1429.	5.9	47
9	Hole transport through chromophores in a photorefractive polymer composite based on poly(N-vinylcarbazole). <i>Chemical Physics Letters</i> , 2000, 326, 407-412.	2.6	42
10	Comparative study of hole transport in polyspirobifluorene polymers measured by the charge-generation layer time-of-flight technique. <i>Journal of Applied Physics</i> , 2006, 99, 023712.	2.5	42
11	Lifetime determination of fluorescence and phosphorescence of a series of oligofluorenes. <i>Journal of Chemical Physics</i> , 2006, 124, 024907.	3.0	41
12	Sensitized intrinsic phosphorescence from a poly(phenylene-vinylene) derivative. <i>Chemical Physics Letters</i> , 2003, 375, 286-291.	2.6	40
13	Hypervalent versus Nonhypervalent Carbon in Noble Gas Complexes. <i>Chemistry - A European Journal</i> , 2008, 14, 6901-6911.	3.3	37
14	S ₂ emission from chemically modified BODIPYs. <i>Chemical Communications</i> , 2012, 48, 3424.	4.1	37
15	Nondispersive hole transport in a spin-coated dendrimer film measured by the charge-generation-layer time-of-flight method. <i>Applied Physics Letters</i> , 2002, 81, 3266-3268.	3.3	35
16	Intrinsic and extrinsic charge carrier photogeneration in phenyl-substituted polyphenylenevinylene-trinitrofluorenone blend systems. <i>Journal of Chemical Physics</i> , 2002, 117, 2961-2967.	3.0	33
17	Excitons in π -conjugated polymers. <i>Synthetic Metals</i> , 2003, 135-136, 377-382.	3.9	33
18	Surface properties and dye loading behavior of Zn ₂ SnO ₄ nanoparticles hydrothermally synthesized using different mineralizers. <i>Materials Characterization</i> , 2011, 62, 1007-1015.	4.4	33

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19	Influence of hole transport layers on internal absorption, charge recombination and collection in HC(NH ₂) ₂ perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7922-7932.	10.3	29
20	Energy transfer in a ladder-type methyl-poly(para-phenylene) doped by Pt(II)octaethylporphyrin. <i>Chemical Physics</i> , 2004, 299, 11-16.	1.9	24
21	Nondispersive hole transport in carbazole- and anthracene-containing polyspirobifluorene copolymers studied by the charge-generation layer time-of-flight technique. <i>Journal of Applied Physics</i> , 2006, 99, 033710.	2.5	24
22	Flexible complementary inverter with low-temperature processable polymeric gate dielectric on a plastic substrate. <i>Organic Electronics</i> , 2009, 10, 1209-1216.	2.6	24
23	Thickness-dependent internal quantum efficiency of narrow band-gap polymer-based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 242-249.	6.2	24
24	Significant Effect of Bromo Substituents on Nonlinear Optical Properties of Polymer and Chromophores. <i>Journal of Physical Chemistry B</i> , 2010, 114, 42-48.	2.6	23
25	Effect of Surface Trap States on Photocatalytic Activity of Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9312-9319.	3.1	22
26	Enhanced photovoltaic properties of TiO ₂ film prepared by polycondensation in sol reaction. <i>RSC Advances</i> , 2012, 2, 3034.	3.6	21
27	Preparation of nanoporous TiO ₂ electrodes using different mesostructured silica templates and improvement of the photovoltaic properties of DSSCs. <i>New Journal of Chemistry</i> , 2012, 36, 2094.	2.8	20
28	Tailor-Made Hole-Conducting Coadsorbents for Highly Efficient Organic Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2013, 19, 15545-15555.	3.3	20
29	Photoconduction in organic donor-acceptor systems. <i>Journal of Chemical Physics</i> , 2003, 119, 3952-3957.	3.0	19
30	Effect of Multiwalled Carbon Nanotubes on Crystallization Behavior of Poly(ϵ -caprolactone)diol. <i>Journal of Thermoplastic Composite Materials</i> , 2009, 22, 531-546.	4.2	17
31	All-water-solution processed solar cells based on PPV and TiO ₂ nanocrystals. <i>Solar Energy Materials and Solar Cells</i> , 2012, 104, 75-80.	6.2	17
32	ZnS-Passivated CdSe/CdS Co-sensitized Mesoporous Zn ₂ SnO ₄ Based Solar Cells. <i>Electrochimica Acta</i> , 2014, 121, 223-232.	5.2	15
33	Fast field-induced dissociation and recombination of optical excitations in a π -conjugated polymer. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1171-1175.	2.8	13
34	Synthesis and characterization of N-acyl-tetra-O-acyl glucosamine derivatives. <i>RSC Advances</i> , 2014, 4, 6239.	3.6	12
35	White organic light-emitting diodes based on electroplex from polyvinyl carbazole and carbazole oligomers blends. <i>Chinese Physics B</i> , 2010, 19, 037801.	1.4	12
36	Photoinduced Reduction of Manganese(III) meso-Tetrakis(1-methylpyridinium-4-yl)porphyrin at AT and GC Base Pairs. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9585-9590.	2.6	11

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37	Exciton dissociation in poly-phenylene-vinylene derivative:perylene diimide and hexabenzocoronene derivative:perylene diimide blend systems. <i>Synthetic Metals</i> , 2003, 139, 683-686.	3.9	10
38	Synthesis and Electroluminescent Properties of Poly(p-phenylenevinylene)s with 3,4-Diheptyl-3,4-propylenedioxythiophene Pendant Group for Light-Emitting Diode Applications. <i>Macromolecules</i> , 2007, 40, 4794-4801.	4.8	10
39	Influence of a polyelectrolyte based-fluorene interfacial layer on the performance of a polymer solar cell. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11443.	10.3	10
40	Efficiency of MAPbI ₃ -Based Planar Solar Cell Analyzed by Its Thickness-Dependent Exciton Formation, Morphology, and Crystallinity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14810-14820.	8.0	10
41	Theoretical Study of Nonlinear Optical Properties of π -Parallel Connection Chromophores Containing Parallel Nonconjugated D-A units. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12295-12303.	2.5	9
42	(+)-Sparteine-Mediated Substitution of <i>o</i> -Benzyl <i>N</i> -pivaloylaniline with Ketones. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 3460-3467.	2.4	9
43	Triplet level-dependent photoluminescence and photoconduction properties of π -conjugated polymer thin films doped by iridium complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 371-376.	3.9	8
44	Charge carrier photogeneration and hole transport properties of blends of a π -conjugated polymer and an organic-inorganic hybrid material. <i>Macromolecular Research</i> , 2009, 17, 894-900.	2.4	8
45	Comparing electroluminescence efficiency and photoluminescence quantum yield of fluorene-based π -conjugated copolymers with narrow band-gap comonomers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 205, 98-103.	3.9	8
46	Synthesis of Novel Ruthenium Dyes with Thiophene or Thienothiophene Substituted Terpyridyl Ligands and Their Characterization. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 581, 45-51.	0.9	8
47	Mitsunobu cyclodehydration of <i>N</i> -pivaloyl-2-aminophenethyl alcohol for asymmetric synthesis of trans-2,3-disubstituted indolines. <i>Tetrahedron</i> , 2013, 69, 2542-2549.	1.9	8
48	Acceptor blending ratio dependence of bulk heterojunction organic photovoltaic devices. <i>Journal of the Korean Physical Society</i> , 2014, 64, 910-916.	0.7	8
49	Isothermal Crystallization Behavior of Poly(μ -Caprolactone) Diol/Functionalized-Multiwalled Carbon Nanotube Composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2009, 14, 418-436.	1.9	7
50	Finite-size effects in Monte Carlo simulations of the Gaussian disorder model. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1897-1901.	0.7	7
51	Photoluminescence Properties of Poly [2-(5'-Cyano-5'-Methyl-Hexyloxy)-1,4-Phenylene] and Its Copolymers with Pyridine Comonomer Units. <i>Journal of the Korean Physical Society</i> , 2007, 51, 1993.	0.7	7
52	Parameter Study on UV-induced Degradation of Dye-sensitized Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1537, 1.	0.1	6
53	Synthesis of corn rootworm pheromones from commercial diols. <i>Chemical Papers</i> , 2015, 69, .	2.2	6
54	Integration of near infrared and visible organic photodiodes on a complementary metal-oxide-semiconductor compatible backplane. <i>Thin Solid Films</i> , 2015, 592, 94-98.	1.8	6

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55	Connecting charge transfer kinetics to device parameters of a narrow-bandgap polymer-based solar cell. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26550-26561.	2.8	6
56	Effects of BTA2 as the third component on the charge carrier generation and recombination behavior of PTB7:PC71BM photovoltaic system. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 127-137.	4.4	6
57	Relaxation of excitons and charge carriers in polymers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2001, 8, 321-328.	2.9	5
58	Exciton Dynamics of P3HT:PCBM Blend Films with Different Polymer Regioregularities Using Transient Absorption Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 578, 68-72.	0.9	5
59	Glass Frit Dissolution Influenced by Material Composition and the Water Content in Iodide/Triiodide Electrolyte of Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-8.	2.5	5
60	Asymmetric Synthesis of 3,4,6-Trisubstituted 2,5-Diketopiperazines by Using Dynamic Kinetic Resolution of α -Bromo Tertiary Acetamides. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2780-2789.	2.4	5
61	A Facile Synthesis of the Sex Pheromone of the Cabbage Looper <i>Trichoplusia ni</i> . <i>Chemistry of Natural Compounds</i> , 2016, 52, 877-879.	0.8	5
62	Comparing Donor- and Acceptor-Originated Exciton Dynamics in Non-Fullerene Acceptor Blend Polymeric Systems. <i>Polymers</i> , 2021, 13, 1770.	4.5	5
63	Molecular Weight-Dependent Physical and Photovoltaic Properties of Poly(3-alkylthiophene)s with Butyl, Hexyl, and Octyl Side-Chains. <i>Polymers</i> , 2021, 13, 3440.	4.5	5
64	Photodegradation-induced photoluminescence behaviors of π -conjugated polymers upon the doping of organometallic triplet emitters. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2395-2403.	2.1	4
65	Design and synthesis of a novel polymer with a large macroscopic second harmonic generation coefficient based on quantum chemical calculations. <i>Materials Chemistry and Physics</i> , 2010, 120, 302-306.	4.0	4
66	Improvement in power conversion efficiency by blending of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) into poly(3-hexylthiophene):phenyl-C61-butyric acid methyl ester active layer. <i>Applied Physics Letters</i> , 2012, 100, 223901.	3.3	4
67	Influence of the Acceptor on Electrical Performance and Charge Carrier Transport in Bulk Heterojunction Solar Cells with HXS-1. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3386-3392.	3.1	4
68	Effect of annealing temperature on internal absorption, charge recombination and internal quantum efficiency of HC(NH ₂) ₂ PbI ₃ perovskite solar cells. <i>Organic Electronics</i> , 2020, 77, 105508.	2.6	4
69	Novel patterned layer to enhance conversion efficiency of amorphous silicon thin-film solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1493-1498.	1.8	3
70	On/off-ratio dependence of bulk hetero junction photodiodes and its impact on electro-optical properties. <i>Microelectronic Engineering</i> , 2016, 152, 20-25.	2.4	3
71	Intensity-dependent transient photocurrent of organic bulk heterojunction solar cells. <i>Journal of the Korean Physical Society</i> , 2017, 70, 177-183.	0.7	3
72	Synergistic effect of trimethylsilane for photoinduced electron transfer on 1,8-naphthalimides in polar solvent. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 246, 23-28.	3.9	2

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73	Asymmetric Preparation of New N,N-Dialkyl-2-amino-1,1,2-triphenylethanol Catalysts and a Kinetic Resolution in the Addition of Diethylzinc to Flavene-3-carbaldehydes. <i>Synlett</i> , 2013, 24, 630-634.	1.8	2
74	Chloride treatment for highly efficient aqueous-processed CdTe nanocrystal-based hybrid solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11156-11161.	5.5	2
75	Long-lasting photoluminescence quantum yield of cesium lead halide perovskite-type quantum dots. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 187-197.	4.4	2
76	Charge-carrier photogeneration and extraction dynamics of polymer solar cells probed by a transient photocurrent nearby the regime of the space charge-limited current. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 164-179.	4.4	2
77	Molecular Orientation of Polyurethane Based Liquid Crystal Polymers by Corona Poling. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 1001-1006.	2.2	1
78	Phase transition behavior of silicone based liquid crystalline polymers. <i>E-Polymers</i> , 2011, 11, .	3.0	1
79	Investigation of organic light-emitting diodes with novel organic electron injection layers. <i>Journal of the Korean Physical Society</i> , 2012, 60, 849-856.	0.7	1
80	Charge interactions of water soluble oxo-titanium(IV) porphyrins with CTAC and SDS micelles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 270, 7-13.	3.9	1
81	TRANSIT TIME DISTRIBUTION AND MOBILITY IN MONTE CARLO SIMULATIONS OF THE GAUSSIAN DISORDER MODEL. <i>International Journal of Modern Physics B</i> , 2013, 27, 1350010.	2.0	1
82	Real-Time Color Correction Method for a Low-Cost Still/Video Camera. <i>IEICE Transactions on Information and Systems</i> , 2009, E92-D, 97-101.	0.7	0