

Chan Im

List of Publications by Year in descending order

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82
papers

1,451
citations

279798

23
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35
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86
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86
docs citations

86
times ranked

2194
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Comparing Donor- and Acceptor-Originated Exciton Dynamics in Non-Fullerene Acceptor Blend Polymeric Systems. <i>Polymers</i> , 2021, 13, 1770. | 4.5 | 5 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Influence of hole transport layers on internal absorption, charge recombination and collection in HC(NH ₂) ₂ PbI ₃ perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7922-7932. | 10.3 | 29 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Synthesis of corn rootworm pheromones from commercial diols. <i>Chemical Papers</i> , 2015, 69, . | 2.2 | 6 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | (+)-Sparteine-Mediated Substitution of <i>N</i> -pivaloylaniline with Ketones. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 3460-3467. | 2.4 | 9 |
| 23 | Asymmetric Synthesis of 3,4,6-Trisubstituted 2,5-Diketopiperazines by Using Dynamic Kinetic Resolution of \pm -Bromo Tertiary Acetamides. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2780-2789. | 2.4 | 5 |
| 24 | Synthesis and characterization of N-acyl-tetra-O-acyl glucosamine derivatives. <i>RSC Advances</i> , 2014, 4, 6239. | 3.6 | 12 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Mitsunobu cyclodehydration of N-pivaloyl-2-aminophenethyl alcohol for asymmetric synthesis of trans-2,3-disubstituted indolines. <i>Tetrahedron</i> , 2013, 69, 2542-2549. | 1.9 | 8 |
| 35 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Parameter Study on UV-induced Degradation of Dye-sensitized Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1537, 1. | 0.1 | 6 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Enhanced photovoltaic properties of TiO ₂ film prepared by polycondensation in sol reaction. <i>RSC Advances</i> , 2012, 2, 3034. | 3.6 | 21 |
| 43 | 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 |
| 44 | 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 |
| 45 | S ₂ emission from chemically modified BODIPYs. <i>Chemical Communications</i> , 2012, 48, 3424. | 4.1 | 37 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Phase transition behavior of silicone based liquid crystalline polymers. <i>E-Polymers</i> , 2011, 11, . | 3.0 | 1 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | Hypervalent versus Nonhypervalent Carbon in Noble Gas Complexes. <i>Chemistry - A European Journal</i> , 2008, 14, 6901-6911. | 3.3 | 37 |
| 63 | 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 |
| 64 | Synthesis and Electroluminescent Properties of Poly(p-phenylenevinylene)s with π -Diheptyl-3,4-propylenedioxythiophene Pendant Group for Light-Emitting Diode Applications. <i>Macromolecules</i> , 2007, 40, 4794-4801. | 4.8 | 10 |
| 65 | 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 |
| 66 | 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 |
| 67 | Lifetime determination of fluorescence and phosphorescence of a series of oligofluorenes. <i>Journal of Chemical Physics</i> , 2006, 124, 024907. | 3.0 | 41 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | Sensitized intrinsic phosphorescence from a poly(phenylene-vinylene) derivative. <i>Chemical Physics Letters</i> , 2003, 375, 286-291. | 2.6 | 40 |

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|----|---|-----|-----------|
| 73 | Excitons in π -conjugated polymers. <i>Synthetic Metals</i> , 2003, 135-136, 377-382. | 3.9 | 33 |
| 74 | 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 |
| 75 | 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 |
| 76 | Photoconduction in organic donor-acceptor systems. <i>Journal of Chemical Physics</i> , 2003, 119, 3952-3957. | 3.0 | 19 |
| 77 | 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 |
| 78 | 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 |
| 79 | Fluorescence dynamics of phenyl-substituted polyphenylenevinylene-trinitrofluorenone blend systems. <i>Journal of Chemical Physics</i> , 2002, 117, 1395-1402. | 3.0 | 61 |
| 80 | Relaxation of excitons and charge carriers in polymers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2001, 8, 321-328. | 2.9 | 5 |
| 81 | 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 |
| 82 | Hole transport in polyphenylenevinylene-ether under bulk photoexcitation and sensitized injection. <i>Journal of Chemical Physics</i> , 2000, 113, 3802-3807. | 3.0 | 50 |