Sooncheol Kwon

List of Publications by Year in descending order

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471509 276875 1,741 40 17 41 citations h-index g-index papers 43 43 43 3343 docs citations times ranked citing authors all docs

| # | Article | IF | Citations |
|----|---|------|-----------|
| 1 | The Role of Longâ€Alkylâ€Group Spacers in Glycolated Copolymers for Highâ€Performance Organic Electrochemical Transistors. Advanced Materials, 2022, 34, e2202574. | 21.0 | 21 |
| 2 | Enhancing hole carrier injection <i>via</i> low electrochemical doping on circularly polarized polymer light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9512-9520. | 5.5 | 11 |
| 3 | Anionâ€Induced Catalytic Reaction in a Solutionâ€Processed Molybdenum Oxide for Efficient Inverted Ternary Organic Photovoltaics. Advanced Functional Materials, 2022, 32, . | 14.9 | 3 |
| 4 | Oneâ€Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Airâ€Stable Highâ€Performance nâ€Type Organic Fieldâ€Effect Transistors. Angewandte Chemie - International Edition, 2021, 60, 5970-5977. | 13.8 | 34 |
| 5 | Oneâ€Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Airâ€Stable Highâ€Performance nâ€Type Organic Fieldâ€Effect Transistors. Angewandte Chemie, 2021, 133, 6035-6042. | 2.0 | 2 |
| 6 | Selenium-Substituted Non-Fullerene Acceptors: A Route to Superior Operational Stability for Organic Bulk Heterojunction Solar Cells. ACS Nano, 2021, 15, 7700-7712. | 14.6 | 36 |
| 7 | Solid-State Ionic Liquid: Key to Efficient Detection and Discrimination in Organic Semiconductor Gas Sensors. ACS Applied Electronic Materials, 2021, 3, 2152-2163. | 4.3 | 4 |
| 8 | Direct Observation of Confinement Effects of Semiconducting Polymers in Polymer Blend Electronic Systems. Advanced Science, 2021, 8, 2100332. | 11.2 | 12 |
| 9 | Reversible Polymorphic Transition and Hysteresisâ€Driven Phase Selectivity in Singleâ€Crystalline C8â€BTBT Rods. Small, 2020, 16, e1906109. | 10.0 | 16 |
| 10 | Biasâ€Modulated Multicolor Discrimination Enabled by an Organic–Inorganic Hybrid Perovskite Photodetector with a pâ€iâ€nâ€iâ€p Configuration. Laser and Photonics Reviews, 2020, 14, 2000305. | 8.7 | 21 |
| 11 | Molecular-level electrochemical doping for fine discrimination of volatile organic compounds in organic chemiresistors. Journal of Materials Chemistry A, 2020, 8, 16884-16891. | 10.3 | 8 |
| 12 | Large-Area Nonfullerene Organic Solar Cell Modules Fabricated by a Temperature-Independent Printing Method. ACS Applied Materials & Interfaces, 2020, 12, 41877-41885. | 8.0 | 30 |
| 13 | Molecular understanding of a π-conjugated polymer/solid-state ionic liquid complex as a highly sensitive and selective gas sensor. Journal of Materials Chemistry C, 2020, 8, 15268-15276. | 5.5 | 25 |
| 14 | Direct observation of continuous networks of †sol†gel†processed metal oxide thin film for organic and perovskite photovoltaic modules with long-term stability. Journal of Materials Chemistry A, 2020, 8, 18659-18667. | 10.3 | 6 |
| 15 | Spirobifluorene-based non-fullerene acceptors for the environmentally benign process. Dyes and Pigments, 2020, 180, 108369. | 3.7 | 4 |
| 16 | Efficient Charge Carrier Injection and Balance Achieved by Low Electrochemical Doping in Solutionâ€Processed Polymer Lightâ€Emitting Diodes. Advanced Functional Materials, 2019, 29, 1904092. | 14.9 | 18 |
| 17 | Enhanced Photoâ€Response of Mos 2 Photodetectors by a Laterally Aligned SiO 2 Nanoribbon Array Substrate. ChemNanoMat, 2019, 5, 1272-1279. | 2.8 | 2 |
| 18 | Impact of Initial Bulkâ€Heterojunction Morphology on Operational Stability of Polymer:Fullerene Photovoltaic Cells. Advanced Materials Interfaces, 2019, 6, 1801763. | 3.7 | 12 |

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|----|---|------|-----------|
| 19 | Improvement of perovskite crystallinity by omnidirectional heat transfer via radiative thermal annealing. RSC Advances, 2019, 9, 14868-14875. | 3.6 | 6 |
| 20 | Enhanced p-Type Work Function Tunability Induced by Electrostatic Molecular Alignment and Surface Coverage in Conjugated Small-Molecule Electrolyte. ACS Applied Electronic Materials, 2019, 1, 2566-2573. | 4.3 | 2 |
| 21 | Effect of Processing Additives on Organic Photovoltaics: Recent Progress and Future Prospects. Advanced Energy Materials, 2017, 7, 1601496. | 19.5 | 71 |
| 22 | Bulkâ€Heterojunction Organic Solar Cells: Five Core Technologies for Their Commercialization. Advanced Materials, 2016, 28, 7821-7861. | 21.0 | 404 |
| 23 | Highâ€Performance Integrated Perovskite and Organic Solar Cells with Enhanced Fill Factors and Nearâ€Infrared Harvesting. Advanced Materials, 2016, 28, 3159-3165. | 21.0 | 84 |
| 24 | D–A–D-type narrow-bandgap small-molecule photovoltaic donors: pre-synthesis virtual screening using density functional theory. Physical Chemistry Chemical Physics, 2016, 18, 15054-15059. | 2.8 | 15 |
| 25 | Optimized phase separation in low-bandgap polymer:fullerene bulk heterojunction solar cells with criteria of solvent additives. Nano Energy, 2016, 30, 200-207. | 16.0 | 18 |
| 26 | Controlling Molecular Ordering in Aqueous Conducting Polymers Using Ionic Liquids. Advanced Materials, 2016, 28, 8625-8631. | 21.0 | 149 |
| 27 | Optically transparent semiconducting polymer nanonetwork for flexible and transparent electronics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14261-14266. | 7.1 | 67 |
| 28 | Organic Singleâ€Crystal Semiconductor Films on a Millimeter Domain Scale. Advanced Materials, 2015, 27, 6870-6877. | 21.0 | 59 |
| 29 | Efficient bulk heterojunction organic solar cell with antireflective subwavelength structure. Applied Surface Science, 2015, 332, 716-719. | 6.1 | 9 |
| 30 | In situ studies of the molecular packing dynamics of bulk-heterojunction solar cells induced by the processing additive 1-chloronaphthalene. Journal of Materials Chemistry A, 2015, 3, 7719-7726. | 10.3 | 24 |
| 31 | Efficient Charge Extraction in Thick Bulk Heterojunction Solar Cells through Infiltrated Diffusion Doping. Advanced Energy Materials, 2014, 4, 1301502. | 19.5 | 17 |
| 32 | Semiconducting Polymers with Nanocrystallites Interconnected via Boron-Doped Carbon Nanotubes. Nano Letters, 2014, 14, 7100-7106. | 9.1 | 17 |
| 33 | Efficient planar-heterojunction perovskite solar cells achieved via interfacial modification of a sol–gel ZnO electron collection layer. Journal of Materials Chemistry A, 2014, 2, 17291-17296. | 10.3 | 274 |
| 34 | Template-mediated nano-crystallite networks in semiconducting polymers. Nature Communications, 2014, 5, 4183. | 12.8 | 31 |
| 35 | Self-assembly of interfacial and photoactive layers via one-step solution processing for efficient inverted organic solar cells. Nanoscale, 2013, 5, 11587. | 5.6 | 48 |
| 36 | Synergistic Effect of Processing Additives and Optical Spacers in Bulkâ€Heterojunction Solar Cells. Advanced Energy Materials, 2012, 2, 1420-1424. | 19.5 | 27 |

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|----|--|-----|----------|
| 37 | Synthesis and photovoltaic property of copolymers with phenanthrothiadiazole moiety. Solar Energy Materials and Solar Cells, 2012, 105, 229-236. | 6.2 | 8 |
| 38 | Synthesis and characterization of phenathrothiadiazole-based conjugated polymer for photovoltaic device. Synthetic Metals, 2012, 162, 1936-1943. | 3.9 | 5 |
| 39 | Syntheses and characterization of carbazole based new lowâ€band gap copolymers containing highly soluble benzimidazole derivatives for solar cell application. Journal of Polymer Science Part A, 2011, 49, 369-380. | 2.3 | 23 |
| 40 | Synthesis and Photovoltaic Properties of Cyclopentadithiopheneâ€Based Lowâ€Bandgap Copolymers That Contain Electronâ€Withdrawing Thiazole Derivatives. Chemistry - A European Journal, 2010, 16, 3743-3752. | 3.3 | 112 |