

Dong Hoon Choi

List of Publications by Year in descending order

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331
papers

7,814
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66336

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times ranked

8460
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#	ARTICLE	IF	CITATIONS
1	Diketopyrrolopyrrole: brilliant red pigment dye-based fluorescent probes and their applications. <i>Chemical Society Reviews</i> , 2015, 44, 58-77.	38.1	352
2	Recent progress in second-order nonlinear optical polymers and dendrimers. <i>Progress in Polymer Science</i> , 2008, 33, 1013-1058.	24.7	351
3	2,5-Bis(2-octyldodecyl)pyrrolo[3,4- <i>c</i>]pyrrole-1,4-(2- <i>H</i> ,5- <i>H</i>)-dione-Based Donor-Acceptor Alternating Copolymer Bearing 5,5-Di(thiophen-2-yl)-2,2-biselenophene Exhibiting 1.5 cm ² V ⁻¹ s ⁻¹ Hole Mobility in Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2011, 133, 10364-10367.	13.7	337
4	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.	6.7	168
5	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.	5.5	162
6	Theory-Guided Design and Synthesis of Multichromophore Dendrimers: An Analysis of the Electro-optic Effect. <i>Journal of the American Chemical Society</i> , 2007, 129, 7523-7530.	13.7	149
7	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.	5.5	145
8	Non-volatile Ferroelectric Poly(vinylidene fluoride-co-trifluoroethylene) Memory Based on a Single-Crystalline Triisopropylsilylethynyl Pentacene Field-Effect Transistor. <i>Advanced Functional Materials</i> , 2009, 19, 1609-1616.	14.9	139
9	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.	14.9	138
10	Novel Dendritic Chromophores for Electro-optics: Influence of Binding Mode and Attachment Flexibility on Electro-optic Behavior. <i>Chemistry of Materials</i> , 2006, 18, 344-351.	6.7	127
11	Highly Photosensitive Aggregated Single-Crystalline Organic Transistors. <i>Advanced Materials</i> , 2011, 23, 3095-3099.	21.0	119
12	Highly Sensitive, Photocontrolled, Organic Thin-Film Transistors Using Soluble Star-Shaped Conjugated Molecules. <i>Advanced Functional Materials</i> , 2008, 18, 2905-2912.	14.9	97
13	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.	19.5	97
14	Synthesis and characterization of UV-curable ladder-like polysilsesquioxane. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5012-5018.	2.3	86
15	High Aspect Ratio Conjugated Polymer Nanowires for High Performance Field-Effect Transistors and Phototransistors. <i>ACS Nano</i> , 2015, 9, 5264-5274.	14.6	76
16	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.	3.9	73
17	Ultra-Deep-Blue Aggregation-Induced Delayed Fluorescence Emitters: Achieving Nearly 16% EQE in Solution-Processed Nondoped and Doped OLEDs with CIE γ ; 0.1. <i>Advanced Functional Materials</i> , 2021, 31, 2102588.	14.9	69
18	Unusually High-Performing Organic Field-Effect Transistors Based on π -Extended Semiconducting Porphyrins. <i>Advanced Materials</i> , 2012, 24, 5363-5367.	21.0	67

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19	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.	8.0	66
20	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.	7.3	66
21	Soluble Star-Shaped Molecules Based on Thiophene Derivatives as Organic Semiconductors for Field-Effect Transistor Applications. <i>Chemistry of Materials</i> , 2007, 19, 4925-4932.	6.7	65
22	A phenothiazine-based "naked-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.	3.7	64
23	Template-Guided Solution-Shearing Method for Enhanced Charge Carrier Mobility in Diketopyrrolopyrrole-Based Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 6031-6035.	21.0	63
24	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.	5.5	63
25	Deep Learning Optical Spectroscopy Based on Experimental Database: Potential Applications to Molecular Design. <i>Jacs Au</i> , 2021, 1, 427-438.	7.9	61
26	High photo- and electroluminescence efficiencies of ladder-like structured polysilsesquioxane with carbazole groups. <i>Journal of Materials Chemistry</i> , 2010, 20, 9852.	6.7	57
27	High mobility isoindigo-based π -extended conjugated polymers bearing di(thienyl)ethylene in thin-film transistors. <i>Polymer Chemistry</i> , 2013, 4, 5688.	3.9	55
28	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.	11.2	55
29	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.	8.0	53
30	Red Emitting Phenothiazine Dendrimers Encapsulated 2-[2-(4-Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (Dimethylaminophenyl) Materials, 2007, 19, 42-50.	6.7	52
31	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.	6.7	52
32	High-efficiency blue phosphorescent organic light-emitting diodes using a carbazole and carboline-based host material. <i>Chemical Communications</i> , 2013, 49, 6788.	4.1	52
33	Nanoscale 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.	14.6	52
34	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, 3280-3288.	8.0	52
35	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.	8.0	51
36	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.	7.8	49

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37	Donor engineered Deep-Blue emitters for tuning luminescence mechanism in Solution-Processed OLEDs. <i>Chemical Engineering Journal</i> , 2021, 416, 129185.	12.7	49
38	Novel Polymer Nanowire Crystals of Diketopyrrolopyrrole-Based Copolymer with Excellent Charge Transport Properties. <i>Advanced Materials</i> , 2013, 25, 4102-4106.	21.0	48
39	New M- and V-shaped perylene diimide small molecules for high-performance nonfullerene polymer solar cells. <i>Chemical Communications</i> , 2016, 52, 8873-8876.	4.1	48
40	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.	8.0	46
41	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.	10.3	45
42	Optical, electro-optic and optoelectronic properties of natural and chemically modified DNAs. <i>Polymer Journal</i> , 2012, 44, 1191-1208.	2.7	44
43	Chemically Cross-Linked Thin Poly(vinylidene fluoride-co-trifluoroethylene) Films for Nonvolatile Ferroelectric Polymer Memory. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 582-589.	8.0	43
44	Ground-State Interaction and Electrical Doping of Fluorinated C ₆₀ in Conjugated Polymers. <i>Advanced Materials</i> , 2009, 21, 4456-4460.	21.0	41
45	Organic thin film transistors using 6,13-bis(tri-isopropylsilylethynyl)pentacene embedded into polymer binders. <i>Applied Physics Letters</i> , 2009, 94, 013506.	3.3	40
46	High-performance organic thin film transistors based on inkjet-printed polymer/TIPS pentacene blends. <i>Organic Electronics</i> , 2012, 13, 1329-1339.	2.6	40
47	Tunable emission of polymer light emitting diodes bearing green-emitting Ir(III) complexes: The structural role of 9-((6-(4-fluorophenyl)pyridin-3-yl)methyl)-9H-carbazole ligands. <i>Dyes and Pigments</i> , 2010, 85, 143-151.	3.7	39
48	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.	4.8	39
49	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.	5.5	39
50	Improved Temporal Stability of the Second-Order Nonlinear Optical Effect in a Sol-Gel Matrix Bearing an Active Chromophore. <i>Chemistry of Materials</i> , 1998, 10, 705-709.	6.7	38
51	Photochemically bifunctional epoxy compound containing a chalcone moiety. <i>European Polymer Journal</i> , 2001, 37, 1951-1959.	5.4	38
52	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, 19808-19815.	8.0	38
53	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.	8.0	38
54	Stability of second-order nonlinear optical properties in sol-gel matrix bearing silylated chalcone and disperse red 1. <i>Thin Solid Films</i> , 2000, 360, 213-221.	1.8	37

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55	(D) _n –f–(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.	10.3	37
56	Dendronized tricyanopyrroline-based chromophores in nonlinear optical active host polymer. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5064-5076.	2.3	36
57	Semiconducting 2,6,9,10-Tetrakis(phenylethynyl)anthracene Derivatives: Effect of Substitution Positions on Molecular Energies. <i>Organic Letters</i> , 2011, 13, 1948-1951.	4.6	36
58	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, 28303-28310.	8.0	35
59	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.	6.7	35
60	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.	5.5	34
61	Low-threshold blue amplified spontaneous emission in a statistical copolymer and its blend. <i>Applied Physics Letters</i> , 2002, 81, 424-426.	3.3	33
62	High-Performance Single-Crystal-Based Organic Field-Effect Transistors from π -Extended Porphyrin Derivatives. <i>Chemistry - A European Journal</i> , 2011, 17, 7772-7776.	3.3	33
63	A fluorescence turn-on and colorimetric probe based on a diketopyrrolopyrrole-tellurophene conjugate for efficient detection of hydrogen peroxide and glutathione. <i>Dyes and Pigments</i> , 2014, 100, 118-126.	3.7	33
64	Crystallinity-Controlled Naphthalene- <i>alt</i> -diketopyrrolopyrrole Copolymers for High-Performance Ambipolar Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26204-26213.	3.1	32
65	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, 7149-7153.	2.8	32
66	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.	3.9	32
67	Photochromic behavior of spiropyran in the photoreactive polymer containing chalcone moieties. <i>Dyes and Pigments</i> , 2004, 61, 235-242.	3.7	31
68	Deep-red light-emitting phosphorescent dendrimer encapsulated tris[2-benzo[<i>b</i>]thiophen-2-yl]pyridyl iridium (III) core for light-emitting device applications. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7517-7533.	2.3	31
69	A 6,13-bis(Triisopropylsilyl)ethynyl Pentacene Thin-Film Transistor Using a Spun-On Inorganic Gate-Dielectric. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 500-505.	3.0	31
70	Heteroarene-fused π -conjugated main-chain polymers containing 4,7-bis(4-octylthiophen-2-yl)benzo[<i>c</i>][1,2,5]thiadiazole or 2,5-bis(4-octylthiophen-2-yl)thiazolo[5,4- <i>c</i>]thiazole and their application to photovoltaic devices. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5921-5929.	3.6	31
71	Stability control of the electrooptic effect with new maleimide copolymers containing photoreactive tricyanopyrrolidene-based chromophores. <i>Journal of Polymer Science Part A</i> , 2007, 45, 531-542.	2.3	30
72	Molecular design of donor-acceptor-type cruciform dyes for efficient dyes-sensitized solar cells. <i>Synthetic Metals</i> , 2010, 160, 1754-1760.	3.9	29

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73	Chemodosimeter approach: Selective detection of fluoride ion using a diketopyrrolopyrrole derivative. <i>Dyes and Pigments</i> , 2014, 103, 154-160.	3.7	29
74	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.	10.3	29
75	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.	8.0	29
76	Semiconducting 2,3,6,7,10,11-Hexakis[[4-(5-dodecylthiophen-2-yl)phenyl]ethynyl]triphenylene and Its Discotic Liquid Crystalline Properties. <i>Chemistry Letters</i> , 2010, 39, 396-397.	1.3	28
77	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.	5.5	28
78	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.	4.1	28
79	Aggregation-induced emission luminogens for organic light-emitting diodes with a single-component emitting layer. <i>Aggregate</i> , 2023, 4, .	9.9	28
80	Two Regioisomeric π -Conjugated Small Molecules: Synthesis, Photophysical, Packing, and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1701942.	14.9	27
81	Aryl-Annulated [3,2- <i>a</i>] Carbazole-Based Deep-Blue Soluble Emitters for High-Efficiency Solution-Processed Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes with CIE ≥ 0.1 . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61454-61462.	8.0	27
82	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.	5.5	26
83	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.	5.5	26
84	New growth method of rubrene single crystal for organic field-effect transistor. <i>Synthetic Metals</i> , 2007, 157, 481-484.	3.9	25
85	Photoreactive low-bandgap 4H-cyclopenta[2,1-b:3,4- <i>b'</i>]dithiophene and 4,7-di(thiophen-2-yl)benzo[c][1,2,5]thiadiazole-based alternating copolymer for polymer solar cell. <i>Organic Electronics</i> , 2011, 12, 269-278.	2.6	25
86	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.	10.3	25
87	Carbazolevinylene-based polymers and model compounds with oxadiazole and triphenylamine segments: Synthesis, photophysics, and electroluminescence. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5592-5603.	2.3	24
88	p-type doping in organic light emitting diodes based on fluorinated C60. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	24
89	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.	3.9	24
90	Photochromic behavior of new bifunctional copolymer containing spiropyran and chalcone moiety in the side chain. <i>Dyes and Pigments</i> , 2003, 58, 105-112.	3.7	23

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91	Electro-optic property of chromophore-terminated trifunctional dendrimer in a guest–host system. <i>Thin Solid Films</i> , 2006, 515, 2303-2309.	1.8	23
92	Donor–acceptor alternating π -conjugated polymers containing Di(thiophen-2-yl)pyrene and 2,5-bis(2-octyldodecyl)pyrrolo[3,4- <i>c</i>]pyrrole-1,4(<i>2H,5H</i>)-dione for organic thin-film transistors. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1457-1467.	2.3	23
93	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.	2.3	23
94	Photochemical reactions of a dimethacrylate compound containing a chalcone moiety in the main chain. <i>European Polymer Journal</i> , 2002, 38, 1559-1564.	5.4	22
95	Synthesis and characterization of ladder-like structured polysilsesquioxane with carbazole group. <i>Macromolecular Research</i> , 2011, 19, 261-265.	2.4	22
96	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.	10.3	22
97	Synthesis and second-order nonlinear optical properties of polymethacrylates containing organic salt dye chromophore. <i>Chemistry of Materials</i> , 1992, 4, 1253-1256.	6.7	21
98	Photoactive polyamideimides synthesized by the polycondensation of azo-dye diamines and rosin derivative. <i>Journal of Applied Polymer Science</i> , 2001, 79, 687-695.	2.6	21
99	Channel width effect for organic thin film transistors using TIPS-pentacene employed as a dopant of poly-triarylamine. <i>Organic Electronics</i> , 2009, 10, 729-734.	2.6	21
100	New semiconducting multi-branched conjugated molecules based on π -extended triphenylene and its application to organic field-effect transistor. <i>Thin Solid Films</i> , 2009, 518, 501-506.	1.8	21
101	Ultrathin, Organic, Semiconductor/Polymer Blends by Scanning Corona-Discharge Coating for High-Performance Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2010, 20, 2903-2910.	14.9	21
102	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, 13431-13439.	8.0	21
103	Tunable light harvesting properties of a highly crystalline alternating terpolymer for high-performing solar cells. <i>Polymer Chemistry</i> , 2015, 6, 5478-5486.	3.9	21
104	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.	5.5	21
105	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.	5.5	21
106	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.	8.0	21
107	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.	8.0	21
108	Novel V-Shaped Bipolar Host Materials for Solution-Processed Thermally Activated Delayed Fluorescence OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49076-49084.	8.0	21

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109	A tricyanopyrroline-based nonlinear optical chromophore bearing a lateral moiety: A novel steric technique for enhancing the electro-optic effect. <i>Dyes and Pigments</i> , 2008, 79, 193-199.	3.7	20
110	Phosphorescent, green-emitting Ir(III) complexes with carbazolyl-substituted 2-phenylpyridine ligands: Effect of binding mode of the carbazole group on photoluminescence and electrophosphorescence. <i>Dyes and Pigments</i> , 2009, 83, 218-224.	3.7	20
111	9,10-Bis(phenylethynyl)anthracene-based organic semiconducting molecules for annealing-free thin film transistors. <i>Synthetic Metals</i> , 2010, 160, 1022-1029.	3.9	20
112	High-performance amorphous donor-acceptor conjugated polymers containing π -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.		20
113	Luminescence properties of MEH-PPV and its crosslinked polymer: Effect of crosslink on photoluminescence and electroluminescence. <i>Synthetic Metals</i> , 2006, 156, 685-689.	3.9	19
114	High-temperature Ferromagnetism of a Discotic Liquid Crystal Dilutely Intercalated with Iron(III) Phthalocyanine. <i>Advanced Materials</i> , 2010, 22, 4405-4409.	21.0	19
115	Liquid crystalline dialkyl-substituted thienylethenyl [1] benzothieno[3,2-b] benzothiophene derivatives for organic thin film transistors. <i>Organic Electronics</i> , 2010, 11, 1584-1593.	2.6	19
116	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.	5.5	19
117	Synthesis and characterization of a new photoconducting poly(siloxane) having pendant diphenylhydrazone for photorefractive applications. <i>Macromolecular Research</i> , 2003, 11, 431-436.	2.4	18
118	Effect of binding mode on the photoluminescence of CTMA-DNA doped with (E)-2-(2-(4-(diethylamino)styryl)-4H-pyran-4-ylidene)malononitrile. <i>Polymer</i> , 2008, 49, 5417-5423.	3.8	18
119	Organic donor-acceptor molecules based on 1,2,4,5-tetrakis((E)-2-(5-hexyl-2,2-bithiophen-5-yl)vinyl)benzene and perylene diimide derivative and their application to photovoltaic devices. <i>Organic Electronics</i> , 2009, 10, 1429-1441.	2.6	18
120	Enhanced Performance of Organic Photovoltaic Cells Fabricated with a Methyl Thiophene-3-Carboxylate-Containing Alternating Conjugated Copolymer. <i>Macromolecular Rapid Communications</i> , 2012, 33, 146-151.	3.9	18
121	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.	3.7	18
122	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, 2247-2251.	3.3	18
123	New fluorene-based chiral copolymers with unusually high optical activity in pristine and annealed thin films. <i>RSC Advances</i> , 2016, 6, 23879-23886.	3.6	18
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