

Jea Woong Jo

List of Publications by Year in descending order

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201674

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#	ARTICLE	IF	CITATIONS
1	Fluoro-Substituted n-Type Conjugated Polymers for Additive-Free All-Polymer Bulk Heterojunction Solar Cells with High Power Conversion Efficiency of 6.71%. <i>Advanced Materials</i> , 2015, 27, 3310-3317.	21.0	421
2	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 11378-11386.	13.7	326
3	Fabrication of Highly Conductive and Transparent Thin Films from Single-Walled Carbon Nanotubes Using a New Non-ionic Surfactant <i>via</i> Spin Coating. <i>ACS Nano</i> , 2010, 4, 5382-5388.	14.6	215
4	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020, 11, 103.	12.8	181
5	Fluorination on both D and A units in A type conjugated copolymers based on difluorobithiophene and benzothiadiazole for highly efficient polymer solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 2427-2434.	30.8	168
6	Fluorination of Polythiophene Derivatives for High Performance Organic Photovoltaics. <i>Chemistry of Materials</i> , 2014, 26, 4214-4220.	6.7	142
7	Improving Performance and Stability of Flexible Planar Heterojunction Perovskite Solar Cells Using Polymeric Hole-Transport Material. <i>Advanced Functional Materials</i> , 2016, 26, 4464-4471.	14.9	136
8	Degradation and stability of polymer-based solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 24265.	6.7	134
9	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1702350.	21.0	126
10	Comparison of Two A Type Polymers with Each Being Fluorinated on D and A Unit for High Performance Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 120-125.	14.9	108
11	Enhanced Performance and Air Stability of Polymer Solar Cells by Formation of a Self-Assembled Buffer Layer from Fullerene-Capped Poly(ethylene glycol). <i>Advanced Materials</i> , 2011, 23, 1782-1787.	21.0	106
12	Recent progress in high efficiency polymer solar cells by rational design and energy level tuning of low bandgap copolymers with various electron-withdrawing units. <i>Organic Electronics</i> , 2016, 31, 149-170.	2.6	103
13	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1805580.	21.0	87
14	Amide-Catalyzed Phase-Selective Crystallization Reduces Defect Density in Wide-Bandgap Perovskites. <i>Advanced Materials</i> , 2018, 30, e1706275.	21.0	80
15	Butylamine-Catalyzed Synthesis of Nanocrystal Inks Enables Efficient Infrared CQD Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1803830.	21.0	67
16	A low band-gap polymer based on unsubstituted benzo[1,2-b:4,5-b']dithiophene for high performance organic photovoltaics. <i>Chemical Communications</i> , 2012, 48, 6933.	4.1	66
17	Activated Electron-Transport Layers for Infrared Quantum Dot Optoelectronics. <i>Advanced Materials</i> , 2018, 30, e1801720.	21.0	57
18	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , 2018, 18, 4417-4423.	9.1	57

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19	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. <i>Nature Communications</i> , 2018, 9, 4003.	12.8	56
20	Effect of Molecular Orientation of Donor Polymers on Charge Generation and Photovoltaic Properties in Bulk Heterojunction All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601365.	19.5	51
21	Efficiency enhancement of P3HT/PCBM bulk heterojunction solar cells by attaching zinc phthalocyanine to the chain-end of P3HT. <i>Journal of Materials Chemistry</i> , 2011, 21, 17209.	6.7	49
22	Enhanced Open-Circuit Voltage in Colloidal Quantum Dot Photovoltaics via Reactivity-Controlled Solution-Phase Ligand Exchange. <i>Advanced Materials</i> , 2017, 29, 1703627.	21.0	49
23	Nanoimprint-Transfer-Patterned Solids Enhance Light Absorption in Colloidal Quantum Dot Solar Cells. <i>Nano Letters</i> , 2017, 17, 2349-2353.	9.1	46
24	Development of Self-Doped Conjugated Polyelectrolytes with Controlled Work Functions and Application to Hole Transport Layer Materials for High-Performance Organic Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500703.	3.7	41
25	High-Performance and Uniform 1 cm^2 Polymer Solar Cells with D ₁ -Type Random Terpolymers. <i>Advanced Energy Materials</i> , 2018, 8, 1701405.	19.5	39
26	Graphene-based electrodes for flexible electronics. <i>Polymer International</i> , 2015, 64, 1676-1684.	3.1	33
27	A fluorinated polythiophene hole-transport material for efficient and stable perovskite solar cells. <i>Dyes and Pigments</i> , 2019, 164, 1-6.	3.7	31
28	In-situ preparation of graphene/poly(styrenesulfonic acid-graft-polyaniline) nanocomposite via direct exfoliation of graphite for supercapacitor application. <i>Carbon</i> , 2016, 105, 191-198.	10.3	27
29	A tailored graft-type polymer as a dopant-free hole transport material in indoor perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15294-15300.	10.3	27
30	Non-hydrolytic sol-gel route to synthesize TiO ₂ nanoparticles under ambient condition for highly efficient and stable perovskite solar cells. <i>Solar Energy</i> , 2019, 185, 307-314.	6.1	25
31	Development of organic-inorganic double hole-transporting material for high performance perovskite solar cells. <i>Journal of Power Sources</i> , 2018, 378, 98-104.	7.8	24
32	Infrared Cavity-Enhanced Colloidal Quantum Dot Photovoltaics Employing Asymmetric Multilayer Electrodes. <i>ACS Energy Letters</i> , 2018, 3, 2908-2913.	17.4	20
33	Isindigo-based conjugated polymer for high-performance organic solar cell with a high VOC of 1.06 V as processed from non-halogenated solvent. <i>Dyes and Pigments</i> , 2019, 161, 113-118.	3.7	20
34	Controlling the Morphology of Organic-Inorganic Hybrid Perovskites through Dual Additive-Mediated Crystallization for Solar Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17452-17458.	8.0	19
35	Synthesis of thieno[3,4-d]thiazole-based conjugated polymers and HOMO level tuning for high VOC photovoltaic cell. <i>Organic Electronics</i> , 2012, 13, 1322-1328.	2.6	18
36	Synthesis of a low bandgap polymer based on a thiadiazolo-indolo[3,2-b]carbazole derivative for enhancement of open circuit voltage of polymer solar cells. <i>Polymer Chemistry</i> , 2012, 3, 2928.	3.9	17

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37	Synergistic effects of solvent and polymer additives on solar cell performance and stability of small molecule bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18383-18391.	10.3	17
38	Low-Temperature Processable Charge Transporting Materials for the Flexible Perovskite Solar Cells. <i>Electronic Materials Letters</i> , 2018, 14, 657-668.	2.2	17
39	Configurational Random Polythiophene for Improved Polymer Ordering and Charge-Transporting Ability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40599-40606.	8.0	16
40	Effect of fluorine substitution on photovoltaic performance of DPP-based copolymer. <i>Organic Electronics</i> , 2015, 20, 125-131.	2.6	12
41	Development of Novel Conjugated Polyelectrolytes as Water-Processable Interlayer Materials for High-Performance Organic Photodiodes. <i>ACS Photonics</i> , 2017, 4, 703-709.	6.6	12
42	Enhanced photovoltaic performance of solution-processed Sb ₂ Se ₃ thin film solar cells by optimizing device structure. <i>Current Applied Physics</i> , 2020, 20, 282-287.	2.4	11
43	Solid-State Electrolyte Dielectrics Based on Exceptional High P(VDF-TrFE) Terpolymer for High-Performance Field-Effect Transistors. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000842.	3.7	10
44	Inclusion of triphenylamine unit in dopant-free hole transport material for enhanced interfacial interaction in perovskite photovoltaics. <i>Dyes and Pigments</i> , 2022, 200, 110162.	3.7	10
45	Structurally-tuned benzo[1,2-b:4,5-b']dithiophene-based polymer as a dopant-free hole transport material for perovskite solar cells. <i>Journal of Polymer Science</i> , 2022, 60, 985-991.	3.8	9
46	Isoindigo-based fluorinated low band gap polymers for environmentally stable field effect transistor. <i>Dyes and Pigments</i> , 2016, 133, 333-338.	3.7	8
47	Development of a conjugated donor-acceptor polyelectrolyte with high work function and conductivity for organic solar cells. <i>Organic Electronics</i> , 2017, 50, 1-6.	2.6	8
48	Understanding Effects of Ion Diffusion on Charge Carrier Mobility of Electrolyte-Gated Organic Transistor Using Ionic Liquid-Embedded Poly(3-hexylthiophene). <i>Advanced Functional Materials</i> , 2022, 32, 2108215.	14.9	8
49	Improved Electron Transport in Ambipolar Organic Field-Effect Transistors with PMMA/Polyurethane Blend Dielectrics. <i>Macromolecular Research</i> , 2020, 28, 1248-1252.	2.4	6
50	Concentrated perovskite photovoltaics enable minimization of energy loss below 0.5 eV under artificial light-emitting diode illumination. <i>International Journal of Energy Research</i> , 0, , .	4.5	6
51	Surface-Passivated CsPbBr ₃ for Developing Efficient and Stable Perovskite Photovoltaics. <i>Crystals</i> , 2021, 11, 1588.	2.2	6
52	Development of intrinsically fullerene-compatible polymers: Strategy for developing high performance organic solar cells using a non-halogenated solvent. <i>Dyes and Pigments</i> , 2016, 132, 103-109.	3.7	5
53	Random copolymerization of polythiophene for simultaneous enhancement of in-plane and out-of-plane charge transport for organic transistors and perovskite solar cells. <i>International Journal of Energy Research</i> , 2021, 45, 7998-8007.	4.5	5
54	Ionic liquid-mediated reconstruction of perovskite surface for highly efficient photovoltaics. <i>Chemical Engineering Journal</i> , 2022, 446, 137351.	12.7	5

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55	Exploring low-k dielectrics as structuring polymers for solid-state electrolyte-gated transistors. Organic Electronics, 2019, 75, 105434.	2.6	3
56	High-mobility amorphous PTB7 organic transistors enabled by high-capacitance electrolyte dielectric. Applied Physics Letters, 2021, 119, .	3.3	3
57	Perovskite Photovoltaics for Artificial Light Harvesting. Chemistry - A European Journal, 2022, 28, .	3.3	3
58	High-purity synthesis of all-inorganic CsPbBr_3 perovskite powder assisted by solubilizing organic ligand and its application to perovskite solar cells. International Journal of Energy Research, 0, .	4.5	3
59	Flexible Electronics: Improving Performance and Stability of Flexible Planar Heterojunction Perovskite Solar Cells Using Polymeric Hole-transport Material (Adv. Funct. Mater. 25/2016). Advanced Functional Materials, 2016, 26, 4426-4426.	14.9	2
60	Stable electrolyte dielectric engineered bottom-gate poly(3-hexylthiophene) transistors with enhanced mobility. Organic Electronics, 2022, 102, 106430.	2.6	2
61	Random copolymerization of regiorandom polythiophene to improve planarity, aggregation and hole-transport. Dyes and Pigments, 2021, 185, 108943.	3.7	1
62	Modulation of energy levels and vertical charge transport in polythiophene through copolymerization of non-fluorinated and fluorinated units for organic indoor photovoltaics. Dyes and Pigments, 2021, 190, 109292.	3.7	1
63	Frontispiece: Perovskite Photovoltaics for Artificial Light Harvesting. Chemistry - A European Journal, 2022, 28, .	3.3	0