

Hui Joon Park

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

3,742
citations

109137

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133063

59
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all docs

101
docs citations

101
times ranked

5718
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced interfacial characteristics of perovskite solar cell with multi-functional organic hole-selective interlayer. <i>Dyes and Pigments</i> , 2022, 197, 109837.	2.0	10
2	Highly Efficient Bifacial Color-Tunable Perovskite Solar Cells. <i>Advanced Optical Materials</i> , 2022, 10, 2101696.	3.6	7
3	Manipulation of resonance orders and absorbing materials for structural colors in transmission with improved color purity. <i>Optics Express</i> , 2022, 30, 11740.	1.7	2
4	Synergistic Effect of Excited State Property and Aggregation Characteristic of Organic Semiconductor on Efficient Hole-Transportation in Perovskite Device. <i>Advanced Functional Materials</i> , 2021, 31, 2007180.	7.8	8
5	Laser-generated focused ultrasound transducer using a perforated photoacoustic lens for tissue characterization. <i>Biomedical Optics Express</i> , 2021, 12, 1375.	1.5	8
6	Defect-passivation of organometal trihalide perovskite with functionalized organic small molecule for enhanced device performance and stability. <i>Dyes and Pigments</i> , 2021, 189, 109255.	2.0	10
7	Angular selection of transmitted light and enhanced spontaneous emission in grating-coupled hyperbolic metamaterials. <i>Optics Express</i> , 2021, 29, 21458-21472.	1.7	4
8	Nickel Oxide for Perovskite Photovoltaic Cells. <i>Advanced Photonics Research</i> , 2021, 2, 2000178.	1.7	25
9	Variable-focus optoacoustic lens with wide dynamic range and long focal length by using a flexible polymer nano-composite membrane. <i>Ultrasonics</i> , 2021, 117, 106545.	2.1	2
10	Perovskite Photovoltaic Cells: Synergistic Effect of Excited State Property and Aggregation Characteristic of Organic Semiconductor on Efficient Hole-Transportation in Perovskite Device (Adv.) <i>Tj ETQq0 0 0.8gBT /Overlock 10 T</i>	0.8	10
11	Light absorption enhancement in ultrathin perovskite solar cells using light scattering of high-index dielectric nanospheres. <i>Optics Express</i> , 2021, 29, 35366.	1.7	6
12	Experimental Demonstration of a Stacked Hybrid Optoacoustic-Piezoelectric Transducer for Localized Heating and Enhanced Cavitation. <i>Micromachines</i> , 2021, 12, 1268.	1.4	0
13	Enhanced Gas Sensing Performance of Organic Field-Effect Transistors by Modulating the Dimensions of Triethylsilylethynyl-Anthradithiophene Microcrystal Arrays. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901696.	1.9	22
14	Wide-Bandgap Perovskite/Gallium Arsenide Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903085.	10.2	49
15	Graded heterojunction of perovskite/dopant-free polymeric hole-transport layer for efficient and stable metal halide perovskite devices. <i>Nano Energy</i> , 2020, 78, 105159.	8.2	36
16	Defect-Passivating Organic/Inorganic Bicomponent Hole-Transport Layer for High Efficiency Metal-Halide Perovskite Device. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40310-40317.	4.0	29
17	Unraveling Doping Capability of Conjugated Polymers for Strategic Manipulation of Electric Dipole Layer toward Efficient Charge Collection in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2001560.	7.8	38
18	Optimization of gate-bias stability and gas-sensing properties of triethylsilylethynyl anthradithiophene micro-strip field-effect transistors by incorporating insulating polymer. <i>Organic Electronics</i> , 2020, 85, 105878.	1.4	8

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19	Gas Sensors: Enhanced Gas Sensing Performance of Organic Field-Effect Transistors by Modulating the Dimensions of Triethylsilylethynyl-Anthradithiophene Microcrystal Arrays (Adv. Mater. Interfaces) Tj ETQq1 1 0.7843 14 rgBT /Overlock	10.2	3
20	Tandem Solar Cells: Wide-Bandgap Perovskite/Gallium Arsenide Tandem Solar Cells (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock	10.2	3
21	Tailored Nanopatterning by Controlled Continuous Nanoinscribing with Tunable Shape, Depth, and Dimension. ACS Nano, 2019, 13, 11194-11202.	7.3	26
22	Laser-generated focused ultrasound transmitters with frequency-tuned outputs over sub-10-MHz range. Applied Physics Letters, 2019, 115, .	1.5	13
23	Observation of Enhanced Optical Spin Hall Effect in a Vertical Hyperbolic Metamaterial. ACS Photonics, 2019, 6, 2530-2536.	3.2	96
24	Bifacial Passivation of Organic Hole Transport Interlayer for NiO _x -Based perovskite Solar Cells. Advanced Science, 2019, 6, 1802163.	5.6	92
25	Design of Polarization-Independent and Wide-Angle Broadband Absorbers for Highly Efficient Reflective Structural Color Filters. Materials, 2019, 12, 1050.	1.3	13
26	Light Intensity-dependent Variation in Defect Contributions to Charge Transport and Recombination in a Planar MAPbI ₃ Perovskite Solar Cell. Scientific Reports, 2019, 9, 19846.	1.6	45
27	Flexible High-Color-Purity Structural Color Filters Based on a Higher-Order Optical Resonance Suppression. Scientific Reports, 2019, 9, 14917.	1.6	52
28	Morphology and charge recombination effects on the performance of near-infrared photodetectors based on conjugated polymers. Organic Electronics, 2019, 64, 274-279.	1.4	13
29	Construction of dye-sensitized solar cells using wet chemical route synthesized MoSe ₂ counter electrode. Journal of Industrial and Engineering Chemistry, 2019, 69, 379-386.	2.9	18
30	Facile and cost-effective methodology to fabricate MoS ₂ counter electrode for efficient dye-sensitized solar cells. Dyes and Pigments, 2018, 151, 7-14.	2.0	47
31	High-performance colorful semitransparent perovskite solar cells with phase-compensated microcavities. Nano Research, 2018, 11, 2553-2561.	5.8	41
32	Modulation of the effective density and refractive index of carbon nanotube forests via nanoimprint lithography. Carbon, 2018, 129, 8-14.	5.4	16
33	Photoacoustic Energy Sensor for Nanosecond Optical Pulse Measurement. Sensors, 2018, 18, 3879.	2.1	3
34	Enhanced Optical Properties of Colored Semitransparent Ultrathin Hybrid Solar Cells Employing Fabry-Pérot Etalon With a Dielectric Overlay. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	4
35	Management of transition dipoles in organic hole-transporting materials under solar irradiation for perovskite solar cells. Nature Communications, 2018, 9, 4537.	5.8	64
36	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. ACS Omega, 2018, 3, 5799-5807.	1.6	20

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37	Polarization-sensitive tunable absorber in visible and near-infrared regimes. <i>Scientific Reports</i> , 2018, 8, 12393.	1.6	48
38	Improved Hydrogen Evolution Reaction Performance using MoS ₂ /WS ₂ Heterostructures by Physicochemical Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8400-8409.	3.2	111
39	Flexible and Wavelength-Selective MoS ₂ Phototransistors with Monolithically Integrated Transmission Color Filters. <i>Scientific Reports</i> , 2017, 7, 40945.	1.6	30
40	Facile fabrication of n-ZnO nanorods/p-Cu ₂ O heterojunction and its photodiode property. <i>Optical Materials</i> , 2017, 66, 122-130.	1.7	31
41	Inverted planar perovskite solar cells with dopant free hole transporting material: Lewis base-assisted passivation and reduced charge recombination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13220-13227.	5.2	96
42	Omnidirectional Flexible Transmissive Structural Colors with High Color Purity and High Efficiency Exploiting Multicavity Resonances. <i>Advanced Optical Materials</i> , 2017, 5, 1700284.	3.6	47
43	Chitin and Chitosan Based Hybrid Nanocomposites for Super Capacitor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1321-1328.	0.9	19
44	Direct synthesis of thickness-tunable MoS ₂ quantum dot thin layers: Optical, structural and electrical properties and their application to hydrogen evolution. <i>Nano Energy</i> , 2017, 35, 101-114.	8.2	99
45	Thickness-dependent extraction layer dependence of defect formation and operation of planar CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600395.	1.2	14
46	Depth-resolved band alignments of perovskite solar cells with significant interfacial effects. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2563-2571.	5.2	44
47	Enhanced Structural Distortions Allowing for Dicyanophenyl-substituted Emitters with Outstanding Thermally Activated Delayed Fluorescence Characteristics. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 1101-1104.	1.0	0
48	Incident-angle-controlled semitransparent colored perovskite solar cells with improved efficiency exploiting a multilayer dielectric mirror. <i>Nanoscale</i> , 2017, 9, 13983-13989.	2.8	40
49	Engineering Light at the Nanoscale: Structural Color Filters and Broadband Perfect Absorbers. <i>Advanced Optical Materials</i> , 2017, 5, 1700368.	3.6	141
50	Highly Efficient Colored Perovskite Solar Cells Integrated with Ultrathin Subwavelength Plasmonic Nanoresonators. <i>Scientific Reports</i> , 2017, 7, 10640.	1.6	51
51	Carbon Nanotubes as Etching Masks for the Formation of Polymer Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44053-44059.	4.0	5
52	Manipulation of Chain Conformation for Optimum Charge-Transport Pathways in Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22757-22763.	4.0	17
53	Subwavelength nanocavity for flexible structural transmissive color generation with wide viewing angle: publisher's note. <i>Optica</i> , 2017, 4, 345.	4.8	0
54	One-Pot Facile Methodology to Synthesize Chitosan-ZnO-Graphene Oxide Hybrid Composites for Better Dye Adsorption and Antibacterial Activity. <i>Nanomaterials</i> , 2017, 7, 363.	1.9	44

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55	Optical and Structural Properties of Solvent Free Synthesized Starch/Chitosan-ZnO Nanocomposites. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-8.	1.5	16
56	Neutral- and Multi-Colored Semitransparent Perovskite Solar Cells. <i>Molecules</i> , 2016, 21, 475.	1.7	56
57	Subwavelength nanocavity for flexible structural transmissive color generation with a wide viewing angle. <i>Optica</i> , 2016, 3, 1489.	4.8	30
58	N-phenylindole-diketopyrrolopyrrole-containing narrow band-gap materials for dopant-free hole transporting layer of perovskite solar cell. <i>Organic Electronics</i> , 2016, 37, 134-140.	1.4	36
59	Nanoimprint Lithography: Angle-Insensitive and CMOS-Compatible Subwavelength Color Printing (<i>Advanced Optical Materials</i> 11/2016). <i>Advanced Optical Materials</i> , 2016, 4, 1695-1695.	3.6	1
60	Colored dual-functional photovoltaic cells. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 064003.	1.0	17
61	Shape-selective synthesis of NiO nanostructures for hydrazine oxidation as a nonenzymatic amperometric sensor. <i>RSC Advances</i> , 2016, 6, 86101-86107.	1.7	13
62	Interfacial Electronic Structure of Methylammonium Lead Iodide Grown on a Mesoporous TiO ₂ Layer on F-Doped Tin Oxide Substrate. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22460-22465.	1.5	11
63	Angle-Insensitive and CMOS-Compatible Subwavelength Color Printing. <i>Advanced Optical Materials</i> , 2016, 4, 1696-1702.	3.6	38
64	Solution-processed nickel oxide nanoparticles with NiOOH for hole injection layers of high-efficiency organic light-emitting diodes. <i>Nanoscale</i> , 2016, 8, 17608-17615.	2.8	31
65	Hybrid Metal-Halide Perovskite-MoS ₂ Phototransistor. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11722-11726.	0.9	9
66	Solution-Processible Crystalline NiO Nanoparticles for High-Performance Planar Perovskite Photovoltaic Cells. <i>Scientific Reports</i> , 2016, 6, 30759.	1.6	166
67	Investigation into the Advantages of Pure Perovskite Film without PbI ₂ for High Performance Solar Cell. <i>Scientific Reports</i> , 2016, 6, 35994.	1.6	42
68	Magnetic, structural and optical behavior of cupric oxide layers for solar cells. <i>Journal of Alloys and Compounds</i> , 2016, 686, 616-627.	2.8	38
69	Controlled Nanopores in Thin Films of Nonstoichiometrically Supramolecularly Assembled Graft Copolymers. <i>Chemistry - A European Journal</i> , 2015, 21, 18375-18382.	1.7	6
70	Soft-Contact Printing of Nanoparticle-Based Nanoink for Functional Nanopatterns. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	5
71	All-Optical Ultrasound Transducer Using CNT-PDMS and Etalon Thin-Film Structure. <i>IEEE Photonics Journal</i> , 2015, 7, 1-8.	1.0	11
72	A step toward next-generation nanoimprint lithography: extending productivity and applicability. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 343-356.	1.1	44

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73	Organic Photovoltaic Cells: From Performance Improvement to Manufacturing Processes. <i>Small</i> , 2015, 11, 2228-2246.	5.2	65
74	Optical enhancement effects of plasmonic nanostructures on organic photovoltaic cells. <i>Chinese Chemical Letters</i> , 2015, 26, 419-425.	4.8	11
75	Investigation of Printing-Based Graded Bulk-Heterojunction Organic Solar Cells. <i>Energy Technology</i> , 2015, 3, 414-422.	1.8	4
76	Printed Nanostructures for Organic Photovoltaic Cells and Solution-Processed Polymer Light-Emitting Diodes. <i>Energy Technology</i> , 2015, 3, 340-350.	1.8	22
77	Advanced Manufacturing Technology of Polymer Photovoltaic Cells. <i>Topics in Applied Physics</i> , 2015, , 349-373.	0.4	0
78	Nano-geometry dependent electrical property of organic semiconductor. <i>Electronic Materials Letters</i> , 2015, 11, 435-439.	1.0	5
79	Novel conjugated polymer for organic photovoltaics: Synthesis and device optimization. <i>Synthetic Metals</i> , 2015, 199, 280-283.	2.1	3
80	Controlled Nanopores by Supramolecular Assembly of End-Functionalized Dendrimer and Homopolymer Blend. <i>ACS Macro Letters</i> , 2014, 3, 1112-1116.	2.3	6
81	Improved solar cell performance by adding ultra-thin Alq3 at the cathode interface. <i>Organic Electronics</i> , 2014, 15, 2710-2714.	1.4	9
82	Optimization of polymer photovoltaic cells with bulk heterojunction layers hundreds of nanometers thick: modifying the morphology and cathode interface. <i>Energy and Environmental Science</i> , 2013, 6, 2203.	15.6	28
83	Advanced Heterojunction Structure of Polymer Photovoltaic Cell Generating High Photocurrent with Internal Quantum Efficiency Approaching 100%. <i>Advanced Energy Materials</i> , 2013, 3, 1135-1142.	10.2	28
84	A new method to estimate thermal conductivity of polymer composite using characteristics of fillers. <i>Journal of Applied Polymer Science</i> , 2013, 129, 965-972.	1.3	11
85	Dual-function ultra-thin a-Si solar cells for color generation and power harvesting. , 2013, , .		0
86	Effect of Polymer Aggregation on the Open Circuit Voltage in Organic Photovoltaic Cells: Aggregation-Induced Conjugated Polymer Gel and its Application for Preventing Open Circuit Voltage Drop. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 674-680.	4.0	53
87	Photonic Color Filters Integrated with Organic Solar Cells for Energy Harvesting. <i>ACS Nano</i> , 2011, 5, 7055-7060.	7.3	167
88	Evaluation of optoacoustic conversion efficiency of light-absorbing films for optoacoustic transmitter applications. , 2011, , .		1
89	Continuous Patterning of Nanogratings by Nanochannel-Guided Lithography on Liquid Resists. <i>Advanced Materials</i> , 2011, 23, 4444-4448.	11.1	29
90	Enhanced efficiency of organic solar cells with silver nanowire electrodes. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1

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91	Toward Low-Cost, High-Efficiency, and Scalable Organic Solar Cells with Transparent Metal Electrode and Improved Domain Morphology. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1807-1820.	1.9	68
92	A Facile Route to Polymer Solar Cells with Optimum Morphology Readily Applicable to a Roll-to-Roll Process without Sacrificing High Device Performances. Advanced Materials, 2010, 22, E247-53.	11.1	131
93	Efficiency Enhancement of Organic Solar Cells Using Transparent Plasmonic Ag Nanowire Electrodes. Advanced Materials, 2010, 22, 4378-4383.	11.1	343
94	Transparent Cu nanowire mesh electrode on flexible substrates fabricated by transfer printing and its application in organic solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 1179-1184.	3.0	223
95	Carbon nanotube composite optoacoustic transmitters for strong and high frequency ultrasound generation. Applied Physics Letters, 2010, 97, 234104.	1.5	144
96	Large Area High Density Sub-20 nm SiO ₂ Nanostructures Fabricated by Block Copolymer Template for Nanoimprint Lithography. ACS Nano, 2009, 3, 2601-2608.	7.3	83
97	Effects of CNT/BaTiO_3 Composite Particles Prepared by Mechanical Process on Dielectric Properties of Epoxy Hybrid Films. IEEE Transactions on Advanced Packaging, 2008, 31, 417-422.	1.7	5
98	Giant Thermal Tunability of the Lamellar Spacing in Block-Copolymer-Like Supramolecules Formed from Binary-End-Functionalized Polymer Blends. Advanced Materials, 2006, 18, 624-629.	11.1	58