

Hyung Jong Kim

List of Publications by Year in descending order

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35
papers

944
citations

430754

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454834

30
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all docs

36
docs citations

36
times ranked

1260
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#	ARTICLE	IF	CITATIONS
1	Solution-processed thermally activated delayed fluorescence organic light-emitting diodes using a new polymeric emitter containing non-conjugated cyclohexane units. <i>Polymer Chemistry</i> , 2018, 9, 1318-1326.	1.9	73
2	Ultra-Deep-Blue Aggregation-Induced Delayed Fluorescence Emitters: Achieving Nearly 16% EQE in Solution-Processed Nondoped and Doped OLEDs with CIE _y ; 0.1. <i>Advanced Functional Materials</i> , 2021, 31, 2102588.	7.8	69
3	High-Performance Polymer Solar Cell with Single Active Material of Fully Conjugated Block Copolymer Composed of Wide-Band gap Donor and Narrow-Band gap Acceptor Blocks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18974-18983.	4.0	66
4	Color-Tunable Boron-Based Emitters Exhibiting Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence for Efficient Solution-Processable Nondoped Deep-Blue to Sky-Blue OLEDs. <i>Advanced Optical Materials</i> , 2020, 8, 1902175.	3.6	66
5	High-performance bipolar host materials for blue TADF devices with excellent external quantum efficiencies. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4512-4520.	2.7	63
6	Unconventional Three-Armed Luminogens Exhibiting Both Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence Resulting in High-Performing Solution-Processed Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14966-14977.	4.0	53
7	New M- and V-shaped perylene diimide small molecules for high-performance nonfullerene polymer solar cells. <i>Chemical Communications</i> , 2016, 52, 8873-8876.	2.2	48
8	Excellent Long-Term Stability of Power Conversion Efficiency in Non-Fullerene-Based Polymer Solar Cells Bearing Tricyanovinylene-Functionalized n-Type Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8838-8847.	4.0	46
9	New Bipolar Host Materials for Realizing Blue Phosphorescent Organic Light-Emitting Diodes with High Efficiency at 1000 cd/m ² . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19808-19815.	4.0	38
10	Direct Photolithographic Patterning of Colloidal Quantum Dots Enabled by UV-Crosslinkable and Hole-Transporting Polymer Ligands. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42153-42160.	4.0	38
11	(D) _n -“f”(A) _m type partially conjugated block copolymer and its performance in single-component polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9745-9751.	5.2	37
12	Chromenopyrazole-Based Bipolar Blue Host Materials for Highly Efficient Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2018, 30, 5005-5012.	3.2	35
13	Novel dendritic large molecules as solution-processable thermally activated delayed fluorescent emitters for simple structured non-doped organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1160-1170.	2.7	34
14	Highly efficient and highly stable terpolymer-based all-polymer solar cells with broad complementary absorption and robust morphology. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10095-10103.	5.2	29
15	Novel molecular triad exhibiting aggregation-induced emission and thermally activated fluorescence for efficient non-doped organic light-emitting diodes. <i>Chemical Communications</i> , 2019, 55, 9475-9478.	2.2	28
16	Achievement of high efficiency with extremely low efficiency roll-off in solution-processed thermally activated delayed fluorescence OLEDs manufactured using xanthone-based bipolar host materials. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6780-6787.	2.7	26
17	Novel V-Shaped Bipolar Host Materials for Solution-Processed Thermally Activated Delayed Fluorescence OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49076-49084.	4.0	21
18	Rational design, synthesis, and characterization of a photocrosslinkable hole-transporting polymer for high performance solution-processed thermally activated delayed fluorescence OLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4572-4579.	2.7	19

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19	Influence of Branched Alkyl Ester-Labeled Side Chains on Specific Chain Arrangement and Charge-Transport Properties of Diketopyrrolopyrrole-Based Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40681-40691.	4.0	18
20	Regular terpolymers with fluorinated bithiophene units for high-performing photovoltaic cells. <i>Polymer Chemistry</i> , 2016, 7, 5069-5078.	1.9	17
21	Side-chain engineering of diketopyrrolopyrrole-based copolymer using alkyl ester group for efficient polymer solar cell. <i>Macromolecular Research</i> , 2016, 24, 980-985.	1.0	16
22	A diketopyrrolopyrrole-based regular terpolymer bearing two different π -extended donor units and its application in solar cells. <i>Organic Electronics</i> , 2016, 31, 198-206.	1.4	14
23	Nonhalogenated Solvent-Processed High-Performance Indoor Photovoltaics Made of New Conjugated Terpolymers with Optimized Monomer Compositions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13487-13498.	4.0	14
24	2D- π -2A type cruciform host material with silane core for highly efficient solution-processable green thermally activated delayed fluorescence organic light emitting diodes. <i>Dyes and Pigments</i> , 2019, 167, 120-126.	2.0	13
25	High-efficiency solution-processed green thermally activated delayed fluorescence OLEDs using a polymer-small molecule mixed host. <i>Polymer Chemistry</i> , 2022, 13, 1824-1830.	1.9	11
26	Importance of varying electron-accepting moieties in regular conjugated terpolymers for use in polymer solar cells. <i>Organic Electronics</i> , 2016, 38, 256-263.	1.4	10
27	New conjugated regular terpolymers based on diketopyrrolopyrrole-benzodithiophene and their application to thin film transistors and polymer solar cells. <i>Synthetic Metals</i> , 2018, 236, 36-43.	2.1	10
28	Ambipolar charge transport in a donor-acceptor-donor-type conjugated block copolymer and its gate-voltage-controlled thin film transistor memory. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3223-3235.	2.5	8
29	Rational design of a novel isoindigo-based conjugated terpolymer with panchromatic absorption and its application to polymer solar cells. <i>Dyes and Pigments</i> , 2020, 179, 108391.	2.0	8
30	Molecular design of large-bandgap host materials and their application to blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2015, 26, 218-224.	1.4	7
31	New hole transport styrene polymers bearing highly π -extended conjugated side-chain moieties for high-performance solution-processable thermally activated delayed fluorescence OLEDs. <i>Polymer Chemistry</i> , 2021, 12, 1692-1699.	1.9	5
32	Novel carbazole-acridine-based hole transport polymer for low turn-on voltage of green quantum dot light-emitting diodes. <i>Polymer Chemistry</i> , 2021, 12, 4714-4721.	1.9	3
33	Blue-emitting dendritic molecule with dual functionality as host and dopant for solution-processed white OLEDs with red-emitting material. <i>Synthetic Metals</i> , 2019, 258, 116198.	2.1	1
34	Synthesis and Characterization of New Dibenzothiophene-based Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 621, 31-39.	0.4	0
35	Diketopyrrolopyrrole-based three-armed conjugated small molecule and their charge transport property. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 635, 80-86.	0.4	0