

Woongsik Jang

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

471
citations

840776

11
h-index

752698

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38
all docs

38
docs citations

38
times ranked

576
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in organic solar cells based on non-fullerene acceptors: materials to devices. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3255-3295.	10.3	105
2	Strong dark current suppression in flexible organic photodetectors by carbon nanotube transparent electrodes. <i>Nano Today</i> , 2021, 37, 101081.	11.9	50
3	Superior Noise Suppression, Response Time, and Device Stability of Non-Fullerene System over Fullerene Counterpart in Organic Photodiode. <i>Advanced Functional Materials</i> , 2020, 30, 2001402.	14.9	42
4	Work function optimization of vacuum free top-electrode by PEDOT:PSS/PEI interaction for efficient semi-transparent perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 435-440.	6.2	36
5	Controlled pH of PEDOT:PSS for Reproducible Efficiency in Inverted Perovskite Solar Cells: Independent of Active Area and Humidity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8245-8254.	6.7	23
6	Acidity Suppression of Hole Transport Layer via Solution Reaction of Neutral PEDOT:PSS for Stable Perovskite Photovoltaics. <i>Polymers</i> , 2020, 12, 129.	4.5	21
7	Alignment of Cascaded Band-Gap via PCBM/ZnO Hybrid Interlayers for Efficient Perovskite Photovoltaic Cells. <i>Macromolecular Research</i> , 2018, 26, 472-476.	2.4	16
8	Dry-Stamping-Transferred PC71BM Charge Transport Layer via an Interface-Controlled Polyurethane Acrylate Mold Film for Efficient Planar-Type Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15623-15630.	8.0	15
9	Morphology Inversion of a Non-Fullerene Acceptor Via Adhesion Controlled Decal Coating for Efficient Conversion and Detection in Organic Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2103705.	14.9	15
10	Counterbalancing of morphology and conductivity of poly(3,4-ethylenedioxythiophene) polystyrene sulfonate based flexible devices. <i>Nanoscale</i> , 2016, 8, 19557-19563.	5.6	13
11	Tailoring solubility of methylammonium lead halide with non-stoichiometry molar ratio in perovskite solar cells: Morphological and electrical relationships for high current generation. <i>Solar Energy Materials and Solar Cells</i> , 2019, 192, 24-35.	6.2	13
12	One-step formation of core/shell structure based on hydrophobic silane ligands for enhanced luminescent perovskite quantum dots. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161347.	5.5	12
13	Morphology fixing agent for [6,6]-phenyl C ₆₁ -butyric acid methyl ester (PC ₆₀ BM) in planar-type perovskite solar cells for enhanced stability. <i>RSC Advances</i> , 2016, 6, 51513-51519.	3.6	10
14	Facile NiOx Sol-Gel Synthesis Depending on Chain Length of Various Solvents without Catalyst for Efficient Hole Charge Transfer in Perovskite Solar Cells. <i>Polymers</i> , 2018, 10, 1227.	4.5	10
15	The Investigation of the Seebeck Effect of the Poly(3,4-Ethylenedioxythiophene)-Tosylate with the Various Concentrations of an Oxidant. <i>Polymers</i> , 2019, 11, 21.	4.5	10
16	Vacuum-process-based dry transfer of active layer with solvent additive for efficient organic photovoltaic devices. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1106-1112.	5.5	9
17	Selective Soxhlets extraction to enhance solubility of newly-synthesized poly(indoloindole-selenophene vinylene selenophene) donor for photovoltaic applications. <i>Nano Convergence</i> , 2020, 7, 9.	12.1	9
18	Morphological engineering via processing additive in thin film bulk-heterojunction photovoltaic cells: A systematic understanding of crystal size and charge transport. <i>Current Applied Physics</i> , 2016, 16, 1424-1430.	2.4	8

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19	Long-Term Stable Transferred Organic Photoactive Layer-Based Photodiode with Controlled Wetting through Interface Stabilization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38603-38609.	8.0	6
20	Selective UV Absorbance of Copper Chalcogenide Nanoparticles for Enhanced Illumination Durability in Perovskite Photovoltaics. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7617-7627.	6.7	6
21	Versatile Pendant Polymer for Selective Charge Carrier Transport via Controlling the Supramolecular Self-Assembly. <i>ChemSusChem</i> , 2021, 14, 5167-5178.	6.8	6
22	Chelating Agent Mediated Sol-Gel Synthesis for Efficient Hole Extracted Perovskite Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25184-25195.	3.1	5
23	Formulation of conductive nanocomposites by incorporating silver-doped carbon quantum dots for efficient charge extraction. <i>International Journal of Energy Research</i> , 2021, 45, 21324-21339.	4.5	5
24	Mesoporous Trap of Molecular Sieves via Water-Selective Capture for Stable Perovskite Quantum Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1115-1124.	6.7	5
25	Selective Doping of Conjugated Block Copolymer for Organic Thermoelectric Applications. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2019, 23, 222-234.	2.6	3
26	Gamma-ray irradiation of lead iodide precursor for enhanced perovskite crystalline properties. <i>Applied Surface Science</i> , 2022, 571, 151263.	6.1	3
27	Physical engineering of anti-solvents in perovskite precipitation for enhanced photosensitive affinity. <i>International Journal of Energy Research</i> , 2022, 46, 9748-9760.	4.5	3
28	A gold nanodot array imprinting process based on solid-state dewetting for efficient oxide-free photovoltaic devices. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	2
29	Tris(4-(1-phenyl-1H-benzodimidazole)phenyl)phosphine oxide for enhanced mobility and restricted traps in photovoltaic interlayers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3642-3651.	5.5	2
30	Suppressed oxidation in organic photovoltaics via hydrogen-bonded polyurethane acrylate resin encapsulation. <i>Journal of Power Sources</i> , 2022, 528, 231206.	7.8	2
31	Nanopatterned bulk-heterojunction photovoltaic cells using polyurethane acrylate (PUA) film replica of colloidal crystal arrays via stamping transfer process. <i>Macromolecular Research</i> , 2016, 24, 483-487.	2.4	1
32	Versatile Pendant Polymer for Selective Charge Carrier Transport via Controlling the Supramolecular Self-Assembly. <i>ChemSusChem</i> , 2021, 14, 5078.	6.8	0