

# Byoung Hoon Lee

## List of Publications by Year in descending order

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33  
papers

1,355  
citations

471509

17  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-Bandgap Polymer Solar Cells with Unprecedented Short-Circuit Current Density and High Fill Factor. <i>Advanced Materials</i> , 2015, 27, 3318-3324.	21.0	294
2	Multi-Charged Conjugated Polyelectrolytes as a Versatile Work Function Modifier for Organic Electronic Devices. <i>Advanced Functional Materials</i> , 2014, 24, 1100-1108.	14.9	170
3	Doping-Induced Carrier Density Modulation in Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 57-62.	21.0	114
4	Novel Film-Casting Method for High-Performance Flexible Polymer Electrodes. <i>Advanced Functional Materials</i> , 2011, 21, 487-493.	14.9	88
5	Flexible Organic Transistors with Controlled Nanomorphology. <i>Nano Letters</i> , 2016, 16, 314-319.	9.1	85
6	High-efficiency photovoltaic cells with wide optical band gap polymers based on fluorinated phenylene-alkoxybenzothiadiazole. <i>Energy and Environmental Science</i> , 2017, 10, 1443-1455.	30.8	84
7	Graphene-Conducting Polymer Hybrid Transparent Electrodes for Efficient Organic Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2014, 24, 1847-1856.	14.9	76
8	Broad Work-Function Tunability of p-Type Conjugated Polyelectrolytes for Efficient Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401653.	19.5	59
9	The Density of States and the Transport Effective Mass in a Highly Oriented Semiconducting Polymer: Electronic Delocalization in 1D. <i>Advanced Materials</i> , 2015, 27, 7759-7765.	21.0	52
10	An Ultrahigh Mobility in Isomorphic Fluorobenzo[1,2,5]thiadiazole-Based Polymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13629-13634.	13.8	43
11	Radical Cation-Anion Coupling-Induced Work Function Tunability in Anionic Conjugated Polyelectrolytes. <i>Advanced Energy Materials</i> , 2015, 5, 1501292.	19.5	39
12	Molecularly Smooth Self-Assembled Monolayer for High-Mobility Organic Field-Effect Transistors. <i>Nano Letters</i> , 2016, 16, 6709-6715.	9.1	31
13	Measurement of the Charge Carrier Mobility Distribution in Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2015, 27, 4989-4996.	21.0	27
14	Role of the Side Chain in the Phase Segregation of Polymer:Fullerene Bulk Heterojunction Composites. <i>Advanced Energy Materials</i> , 2013, 3, 1575-1580.	19.5	25
15	Regioregular, yet ductile and amorphous indacenodithiophene-based polymers with high-mobility for stretchable plastic transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9670-9682.	5.5	25
16	Lead Acetate Assisted Interface Engineering for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7186-7197.	8.0	20
17	Opposite Polarity Surface Photovoltage of MoS <sub>2</sub> Monolayers on Au Nanodot versus Nanohole Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48991-48997.	8.0	15
18	Synthesis and properties of the conjugated polymers with indenoindene and benzimidazole units for organic photovoltaics. <i>Journal of Polymer Science Part A</i> , 2013, 51, 241-249.	2.3	14

#	ARTICLE	IF	CITATIONS
19	Homogeneous bulk heterojunction networks via surface energy matching at polymer/fullerene interfaces. <i>Applied Physics Letters</i> , 2012, 101, 083304.	3.3	10
20	Highly transparent polymer light-emitting diode using modified aluminum-doped zinc oxide top electrode. <i>Applied Physics Letters</i> , 2012, 100, 133306.	3.3	9
21	Characteristics of light-induced electron transport from P3HT to ZnO-nanowire field-effect transistors. <i>Applied Physics Letters</i> , 2013, 103, 223305.	3.3	9
22	Efficient solution-processed small-molecule solar cells with titanium suboxide as an electric adhesive layer. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	9
23	Dithienosilole- <i>c</i> -5-fluoro-2,1,3-benzothiadiazole-containing regioisomeric polymers for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8522-8526.	5.5	8
24	Morphological and Optical Engineering for High-Performance Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4705-4711.	8.0	6
25	Thermally Stable and High-Mobility Dithienopyran-Based Copolymers: How Donor-Acceptor and Donor-Donor Type Structures Differ in Thin-Film Transistors. <i>Small Structures</i> , 2021, 2, 2100024.	12.0	6
26	An Ultrahigh Mobility in Isomorphic Fluorobenzo[ <i>c</i> ][1,2,5]thiadiazole-Based Polymers. <i>Angewandte Chemie</i> , 2018, 130, 13817-13822.	2.0	4
27	Bicontinuous network of electron donor-acceptor composites achieved by additive-free sequential deposition for efficient polymer solar cells. <i>Current Applied Physics</i> , 2020, 20, 760-764.	2.4	4
28	Organic Field-Effect Transistors with Bottlebrush Polymer Gate Dielectrics Thermally Cross-Linked in Less Than 1 min. <i>Chemistry of Materials</i> , 2021, 33, 6356-6364.	6.7	4
29	Enhanced phase separation in PEDOT:PSS hole transport layer by introducing phenylethylammonium iodide for efficient perovskite solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2022, 14, 013502.	2.0	3
30	Effect of Bulky Atom Substitution on Backbone Coplanarity and Electrical Properties of Cyclopentadithiophene-Based Semiconducting Polymers. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100709.	3.9	2
31	Organic Electronics: Graphene-Conducting Polymer Hybrid Transparent Electrodes for Efficient Organic Optoelectronic Devices ( <i>Adv. Funct. Mater.</i> 13/2014). <i>Advanced Functional Materials</i> , 2014, 24, 1960-1960.	14.9	1
32	33.3: Invited Paper: Electronic Properties of Highly Oriented Nano-Crystalline Semiconducting Polymers. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 483-485.	0.3	1
33	Large-Area, Transparent And Conductive Graphene Electrode For Bulk-Heterojunction Photovoltaic Devices. , 2011, , .		0