# Dongâ€¥Yu Kim

List of Publications by Year
in descending order

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|---|---|---|---|
| 238 papers | 16,875 citations | 12330 69 h-index | 16650 123 g-index |
| 244 all docs | 244 docs citations | 244 times ranked | 16918 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Introduction of Water Treatment in Slotâ€Die Coated Organic Solar Cells to Improve Device Performance and Stability. Advanced Functional Materials, 2022, 32, . | 14.9 | 5 |
| 2 | Open-Shell and Closed-Shell Quinoidâ€“Aromatic Conjugated Polymers: Unusual Spin Magnetic and High Charge Transport Properties. ACS Applied Materials & Interfaces, 2021, 13, 2887-2898. | 8.0 | 16 |
| 3 | Nonpolar Solventâ€Dispersible Alkylated Reduced Graphene Oxide for Hole Transport Material in nâ€iâ€p Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100087. | 5.8 | 7 |
| 4 | Wide and Tunable Bandgap MAPbBr<sub>3â^'x</sub>Cl<sub>x</sub> Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. Solar Rrl, 2021, 5, 2000718. | 5.8 | 32 |
| 5 | Engineering the Structural Topology of Pyrene-Based Conjugated Polymers for the Selective Sorting of Semiconducting Single-Walled Carbon Nanotubes. Macromolecules, 2021, 54, 6061-6072. | 4.8 | 3 |
| 6 | Quinoidal Small Molecule Containing Ring-Extended Termini for Organic Field-Effect Transistors. ACS Omega, 2021, 6, 27305-27314. | 3.5 | 5 |
| 7 | Effect of electron-withdrawing fluorine and cyano substituents on photovoltaic properties of two-dimensional quinoxaline-based polymers. Scientific Reports, 2021, 11, 24381. | 3.3 | 6 |
| 8 | Controlling the ambipolarity of thieno-benzo-isoindigo polymer-based transistors: the balance of face-on and edge-on populations. Journal of Materials Chemistry C, 2020, 8, 296-302. | 5.5 | 23 |
| 9 | Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. ACS Applied Materials & Interfaces, 2020, 12, 36417-36427. | 8.0 | 15 |
| 10 | Formation of Large Crystalline Domains in a Semiconducting Polymer with Semi-fluorinated Alkyl Side Chains and Application to High-Performance Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 49886-49894. | 8.0 | 12 |
| 11 | Orthogonal Printable Reduced Graphene Oxide 2D Materials as Hole Transport Layers for High-Performance Inverted Polymer Solar Cells: Sheet Size Effect on Photovoltaic Properties. ACS Applied Materials & Interfaces, 2020, 12, 42811-42820. | 8.0 | 14 |
| 12 | Highâ€Performance Flexible Organic Nonvolatile Memories with Outstanding Stability Using Nickel Oxide Nanofloating Gate and Polymer Electret. Advanced Electronic Materials, 2020, 6, 2000189. | 5.1 | 12 |
| 13 | In situ study of the film formation mechanism of organicâ€“inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. Journal of Materials Chemistry A, 2020, 8, 7695-7703. | 10.3 | 29 |
| 14 | 3,4-Ethylenedioxythiophene-Based Isomer-Free Quinoidal Building Block and Conjugated Polymers for Organic Field-Effect Transistors. Macromolecules, 2020, 53, 1977-1987. | 4.8 | 28 |
| 15 | Unsymmetrical Small Molecules for Broad-Band Photoresponse and Efficient Charge Transport in Organic Phototransistors. ACS Applied Materials & Interfaces, 2020, 12, 25066-25074. | 8.0 | 16 |
| 16 | Diseleno[3,2-b :2â€²,3â€²-d ]selenophenes: Diseleno[3,2-b :2â€²,3â€²-d ]selenophene-Containing High-Mobility Conjugated Polymer for Organic Field-Effect Transistors (Adv. Sci. 13/2019). Advanced Science, 2019, 6, 1970080. | 11.2 | 0 |
| 17 | Humidityâ€Tolerant Rollâ€toâ€Roll Fabrication of Perovskite Solar Cells via Polymerâ€Additiveâ€Assisted Hot Slot Die Deposition. Advanced Functional Materials, 2019, 29, 1809194. | 14.9 | 93 |
| 18 | Diseleno[3,2â€b:2â€²,3â€²â€d]selenopheneâ€Containing Highâ€Mobility Conjugated Polymer for Organic Fieldâ€Effect Transistors. Advanced Science, 2019, 6, 1900245. | 11.2 | 32 |

| # | Article | IF | Citations |
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| 19 | Structural Insight into Aggregation and Orientation of TPD-Based Conjugated Polymers for Efficient Charge-Transporting Properties. Chemistry of Materials, 2019, 31, 4629-4638. | 6.7 | 18 |
| 20 | Kinetically Controlled Crystallization in Conjugated Polymer Films for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2019, 29, 1807786. | 14.9 | 42 |
| 21 | Printed Large-Area Photovoltaic Modules Based on Small Molecules with Different Alkyl Terminal Chains. ACS Applied Energy Materials, 2019, 2, 8885-8893. | 5.1 | 7 |
| 22 | Chlorinated Isoindigo-Based Conjugated Polymers: Effect of Rotational Freedom of Conjugated Segment on Crystallinity and Charge-Transport Characteristics. ACS Applied Polymer Materials, 2019, 1, 27-35. | 4.4 | 15 |
| 23 | Slot die coated planar perovskite solar cells via blowing and heating assisted one step deposition. Solar Energy Materials and Solar Cells, 2018, 179, 80-86. | 6.2 | 104 |
| 24 | Ï€â€Conjugated Polymers Incorporating a Novel Planar Quinoid Building Block with Extended Delocalization and High Charge Carrier Mobility. Advanced Materials, 2018, 30, e1706557. | 21.0 | 81 |
| 25 | Slot-Die Coated Perovskite Films Using Mixed Lead Precursors for Highly Reproducible and Large-Area Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 16133-16139. | 8.0 | 92 |
| 26 | Tuning non-volatile memory characteristics via molecular doping of polymer semiconductors based on ambipolar organic field-effect transistors. Organic Electronics, 2018, 58, 12-17. | 2.6 | 25 |
| 27 | Optimized Activation of Solutionâ€Processed Amorphous Oxide Semiconductors for Flexible Transparent Conductive Electrodes. Advanced Electronic Materials, 2018, 4, 1700386. | 5.1 | 12 |
| 28 | A selection rule of solvent for highly aligned diketopyrrolopyrrole-based conjugated polymer film for high performance organic field-effect transistors. Organic Electronics, 2018, 55, 6-14. | 2.6 | 33 |
| 29 | 2D/2D vanadyl phosphate (VP) on reduced graphene oxide as a hole transporting layer for efficient organic solar cells. Organic Electronics, 2018, 59, 92-98. | 2.6 | 13 |
| 30 | Simultaneous enhancement of charge density and molecular stacking order of polymer semiconductors by viologen dopants for high performance organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 5497-5505. | 5.5 | 23 |
| 31 | Domain-engineered BiFeO3 thin-film photoanodes for highly enhanced ferroelectric solar water splitting. Nano Research, 2018, 11, 642-655. | 10.4 | 88 |
| 32 | Effect of Semiâ€Fluorinated Alkyl Side Chains on Conjugated Polymers with Planar Backbone in Organic Fieldâ€Effect Transistors. Macromolecular Rapid Communications, 2018, 39, e1800431. | 3.9 | 13 |
| 33 | Controlled ambipolar charge transport of polymer semiconductors by viologen-doping for complementary-like electronic circuits. Organic Electronics, 2018, 59, 224-229. | 2.6 | 11 |
| 34 | Progress in Scalable Coating and Rollâ€toâ€Roll Compatible Printing Processes of Perovskite Solar Cells toward Realization of Commercialization. Advanced Optical Materials, 2018, 6, 1701182. | 7.3 | 52 |
| 35 | Precise Side-Chain Engineering of Thienylenevinyleneâ€“Benzotriazole-Based Conjugated Polymers with Coplanar Backbone for Organic Field Effect Transistors and CMOS-like Inverters. ACS Applied Materials & Interfaces, 2017, 9, 2758-2766. | 8.0 | 39 |
| 36 | Effect of side chains on phenanthrene based D-A type copolymers for polymer solar cells. Organic Electronics, 2017, 44, 238-246. | 2.6 | 13 |

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| 37 | Structure-property relationship of D-A type copolymers based on thienylenevinylene for organic electronics. Organic Electronics, 2017, 46, 77-87. | 2.6 | 13 |
| 38 | Improved ambipolar charge injection in organic field-effect transistors with low cost metal electrode using polymer sorted semiconducting carbon nanotubes. Organic Electronics, 2017, 46, 28-34. | 2.6 | 15 |
| 39 | Fluorophobic Effect Driven Selfâ€Organization of Semifluorinated Alkyl Chain Substituted Conjugated Polymer. Macromolecular Chemistry and Physics, 2017, 218, 1700176. | 2.2 | 8 |
| 40 | The Effect of Fluorine Substitution on the Molecular Interactions and Performance in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 24011-24019. | 8.0 | 39 |
| 41 | Ambipolar Small-Molecule:Polymer Blend Semiconductors for Solution-Processable Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 2686-2692. | 8.0 | 40 |
| 42 | Printing-friendly sequential deposition via intra-additive approach for roll-to-roll process of perovskite solar cells. Nano Energy, 2017, 41, 443-451. | 16.0 | 91 |
| 43 | Structureâ€“property relationship of Dâ€“A type copolymers based on phenanthrene and naphthalene units for organic electronics. Journal of Materials Chemistry C, 2017, 5, 10332-10342. | 5.5 | 4 |
| 44 | Polymeric Pâ€“N Heterointerface for Solutionâ€Processed Integrated Organic Optoelectronic Systems. Advanced Optical Materials, 2017, 5, 1700655. | 7.3 | 16 |
| 45 | Small-Molecule Organic Photovoltaic Modules Fabricated via Halogen-Free Solvent System with Roll-to-Roll Compatible Scalable Printing Method. ACS Applied Materials & Interfaces, 2017, 9, 39519-39525. | 8.0 | 25 |
| 46 | Selective sorting of semiconducting single-walled carbon nanotubes using thienylenevinylene-based conjugated polymers with high alkyl side-chain density. Carbon, 2017, 125, 571-581. | 10.3 | 12 |
| 47 | Solution-processed polymer-sorted semiconducting carbon nanotube network transistors with low-kâ€Š/high-k bilayer polymer dielectrics. Applied Physics Letters, 2017, 111, . | 3.3 | 15 |
| 48 | One-Step Printable Perovskite Films Fabricated under Ambient Conditions for Efficient and Reproducible Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 27832-27838. | 8.0 | 51 |
| 49 | Fabrication-Method-Dependent Excited State Dynamics in CH3NH3PbI3 Perovskite Films. Scientific Reports, 2017, 7, 16516. | 3.3 | 5 |
| 50 | A systematic study on molecular planarity and Dâ€“A conformation in thiazolothiazole- and thienylenevinylene-based copolymers for organic field-effect transistors. Journal of Materials Chemistry C, 2017, 5, 10126-10132. | 5.5 | 25 |
| 51 | A conjugated polymer with high planarity and extended Ï€-electron delocalization via a quinoid structure prepared by short synthetic steps. Polymer Chemistry, 2017, 8, 361-365. | 3.9 | 34 |
| 52 | Comparative study in terahertz modulation enhancement based on hybrid devices of perovskite and silicon. , 2017, , . | | 0 |
| 53 | Water dispersion of reduced graphene oxide stabilized via fullerenol semiconductor for organic solar cells. Optical Materials Express, 2017, 7, 2487. | 3.0 | 11 |
| 54 | Effect of Fluorine Substitution on the Charge Carrier Dynamics of Benzothiadiazoleâ€Based Solar Cell Materials. Macromolecular Rapid Communications, 2016, 37, 1242-1248. | 3.9 | 6 |

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| 55 | Enhanced performance of perovskite solar cells with solution-processed n-doping of the PCBM interlayer. RSC Advances, 2016, 6, 64962-64966. | 3.6 | 6 |
| 56 | All-optical THz wave switching based on CH3NH3PbI3 perovskites. Scientific Reports, 2016, 6, 37912. | 3.3 | 27 |
| 57 | Differentially pumped spray deposition as a rapid screening tool for organic and perovskite solar cells. Scientific Reports, 2016, 6, 20357. | 3.3 | 30 |
| 58 | Blending of n-type Semiconducting Polymer and PC<sub>61</sub>BM for an Efficient Electron-Selective Material to Boost the Performance of the Planar Perovskite Solar Cell. ACS Applied Materials & Interfaces, 2016, 8, 12822-12829. | 8.0 | 30 |
| 59 | Flexible Nanoporous WO<sub>3â€“x</sub> Nonvolatile Memory Device. ACS Nano, 2016, 10, 7598-7603. | 14.6 | 114 |
| 60 | Systematic Study of Widely Applicable Nâ€Doping Strategy for Highâ€Performance Solutionâ€Processed Fieldâ€Effect Transistors. Advanced Functional Materials, 2016, 26, 7886-7894. | 14.9 | 53 |
| 61 | Favorable Molecular Orientation Enhancement in Semiconducting Polymer Assisted by Conjugated Organic Small Molecules. Advanced Functional Materials, 2016, 26, 8527-8536. | 14.9 | 18 |
| 62 | Selective Morphology Control of Bulk Heterojunction in Polymer Solar Cells Using Binary Processing Additives. ACS Applied Materials & Interfaces, 2016, 8, 30372-30378. | 8.0 | 10 |
| 63 | Effect of Polymer Gate Dielectrics on Charge Transport in Carbon Nanotube Network Transistors: Low-k Insulator for Favorable Active Interface. ACS Applied Materials & Interfaces, 2016, 8, 32421-32431. | 8.0 | 35 |
| 64 | Reduced graphene oxide-assisted crystallization of perovskite via solution-process for efficient and stable planar solar cells with module-scales. Nano Energy, 2016, 30, 667-676. | 16.0 | 56 |
| 65 | Large Enhancement of Carrier Transport in Solutionâ€Processed Fieldâ€Effect Transistors by Fluorinated Dielectric Engineering. Advanced Materials, 2016, 28, 518-526. | 21.0 | 87 |
| 66 | Exploration of fabrication methods for planar CH3NH3PbI3 perovskite solar cells. Nano Energy, 2016, 27, 175-184. | 16.0 | 35 |
| 67 | In-depth considerations for better polyelectrolytes as interfacial materials in polymer solar cells. Nano Energy, 2016, 21, 26-38. | 16.0 | 56 |
| 68 | Simultaneous Improvement of Hole and Electron Injection in Organic Field-effect Transistors by Conjugated Polymer-wrapped Carbon Nanotube Interlayers. Scientific Reports, 2015, 5, 10407. | 3.3 | 28 |
| 69 | Synergistic High Charge-Storage Capacity for Multi-level Flexible Organic Flash Memory. Scientific Reports, 2015, 5, 12299. | 3.3 | 50 |
| 70 | Sequent spray deposition of secondary solvent for efficient polymer solar cells. Macromolecular Research, 2015, 23, 696-703. | 2.4 | 4 |
| 71 | Toward Large Scale Rollâ€toâ€Roll Production of Fully Printed Perovskite Solar Cells. Advanced Materials, 2015, 27, 1241-1247. | 21.0 | 785 |
| 72 | Solar Cells: 3D Printer Based Slot-Die Coater as a Lab-to-Fab Translation Tool for Solution-Processed Solar Cells (Adv. Energy Mater. 4/2015). Advanced Energy Materials, 2015, 5, . | 19.5 | 2 |

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| 73 | Efficient organic Schottky junction solar cells with a platinum chloride-treated PEDOT:PSS interfacial layer. Semiconductor Science and Technology, 2015, 30, 015014. | 2.0 | 2 |
| 74 | Quinoidal Molecules as a New Class of Ambipolar Semiconductor Originating from Amphoteric Redox Behavior. Advanced Functional Materials, 2015, 25, 1146-1156. | 14.9 | 74 |
| 75 | Dâ€“A copolymer with high ambipolar mobilities based on dithienothiophene and diketopyrrolopyrrole for polymer solar cells and organic field-effect transistors. Organic Electronics, 2015, 26, 251-259. | 2.6 | 20 |
| 76 | Excitation-intensity-dependent charge carrier dynamics inÂthienylenevinylene-phthalimide copolymer based thin polymerÂfilms. Polymer, 2015, 63, 208-213. | 3.8 | 6 |
| 77 | Femtosecond transient absorption dynamics in low bandgap polymer solar cell materials including poly(thienylenevinylene) derivative and benzothiadiazole moiety. Chemical Physics, 2015, 461, 29-33. | 1.9 | 3 |
| 78 | Efficient PEDOT:PSS-Free Polymer Solar Cells with an Easily Accessible Polyacrylonitrile Polymer Material as a Novel Solution-Processable Anode Interfacial Layer. ACS Applied Materials & Interfaces, 2015, 7, 25032-25038. | 8.0 | 19 |
| 79 | High-Performance Organic Field-Effect Transistors with Directionally Aligned Conjugated Polymer Film Deposited from Pre-Aggregated Solution. Chemistry of Materials, 2015, 27, 8345-8353. | 6.7 | 156 |
| 80 | Highly efficient and stable planar perovskite solar cells with reduced graphene oxide nanosheets as electrode interlayer. Nano Energy, 2015, 12, 96-104. | 16.0 | 328 |
| 81 | Morphological, optical, and electrical investigations of solution-processed reduced graphene oxide and its application to transparent electrodes in organic solar cells. Journal of Industrial and Engineering Chemistry, 2015, 21, 877-883. | 5.8 | 17 |
| 82 | 3D Printer Based Slotâ€Die Coater as a Labâ€toâ€Fab Translation Tool for Solutionâ€Processed Solar Cells. Advanced Energy Materials, 2015, 5, 1401539. | 19.5 | 196 |
| 83 | Brush painted V2O5 hole transport layer for efficient and air-stable polymer solar cells. Solar Energy Materials and Solar Cells, 2015, 132, 196-203. | 6.2 | 54 |
| 84 | Organic integrated circuits for information storage based on ambipolar polymers and charge injection engineering. Applied Physics Letters, 2014, 104, 153303. | 3.3 | 24 |
| 85 | New Donorâ€“Donor Type Copolymers with Rigid and Coplanar Structures for High-Mobility Organic Field-Effect Transistors. Chemistry of Materials, 2014, 26, 6907-6910. | 6.7 | 49 |
| 86 | A facile approach to improve light extraction for organic light emitting diodes via azobenzene surface relief gratings. Japanese Journal of Applied Physics, 2014, 53, 08NF02. | 1.5 | 6 |
| 87 | Side chains contributions to characteristics of resistive memory based on water-soluble polyfluorenes: Effects of structure and length of side pendant group. Organic Electronics, 2014, 15, 1290-1298. | 2.6 | 14 |
| 88 | Exfoliated and Partially Oxidized MoS<sub>2</sub> Nanosheets by Oneâ€Pot Reaction for Efficient and Stable Organic Solar Cells. Small, 2014, 10, 2319-2324. | 10.0 | 102 |
| 89 | Investigation into the effect of post-annealing on inverted polymer solar cells. Solar Energy Materials and Solar Cells, 2014, 120, 131-135. | 6.2 | 5 |
| 90 | Transparent graphene oxideâ€“Pt composite counter electrode fabricated by pulse current electrodeposition-for dye-sensitized solar cells. Surface and Coatings Technology, 2014, 242, 8-13. | 4.8 | 19 |

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| 91 | Sulfonic acid-functionalized, reduced graphene oxide as an advanced interfacial material leading to donor polymer-independent high-performance polymer solar cells. Journal of Materials Chemistry A, 2014, 2, 292-298. | 10.3 | 69 |
| 92 | Moderately reduced graphene oxide as hole transport layer in polymer solar cells via thermal assisted spray process. Applied Surface Science, 2014, 296, 140-146. | 6.1 | 42 |
| 93 | Bar-coated polymer ambipolar field-effect transistors and complementary integrated circuits for large area electronics. , 2014, , . | | 1 |
| 94 | Optimized Organometal Halide Perovskite Planar Hybrid Solar Cells via Control of Solvent Evaporation Rate. Journal of Physical Chemistry C, 2014, 118, 26513-26520. | 3.1 | 58 |
| 95 | Stable charge storing in two-dimensional MoS<sub>2</sub>nanoflake floating gates for multilevel organic flash memory. Nanoscale, 2014, 6, 12315-12323. | 5.6 | 64 |
| 96 | An Approach for an Advanced Anode Interfacial Layer with Electron-Blocking Ability to Achieve High-Efficiency Organic Photovoltaics. ACS Applied Materials & Interfaces, 2014, 6, 19613-19620. | 8.0 | 24 |
| 97 | Control of Ambipolar and Unipolar Transport in Organic Transistors by Selective InkjetâEPrinted Chemical Doping for High Performance Complementary Circuits. Advanced Functional Materials, 2014, 24, 6252-6261. | 14.9 | 116 |
| 98 | Influence of the Ionic Functionalities of Polyfluorene Derivatives as a Cathode Interfacial Layer on Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 6227-6236. | 8.0 | 69 |
| 99 | Solution-Processed Barium Salts as Charge Injection Layers for High Performance N-Channel Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2014, 6, 9614-9621. | 8.0 | 37 |
| 100 | Simultaneous Enhancement of Electron Injection and Air Stability in N-Type Organic Field-Effect Transistors by Water-Soluble Polyfluorene Interlayers. ACS Applied Materials & Interfaces, 2014, 6, 8108-8114. | 8.0 | 18 |
| 101 | A thienylenevinylene-phthalimide copolymer based polymer solar cell with high open circuit voltage: Effect of additive concentration on the open circuit voltage. Solar Energy Materials and Solar Cells, 2014, 125, 253-260. | 6.2 | 13 |
| 102 | Planar heterojunction perovskite solar cells with superior reproducibility. Scientific Reports, 2014, 4, 6953. | 3.3 | 208 |
| 103 | Spray-printed organic field-effect transistors and complementary inverters. Journal of Materials Chemistry C, 2013, 1, 1500. | 5.5 | 40 |
| 104 | Efficient polymer solar cells with a solution-processed gold chloride as an anode interfacial modifier. Applied Physics Letters, 2013, 102, 163302. | 3.3 | 13 |
| 105 | Printed, Flexible, Organic NanoâEFloatingâEGate Memory: Effects of Metal Nanoparticles and Blocking Dielectrics on Memory Characteristics. Advanced Functional Materials, 2013, 23, 3503-3512. | 14.9 | 200 |
| 106 | Building a hybrid nanocomposite assembly of gold nanowires and thienyl-derivative fullerenes to enhance electron transfer in photovoltaics. Journal of Materials Chemistry A, 2013, 1, 5015. | 10.3 | 6 |
| 107 | Flexible Complementary Logic Gates Using Inkjet-Printed Polymer Field-Effect Transistors. IEEE Electron Device Letters, 2013, 34, 126-128. | 3.9 | 44 |
| 108 | Synthesis and characterization of a novel ambipolar polymer semiconductor based on a fumaronitrile core as an electronâEwithdrawing group. Journal of Polymer Science Part A, 2013, 51, 1029-1039. | 2.3 | 10 |

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| 109 | Efficient work-function engineering of solution-processed MoS2 thin-films for novel hole and electron transport layers leading to high-performance polymer solar cells. Journal of Materials Chemistry C, 2013, 1, 3777. | 5.5 | 173 |
| 110 | Optimal Ambipolar Charge Transport of Thienylenevinylene-Based Polymer Semiconductors by Changes in Conformation for High-Performance Organic Thin Film Transistors and Inverters. Chemistry of Materials, 2013, 25, 1572-1583. | 6.7 | 55 |
| 111 | Low-voltage, high speed inkjet-printed flexible complementary polymer electronic circuits. Organic Electronics, 2013, 14, 1407-1418. | 2.6 | 63 |
| 112 | Successive solvent-treated PEDOT:PSS electrodes for flexible ITO-free organic photovoltaics. Solar Energy Materials and Solar Cells, 2013, 114, 104-109. | 6.2 | 64 |
| 113 | Inkjet-Printing-Based Soft-Etching Technique for High-Speed Polymer Ambipolar Integrated Circuits. ACS Applied Materials & Interfaces, 2013, 5, 12579-12586. | 8.0 | 12 |
| 114 | High Performance and Stable N-Channel Organic Field-Effect Transistors by Patterned Solvent-Vapor Annealing. ACS Applied Materials & Interfaces, 2013, 5, 10745-10752. | 8.0 | 60 |
| 115 | Simple Barâ€Coating Process for Largeâ€Area, Highâ€Performance Organic Fieldâ€Effect Transistors and Ambipolar Complementary Integrated Circuits. Advanced Materials, 2013, 25, 4302-4308. | 21.0 | 210 |
| 116 | Nonvolatile Ferroelectric P(VDF-TrFE) Memory Transistors Based on Inkjet-Printed Organic Semiconductor. ETRI Journal, 2013, 35, 734-737. | 2.0 | 11 |
| 117 | A Novel Thermally Reversible Solubleâ€Insoluble Conjugated Polymer with Semiâ€Fluorinated Alkyl Chains: Enhanced Transistor Performance by Fluorophobic Selfâ€Organization and Orthogonal Hydrophobic Patterning. Advanced Materials, 2013, 25, 6416-6422. | 21.0 | 34 |
| 118 | Organic Electronics: Printed, Flexible, Organic Nanoâ€Floatingâ€Gate Memory: Effects of Metal Nanoparticles and Blocking Dielectrics on Memory Characteristics (Adv. Funct. Mater. 28/2013). Advanced Functional Materials, 2013, 23, 3482-3482. | 14.9 | 4 |
| 119 | Organic Complementary Circuits: Remarkable Enhancement of Hole Transport in Top-Gated N-Type Polymer Field-Effect Transistors by a High-k Dielectric for Ambipolar Electronic Circuits (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo | 21.0 | 34 |
| 120 | High-performance polymer solar cells with moderately reduced graphene oxide as an efficient hole transporting layer. Solar Energy Materials and Solar Cells, 2012, 105, 96-102. | 6.2 | 101 |
| 121 | Electron injection enhancement by a Cs-salt interlayer in ambipolar organic field-effect transistors and complementary circuits. Journal of Materials Chemistry, 2012, 22, 16979. | 6.7 | 32 |
| 122 | Photonic frequency up-converter based on cross polarization modulation effect in a semiconductor optical amplifier. , 2012, , . | | 0 |
| 123 | Flexible organic solar cells composed of P3HT:PCBM using chemically doped graphene electrodes. Nanotechnology, 2012, 23, 344013. | 2.6 | 119 |
| 124 | Controlled Charge Transport by Polymer Blend Dielectrics in Top-Gate Organic Field-Effect Transistors for Low-Voltage-Operating Complementary Circuits. ACS Applied Materials & Interfaces, 2012, 4, 6176-6184. | 8.0 | 77 |
| 125 | Moderately reduced graphene oxide as transparent counter electrodes for dye-sensitized solar cells. Electrochimica Acta, 2012, 81, 301-307. | 5.2 | 52 |
| 126 | Poster title (mass spectrometric protein profiling analyses of pathological and physiological) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td | | 0 |

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|---|---|---|---|
| 127 | Significant Vertical Phase Separation in Solvent-Vapor-Annealed Poly(3,4-ethylenedioxythiophene):Poly(styrene sulfonate) Composite Films Leading to Better Conductivity and Work Function for High-Performance Indium Tin Oxide-Free Optoelectronics. ACS Applied Materials & Interfaces, 2012, 4, 2551-2560. | 8.0 | 162 |
| 128 | Solutionâ€processible polymer solar cells fabricated on a papery substrate. Physica Status Solidi - Rapid Research Letters, 2012, 6, 13-15. | 2.4 | 30 |
| 129 | Highly stable printed polymer field-effect transistors and inverters via polyselenophene conjugated polymers. Journal of Materials Chemistry, 2012, 22, 12774. | 6.7 | 31 |
| 130 | Highâ€Performance Topâ€Gated Organic Fieldâ€Effect Transistor Memory using Electrets for Monolithic Printed Flexible NAND Flash Memory. Advanced Functional Materials, 2012, 22, 2915-2926. | 14.9 | 184 |
| 131 | Remarkable Enhancement of Hole Transport in Topâ€Gated Nâ€Type Polymer Fieldâ€Effect Transistors by a Highâ€k Dielectric for Ambipolar Electronic Circuits. Advanced Materials, 2012, 24, 5433-5439. | 21.0 | 176 |
| 132 | All-solution-processed ITO-free polymer solar cells fabricated on copper sheets. Solar Energy Materials and Solar Cells, 2012, 98, 168-171. | 6.2 | 17 |
| 133 | Highly Soluble Poly(thienylenevinylene) Derivatives with Charge-Carrier Mobility Exceeding 1 cm2Vâ€“1sâ€“1. Chemistry of Materials, 2011, 23, 4663-4665. | 6.7 | 72 |
| 134 | Synthesis and characterization of low-band-gap poly(thienylenevinylene) derivatives for polymer solar cells. Journal of Materials Chemistry, 2011, 21, 11822. | 6.7 | 33 |
| 135 | Charge Injection Engineering of Ambipolar Field-Effect Transistors for High-Performance Organic Complementary Circuits. ACS Applied Materials & Interfaces, 2011, 3, 3205-3214. | 8.0 | 150 |
| 136 | Polymer and Organic Nonvolatile Memory Devices. Chemistry of Materials, 2011, 23, 341-358. | 6.7 | 506 |
| 137 | Polymer Dielectrics and Orthogonal Solvent Effects for High-Performance Inkjet-Printed Top-Gated P-Channel Polymer Field-Effect Transistors. ETRI Journal, 2011, 33, 887-896. | 2.0 | 29 |
| 138 | A hybridized electron-selective layer using Sb-doped SnO2 nanowires for efficient inverted polymer solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2874-2879. | 6.2 | 41 |
| 139 | High speeds complementary integrated circuits fabricated with allâ€printed polymeric semiconductors. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 62-67. | 2.1 | 102 |
| 140 | Synthesis and Characterization of Poly(Dithieno[3,2â€<i>b</i>:2â€²,3â€²â€<i>d</i>]pyrrole) Derivatives Containing Thiophene Moieties and Their Application to Organic Devices. Macromolecular Chemistry and Physics, 2011, 212, 2308-2318. | 2.2 | 12 |
| 141 | Synthesis and Photovoltaic Properties of a Thienylenevinylene and Diketopyrrolopyrrole Copolymer with High Mobility. Macromolecular Rapid Communications, 2011, 32, 1551-1556. | 3.9 | 28 |
| 142 | Direct Observation of Ag Filamentary Paths in Organic Resistive Memory Devices. Advanced Functional Materials, 2011, 21, 3976-3981. | 14.9 | 149 |
| 143 | Enhanced Charge Injection in Pentacene Fieldâ€Effect Transistors with Graphene Electrodes. Advanced Materials, 2011, 23, 100-105. | 21.0 | 124 |
| 144 | Solutionâ€Processable Reduced Graphene Oxide as a Novel Alternative to PEDOT:PSS Hole Transport Layers for Highly Efficient and Stable Polymer Solar Cells. Advanced Materials, 2011, 23, 4923-4928. | 21.0 | 363 |

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