

Song Yi Park

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,770
citations

257450
24
h-index

276875
41
g-index

56
all docs

56
docs citations

56
times ranked

2630
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Bilayer Photovoltaics for Efficient Indoor Light Harvesting. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	35
2	Light-intensity-dependent photoresponse time of organic photodetectors and its molecular origin. <i>Nature Communications</i> , 2022, 13, .	12.8	31
3	Strong Intermolecular Interactions Induced by High Quadrupole Moments Enable Excellent Photostability of Non-Fullerene Acceptors for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	10
4	Designing a naphthyridinedione-based conjugated polymer for thickness-tolerant high efficiency polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10846-10854.	10.3	7
5	Photophysical pathways in efficient bilayer organic solar cells: The importance of interlayer energy transfer. <i>Nano Energy</i> , 2021, 84, 105924.	16.0	33
6	Planar Organic Bilayer Heterojunctions Fabricated on Water with Ultrafast Donor-Acceptor Charge Transfer. <i>Solar Rrl</i> , 2021, 5, 2100326.	5.8	8
7	Elimination of Charge Transfer Energy Loss by Introducing a Small-Molecule Secondary Donor into Fullerene-Based Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 8375-8382.	5.1	8
8	Effects on Photovoltaic Characteristics by Organic Bilayer- and Bulk-Heterojunctions: Energy Losses, Carrier Recombination and Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55945-55953.	8.0	14
9	Aesthetic and colorful: Dichroic polymer solar cells using high-performance Fabry-Pérot etalon electrodes with a unique Sb ₂ O ₃ cavity. <i>Nano Energy</i> , 2020, 77, 105146.	16.0	25
10	High colloidal stability ZnO nanoparticles independent on solvent polarity and their application in polymer solar cells. <i>Scientific Reports</i> , 2020, 10, 18055.	3.3	25
11	2D Star-Shaped Non-Fullerene Electron Acceptors with Modulation of J _A /H _A Type Aggregations: Molecular Design-Morphology-Electrical Property Correlation. <i>Advanced Materials Technologies</i> , 2020, 5, 2000174.	5.8	4
12	Dichroic Sb ₂ O ₃ /Ag/Sb ₂ O ₃ Electrodes for Colorful Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000201.	5.8	15
13	Regioisomeric Polythiophene Derivatives: Synthesis and Structure-Property Relationships for Organic Electronic Devices. <i>Macromolecular Research</i> , 2020, 28, 772-781.	2.4	4
14	Functionalized PFN-X (X = Cl, Br, or I) for Balanced Charge Carriers of Highly Efficient Blue Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35740-35747.	8.0	31
15	Dithienogermole-Based Nonfullerene Acceptors: Roles of the Side-Chains™ Direction and Development of Green-Tinted Efficient Semitransparent Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 7689-7698.	5.1	21
16	Thermally Durable Nonfullerene Acceptor with Nonplanar Conjugated Backbone for High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903585.	19.5	30
17	Recent progress in indoor organic photovoltaics. <i>Nanoscale</i> , 2020, 12, 5792-5804.	5.6	126
18	Efficient Exciton Diffusion in Organic Bilayer Heterojunctions with Nonfullerene Small Molecular Acceptors. <i>ACS Energy Letters</i> , 2020, 5, 1628-1635.	17.4	52

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19	Vivid and Fully Saturated Blue Light-Emitting Diodes Based on Ligand-Modified Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23401-23409.	8.0	60
20	Synergistic combination of amorphous indium oxide with tantalum pentoxide for efficient electron transport in low-power electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4559-4566.	5.5	6
21	Conjugated Polyelectrolytes Bearing Various Ion Densities: Spontaneous Dipole Generation, Poling-Induced Dipole Alignment, and Interfacial Energy Barrier Control for Optoelectronic Device Applications. <i>Advanced Materials</i> , 2018, 30, e1706034.	21.0	12
22	Alkoxybenzothiadiazole-Based Fullerene and Nonfullerene Polymer Solar Cells with High Shunt Resistance for Indoor Photovoltaic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3885-3894.	8.0	52
23	Non-halogenated diphenyl-chalcogenide solvent processing additives for high-performance polymer bulk-heterojunction solar cells. <i>RSC Advances</i> , 2018, 8, 39777-39783.	3.6	6
24	Silicon Nanocanyon: One-Step Bottom-Up Fabrication of Black Silicon via in-Lasing Hydrophobic Self-Clustering of Silicon Nanocrystals for Sustainable Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36523-36530.	8.0	8
25	Reversible, Full-Color Luminescence by Post-treatment of Perovskite Nanocrystals. <i>Joule</i> , 2018, 2, 2105-2116.	24.0	61
26	Conjugated Polyelectrolytes as Efficient Hole Transport Layers in Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 5826-5833.	14.6	56
27	Formamidinium-based planar heterojunction perovskite solar cells with alkali carbonate-doped zinc oxide layer. <i>RSC Advances</i> , 2018, 8, 24110-24115.	3.6	10
28	Effect of Substituents of Thienylene-Vinylene-Thienylene-Based Conjugated Polymer Donors on the Performance of Fullerene and Nonfullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16613-16623.	3.1	13
29	Implementation of Low-Power Electronic Devices Using Solution-Processed Tantalum Pentoxide Dielectric. <i>Advanced Functional Materials</i> , 2018, 28, 1704215.	14.9	17
30	A universal processing additive for high-performance polymer solar cells. <i>RSC Advances</i> , 2017, 7, 7476-7482.	3.6	58
31	ZnO decorated germanium nanoparticles as anode materials in Li-ion batteries. <i>Nanotechnology</i> , 2017, 28, 095402.	2.6	6
32	Effect of Heterocyclic Anchoring Sequence on the Properties of Dithienogermole-Based Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7091-7099.	8.0	16
33	Semi-crystalline photovoltaic polymers with siloxane-terminated hybrid side-chains. <i>Science China Chemistry</i> , 2017, 60, 528-536.	8.2	3
34	High-efficiency photovoltaic cells with wide optical band gap polymers based on fluorinated phenylene-alkoxybenzothiadiazole. <i>Energy and Environmental Science</i> , 2017, 10, 1443-1455.	30.8	84
35	Naphthalene diimide-based small molecule acceptors for fullerene-free organic solar cells. <i>Solar Energy</i> , 2017, 150, 90-95.	6.1	30
36	Single Component Organic Solar Cells Based on Oligothiophene-Fullerene Conjugate. <i>Advanced Functional Materials</i> , 2017, 27, 1702474.	14.9	91

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37	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. Nano Letters, 2017, 17, 6385-6390.	9.1	106
38	Thiophene and Naphtho[1,2-c:5,6-c]bis[1,2,5]thiadiazole Based Alternating Copolymers for Polymer Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 553-559.	0.3	2
39	Conjugated polymers containing 6-(2-thienyl)-4H-thieno[3,2-b]indole (TTI) and isoindigo for organic photovoltaics. Polymer, 2016, 95, 36-44.	3.8	18
40	Solar Cells: Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells (Adv. Energy Mater. 19/2016). Advanced Energy Materials, 2016, 6, .	19.5	0
41	Syntheses of PCDTBT containing tetrafluorobenzene as electron-withdrawing group with deep HOMO energy level and Applications for photovoltaics. Polymer, 2016, 102, 84-91.	3.8	4
42	High-efficiency, hybrid Si/C60 heterojunction solar cells. Journal of Materials Chemistry A, 2016, 4, 16410-16417.	10.3	11
43	Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1600637.	19.5	85
44	Straight chain Dâ€A copolymers based on thienothiophene and benzothiadiazole for efficient polymer field effect transistors and photovoltaic cells. Polymer Chemistry, 2016, 7, 4638-4646.	3.9	29
45	Quinoxalineâ€“thiophene based thick photovoltaic devices with an efficiency of ~1/48%. Journal of Materials Chemistry A, 2016, 4, 9967-9976.	10.3	49
46	Synthesis and TFT Properties of Fluorenyl Cored Conjugated Compound for Organic Thin Film Transistors. Journal of Nanoscience and Nanotechnology, 2016, 16, 2979-2982.	0.9	2
47	Capacity retention behavior and morphology evolution of Si_xGe_{1â€“x} nanoparticles as lithium-ion battery anode. Nanotechnology, 2015, 26, 255702.	2.6	13
48	Syntheses and solar cell applications of conjugated copolymers consisting of 3,3â€“dicarboximide and benzodithiophene units with thiophene and bithiophene linkage. Solar Energy Materials and Solar Cells, 2015, 141, 24-31.	6.2	3
49	Dithienogermoleâ€“Containing Smallâ€“Molecule Solar Cells with 7.3% Efficiency: Inâ€“Depth Study on the Effects of Heteroatom Substitution of Si with Ge. Advanced Energy Materials, 2015, 5, 1402044.	19.5	40
50	Synthesis and properties of low band gap polymers based on thienyl thienoindole as a new electron-rich unit for organic photovoltaics. Polymer Chemistry, 2015, 6, 6011-6020.	3.9	16
51	Production of pristine, sulfur-coated and silicon-alloyed germanium nanoparticles via laser pyrolysis. Nanotechnology, 2015, 26, 305703.	2.6	9
52	Interplay of Intramolecular Noncovalent Coulomb Interactions for Semicrystalline Photovoltaic Polymers. Chemistry of Materials, 2015, 27, 5997-6007.	6.7	150
53	Synthesis of PCDTBT-Based Fluorinated Polymers for High Open-Circuit Voltage in Organic Photovoltaics: Towards an Understanding of Relationships between Polymer Energy Levels Engineering and Ideal Morphology Control. ACS Applied Materials & Interfaces, 2014, 6, 7523-7534.	8.0	88
54	High-yield synthesis of single-crystal silicon nanoparticles as anode materials of lithium ion batteries via photosensitizer-assisted laser pyrolysis. Journal of Materials Chemistry A, 2014, 2, 18070-18075.	10.3	32

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55	Size tailoring of aqueous germanium nanoparticle dispersions. <i>Nanoscale</i> , 2014, 6, 10156-10160.	5.6	21
56	Naphtho[1,2-b:5,6-b']dithiophene-based copolymers for applications to polymer solar cells. <i>Polymer Chemistry</i> , 2013, 4, 2132.	3.9	24