Dae Hee Lee

List of Publications by Year
in descending order

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33	867	430874 18	477307 29
papers	citations	h-index	g-index

33	33	33	1443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ecoâ€Friendly Solventâ€Processed Fullereneâ€Free Polymer Solar Cells with over 9.7% Efficiency and Longâ€Term Performance Stability. Advanced Energy Materials, 2017, 7, 1700566.	19.5	97
2	High Aspect Ratio Conjugated Polymer Nanowires for High Performance Field-Effect Transistors and Phototransistors. ACS Nano, 2015, 9, 5264-5274.	14.6	76
3	High mobility isoindigo-based Ï€-extended conjugated polymers bearing di(thienyl)ethylene in thin-film transistors. Polymer Chemistry, 2013, 4, 5688.	3.9	55
4	Bis(thienothiophenyl) Diketopyrrolopyrrole-Based Conjugated Polymers with Various Branched Alkyl Side Chains and Their Applications in Thin-Film Transistors and Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 3280-3288.	8.0	52
5	Novel Polymer Nanowire Crystals of Diketopyrrolopyrroleâ€Based Copolymer with Excellent Charge Transport Properties. Advanced Materials, 2013, 25, 4102-4106.	21.0	48
6	New M- and V-shaped perylene diimide small molecules for high-performance nonfullerene polymer solar cells. Chemical Communications, 2016, 52, 8873-8876.	4.1	48
7	Excellent Long-Term Stability of Power Conversion Efficiency in Non-Fullerene-Based Polymer Solar Cells Bearing Tricyanovinylene-Functionalized n-Type Small Molecules. ACS Applied Materials & Interfaces, 2017, 9, 8838-8847.	8.0	46
8	Acene-Containing Donorâ€“Acceptor Conjugated Polymers: Correlation between the Structure of Donor Moiety, Charge Carrier Mobility, and Charge Transport Dynamics in Electronic Devices. Macromolecules, 2014, 47, 3747-3754.	4.8	39
9	(D)_nâ€“Ïƒâ€“(A)_m type partially conjugated block copolymer and its performance in single-component polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 9745-9751.	10.3	37
10	Diketopyrrolopyrrole-bitellurophene containing a conjugated polymer and its high performance thin-film transistor sensor for bromine detection. Chemical Communications, 2014, 50, 14394-14396.	4.1	35
11	Enhanced Performance of Polymer Solar Cells Comprising Diketopyrrolopyrrole-Based Regular Terpolymer Bearing Two Different Ï€-Extended Donor Units. ACS Applied Materials & Interfaces, 2015, 7, 28303-28310.	8.0	35
12	Ï€-Conjugated polymers derived from 2,5-bis(2-decyltetradecyl)-3,6-di(selenophen-2-yl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione for high-performance thin film transistors. Polymer Chemistry, 2015, 6, 1777-1785.	3.9	32
13	Two Regioisomeric Ï€â€Conjugated Small Molecules: Synthesis, Photophysical, Packing, and Optoelectronic Properties. Advanced Functional Materials, 2017, 27, 1701942.	14.9	27
14	A new n-type semiconducting molecule with an asymmetric indenothiophene core for a high-performing non-fullerene type organic solar cell. Journal of Materials Chemistry C, 2017, 5, 7182-7190.	5.5	26
15	Effect of branched alkyl side chains on the performance of thin-film transistors and photovoltaic cells fabricated with isoindigo-based conjugated polymers. Journal of Polymer Science Part A, 2015, 53, 1226-1234.	2.3	23
16	High-performance low-bandgap conjugated polymers bearing diethynylanthracene units for thin-film transistors. Chemical Communications, 2013, 49, 3896.	4.1	22
17	Perylene diimide isomers containing a simple sp3-core for non-fullerene-based polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 663-671.	10.3	22
18	Tunable light harvesting properties of a highly crystalline alternating terpolymer for high-performing solar cells. Polymer Chemistry, 2015, 6, 5478-5486.	3.9	21

#	Article	IF	Citations
19	Regular terpolymers with fluorinated bithiophene units for high-performing photovoltaic cells. Polymer Chemistry, 2016, 7, 5069-5078.	3.9	17
20	Effect of acceptor strength in new acceptorâ€“donorâ€“acceptor-type molecules on their miscibility with donor polymers for bulk-heterojunction fullerene-free solar cells. Dyes and Pigments, 2017, 146, 226-233.	3.7	17
21	Effect of the thiophene and selenophene moiety in regular terpolymers on the performance of thin film transistors and polymer solar cells. Polymer, 2016, 94, 43-52.	3.8	15
22	Naphthodithiophene-Diketopyrrolopyrrole-Based donor-Acceptor alternating Ï€-Conjugated polymers for Organic thin-Film transistors. Journal of Polymer Science Part A, 2013, 51, 5280-5290.	2.3	12
23	Importance of varying electron-accepting moieties in regular conjugated terpolymers for use in polymer solar cells. Organic Electronics, 2016, 38, 256-263.	2.6	10
24	New acceptorâ€“donorâ€“acceptor-type conjugated molecules bearing naphtho[1,2-b:5,6-bâ€²]dithiophene and (E)-1,2-di(thiophen-2-yl)ethene and their applications in thin-film transistors and photovoltaic cells. Synthetic Metals, 2015, 206, 24-32.	3.9	9
25	Quinoxalineâ€based Dâ€A conjugated polymers for organic solar cells: Probing the effect of quinoxaline side chains and fluorine substitution on the power conversion efficiency. Journal of Polymer Science Part A, 2017, 55, 1209-1218.	2.3	8
26	Ambipolar charge transport in a donorâ€“acceptorâ€“donorâ€type conjugated block copolymer and its gateâ€voltageâ€controlled thin film transistor memory. Journal of Polymer Science Part A, 2017, 55, 3223-3235.	2.3	8
27	New Ï€â€Conjugated polymers containing 4H,4â€²Hâ€[1,1â€²â€Bithieno [3,4â€C]Pyrrole]â€4,4â€²,6,6â€²(5H,5â€²H)â€Tetraone (biTPD) units and their application to thinâ€Film transistors and photovoltaic cells. Journal of Polymer Science Part A, 2016, 54, 1228-1235.	2.3	7
28	Diketopyrrolopyrrole-tellurophene polymer for fast, selective, and reversible detection of bromine in solution, vapor, and solid states: AÂsystematic study. Dyes and Pigments, 2015, 123, 317-322.	3.7	6
29	Regular conjugated terpolymers comprising two different acceptors and bithiophene donor in repeating group: Effect of strong and weak acceptors on semiconducting properties. Journal of Polymer Science Part A, 2016, 54, 1339-1347.	2.3	6
30	Diketopyrrolopyrrole-based conjugated small molecules bearing two different acceptor moieties for organic solar cells. Synthetic Metals, 2016, 221, 39-47.	3.9	5
31	Annealing-Free High-Mobility Diketopyrrolopyrrole-Benzodithiophene Copolymer for Organic Thin Film Transistors. Molecular Crystals and Liquid Crystals, 2014, 598, 97-103.	0.9	3
32	2,5-Bis(2-octyldodecyl)pyrrolo[3,4-c]pyrrole-1,4-(2H,5H)-dione-Based Donor-Acceptor Alternating Copolymer Bearing Benzothieno[3,2-b] benzothiophene as an Organic Semiconductor and Its Application to Thin Film Transistors. Molecular Crystals and Liquid Crystals, 2013, 581, 38-44.	0.9	2
33	Polymer Solar Cells: Eco-Friendly Solvent-Processed Fullerene-Free Polymer Solar Cells with over 9.7% Efficiency and Long-Term Performance Stability (Adv. Energy Mater. 19/2017). Advanced Energy Materials, 2017, 7, .	19.5	1