

Dong Hoon Choi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

322
papers

6,401
citations

38
h-index

64
g-index

333
ext. papers

7,073
ext. citations

5.4
avg, IF

5.99
L-index

#	Paper	IF	Citations
322	Mapping the broadband circular dichroism of copolymer films with supramolecular chirality in time and space.. <i>Nature Communications</i> , 2022 , 13, 210	17.4	5
321	Porphyrin-cored amphiphilic star block copolymer photocatalysts: Hydrophobic-layer effects on photooxidation. <i>Materials Letters</i> , 2022 , 311, 131577	3.3	0
320	High-efficiency solution-processed green thermally activated delayed fluorescence OLEDs using a polymer-small molecule mixed host. <i>Polymer Chemistry</i> , 2022 , 13, 1824-1830	4.9	1
319	Novel V-Shaped Bipolar Host Materials for Solution-Processed Thermally Activated Delayed Fluorescence OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49076-49084	9.5	4
318	Haze-enhanced ZnO/Ag/ZnO nanomesh electrode for flexible, high-efficiency indoor organic photovoltaics. <i>Journal of Power Sources</i> , 2021 , 515, 230589	8.9	1
317	Deep Learning Optical Spectroscopy Based on Experimental Database: Potential Applications to Molecular Design. <i>Jacs Au</i> , 2021 , 1, 427-438		13
316	Nonhalogenated Solvent-Processed High-Performance Indoor Photovoltaics Made of New Conjugated Terpolymers with Optimized Monomer Compositions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13487-13498	9.5	5
315	Complementary absorbing ternary blend containing structural isomeric donor polymers for improving the performance of PC61BM-based indoor photovoltaics. <i>Polymer</i> , 2021 , 221, 123606	3.9	2
314	Improved Stability of All-Polymer Solar Cells Using Crosslinkable Donor and Acceptor Polymers Bearing Vinyl Moieties in the Side-Chains. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16754-16765	9.5	4
313	Effect of Fused Thiophene Bridges on the Efficiency of Non-Fullerene Polymer Solar Cells made with Conjugated Donor Copolymers Containing Alkyl Thiophene-3-Carboxylate. <i>Macromolecular Research</i> , 2021 , 29, 435-442	1.9	3
312	Ultra-Deep-Blue Aggregation-Induced Delayed Fluorescence Emitters: Achieving Nearly 16% EQE in Solution-Processed Nondoped and Doped OLEDs with CIEy. <i>Advanced Functional Materials</i> , 2021 , 31, 2102588	15.6	19
311	Novel carbazole-acridine-based hole transport polymer for low turn-on voltage of green quantum dot light-emitting diodes. <i>Polymer Chemistry</i> , 2021 , 12, 4714-4721	4.9	1
310	Optimal Design of PEDOT:PSS Polymer-Based Silver Nanowire Electrodes for Realization of Flexible Polymer Solar Cells. <i>Macromolecular Research</i> , 2021 , 29, 75-81	1.9	3
309	Comparison of the mechanical properties of polymer blend and main-chain conjugated copolymer films with donor-acceptor heterojunctions. <i>Chemical Engineering Journal</i> , 2021 , 415, 128952	14.7	2
308	Donor engineered Deep-Blue emitters for tuning luminescence mechanism in Solution-Processed OLEDs. <i>Chemical Engineering Journal</i> , 2021 , 416, 129185	14.7	15
307	Pyrazine-based hollow spherical self-assemblies: A portable tool for detection of volatile organic amines. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130110	8.5	4
306	New hole transport styrene polymers bearing highly extended conjugated side-chain moieties for high-performance solution-processable thermally activated delayed fluorescence OLEDs. <i>Polymer Chemistry</i> , 2021 , 12, 1692-1699	4.9	0

305	Patterned Sandwich-Type Silver Nanowire-Based Flexible Electrode by Photolithography.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61463-61472	9.5	3
304	Aryl-Annulated [3,2-] Carbazole-Based Deep-Blue Soluble Emitters for High-Efficiency Solution-Processed Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes with CIE . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61454-61462	9.5	5
303	Rational design, synthesis, and characterization of a photocrosslinkable hole-transporting polymer for high performance solution-processed thermally activated delayed fluorescence OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4572-4579	7.1	7
302	5H-Benzo[d]Benzo[4,5]Imidazo[2,1-b][1,3]Thiazine as a Novel Electron-Acceptor Cored High Triplet Energy Bipolar Host Material for Efficient Solution-Processable Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2020 , 8, 61	5	4
301	Rational Design of Carbazole- and Carboline-Based Polymeric Host Materials for Realizing High-Efficiency Solution-Processed Thermally Activated Delayed Fluorescence Organic Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8485-8494	9.5	13
300	Rational design of a novel isoindigo-based conjugated terpolymer with panchromatic absorption and its application to polymer solar cells. <i>Dyes and Pigments</i> , 2020 , 179, 108391	4.6	6
299	Significantly Improved Morphology and Efficiency of Nonhalogenated Solvent-Processed Solar Cells Derived from a Conjugated Donor-Acceptor Block Copolymer. <i>Advanced Science</i> , 2020 , 7, 1902470	13.6	22
298	Optical assessment of chiral-chiral polymer blends based on surface plasmon resonance effects of gold nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 095102	3	2
297	Pyrimidine-based bipolar host materials for high efficiency solution processed green thermally activated delayed fluorescence OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2196-2204	7.1	9
296	Universal polymeric bipolar hosts for highly efficient solution-processable blue and green thermally activated delayed fluorescence OLEDs. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16048-16056	7.1	5
295	High-Performance, Solution-Processable Thermally Activated Delayed Fluorescent Organic Light-Emitting Diodes Realized via the Adjustment of the Composition of the Organoboron Acceptor Monomer in Copolymer Host Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35300-35310	9.5	11
294	Asymmetric Host Molecule Bearing Pyridine Core for Highly Efficient Blue Thermally Activated Delayed Fluorescence OLEDs. <i>Chemistry - A European Journal</i> , 2020 , 26, 16383-16391	4.8	4
293	Dynamics of Photoinduced Energy Transfer in Fully and Partially Conjugated Polymers Bearing Extended Donor and Acceptor Monomers. <i>Frontiers in Chemistry</i> , 2020 , 8, 605403	5	0
292	Rational design of a main chain conjugated copolymer having donor-acceptor heterojunctions and its application in indoor photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20091-20100	13	6
291	Direct Photolithographic Patterning of Colloidal Quantum Dots Enabled by UV-Crosslinkable and Hole-Transporting Polymer Ligands. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42153-42160	9.5	11
290	Achievement of high efficiency with extremely low efficiency roll-off in solution-processed thermally activated delayed fluorescence OLEDs manufactured using xanthone-based bipolar host materials. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6780-6787	7.1	13
289	Structural isomers of 9-(pyridin-2-yl)-9H-carbazole in combination with 9'H-9,3':6',9'-tercarbazole and their application to high efficiency solution processed green TADF OLEDs. <i>Dyes and Pigments</i> , 2020 , 179, 108403	4.6	6
288	Color-Tunable Boron-Based Emitters Exhibiting Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence for Efficient Solution-Processable Nondoped Deep-Blue to Sky-Blue OLEDs. <i>Advanced Optical Materials</i> , 2020 , 8, 1902175	8.1	30

287	Ultrafast Broadband Transient Absorption and Circular Dichroism Reveal Relaxation of a Chiral Copolymer. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5160-5166	6.4	9
286	Facile one-pot polymerization of a fully conjugated donor-acceptor block copolymer and its application in efficient single component polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21280-21289	13	23
285	Recent breakthroughs in thermally activated delayed fluorescence organic light emitting diodes containing non-doped emitting layers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2172-2198	7.1	94
284	Solution-processed white organic light-emitting diodes with blue fluorescent and orange-red thermally activated delayed fluorescent dendritic luminogens. <i>Dyes and Pigments</i> , 2019 , 170, 107650	4.6	7
283	Hole-Transporting Side-Chain Polymer Bearing a Thermally Crosslinkable Bicyclo[4.2.0]octa-1,3,5-trien-3-yl Group for High-Performing Thermally Activated Delayed Fluorescence OLED. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17602-17609	9.5	15
282	Potentially self-dopable poly(3-hexylthiophene) block copolymers/carbon nanotube nanocomposites for enhanced processibility and electrical properties. <i>Composites Science and Technology</i> , 2019 , 174, 149-157	8.6	4
281	2D-EA type cruciform host material with silane core for highly efficient solution-processable green thermally activated delayed fluorescence organic light emitting diodes. <i>Dyes and Pigments</i> , 2019 , 167, 120-126	4.6	6
280	Highly efficient halochromic behaviors in solution and film states with 9,19-dichloro-5,15-dihydrocarbazolo[3',4':5,6][1,4]oxazino[2,3-b]indolo[3,2-h]phenoxazine derivative. <i>Dyes and Pigments</i> , 2019 , 160, 372-377	4.6	2
279	Novel molecular triad exhibiting aggregation-induced emission and thermally activated fluorescence for efficient non-doped organic light-emitting diodes. <i>Chemical Communications</i> , 2019 , 55, 9475-9478	5.8	16
278	Synthesis of a new wide-bandgap conjugated copolymer with 3-trifluoromethylthiophene monomer and Its application to non-fullerene polymer solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2019 , 686, 30-37	0.5	
277	Blue-emitting dendritic molecule with dual functionality as host and dopant for solution-processed white OLEDs with red-emitting material. <i>Synthetic Metals</i> , 2019 , 258, 116198	3.6	0
276	Chromenopyrazole-based bipolar host materials for solution-processable thermally activated delayed fluorescence OLEDs exhibiting high efficiency and low roll-off. <i>Chemical Communications</i> , 2019 , 55, 12952-12955	5.8	11
275	Coherent acoustic phonon dynamics in chiral copolymers. <i>Structural Dynamics</i> , 2019 , 6, 064502	3.2	3
274	An excellent bipolar host material exhibiting EQE of 24.0% with small efficiency roll-off in solution-processable thermally activated delayed fluorescence OLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13930-13938	7.1	11
273	High-efficiency non-fullerene polymer solar cell fabricated by a simple process using new conjugated terpolymers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 111-118	7.1	18
272	A crucial factor affecting the power conversion efficiency of oxide/metal/oxide-based organic photovoltaics: Optical cavity versus transmittance. <i>Applied Energy</i> , 2019 , 235, 1505-1513	10.7	5
271	Solution-processed thermally activated delayed fluorescence organic light-emitting diodes using a new polymeric emitter containing non-conjugated cyclohexane units. <i>Polymer Chemistry</i> , 2018 , 9, 1318-1326	4.9	53
270	Highly efficient and highly stable terpolymer-based all-polymer solar cells with broad complementary absorption and robust morphology. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10095-10103	13	25

269	Unconventional Three-Armed Luminogens Exhibiting Both Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence Resulting in High-Performing Solution-Processed Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14966-14977	9.5	41
268	New conjugated regular terpolymers based on diketopyrrolopyrrole-benzodithiophene and their application to thin film transistors and polymer solar cells. <i>Synthetic Metals</i> , 2018 , 236, 36-43	3.6	6
267	Tunable intrinsic semiconducting properties of diketopyrrolopyrrole-based copolymers with electron donating thiophene and electron accepting thiazole moieties. <i>Synthetic Metals</i> , 2018 , 236, 1-7	3.6	8
266	Novel dendritic large molecules as solution-processable thermally activated delayed fluorescent emitters for simple structured non-doped organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1160-1170	7.1	24
265	High-performing random terpolymer-based nonfullerene polymer solar cells fabricated using solvent additive-free as-cast blend films. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 1528-1535	2.5	8
264	Effect of a methyl thiophene-3-carboxylate bridge in an indacenodithiophene-based acceptor-donor-acceptor-type molecule on the performance of non-fullerene polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7549-7556	7.1	17
263	Regioisomeric π -conjugated terpolymers bearing carboxylate substituted thienothiophenyl quarterthiophene and their application to fullerene-free polymer solar cells. <i>Polymer</i> , 2018 , 146, 142-150	3.9	6
262	Highly efficient bipolar host materials towards solution-processable blue and green thermally activated delayed fluorescence organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10000-10009	7.1	19
261	Novel wide-bandgap copolymer bearing alkylthio-thiophene-substituted benzodithiophene and methyl thiophene-3-carboxylate for highly stable fullerene-free simple polymer solar cells. <i>Organic Electronics</i> , 2018 , 53, 151-159	3.5	8
260	Improved performance of non-fullerene polymer solar cells by simple structural change of asymmetric acceptor based on indenothiophene. <i>Synthetic Metals</i> , 2018 , 246, 164-171	3.6	5
259	Influence of Branched Alkyl Ester-Labeled Side Chains on Specific Chain Arrangement and Charge-Transport Properties of Diketopyrrolopyrrole-Based Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40681-40691	9.5	13
258	Synthesis of Conjugated Wide-Bandgap Copolymers Bearing Ladder-Type Donating Units and Their Application to Non-Fullerene Polymer Solar Cells. <i>Macromolecular Research</i> , 2018 , 26, 844-850	1.9	8
257	High-Performance Polymer Solar Cell with Single Active Material of Fully Conjugated Block Copolymer Composed of Wide-Band gap Donor and Narrow-Band gap Acceptor Blocks. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18974-18983	9.5	45
256	Chromenopyrazole-Based Bipolar Blue Host Materials for Highly Efficient Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2018 , 30, 5005-5012	9.6	28
255	Quinoxaline-based D-A conjugated polymers for organic solar cells: Probing the effect of quinoxaline side chains and fluorine substitution on the power conversion efficiency. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1209-1218	2.5	6
254	Excellent Long-Term Stability of Power Conversion Efficiency in Non-Fullerene-Based Polymer Solar Cells Bearing Tricyanovinylene-Functionalized n-Type Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8838-8847	9.5	43
253	Autoxidation in amide-based electrolyte and its suppression for enhanced oxygen efficiency and cycle performance in non-aqueous lithium oxygen battery. <i>Journal of Power Sources</i> , 2017 , 347, 186-192	8.9	10
252	(D)n(A)m type partially conjugated block copolymer and its performance in single-component polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9745-9751	13	27

251	Eco-Friendly Solvent-Processed Fullerene-Free Polymer Solar Cells with over 9.7% Efficiency and Long-Term Performance Stability. <i>Advanced Energy Materials</i> , 2017 , 7, 1700566	21.8	76
250	Metal-oxide assisted surface treatment of polyimide gate insulators for high-performance organic thin-film transistors. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15521-15529	3.6	9
249	A new n-type semiconducting molecule with an asymmetric indenothiophene core for a high-performing non-fullerene type organic solar cell. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7182-7190 ¹	7.1	22
248	Optimized structure of silane-core containing host materials for highly efficient blue TADF OLEDs. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6570-6577	7.1	27
247	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). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	1
246	Two Regioisomeric π -Conjugated Small Molecules: Synthesis, Photophysical, Packing, and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2017 , 27, 1701942	15.6	23
245	Ambipolar charge transport in a donor-acceptor-donor-type conjugated block copolymer and its gate-voltage-controlled thin film transistor memory. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 3223-3235	2.5	4
244	Structural optimization of large acceptor-donor-acceptor-type molecules for improved performance of fullerene-free polymer solar cells. <i>RSC Advances</i> , 2017 , 7, 38773-38779	3.7	9
243	Enhanced Efficiency and Long-Term Stability of Perovskite Solar Cells by Synergistic Effect of Nonhygroscopic Doping in Conjugated Polymer-Based Hole-Transporting Layer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43846-43854	9.5	31
242	Effect of acceptor strength in new acceptor-donor-acceptor-type molecules on their miscibility with donor polymers for bulk-heterojunction fullerene-free solar cells. <i>Dyes and Pigments</i> , 2017 , 146, 226-233	4.6	17
241	Perylene diimide isomers containing a simple sp ³ -core for non-fullerene-based polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 663-671	13	19
240	A phenothiazine-based "baked-eye" fluorescent probe for the dual detection of Hg ²⁺ and Cu ²⁺ : Application as a solid state sensor. <i>Dyes and Pigments</i> , 2016 , 125, 1-7	4.6	53
239	Ternary polymer solar cell based on two donors and one acceptor for improving morphology and power conversion efficiency. <i>Synthetic Metals</i> , 2016 , 220, 362-368	3.6	3
238	Controlled synthesis of multi-armed P3HT star polymers with gold nanoparticle core. <i>RSC Advances</i> , 2016 , 6, 49206-49213	3.7	8
237	Regular terpolymers with fluorinated bithiophene units for high-performing photovoltaic cells. <i>Polymer Chemistry</i> , 2016 , 7, 5069-5078	4.9	15
236	Thermally activated delayed fluorescence blue dopants and hosts: from the design strategy to organic light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11355-11381	7.1	131
235	Side-chain engineering of diketopyrrolopyrrole-based copolymer using alkyl ester group for efficient polymer solar cell. <i>Macromolecular Research</i> , 2016 , 24, 980-985	1.9	16
234	Effect of the thiophene and selenophene moiety in regular terpolymers on the performance of thin film transistors and polymer solar cells. <i>Polymer</i> , 2016 , 94, 43-52	3.9	12

233	New M- and V-shaped perylene diimide small molecules for high-performance nonfullerene polymer solar cells. <i>Chemical Communications</i> , 2016 , 52, 8873-6	5.8	44
232	Molecular-weight engineering of high-performing diketopyrrolopyrrole-based copolymer bearing high π -extended long donating units. <i>Polymer</i> , 2016 , 83, 77-84	3.9	10
231	A diketopyrrolopyrrole-based regular terpolymer bearing two different π -extended donor units and its application in solar cells. <i>Organic Electronics</i> , 2016 , 31, 198-206	3.5	11
230	New fluorene-based chiral copolymers with unusually high optical activity in pristine and annealed thin films. <i>RSC Advances</i> , 2016 , 6, 23879-23886	3.7	12
229	Circular dichroism, surface-enhanced Raman scattering, and spectroscopic ellipsometry studies of chiral polyfluorene-phenylene films. <i>Optical Materials Express</i> , 2016 , 6, 767	2.6	10
228	Dithienothiophene π -diketopyrrolopyrrole-containing copolymers with alkyl side-chain and their application to polymer solar cells. <i>Synthetic Metals</i> , 2016 , 212, 167-173	3.6	8
227	New π -conjugated polymers containing 4H,4'H-[1,1'-Bithieno [3,4-C]Pyrrole]-4,4',6,6'(5H,5'H)-Tetraone (biTPD) units and their application to thin-film transistors and photovoltaic cells. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1228-1235	2.5	7
226	Regular conjugated terpolymers comprising two different acceptors and bithiophene donor in repeating group: Effect of strong and weak acceptors on semiconducting properties. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1339-1347	2.5	6
225	Diketopyrrolopyrrole-based three-armed conjugated small molecule and their charge transport property. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 635, 80-86	0.5	
224	High-performance bipolar host materials for blue TADF devices with excellent external quantum efficiencies. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4512-4520	7.1	58
223	Isoindigo-based polymer solar cells with high open circuit voltages up to 1.01V. <i>Organic Electronics</i> , 2016 , 34, 157-163	3.5	16
222	Importance of varying electron-accepting moieties in regular conjugated terpolymers for use in polymer solar cells. <i>Organic Electronics</i> , 2016 , 38, 256-263	3.5	9
221	Diketopyrrolopyrrole-based conjugated small molecules bearing two different acceptor moieties for organic solar cells. <i>Synthetic Metals</i> , 2016 , 221, 39-47	3.6	5
220	High-performance n-type field-effect transistors based on a highly crystalline tricyanovinylidihydrofuran derivative. <i>Chemical Communications</i> , 2016 , 52, 13012-13015	5.8	4
219	Effect of branched alkyl side chains on the performance of thin-film transistors and photovoltaic cells fabricated with isoindigo-based conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1226-1234	2.5	20
218	Molecular design of large-bandgap host materials and their application to blue phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2015 , 26, 218-224	3.5	7
217	High-Performing Thin-Film Transistors in Large Spherulites of Conjugated Polymer Formed by Epitaxial Growth on Removable Organic Crystalline Templates. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13431-9	9.5	19
216	Tunable light harvesting properties of a highly crystalline alternating terpolymer for high-performing solar cells. <i>Polymer Chemistry</i> , 2015 , 6, 5478-5486	4.9	19

215	Semiconducting π -extended porphyrin dimer and its characteristics in OFET and OPVC. <i>Synthetic Metals</i> , 2015 , 205, 206-211	3.6	11
214	High aspect ratio conjugated polymer nanowires for high performance field-effect transistors and phototransistors. <i>ACS Nano</i> , 2015 , 9, 5264-74	16.7	64
213	Diketopyrrolopyrrole-tellurophene polymer for fast, selective, and reversible detection of bromine in solution, vapor, and solid states: A systematic study. <i>Dyes and Pigments</i> , 2015 , 123, 317-322	4.6	4
212	New π -extended triphenylene-based organic semiconductors in field-effect transistors. <i>Synthetic Metals</i> , 2015 , 209, 434-440	3.6	6
211	π -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. <i>Polymer Chemistry</i> , 2015 , 6, 1777-1785	4.9	31
210	Low-bandgap biophotonic nanoblend: a platform for systemic disease targeting and functional imaging. <i>Biomaterials</i> , 2015 , 39, 225-33	15.6	16
209	Diketopyrrolopyrrole: brilliant red pigment dye-based fluorescent probes and their applications. <i>Chemical Society Reviews</i> , 2015 , 44, 58-77	58.5	289
208	Diketopyrrolopyrrole-based copolymers bearing highly π -extended donating units and their thin-film transistors and photovoltaic cells. <i>Polymer Chemistry</i> , 2015 , 6, 150-159	4.9	24
207	A bifunctional colorimetric fluorescent probe for Hg(2+) and Cu(2+) based on a carbazole-pyrimidine conjugate: chromogenic and fluorogenic recognition on TLC, silica-gel and filter paper. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 7149-53	3.9	27
206	New acceptor-donor-acceptor-type conjugated molecules bearing naphtho[1,2-b:5,6-b']dithiophene and (E)-1,2-di(thiophen-2-yl)ethene and their applications in thin-film transistors and photovoltaic cells. <i>Synthetic Metals</i> , 2015 , 206, 24-32	3.6	8
205	Enhanced Performance of Polymer Solar Cells Comprising Diketopyrrolopyrrole-Based Regular Terpolymer Bearing Two Different π -Extended Donor Units. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28303-10	9.5	32
204	Synthesis and Characterization of New Dibenzothiophene-based Host Materials for Blue Phosphorescent Organic Light-Emitting Diodes. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 621, 31-39	0.5	
203	Bis(thienothiophenyl) diketopyrrolopyrrole-based conjugated polymers with various branched alkyl side chains and their applications in thin-film transistors and polymer solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3280-8	9.5	45
202	Two-dimensional π -conjugated molecules based-on 2,6,9,10-tetra(prop-1-yn-1-yl)anthracene and their application to solution-processed photovoltaic cells. <i>Organic Electronics</i> , 2014 , 15, 1521-1530	3.5	10
201	Novel 9,9'-(1,3-phenylene)bis-9H-carbazole-containing copolymers as hole-transporting and host materials for blue phosphorescent polymer light-emitting diodes. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 707-718	2.5	8
200	Correlation between Polymer Structure and Polymer:Fullerene Blend Morphology and Its Implications for High Performance Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2237-2244	3.8	14
199	Effect of solvent on dye-adsorption process and photovoltaic properties of dendritic organic dye on TiO ₂ electrode of dye-sensitized solar cells. <i>Synthetic Metals</i> , 2014 , 188, 130-135	3.6	10
198	Chemodosimeter approach: Selective detection of fluoride ion using a diketopyrrolopyrrole derivative. <i>Dyes and Pigments</i> , 2014 , 103, 154-160	4.6	29

197	Template-guided solution-shearing method for enhanced charge carrier mobility in diketopyrrolopyrrole-based polymer field-effect transistors. <i>Advanced Materials</i> , 2014 , 26, 6031-5	24	54
196	New bipolar host materials for realizing blue phosphorescent organic light-emitting diodes with high efficiency at 1000 cd/m ² . <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19808-15	9.5	37
195	Novel π -extended porphyrin derivatives for use in dye-sensitized solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2014 , 18, 569-578	1.8	8
194	Acene-Containing Donor-Acceptor Conjugated Polymers: Correlation between the Structure of Donor Moiety, Charge Carrier Mobility, and Charge Transport Dynamics in Electronic Devices. <i>Macromolecules</i> , 2014 , 47, 3747-3754	5.5	33
193	Nanosopic management of molecular packing and orientation of small molecules by a combination of linear and branched alkyl side chains. <i>ACS Nano</i> , 2014 , 8, 5988-6003	16.7	40
192	Annealing-Free High-Mobility Diketopyrrolopyrrole-Benzodithiophene Copolymer for Organic Thin Film Transistors. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 598, 97-103	0.5	1
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190	New π -extended diketopyrrolopyrrole-based conjugated molecules for solution-processed solar cells: Influence of effective conjugation length on power conversion efficiency. <i>Dyes and Pigments</i> , 2014 , 108, 7-14	4.6	15
189	Dual channel receptor based on diketopyrrolopyrrole alkyne conjugate for detection of Hg ²⁺ /Cu ²⁺ by naked eye and fluorescence. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 542-548	8.5	47
188	A Carbazole Based Bimodal "Turn-On" Fluorescent Probe for Biothiols (Cysteine/Homocysteine) and Fluoride: Sensing, Imaging and its Applications. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 3437-3442	1.2	4
187	High mobility isoindigo-based π -extended conjugated polymers bearing di(thienyl)ethylene in thin-film transistors. <i>Polymer Chemistry</i> , 2013 , 4, 5688	4.9	52
186	High-efficiency blue phosphorescent organic light-emitting diodes using a carbazole and carboline-based host material. <i>Chemical Communications</i> , 2013 , 49, 6788-90	5.8	47
185	Enhancement of photovoltaic performance in dye-sensitized solar cells fabricated with dendritic photosensitizer containing site-isolated chromophores. <i>Dyes and Pigments</i> , 2013 , 99, 986-994	4.6	17
184	Organic Donor-Acceptor Molecules Based on 5,5'-(9,10-Bis((4-hexylphenyl)ethynyl)anthracene-2,6-diyl)bis(ethyne-2,1-diyl)bis(2-hexylthiophene) for Resistive Random Access Memory. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 580, 95-102	0.5	
183	Self-ordering properties of functionalized acenes for annealing-free organic thin film transistors. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10658-64	3.4	11
182	Modulation of carrier mobility of diketopyrrolopyrrole and quaterthiophene containing copolymer with self-assembled monolayers on gate dielectrics of thin film transistors. <i>Synthetic Metals</i> , 2013 , 184, 61-67	3.6	4
181	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. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 581, 38-44	0.5	2
180	Effects of side chains on physical and photovoltaic properties of methyl thiophene-3-carboxylate containing dithienopyrrole-based copolymers. <i>Synthetic Metals</i> , 2013 , 182, 22-27	3.6	3

179	Naphthodithiophene-Diketopyrrolopyrrole-Based donor-Acceptor alternating π -Conjugated polymers for Organic thin-Film transistors. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 5280-5290	2.5	12
178	Enhanced performance of organic photovoltaic devices by photo-crosslinkable buffer layer. <i>Macromolecular Research</i> , 2013 , 21, 65-70	1.9	8
177	Complementary Absorbing Star-Shaped Small Molecules for the Preparation of Ternary Cascade Energy Structures in Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 1556-1565	15.6	135
176	Donor-Acceptor alternating π -conjugated polymers containing Di(thiophen-2-yl)pyrene and 2,5-Bis(2-octyldodecyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione for organic thin-film transistors. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1457-1467	2.5	22
175	Electrical and photoelectrical properties of polymer single nanowire made of diketopyrrolopyrrole-based conjugated copolymer bearing dithieno[3,2-b:2',3'-d]thiophene. <i>Synthetic Metals</i> , 2013 , 167, 37-42	3.6	4
174	Synthesis and characterization of wide range light absorbing poly(dithieno[3,2-b:2',3'-d]thiophene-alt-3,6-bis(thiophen-2-yl)-2,5-di-n-octyl-pyrrolo[3,4-c]pyrrole-1,4-dione) for polymer solar cells. <i>Synthetic Metals</i> , 2013 , 164, 64-68	6	6
173	Optical properties of organic semiconductor thin films: 2,6,9,10-tetrakis(phenylethynyl)anthracene. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 930-936	0.6	7
172	Photo-induced negative differential resistance of organic thin film transistors using anthracene derivatives. <i>Organic Electronics</i> , 2013 , 14, 2204-2209	3.5	14
171	Novel polymer nanowire crystals of diketopyrrolopyrrole-based copolymer with excellent charge transport properties. <i>Advanced Materials</i> , 2013 , 25, 4102-6	24	44
170	Electrogenerated chemiluminescence of N,N-dimethylamino functionalized tetrakis(phenylethynyl)pyrenes. <i>Tetrahedron</i> , 2013 , 69, 5908-5912	2.4	8
169	An unsymmetrically π -extended porphyrin-based single-crystal field-effect transistor and its anisotropic carrier-transport behavior. <i>Chemistry - A European Journal</i> , 2013 , 19, 2247-51	4.8	14
168	Donor-Acceptor Type Diphenylaminothiophenyl Anthracene-mediated Organic Photosensitizers for Dye-sensitized Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 1081-1088	1.2	10
167	High-performance organic thin film transistors based on inkjet-printed polymer/TIPS pentacene blends. <i>Organic Electronics</i> , 2012 , 13, 1329-1339	3.5	35
166	Enhanced performance of organic photovoltaic cells fabricated with a methyl thiophene-3-carboxylate-containing alternating conjugated copolymer. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 146-51	4.8	15
165	Highly purified cyclic olefin polymer by ROMP and In situ hydrogenation with ruthenium supported catalyst. <i>Macromolecular Research</i> , 2012 , 20, 777-779	1.9	7
164	Self-assembled monolayers made of 6-(5-((6-((5-hexylthiophen-2-yl)ethynyl)-9,10-bis(phenylethynyl)anthracen-2-yl)ethynyl)thiophen-2-yl)hexyl 3-(triethoxysilyl)propylcarbamate for ultrathin film transistors. <i>Langmuir</i> , 2012 , 28, 10948-55	4	7
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162	Importance of Solubilizing Group and Backbone Planarity in Low Band Gap Polymers for High Performance Ambipolar field-effect Transistors. <i>Chemistry of Materials</i> , 2012 , 24, 1316-1323	9.6	158

161	Two-dimensional extended π -conjugated anthracene-based molecules bearing 4-ethynyl-7-(5-hexylthiophen-2-yl)benzo[c][1,2,5]thiadiazole at 2,6- and 9,10-substitution positions. <i>Synthetic Metals</i> , 2012 , 161, 2776-2784	3.6	4
160	Photoresponsive ambipolar transport characteristics of organic thin film transistors using soluble HB-ant-THT and PCBM composites. <i>Synthetic Metals</i> , 2012 , 162, 332-336	3.6	6
159	Organic field-effect transistors based on semiconducting porphyrin single crystals. <i>Synthetic Metals</i> , 2012 , 162, 419-425	3.6	12
158	H-shaped anthracene-based semiconducting molecules bearing a 9,10-bis((4-hexylphenyl)ethynyl)anthracene dimer. <i>Synthetic Metals</i> , 2012 , 162, 1140-1146	3.6	2
157	Organic donor-acceptor molecules based-on 5,5'-(9,10-bis((4-hexylphenyl)ethynyl)anthracene-2,6-diyl)bis(ethyne-2,1-diyl)bis(2-hexylthiophene). <i>Synthetic Metals</i> , 2012 , 162, 1335-1342	3.6	6
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155	Novel Zinc Oxide Inks with Zinc Oxide Nanoparticles for Low-Temperature, Solution-Processed Thin-Film Transistors. <i>Chemistry of Materials</i> , 2012 , 24, 3517-3524	9.6	43
154	Optical, electro-optic and optoelectronic properties of natural and chemically modified DNAs. <i>Polymer Journal</i> , 2012 , 44, 1191-1208	2.7	38
153	Two-dimensional X-shaped organic dyes bearing two anchoring groups to TiO ₂ photoanode for efficient dye-sensitized solar cells. <i>Synthetic Metals</i> , 2012 , 162, 2095-2101	3.6	10
152	Polymer solar cells fabricated with 4,8-bis(2-ethylhexyloxy)benzo[1,2-b:4,5-b']dithiophene and alkyl-substituted thiophene-3-carboxylate-containing conjugated polymers: Effect of alkyl side-chain in thiophene-3-carboxylate monomer on the device performance. <i>Polymer</i> , 2012 , 53, 3835-3841	3.9	8
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150	High-performance amorphous donor-acceptor conjugated polymers containing x-shaped anthracene-based monomer and 2,5-bis(2-octyldodecyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione for organic thin-film transistors. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 2809-2818	2.5	18
149	Unusually high-performing organic field-effect transistors based on π -extended semiconducting porphyrins. <i>Advanced Materials</i> , 2012 , 24, 5363-7	24	56
148	Comparison of magnetic properties of DNA-cetyltrimethyl ammonium complex with those of natural DNA. <i>Science China Chemistry</i> , 2012 , 55, 814-821	7.9	6
147	Synthesis, characterization, and electrical properties of regioregular alkyl-substituted PEDOTt. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3597-601	1.3	0
146	Synthesis of Ladder-Like Polysilsesquioxane with Well-Defined Graft Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 539, 174/[514]-183/[523]	0.5	2
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141	Electro-optic effect of a soluble nonlinear optical polyimide containing two different chromophores with different sizes in the side chain. <i>Macromolecular Research</i> , 2011 , 19, 403-407	1.9	5
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137	Highly photosensitive J-aggregated single-crystalline organic transistors. <i>Advanced Materials</i> , 2011 , 23, 3095-9	24	113
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135	Chemically cross-linked thin poly(vinylidene fluoride-co-trifluoroethylene)films for nonvolatile ferroelectric polymer memory. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 582-9	9.5	40
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133	Side-chain effects on electronic structure and molecular stacking arrangement of PCBM spin-coated films. <i>Chemical Physics Letters</i> , 2011 , 508, 90-94	2.5	11
132	Molecular orientation and optical luminescence properties of soluble star shaped oligothiophene molecules for organic electronic applications. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011 , 184, 355-359	1.7	2
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121	Molecular design of donor-acceptor-type cruciform dyes for efficient dyes-sensitized solar cells. <i>Synthetic Metals</i> , 2010 , 160, 1754-1760	3.6	28
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