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	Resolving Atomicâ€Scale Interactions in Nonfullerene Acceptor Organic Solar Cells with Solidâ€State NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. Advanced Materials, 2022, 34, e2105943.	11.1	36
2	Texturing of polydimethylsiloxane surface for anti-reflective films with super-hydrophobicity in solar cell application. Applied Surface Science, 2022, 584, 152625.	3.1	16
3	Efficient Fabrication of Organic Electrochemical Transistors via Wet Chemical Processing. ACS Applied Materials & Interfaces, 2022, 14, 12469-12478.	4.0	8
4	GIWAXS Analysis on Preferred Orientation in Metal Halide Perovskite Films Via Alkylamines. Electronic Materials Letters, 2022, 18, 456-464.	1.0	3
5	Soft luminescent solar concentrator film with organic dye and rubbery matrix. Journal of Polymer Science, 2021, 59, 59-69.	2.0	3
6	Review of the Fundamental Principles and Performances on Lminescent Solar Concentrators. Applied Science and Convergence Technology, 2021, 30, 14-20.	0.3	5
7	Interface Engineering of Perovskite/Hole Transport Layer Using Nanoâ€Network Formation in Small Moleculeâ€“Polymer Blend for Efficient Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2021, 8, 2001891.	1.9	4
8	Perovskite Solar Cells: Interface Engineering of Perovskite/Hole Transport Layer Using Nanoâ€Network Formation in Small Moleculeâ€“Polymer Blend for Efficient Inverted Perovskite Solar Cells (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T		
9	Copper-Coated Polypropylene Filter Face Mask with SARS-CoV-2 Antiviral Ability. Polymers, 2021, 13, 1367.	2.0	64
10	Nonfullerene Small Moleculesâ€Enabled Highâ€Performance Organic Photovoltaics for Indoor Energy Harvesting. Advanced Energy and Sustainability Research, 2021, 2, 2100041.	2.8	6
11	Preliminary Validation of a Continuum Model for Dimple Patterns on Polyethylene Naphthalate via Ar Ion Beam Sputtering. Polymers, 2021, 13, 1932.	2.0	3
12	Transition of the NiO_x Buffer Layer from a p-Type Semiconductor to an Insulator for Operation of Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 5452-5465.	2.5	11
13	Influence of metallization process on solution-processed InGaZnO thin film transistors. Nanotechnology, 2021, 32, 405203.	1.3	3
14	Synergistic Effect of Codoped Nickel Oxide Holeâ€“Transporting Layers for Highly Efficient Inverted Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100243.	3.1	8
15	Synergistic Effect of Codoped Nickel Oxide Holeâ€“Transporting Layers for Highly Efficient Inverted Perovskite Solar Cells. Solar Rrl, 2021, 5, 2170092.	3.1	0
16	Hydrophobic stretchable polydimethylsiloxane films with wrinkle patterns prepared via a metalâ€assisted chemical etching process using a Si master mold. Journal of Applied Polymer Science, 2021, 138, 50398.	1.3	9
17	Insights into the Structural and Morphological Properties of Layer-by-Layer Processed Organic Photovoltaics. ACS Applied Materials & Interfaces, 2021, 13, 60288-60298.	4.0	9
18	Strategy for the Complete Conversion of Thermally Grown PbI2 Layers in Inverted Perovskite Solar Cells. Electronic Materials Letters, 2020, 16, 588-594.	1.0	6

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19	Effect of a Ï€-linker of pushâ€“pull Dâ€“Ï€âˆ’A donor molecules on the performance of organic photodetectors. Journal of Materials Chemistry C, 2020, 8, 11145-11152.	2.7	12
20	Roll-transferred graphene encapsulant for robust perovskite solar cells. Nano Energy, 2020, 77, 105182.	8.2	24
21	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
22	Molecular engineering of a conjugated polymer as a hole transporting layer for versatile pâ€“iâ€“n perovskite solar cells. Materials Today Energy, 2019, 14, 100341.	2.5	12
23	Syntheses and Properties of Conjugated Polymers Containing Thieno[2,3â€b]indole with Different Electronâ€deficient Units. Bulletin of the Korean Chemical Society, 2019, 40, 1208-1214.	1.0	1
24	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
25	Nanostructure Changes in Nylon 5,6 Fibers under Tension owing to Hydrogen Bond Formation. Fibers and Polymers, 2019, 20, 63-68.	1.1	7
26	Syntheses and optical, electrochemical, and photovoltaic properties of polymers with 6â€(2â€thienyl)â€4Hâ€thieno[2,3â€b]indole with a variety of electronâ€deficient units. Journal of Applied Polymer Science, 2019, 136, 47624.	1.3	9
27	The synergistic effect of cooperating solvent vapor annealing for high-efficiency planar inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 27267-27277.	5.2	24
28	Alkyl Conformation and Ï€â€“Ï€ Interaction Dependent on Polymorphism in the 1,8-Naphthalimide (NI) Derivative. ACS Omega, 2019, 4, 19705-19709.	1.6	8
29	Hydrophobic hBN-coated surface-enhanced Raman scattering sponge sensor for simultaneous separation and detection of organic pollutants. Journal of Materials Chemistry C, 2019, 7, 13059-13069.	2.7	22
30	Femtosecond laser irradiation of molecular excitonic films for nanophotonic response control and large-area patterning. Optics Express, 2019, 27, 18044.	1.7	4
31	Surface Energy Induced Vertical Phase Separation of Nanomorphology in Polymer Solar Cells. Applied Science and Convergence Technology, 2019, 28, 1-4.	0.3	6
32	Femtosecond Laser Based Manufacturing of Tailored Flexible Electronics for OLED and OPV Applications. , 2019, , .		0
33	Syntheses and Properties of Semiconducting Polymers Based on Pyrimidine Series Substituted with Thiazolo-Pyridine. Macromolecular Research, 2018, 26, 438-445.	1.0	4
34	Manipulating the crystal structure of a conjugated polymer for efficient sequentially processed organic solar cells. Nanoscale, 2018, 10, 21052-21061.	2.8	13
35	Laser-induced orientation transformation of a conjugated polymer thin film with enhanced vertical charge transport. Journal of Materials Chemistry C, 2018, 6, 9374-9382.	2.7	11
36	Control of Crystallinity in PbPc:C₆₀ Blend Film and Application for Inverted Near-Infrared Organic Photodetector. ACS Applied Materials & Interfaces, 2018, 10, 25614-25620.	4.0	25

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37	Strong Nonlinear Optical Response in the Visible Spectral Range with Epsilonâ€Nearâ€Zero Organic Thin Films. Advanced Optical Materials, 2018, 6, 1701400.	3.6	34
38	Inverted near-infrared organic photodetector with oriented lead (II) phthalocyanine molecules via substrate heating. Organic Electronics, 2018, 61, 164-169.	1.4	18
39	Favorable Faceâ€on Orientation of a Conjugated Polymer on Rollâ€toâ€Rollâ€Transferred Graphene Interface. Advanced Materials Interfaces, 2017, 4, 1701099.	1.9	18
40	Using Femtosecond Laser Irradiation to Enhance the Vertical Electrical Properties and Tailor the Morphology of a Conducting Polymer Blend Film. ACS Applied Materials & Interfaces, 2017, 9, 24422-24427.	4.0	9
41	Graphene: Favorable Faceâ€on Orientation of a Conjugated Polymer on Rollâ€toâ€Rollâ€Transferred Graphene Interface (Adv. Mater. Interfaces 23/2017). Advanced Materials Interfaces, 2017, 4, 1770124.	1.9	0
42	Selective Chain Alignment of Conducting Polymer Blend Films by an Ultrafast Laser. Macromolecular Chemistry and Physics, 2016, 217, 537-542.	1.1	10
43	Macromol. Rapid Commun. 3/2016. Macromolecular Rapid Communications, 2016, 37, 280-280.	2.0	0
44	X-ray nanoscopy study on metal nano-structure formation at a metal-organic interface. Journal of the Korean Physical Society, 2016, 69, 1085-1088.	0.3	1
45	Syntheses of pyrimidineâ€based polymers containing electronâ€withdrawing substituent with high open circuit voltage and applications for polymer solar cells. Journal of Polymer Science Part A, 2016, 54, 771-784.	2.5	7
46	Temperatureâ€Dependent Evolution of Poly(3â€Hexylthiophene) Typeâ€II Phase in a Blended Thin Film. Macromolecular Rapid Communications, 2016, 37, 203-208.	2.0	5
47	Crystal Organic Lightâ€Emitting Diodes with Perfectly Oriented Nonâ€Doped Ptâ€Based Emitting Layer. Advanced Materials, 2016, 28, 2526-2532.	11.1	206
48	Novel process for nano-structuring of conducting polymer thin films. , 2015, , .		0
49	Enhancement of the Fill Factor through an Increase of the Crystallinity in Fullerene-Based Small-Molecule Organic Photovoltaic Cells. ACS Applied Materials & Interfaces, 2015, 7, 9134-9138.	4.0	3
50	Multilayer Epitaxial Growth of Lead Phthalocyanine and C₇₀ Using CuBr as a Templating Layer for Enhancing the Efficiency of Organic Photovoltaic Cells. ACS Applied Materials & Interfaces, 2014, 6, 4286-4291.	4.0	19
51	The epitaxial growth of lead phthalocyanine on copper halogen compounds as the origin of templating effects. Journal of Materials Chemistry A, 2014, 2, 8730-8735.	5.2	11
52	Molecular alignment and nanostructure of 1,4,5,8,9,11-hexaazatriphenylene-hexanitrile (HATCN) thin films on organic surfaces. Journal of Materials Chemistry C, 2013, 1, 1260-1264.	2.7	11
53	CuI interlayers in lead phthalocyanine thin films enhance near-infrared light absorption. Applied Physics Letters, 2012, 100, 263303.	1.5	27
54	Surface dependent thermal evolution of the nanostructures in ultra-thin copper(ii) phthalocyanine films. Journal of Materials Chemistry, 2012, 22, 8881.	6.7	19

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55	Crystalline nanostructure and morphology of TriF-IF-dione for high-performance stable n-type field-effect transistors. Journal of Materials Chemistry, 2012, 22, 14617.	6.7	6
56	Enhancement of near-infrared absorption with high fill factor in lead phthalocyanine-based organic solar cells. Journal of Materials Chemistry, 2012, 22, 9077.	6.7	55
57	Initial Growth Mode, Nanostructure, and Molecular Stacking of a ZnPc:C60 Bulk Heterojunction. Advanced Functional Materials, 2012, 22, 4244-4248.	7.8	21
58	Invited paper: Nanostructures of a mixed donor and acceptor layer in organic photovoltaics. Electronic Materials Letters, 2011, 7, 93-104.	1.0	17
59	Formation of Bulk Heterojunctions by Alternative Thermal Deposition and Its Structure Analysis for High Efficiency Small Molecular Organic Photovoltaics. Advanced Functional Materials, 2011, 21, 2067-2071.	7.8	30
60	Real Time Investigation of the Interface between a P3HT:PCBM Layer and an Al Electrode during Thermal Annealing. Macromolecular Rapid Communications, 2009, 30, 1269-1273.	2.0	46
61	The effect of Al electrodes on the nanostructure of poly(3-hexylthiophene): Fullerene solar cell blends during thermal annealing. Organic Electronics, 2009, 10, 1505-1510.	1.4	52
62	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
63	Nanoimprinting of Perovskite Layer for Light-Harvesting Effect in Photovoltaic Devices. Electronic Materials Letters, 0, , .	1.0	3