

Kyung-Geun Lim

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,827
citations

361413

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552781

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29
all docs

29
docs citations

29
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar heterojunction organometal halide perovskite solar cells: roles of interfacial layers. <i>Energy and Environmental Science</i> , 2016, 9, 12-30.	30.8	449
2	Boosting the Power Conversion Efficiency of Perovskite Solar Cells Using Self-Organized Polymeric Hole Extraction Layers with High Work Function. <i>Advanced Materials</i> , 2014, 26, 6461-6466.	21.0	321
3	Universal energy level tailoring of self-organized hole extraction layers in organic solar cells and organic-inorganic hybrid perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 932-939.	30.8	218
4	Soluble Self-Doped Conducting Polymer Compositions with Tunable Work Function as Hole Injection/Extraction Layers in Organic Optoelectronics. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6274-6277.	13.8	95
5	Self-Doped Conducting Polymer as a Hole-Extraction Layer in Organic-Inorganic Hybrid Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500678.	3.7	93
6	Organic solar cells using CVD-grown graphene electrodes. <i>Nanotechnology</i> , 2014, 25, 014012.	2.6	81
7	Energy level alignment of dipolar interface layer in organic and hybrid perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2915-2924.	5.5	62
8	Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts. <i>ChemSusChem</i> , 2011, 4, 363-368.	6.8	49
9	Device architecture for efficient, low-hysteresis flexible perovskite solar cells: Replacing TiO ₂ with C60 assisted by polyethylenimine ethoxylated interfacial layers. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 338-346.	6.2	49
10	Engineering electrodes and metal halide perovskite materials for flexible/stretchable perovskite solar cells and light-emitting diodes. <i>Energy and Environmental Science</i> , 2021, 14, 2009-2035.	30.8	46
11	High-efficiency polymer photovoltaic cells using a solution-processable insulating interfacial nanolayer: the role of the insulating nanolayer. <i>Journal of Materials Chemistry</i> , 2012, 22, 25148.	6.7	41
12	Role of Ultrathin Metal Fluoride Layer in Organic Photovoltaic Cells: Mechanism of Efficiency and Lifetime Enhancement. <i>ChemSusChem</i> , 2014, 7, 1125-1132.	6.8	33
13	Air-stable inverted structure of hybrid solar cells using a cesium-doped ZnO electron transport layer prepared by a sol-gel process. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11802.	10.3	30
14	Controlling Surface Enrichment in Polymeric Hole Extraction Layers to Achieve High-Efficiency Organic Photovoltaic Cells. <i>ChemSusChem</i> , 2012, 5, 2053-2057.	6.8	28
15	Three-Dimensional Nanostructured Indium-Tin-Oxide Electrodes for Enhanced Performance of Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301566.	19.5	27
16	Elucidating the Role of Conjugated Polyelectrolyte Interlayers for High-Efficiency Organic Photovoltaics. <i>ChemSusChem</i> , 2015, 8, 3062-3068.	6.8	27
17	Photoreactive low-bandgap 4H-cyclopenta[2,1-b:3,4-b ²]dithiophene and 4,7-di(thiophen-2-yl)benzo[c][1,2,5]thiadiazole-based alternating copolymer for polymer solar cell. <i>Organic Electronics</i> , 2011, 12, 269-278.	2.6	25
18	Morphological and electrical effect of an ultrathin iridium oxide hole extraction layer on P3HT:PCBM bulk-heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1146-1150.	6.2	23

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19	Gold half-shell coated hyaluronic acid-doxorubicin conjugate micelles for theranostic applications. <i>Macromolecular Research</i> , 2012, 20, 277-282.	2.4	23
20	Effect of Interfacial Layers on the Device Lifetime of Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000065.	8.6	22
21	Vertical Organic Thin-Film Transistors with an Anodized Permeable Base for Very Low Leakage Current. <i>Advanced Materials</i> , 2019, 31, e1900917.	21.0	21
22	Improvement of power conversion efficiency of P3HT:CdSe hybrid solar cells by enhanced interconnection of CdSe nanorods via decomposable selenourea. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2401.	10.3	12
23	Bimolecular Crystals with an Intercalated Structure Improve Poly(<i>p</i> -phenylenevinylene)-Based Organic Photovoltaic Cells. <i>ChemSusChem</i> , 2015, 8, 337-344.	6.8	10
24	Improvement of both efficiency and stability in organic photovoltaics by using water-soluble anionic conjugated polyelectrolyte interlayer. <i>Materials Today Energy</i> , 2017, 5, 66-71.	4.7	8
25	Anodization for Simplified Processing and Efficient Charge Transport in Vertical Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2001703.	14.9	6
26	Inside Cover: Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts (<i>ChemSusChem</i>)	Tj ETQq0 0 0.8 BT / Overlock 10 T	