Taesu Kim

List of Publications by Year in Descending Order

16 papers	1,887 citations	15 h-index	20 g-index
20 ext. papers	2,035 ext. citations	13.6 avg, IF	4.67 L-index

#	Paper	IF	Citations
16	Comparative Study of the Mechanical Properties of All-Polymer and Fullerene–Polymer Solar Cells: The Importance of Polymer Acceptors for High Fracture Resistance. *Chemistry of Materials*, **2018**, 30, 2102-2111	9.6	65
15	Mechanically robust and high-performance ternary solar cells combining the merits of all-polymer and fullerene blends. *Journal of Materials Chemistry A*, **2018**, 6, 4494-4503	13	43
14	Design of Cyanovinylene-Containing Polymer Acceptors with Large Dipole Moment Change for Efficient Charge Generation in High-Performance All-Polymer Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1701436	21.8	59
13	Synthesis and side-chain engineering of phenylnaphthalenediimide (PNDI)-based n-type polymers for efficient all-polymer solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 5449-5459	13	26
12	Importance of 2D Conjugated Side Chains of Benzodithiophene-Based Polymers in Controlling Polymer Packing, Interfacial Ordering, and Composition Variations of All-Polymer Solar Cells. *Chemistry of Materials*, **2017**, 29, 9407-9415	9.6	57
11	Impact of the photo-induced degradation of electron acceptors on the photophysics, charge transport and device performance of all-polymer and fullerene–polymer solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 22170-22179	13	57
10	Impact of highly crystalline, isoindigo-based small-molecular additives for enhancing the performance of all-polymer solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 21291-21299	13	12
9	Comparative Study of Thermal Stability, Morphology, and Performance of All-Polymer, Fullerene–Polymer, and Ternary Blend Solar Cells Based on the Same Polymer Donor. *Macromolecules*, **2017**, 50, 6861-6871	5.5	103
8	From Fullerene-Polymer to All-Polymer Solar Cells: The Importance of Molecular Packing, Orientation, and Morphology Control. *Accounts of Chemical Research*, **2016**, 49, 2424-2434	24.3	351
7	Terpolymer approach for controlling the crystalline behavior of naphthalene diimide-based polymer acceptors and enhancing the performance of all-polymer solar cells. *Polymer Journal*, **2016** , 48, 517-524	2.7	23
6	Correlation between Phase-Separated Domain Sizes of Active Layer and Photovoltaic Performances in All-Polymer Solar Cells. *Macromolecules*, **2016**, 49, 5051-5058	5.5	80
5	Improved Internal Quantum Efficiency and Light-Extraction Efficiency of Organic Light-Emitting Diodes via Synergistic Doping with Au and Ag Nanoparticles. *ACS Applied Materials & Interfaces* , **2016**, 8, 27911-27919	9.5	33
4	High-performance all-polymer solar cells via side-chain engineering of the polymer acceptor: the importance of the polymer packing structure and the nanoscale blend morphology. *Advanced Materials*, **2015**, 27, 2466-71	24	259
3	Flexible, highly efficient all-polymer solar cells. *Nature Communications*, **2015**, 6, 8547	17.4	638
2	Simultaneously Enhancing Light Extraction and Device Stability of Organic Light-Emitting Diodes using a Corrugated Polymer Nanosphere Templated PEDOT:PSS Layer. *Advanced Energy Materials*, **2014**, 4, 1301345	21.8	15
1	Au@polymer core-shell nanoparticles for simultaneously enhancing efficiency and ambient stability of organic optoelectronic devices. *ACS Applied Materials & Interfaces*, **2014**, 6, 16956-65	9.5	64