

Song Yi Park

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6611206/publications.pdf>

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	Interplay of Intramolecular Noncovalent Coulomb Interactions for Semicrystalline Photovoltaic Polymers. <i>Chemistry of Materials</i> , 2015, 27, 5997-6007.	6.7	150
2	Recent progress in indoor organic photovoltaics. <i>Nanoscale</i> , 2020, 12, 5792-5804.	5.6	126
3	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 6385-6390.	9.1	106
4	Single Component Organic Solar Cells Based on Oligothiophene- π -Fullerene Conjugate. <i>Advanced Functional Materials</i> , 2017, 27, 1702474.	14.9	91
5	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. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7523-7534.	8.0	88
6	Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600637.	19.5	85
7	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
8	Reversible, Full-Color Luminescence by Post-treatment of Perovskite Nanocrystals. <i>Joule</i> , 2018, 2, 2105-2116.	24.0	61
9	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
10	A universal processing additive for high-performance polymer solar cells. <i>RSC Advances</i> , 2017, 7, 7476-7482.	3.6	58
11	Conjugated Polyelectrolytes as Efficient Hole Transport Layers in Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 5826-5833.	14.6	56
12	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
13	Efficient Exciton Diffusion in Organic Bilayer Heterojunctions with Nonfullerene Small Molecular Acceptors. <i>ACS Energy Letters</i> , 2020, 5, 1628-1635.	17.4	52
14	Quinoxaline- π -thiophene based thick photovoltaic devices with an efficiency of \sim 48%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9967-9976.	10.3	49
15	Dithienogermole-Containing Small-Molecule Solar Cells with 7.3% Efficiency: In-Depth Study on the Effects of Heteroatom Substitution of Si with Ge. <i>Advanced Energy Materials</i> , 2015, 5, 1402044.	19.5	40
16	Organic Bilayer Photovoltaics for Efficient Indoor Light Harvesting. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	35
17	Photophysical pathways in efficient bilayer organic solar cells: The importance of interlayer energy transfer. <i>Nano Energy</i> , 2021, 84, 105924.	16.0	33
18	High-yield synthesis of single-crystal silicon nanoparticles as anode materials of lithium ion batteries via photosensitizer-assisted laser pyrolysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18070-18075.	10.3	32

#	ARTICLE	IF	CITATIONS
19	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
20	Light-intensity-dependent photoresponse time of organic photodetectors and its molecular origin. <i>Nature Communications</i> , 2022, 13, .	12.8	31
21	Naphthalene diimide-based small molecule acceptors for fullerene-free organic solar cells. <i>Solar Energy</i> , 2017, 150, 90-95.	6.1	30
22	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
23	Straight chain D-A copolymers based on thienothiophene and benzothiadiazole for efficient polymer field effect transistors and photovoltaic cells. <i>Polymer Chemistry</i> , 2016, 7, 4638-4646.	3.9	29
24	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
25	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
26	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
27	Size tailoring of aqueous germanium nanoparticle dispersions. <i>Nanoscale</i> , 2014, 6, 10156-10160.	5.6	21
28	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
29	Conjugated polymers containing 6-(2-thienyl)-4H-thieno[3,2-b]indole (TTI) and isoindigo for organic photovoltaics. <i>Polymer</i> , 2016, 95, 36-44.	3.8	18
30	Implementation of Low-Power Electronic Devices Using Solution-Processed Tantalum Pentoxide Dielectric. <i>Advanced Functional Materials</i> , 2018, 28, 1704215.	14.9	17
31	Synthesis and properties of low band gap polymers based on thienyl thienoindole as a new electron-rich unit for organic photovoltaics. <i>Polymer Chemistry</i> , 2015, 6, 6011-6020.	3.9	16
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	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
34	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
35	Capacity retention behavior and morphology evolution of Si _x Ge _{1-x} nanoparticles as lithium-ion battery anode. <i>Nanotechnology</i> , 2015, 26, 255702.	2.6	13
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	High-efficiency, hybrid Si/C60 heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16410-16417.	10.3	11
39	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
40	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
41	Production of pristine, sulfur-coated and silicon-alloyed germanium nanoparticles via laser pyrolysis. <i>Nanotechnology</i> , 2015, 26, 305703.	2.6	9
42	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
43	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
44	Planar Organic Bilayer Heterojunctions Fabricated on Water with Ultrafast Donor-Acceptor Charge Transfer. <i>Solar Rrl</i> , 2021, 5, 2100326.	5.8	8
45	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
46	ZnO decorated germanium nanoparticles as anode materials in Li-ion batteries. <i>Nanotechnology</i> , 2017, 28, 095402.	2.6	6
47	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
48	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
49	Syntheses of PCDTBT containing tetrafluorobenzene as electron-withdrawing group with deep HOMO energy level and Applications for photovoltaics. <i>Polymer</i> , 2016, 102, 84-91.	3.8	4
50	2D Star-Shaped Non-Fullerene Electron Acceptors with Modulation of J-Aggregations: Molecular Design-Morphology-Electrical Property Correlation. <i>Advanced Materials Technologies</i> , 2020, 5, 2000174.	5.8	4
51	Regioisomeric Polythiophene Derivatives: Synthesis and Structure-Property Relationships for Organic Electronic Devices. <i>Macromolecular Research</i> , 2020, 28, 772-781.	2.4	4
52	Syntheses and solar cell applications of conjugated copolymers consisting of 3,3'-dicarboximide and benzodithiophene units with thiophene and bithiophene linkage. <i>Solar Energy Materials and Solar Cells</i> , 2015, 141, 24-31.	6.2	3
53	Semi-crystalline photovoltaic polymers with siloxane-terminated hybrid side-chains. <i>Science China Chemistry</i> , 2017, 60, 528-536.	8.2	3
54	Thiophene and Naphtho[1,2-c:5,6-c]bis[1,2,5]thiadiazole Based Alternating Copolymers for Polymer Solar Cells. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2016, 29, 553-559.	0.3	2

#	ARTICLE	IF	CITATIONS
55	Synthesis and TFT Properties of Fluorenyl Cored Conjugated Compound for Organic Thin Film Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2979-2982.	0.9	2
56	Solar Cells: Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells (<i>Adv. Energy Mater.</i> 19/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	0