

# Hyo Jung Kim

## List of Publications by Year in descending order

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63  
papers

1,004  
citations

471061

17  
h-index

454577

30  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Organic Light-Emitting Diodes with Perfectly Oriented Non-Doped Pt-Based Emitting Layer. <i>Advanced Materials</i> , 2016, 28, 2526-2532.	11.1	206
2	Copper-Coated Polypropylene Filter Face Mask with SARS-CoV-2 Antiviral Ability. <i>Polymers</i> , 2021, 13, 1367.	2.0	64
3	Enhancement of near-infrared absorption with high fill factor in lead phthalocyanine-based organic solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 9077.	6.7	55
4	The effect of Al electrodes on the nanostructure of poly(3-hexylthiophene): Fullerene solar cell blends during thermal annealing. <i>Organic Electronics</i> , 2009, 10, 1505-1510.	1.4	52
5	Real Time Investigation of the Interface between a P3HT:PCBM Layer and an Al Electrode during Thermal Annealing. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1269-1273.	2.0	46
6	Resolving Atomic-Scale Interactions in Nonfullerene Acceptor Organic Solar Cells with Solid-State NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. <i>Advanced Materials</i> , 2022, 34, e2105943.	11.1	36
7	Strong Nonlinear Optical Response in the Visible Spectral Range with Epsilon-Near-Zero Organic Thin Films. <i>Advanced Optical Materials</i> , 2018, 6, 1701400.	3.6	34
8	Formation of Bulk Heterojunctions by Alternative Thermal Deposition and Its Structure Analysis for High Efficiency Small Molecular Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2011, 21, 2067-2071.	7.8	30
9	CuI interlayers in lead phthalocyanine thin films enhance near-infrared light absorption. <i>Applied Physics Letters</i> , 2012, 100, 263303.	1.5	27
10	Control of Crystallinity in PbPc:C <sub>60</sub> Blend Film and Application for Inverted Near-Infrared Organic Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25614-25620.	4.0	25
11	The synergistic effect of cooperating solvent vapor annealing for high-efficiency planar inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27267-27277.	5.2	24
12	Roll-transferred graphene encapsulant for robust perovskite solar cells. <i>Nano Energy</i> , 2020, 77, 105182.	8.2	24
13	Hydrophobic hBN-coated surface-enhanced Raman scattering sponge sensor for simultaneous separation and detection of organic pollutants. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13059-13069.	2.7	22
14	Initial Growth Mode, Nanostructure, and Molecular Stacking of a ZnPc:C <sub>60</sub> Bulk Heterojunction. <i>Advanced Functional Materials</i> , 2012, 22, 4244-4248.	7.8	21
15	Surface dependent thermal evolution of the nanostructures in ultra-thin copper(ii) phthalocyanine films. <i>Journal of Materials Chemistry</i> , 2012, 22, 8881.	6.7	19
16	Multilayer Epitaxial Growth of Lead Phthalocyanine and C <sub>70</sub> Using CuBr as a Templating Layer for Enhancing the Efficiency of Organic Photovoltaic Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4286-4291.	4.0	19
17	Favorable Face-on Orientation of a Conjugated Polymer on Roll-Transferred Graphene Interface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1701099.	1.9	18
18	Inverted near-infrared organic photodetector with oriented lead (II) phthalocyanine molecules via substrate heating. <i>Organic Electronics</i> , 2018, 61, 164-169.	1.4	18

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19	Invited paper: Nanostructures of a mixed donor and acceptor layer in organic photovoltaics. <i>Electronic Materials Letters</i> , 2011, 7, 93-104.	1.0	17
20	Texturing of polydimethylsiloxane surface for anti-reflective films with super-hydrophobicity in solar cell application. <i>Applied Surface Science</i> , 2022, 584, 152625.	3.1	16
21	Manipulating the crystal structure of a conjugated polymer for efficient sequentially processed organic solar cells. <i>Nanoscale</i> , 2018, 10, 21052-21061.	2.8	13
22	Molecular engineering of a conjugated polymer as a hole transporting layer for versatile perovskite solar cells. <i>Materials Today Energy</i> , 2019, 14, 100341.	2.5	12
23	Effect of a $\pi$ -linker of push-pull donor molecules on the performance of organic photodetectors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11145-11152.	2.7	12
24	Molecular alignment and nanostructure of 1,4,5,8,9,11-hexaazatriphenylene-hexanitride (HATCN) thin films on organic surfaces. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1260-1264.	2.7	11
25	The epitaxial growth of lead phthalocyanine on copper halogen compounds as the origin of templating effects. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8730-8735.	5.2	11
26	Laser-induced orientation transformation of a conjugated polymer thin film with enhanced vertical charge transport. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9374-9382.	2.7	11
27	Transition of the NiO Buffer Layer from a p-Type Semiconductor to an Insulator for Operation of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 5452-5465.	2.5	11
28	Selective Chain Alignment of Conducting Polymer Blend Films by an Ultrafast Laser. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 537-542.	1.1	10
29	Using Femtosecond Laser Irradiation to Enhance the Vertical Electrical Properties and Tailor the Morphology of a Conducting Polymer Blend Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24422-24427.	4.0	9
30	Syntheses and optical, electrochemical, and photovoltaic properties of polymers with 6-(2-thienyl)-4-hydroxyindole with a variety of electron-deficient units. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47624.	1.3	9
31	Hydrophobic stretchable polydimethylsiloxane films with wrinkle patterns prepared via a metal-assisted chemical etching process using a Si master mold. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50398.	1.3	9
32	Insights into the Structural and Morphological Properties of Layer-by-Layer Processed Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60288-60298.	4.0	9
33	Alkyl Conformation and $\pi$ - $\pi$ Interaction Dependent on Polymorphism in the 1,8-Naphthalimide (NI) Derivative. <i>ACS Omega</i> , 2019, 4, 19705-19709.	1.6	8
34	Synergistic Effect of Codoped Nickel Oxide Hole-Transporting Layers for Highly Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100243.	3.1	8
35	Efficient Fabrication of Organic Electrochemical Transistors via Wet Chemical Processing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 12469-12478.	4.0	8
36	Syntheses of pyrimidine-based polymers containing electron-withdrawing substituent with high open circuit voltage and applications for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2016, 54, 771-784.	2.5	7

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37	Nanostructure Changes in Nylon 5,6 Fibers under Tension owing to Hydrogen Bond Formation. <i>Fibers and Polymers</i> , 2019, 20, 63-68.	1.1	7
38	Crystalline nanostructure and morphology of TriF-IF-dione for high-performance stable n-type field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 14617.	6.7	6
39	Strategy for the Complete Conversion of Thermally Grown Pbl <sub>2</sub> Layers in Inverted Perovskite Solar Cells. <i>Electronic Materials Letters</i> , 2020, 16, 588-594.	1.0	6
40	Nonfullerene Small Moleculesâ€”Enabled Highâ€”Performance Organic Photovoltaics for Indoor Energy Harvesting. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100041.	2.8	6
41	Surface Energy Induced Vertical Phase Separation of Nanomorphology in Polymer Solar Cells. <i>Applied Science and Convergence Technology</i> , 2019, 28, 1-4.	0.3	6
42	Temperatureâ€”Dependent Evolution of Poly(3â€”Hexylthiophene) Typeâ€”H Phase in a Blended Thin Film. <i>Macromolecular Rapid Communications</i> , 2016, 37, 203-208.	2.0	5
43	Review of the Fundamental Principles and Performances on Luminescent Solar Concentrators. <i>Applied Science and Convergence Technology</i> , 2021, 30, 14-20.	0.3	5
44	Syntheses and Properties of Semiconducting Polymers Based on Pyrimidine Series Substituted with Thiazolo-Pyridine. <i>Macromolecular Research</i> , 2018, 26, 438-445.	1.0	4
45	Interface Engineering of Perovskite/Hole Transport Layer Using Nanoâ€”Network Formation in Small Moleculeâ€”Polymer Blend for Efficient Inverted Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001891.	1.9	4
46	Femtosecond laser irradiation of molecular excitonic films for nanophotonic response control and large-area patterning. <i>Optics Express</i> , 2019, 27, 18044.	1.7	4
47	Enhancement of the Fill Factor through an Increase of the Crystallinity in Fullerene-Based Small-Molecule Organic Photovoltaic Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9134-9138.	4.0	3
48	Soft luminescent solar concentrator film with organic dye and rubbery matrix. <i>Journal of Polymer Science</i> , 2021, 59, 59-69.	2.0	3
49	Preliminary Validation of a Continuum Model for Dimple Patterns on Polyethylene Naphthalate via Ar Ion Beam Sputtering. <i>Polymers</i> , 2021, 13, 1932.	2.0	3
50	Influence of metallization process on solution-processed InGaZnO thin film transistors. <i>Nanotechnology</i> , 2021, 32, 405203.	1.3	3
51	Nanoimprinting of Perovskite Layer for Light-Harvesting Effect in Photovoltaic Devices. <i>Electronic Materials Letters</i> , 0, , .	1.0	3
52	GIWAXS Analysis on Preferred Orientation in Metal Halide Perovskite Films Via Alkylamines. <i>Electronic Materials Letters</i> , 2022, 18, 456-464.	1.0	3
53	X-ray nanoscopy study on metal nano-structure formation at a metal-organic interface. <i>Journal of the Korean Physical Society</i> , 2016, 69, 1085-1088.	0.3	1
54	Syntheses and Properties of Conjugated Polymers Containing Thieno[2,3â€”b]indole with Different Electronâ€”deficient Units. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 1208-1214.	1.0	1

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55	In-situ surface x-ray scattering study on the buried interfacial layer of Co/Si(111) interface. Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	0
56	Novel process for nano-structuring of conducting polymer thin films. , 2015, , .		0
57	Macromol. Rapid Commun. 3/2016. Macromolecular Rapid Communications, 2016, 37, 280-280.	2.0	0
58	Graphene: Favorable Face-on Orientation of a Conjugated Polymer on Roll-to-Roll Transferred Graphene Interface (Adv. Mater. Interfaces 23/2017). Advanced Materials Interfaces, 2017, 4, 1770124.	1.9	0
59	Observation of Metal Micro-Nanoparticles in an Epoxy Matrix during Thermal Annealing Using Synchrotron X-ray Imaging Techniques. Journal of the Korean Physical Society, 2019, 75, 503-507.	0.3	0
60	Formation of Hierarchical Pyramid-structured Si with Nanoholes by Using Thermally Dewetted Ag Thin Films. Journal of the Korean Physical Society, 2020, 77, 598-604.	0.3	0
61	Perovskite Solar Cells: Interface Engineering of Perovskite/Hole Transport Layer Using Nano-network Formation in Small Molecule-Polymer Blend for Efficient Inverted Perovskite Solar Cells (Adv. Mater.) Tj ETQq1 1 09784314argBT /Over		
62	Synergistic Effect of Codoped Nickel Oxide Hole-Transporting Layers for Highly Efficient Inverted Perovskite Solar Cells. Solar Rrl, 2021, 5, 2170092.	3.1	0
63	Femtosecond Laser Based Manufacturing of Tailored Flexible Electronics for OLED and OPV Applications. , 2019, , .		0