

# Soo-won Heo

## List of Publications by Citations

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40  
papers

1,033  
citations

15  
h-index

32  
g-index

41  
ext. papers

1,220  
ext. citations

7  
avg, IF

4.19  
L-index

#	Paper	IF	Citations
40	Self-powered ultra-flexible electronics via nano-grating-patterned organic photovoltaics. <i>Nature</i> , <b>2018</b> , 561, 516-521	50.4	468
39	Conjugated Polymer Consisting of Quinacridone and Benzothiadiazole as Donor Materials for Organic Photovoltaics: Coplanar Property of Polymer Backbone. <i>Macromolecules</i> , <b>2012</b> , 45, 7815-7822	5.5	56
38	An organic/inorganic hybrid interlayer for improved electron extraction in inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2463-2469	7.1	53
37	Haptacyclic Carbazole-Based Ladder-Type Nonfullerene Acceptor with Side-Chain Optimization for Efficient Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42035-42042	9.5	37
36	Synthesis and characterization of 2,1,3-benzothiadiazole-thieno[3,2-b]thiophene-based charge transferred-type polymers for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , <b>2009</b> , 93, 1932-1938	6.4	34
35	Patternable solution process for fabrication of flexible polymer solar cells using PDMS. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 3564-3572	6.4	33
34	Enhanced performance in inverted polymer solar cells via solution process: Morphology controlling of PEDOT:PSS as anode buffer layer by adding surfactants. <i>Organic Electronics</i> , <b>2013</b> , 14, 1629-1635	3.5	24
33	Enhanced carrier mobility and photon-harvesting property by introducing Au nano-particles in bulk heterojunction photovoltaic cells. <i>Organic Electronics</i> , <b>2013</b> , 14, 1931-1938	3.5	24
32	Enhanced stability in polymer solar cells by controlling the electrode work function via modification of indium tin oxide. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 115, 123-128	6.4	23
31	Synthesis and photovoltaic characterization of D/A structure compound based on N-substituted phenothiazine and benzothiadiazole. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2013</b> , 19, 421-426	6.3	23
30	An effect on the side chain position of D/A-type conjugated polymers with sp <sup>2</sup> -hybridized orbitals for organic photovoltaics. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3225	4.9	21
29	Enhanced performance in polymer light emitting diodes using an indium/zinc tin oxide transparent anode by the controlling of oxygen partial pressure at room temperature. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7009	7.1	20
28	Cumulative gain in organic solar cells by using multiple optical nanopatterns. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10347-10354	13	17
27	Enhanced photocurrent generation by high molecular weight random copolymer consisting of benzothiadiazole and quinoxaline as donor materials. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 120, 94-101	6.4	16
26	Synthesis of random copolymers based on 3-hexylthiophene and quinoxaline derivative: Influence between the intramolecular charge transfer (ICT) effect and conjugation length for their photovoltaic properties. <i>Synthetic Metals</i> , <b>2011</b> , 161, 1-6	3.6	16
25	Effect of replacing proton with alkoxy side chain for donor acceptor type organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 120, 303-309	6.4	15
24	Fabrication of OPVs by introducing a conductivity-enhanced hybrid buffer layer. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 101, 295-302	6.4	15

23	Effects of Inserting Thiophene as a Bridge on the Properties of Naphthalene Diimide-alt-Fused Thiophene Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44070-44078	9.5	15
22	Influence of alkanediol series as processing additives in photo-active layer on the power conversion efficiency of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 114, 82-88	6.4	15
21	Improved Performance of P3HT:PCBM-Based Solar Cells Using Nematic Liquid Crystals as a Processing Additive under Low Processing Temperature conditions. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 353-360	3.9	12
20	Porphyrin-Containing Polymer as a Superior Blue Light-Absorbing Additive To Afford High- J Ternary Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1156-1162	9.5	12
19	Nanograting Structured Ultrathin Substrate for Ultraflexible Organic Photovoltaics. <i>Small Methods</i> , <b>2020</b> , 4, 1900762	12.8	9
18	Self-organization polymer consisting of quinacridone and quaterthiophene units: Coplanar structure between benzene and thiophene linkage. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 117, 285-292	6.4	9
17	Study on the ClO <sub>4</sub> doped PEDOT-PEG in organic solvent using a hole injection layer for PLEDs. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2011</b> , 17, 651-656	6.3	9
16	Synthesis and characterization of a fluorene-quinoxaline copolymer for light-emitting applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 99-105	1.3	9
15	Study on the wet processable antimony tin oxide (ATO) transparent electrode for PLEDs. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2012</b> , 18, 312-316	6.3	8
14	Enhanced performance in bulk heterojunction solar cells by introducing naphthalene derivatives as processing additives. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 111, 16-22	6.4	8
13	A facile method for enhancing photovoltaic performance of low-band-gap D $\pi$ A conjugated polymer for OPVs by controlling the chemical structure. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 26, 173-181	6.3	7
12	Study on the antimony tin oxide as a hole injection layer for polymer light emitting diodes. <i>Thin Solid Films</i> , <b>2012</b> , 520, 4068-4073	2.2	6
11	Enhanced performance in bulk heterojunction solar cells with alkylidene fluorene donor by introducing modified PFN-OH/Al bilayer cathode. <i>RSC Advances</i> , <b>2014</b> , 4, 6776	3.7	5
10	Improved performance of flexible polymer light emitting diodes with an indium-zinc-tin-oxide transparent anode by controlling the thermal treatment temperature. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 53, 68-76	6.3	4
9	A study on the real-time decomposition monitoring of a metal organic precursor for metal organic chemical vapor deposition processes. <i>Measurement Science and Technology</i> , <b>2009</b> , 20, 025701	2	3
8	Vacuum-Free Fabrication Strategies for Nanostructure-Embedded Ultrathin Substrate in Flexible Polymer Solar Cells. <i>Energies</i> , <b>2020</b> , 13, 5375	3.1	2
7	Ultra-Flexible Organic Photovoltaics with Nanograting Patterns Based on CYTOP/Ag Nanowires Substrate. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
6	Patternable brush painting process for fabrication of flexible polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> ,	6.4	1

5	Size-Dependent Photovoltaic Performance of CdSe Supraquantum Dot/Polymer Hybrid Solar Cells: Goldilocks Problem Resolved by Tuning the Band Alignment Using Surface Ligands. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25775-25783	3.8	1
4	Ultra-Flexible Organic Photovoltaics with Low-Temperature Deposited IZTO on a Cyclic Polymer Substrate Having Excellent Mechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 51289-51296	8.5	0
3	Introducing a Quasirandom Pattern in OPVs for Balancing the Transverse Magnetic and Electric Modes of Incident Light. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14232-14239	6.1	0
2	Ultraflexible Organic Photovoltaics: Nanograting Structured Ultrathin Substrate for Ultraflexible Organic Photovoltaics (Small Methods 3/2020). <i>Small Methods</i> , <b>2020</b> , 4, 2070013	12.8	
1	P-57: Study on the Wet Processable Antimony Tin Oxide (Transparent Conducting Oxide, TCO) Using Anode for PLED Device Instead of ITO. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 1306	0.5	