

Dong Hoon Choi

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322
papers

6,401
citations

38
h-index

64
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333
ext. papers

7,073
ext. citations

5.4
avg, IF

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L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 322 | 2,5-Bis(2-octyldodecyl)pyrrolo[3,4-c]pyrrole-1,4-(2H,5H)-dione-based donor-acceptor alternating copolymer bearing 5,5'-di(thiophen-2-yl)-2,2'-biselenophene exhibiting 1.5 cm ² [V(-1)] ³ (-1) hole mobility in thin-film transistors. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10364-7 | 16.4 | 327 |
| 321 | Recent progress in second-order nonlinear optical polymers and dendrimers. <i>Progress in Polymer Science</i> , 2008 , 33, 1013-1058 | 29.6 | 304 |
| 320 | Diketopyrrolopyrrole: brilliant red pigment dye-based fluorescent probes and their applications. <i>Chemical Society Reviews</i> , 2015 , 44, 58-77 | 58.5 | 289 |
| 319 | 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 |
| 318 | 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 |
| 317 | 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, 7523-30 | 16.4 | 132 |
| 316 | 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 |
| 315 | Non-volatile Ferroelectric Poly(vinylidene fluoride-co-trifluoroethylene) Memory Based on a Single-Crystalline Tri-isopropylsilylethynyl Pentacene Field-Effect Transistor. <i>Advanced Functional Materials</i> , 2009 , 19, 1609-1616 | 15.6 | 128 |
| 314 | 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 | 9.6 | 122 |
| 313 | Highly photosensitive J-aggregated single-crystalline organic transistors. <i>Advanced Materials</i> , 2011 , 23, 3095-9 | 24 | 113 |
| 312 | 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 |
| 311 | Highly Sensitive, Photocontrolled, Organic Thin-Film Transistors Using Soluble Star-shaped Conjugated Molecules. <i>Advanced Functional Materials</i> , 2008 , 18, 2905-2912 | 15.6 | 92 |
| 310 | 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 |
| 309 | Synthesis and characterization of UV-curable ladder-like polysilsesquioxane. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 5012-5018 | 2.5 | 75 |
| 308 | 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 |
| 307 | 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 | 9.6 | 63 |
| 306 | 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 |

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| 305 | Unusually high-performing organic field-effect transistors based on π -extended semiconducting porphyrins. <i>Advanced Materials</i> , 2012 , 24, 5363-7 | 24 | 56 |
| 304 | 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 |
| 303 | 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 |
| 302 | 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 |
| 301 | 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 |
| 300 | High photo- and electroluminescence efficiencies of ladder-like structured polysilsesquioxane with carbazole groups. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9852 | | 50 |
| 299 | Red Emitting Phenothiazine Dendrimers Encapsulated 2-[2-[2-(4-Dimethylaminophenyl)vinyl]-6-methylpyran-4-ylidene]malononitrile Derivatives. <i>Chemistry of Materials</i> , 2007 , 19, 42-50 | 9.6 | 50 |
| 298 | 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 |
| 297 | Dual channel receptor based on diketopyrrolopyrrole alkyne conjugate for detection of Hg ²⁺ /Cu ²⁺ by "baked eye" and fluorescence. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 542-548 | 8.5 | 47 |
| 296 | 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 |
| 295 | 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 |
| 294 | 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 |
| 293 | Novel polymer nanowire crystals of diketopyrrolopyrrole-based copolymer with excellent charge transport properties. <i>Advanced Materials</i> , 2013 , 25, 4102-6 | 24 | 44 |
| 292 | 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 |
| 291 | 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 |
| 290 | 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 |
| 289 | 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 |
| 288 | 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 |

- 287 Optical, electro-optic and optoelectronic properties of natural and chemically modified DNAs. *Polymer Journal*, **2012**, 44, 1191-1208 2.7 38
- 286 Ground-State Interaction and Electrical Doping of Fluorinated C60 in Conjugated Polymers. *Advanced Materials*, **2009**, 21, 4456-4460 2.4 38
- 285 Organic thin film transistors using 6,13-bis(tri-isopropylsilylethynyl)pentacene embedded into polymer binders. *Applied Physics Letters*, **2009**, 94, 013506 3.4 38
- 284 New bipolar host materials for realizing blue phosphorescent organic light-emitting diodes with high efficiency at 1000 cd/m². *ACS Applied Materials & Interfaces*, **2014**, 6, 19808-15 9.5 37
- 283 Dendronized tricyanopyrroline-based chromophores in nonlinear optical active host polymer. *Journal of Polymer Science Part A*, **2008**, 46, 5064-5076 2.5 36
- 282 High-performance organic thin film transistors based on inkjet-printed polymer/TIPS pentacene blends. *Organic Electronics*, **2012**, 13, 1329-1339 3.5 35
- 281 Semiconducting 2,6,9,10-tetrakis(phenylethynyl)anthracene derivatives: effect of substitution positions on molecular energies. *Organic Letters*, **2011**, 13, 1948-51 6.2 35
- 280 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. *Dyes and Pigments*, **2010**, 85, 143-151 4.6 35
- 279 Photochemically bifunctional epoxy compound containing a chalcone moiety. *European Polymer Journal*, **2001**, 37, 1951-1959 5.2 34
- 278 Improved Temporal Stability of the Second-Order Nonlinear Optical Effect in a Sol-Gel Matrix Bearing an Active Chromophore. *Chemistry of Materials*, **1998**, 10, 705-709 9.6 34
- 277 Acene-Containing Donor-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 5.5 33
- 276 Enhanced Performance of Polymer Solar Cells Comprising Diketopyrrolopyrrole-Based Regular Terpolymer Bearing Two Different Extended Donor Units. *ACS Applied Materials & Interfaces*, **2015**, 7, 28303-10 9.5 32
- 275 A fluorescence turn-on and colorimetric probe based on a diketopyrrolopyrrole-bellurophene conjugate for efficient detection of hydrogen peroxide and glutathione. *Dyes and Pigments*, **2014**, 100, 118-126 4.6 32
- 274 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 4.9 31
- 273 Enhanced Efficiency and Long-Term Stability of Perovskite Solar Cells by Synergistic Effect of Nonhygroscopic Doping in Conjugated Polymer-Based Hole-Transporting Layer. *ACS Applied Materials & Interfaces*, **2017**, 9, 43846-43854 9.5 31
- 272 Heteroarene-fused conjugated main-chain polymers containing 4,7-bis(4-octylthiophen-2-yl)benzo[c][1,2,5]thiadiazole or 2,5-bis(4-octylthiophen-2-yl)thiazolo[5,4-d]thiazole and their application to photovoltaic devices. *Journal of Polymer Science Part A*, **2010**, 48, 5921-5929 2.5 31
- 271 Low-threshold blue amplified spontaneous emission in a statistical copolymer and its blend. *Applied Physics Letters*, **2002**, 81, 424-426 3.4 31
- 270 High-performance single-crystal-based organic field-effect transistors from extended porphyrin derivatives. *Chemistry - A European Journal*, **2011**, 17, 7772-6 4.8 30

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| 269 | 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 | 2.5 | 30 |
| 268 | Deep-red light-emitting phosphorescent dendrimer encapsulated tris-[2-benzo[b]thiophen-2-yl-pyridyl] iridium (III) core for light-emitting device applications. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 7517-7533 | 2.5 | 30 |
| 267 | 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 | 2.2 | 30 |
| 266 | 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 |
| 265 | Chemodosimeter approach: Selective detection of fluoride ion using a diketopyrrolopyrrole derivative. <i>Dyes and Pigments</i> , 2014 , 103, 154-160 | 4.6 | 29 |
| 264 | 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 |
| 263 | 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 |
| 262 | (D)π(A)π 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 |
| 261 | 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 |
| 260 | 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 |
| 259 | Crystallinity-Controlled Naphthalene-alt-diketopyrrolopyrrole Copolymers for High-Performance Ambipolar Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26204-26213 | 3.8 | 26 |
| 258 | A 6,13-bis(Triisopropylsilylethynyl) Pentacene Thin-Film Transistor Using a Spun-On Inorganic Gate-Dielectric. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 500-505 | 2.9 | 26 |
| 257 | Photochromic behavior of spiropyran in the photoreactive polymer containing chalcone moieties. <i>Dyes and Pigments</i> , 2004 , 61, 235-242 | 4.6 | 26 |
| 256 | 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 |
| 255 | Diketopyrrolopyrrole-based copolymers bearing highly extended donating units and their thin-film transistors and photovoltaic cells. <i>Polymer Chemistry</i> , 2015 , 6, 150-159 | 4.9 | 24 |
| 254 | 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 |
| 253 | 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 | 1.7 | 24 |
| 252 | 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 | 2.5 | 24 |

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| 251 | 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 |
| 250 | Two Regioisomeric Conjugated Small Molecules: Synthesis, Photophysical, Packing, and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2017 , 27, 1701942 | 15.6 | 23 |
| 249 | p-type doping in organic light emitting diodes based on fluorinated C60. <i>Journal of Applied Physics</i> , 2008 , 104, 124505 | 2.5 | 23 |
| 248 | 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 |
| 247 | Donor-acceptor alternating 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 |
| 246 | Photoreactive low-bandgap 4H-cyclopenta[2,1-b:3,4-b']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 | 3.5 | 22 |
| 245 | New growth method of rubrene single crystal for organic field-effect transistor. <i>Synthetic Metals</i> , 2007 , 157, 481-484 | 3.6 | 22 |
| 244 | Photochemical reactions of a dimethacrylate compound containing a chalcone moiety in the main chain. <i>European Polymer Journal</i> , 2002 , 38, 1559-1564 | 5.2 | 22 |
| 243 | 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 |
| 242 | New semiconducting multi-branched conjugated molecules based on extended triphenylene and its application to organic field-effect transistor. <i>Thin Solid Films</i> , 2009 , 518, 501-506 | 2.2 | 21 |
| 241 | Electro-optic property of chromophore-terminated trifunctional dendrimer in a guest-host system. <i>Thin Solid Films</i> , 2006 , 515, 2303-2309 | 2.2 | 21 |
| 240 | 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 |
| 239 | 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 | 15.6 | 20 |
| 238 | Photochromic behavior of new bifunctional copolymer containing spiropyran and chalcone moiety in the side chain. <i>Dyes and Pigments</i> , 2003 , 58, 105-112 | 4.6 | 20 |
| 237 | Photoactive polyamideimides synthesized by the polycondensation of azo-dye diamines and rosin derivative. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 687-695 | 2.9 | 20 |
| 236 | Synthesis and second-order nonlinear optical properties of polymethacrylates containing organic salt dye chromophore. <i>Chemistry of Materials</i> , 1992 , 4, 1253-1256 | 9.6 | 20 |
| 235 | 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 |
| 234 | 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 |

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| 233 | 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 |
| 232 | 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 |
| 231 | Synthesis and characterization of ladder-like structured polysilsesquioxane with carbazole group. <i>Macromolecular Research</i> , 2011 , 19, 261-265 | 1.9 | 19 |
| 230 | 9,10-Bis(phenylethynyl)anthracene-based organic semiconducting molecules for annealing-free thin film transistors. <i>Synthetic Metals</i> , 2010 , 160, 1022-1029 | 3.6 | 19 |
| 229 | 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 | 4.6 | 19 |
| 228 | High-temperature ferromagnetism of a discotic liquid crystal dilutely intercalated with iron(III) phthalocyanine. <i>Advanced Materials</i> , 2010 , 22, 4405-9 | 24 | 19 |
| 227 | 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 | 4.6 | 19 |
| 226 | Luminescence properties of MEH-PPV and its crosslinked polymer: Effect of crosslink on photoluminescence and electroluminescence. <i>Synthetic Metals</i> , 2006 , 156, 685-689 | 3.6 | 19 |
| 225 | 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 |
| 224 | 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 |
| 223 | 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 | 3.5 | 18 |
| 222 | 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 |
| 221 | 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 |
| 220 | 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 |
| 219 | 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 |
| 218 | Synthesis and characterization of a new photoconducting poly(siloxane) having pendant diphenylhydrazone for photorefractive applications. <i>Macromolecular Research</i> , 2003 , 11, 431-436 | 1.9 | 17 |
| 217 | Low-bandgap biophotonic nanoblend: a platform for systemic disease targeting and functional imaging. <i>Biomaterials</i> , 2015 , 39, 225-33 | 15.6 | 16 |
| 216 | 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 |

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| 215 | 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 |
| 214 | 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 | 3.5 | 16 |
| 213 | 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 | 3.9 | 16 |
| 212 | Star-shaped, nonlinear optical molecular glass bearing 2-(3-cyano-4-{4-[ethyl-(2-hydroxy-ethyl)-amino]-phenyl}-5-oxo-1-{4-[4-(3-oxo-3-phenyl-propenyl)-phenoxy]-butyl}-6,5-dihydro-2H-pyridin-2-ylidene)acrylate. <i>Dyes and Pigments</i> , 2008 , 77, 335-342 | 4.6 | 16 |
| 211 | 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 |
| 210 | 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 |
| 209 | Regular terpolymers with fluorinated bithiophene units for high-performing photovoltaic cells. <i>Polymer Chemistry</i> , 2016 , 7, 5069-5078 | 4.9 | 15 |
| 208 | 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 |
| 207 | New 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 |
| 206 | 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 | 3.5 | 15 |
| 205 | Organic soluble deoxyribonucleic acid (DNA) bearing carbazole moieties and its blend with phosphorescent Ir(III) complexes. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 1913-1918 | 2.5 | 15 |
| 204 | Multifunctional photochromic spiropyran dendrimers and their relaxation behaviors of photochromism. <i>Thin Solid Films</i> , 2006 , 500, 52-60 | 2.2 | 15 |
| 203 | Diffraction gratings of photopolymers composed of polyvinylalcohol or polyvinylacetate binder. <i>Macromolecular Research</i> , 2003 , 11, 36-41 | 1.9 | 15 |
| 202 | Donor engineered Deep-Blue emitters for tuning luminescence mechanism in Solution-Processed OLEDs. <i>Chemical Engineering Journal</i> , 2021 , 416, 129185 | 14.7 | 15 |
| 201 | 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 |
| 200 | Left-form electrochemical anion chemosensor with amide and triazole donor groups. <i>Tetrahedron Letters</i> , 2012 , 53, 4917-4920 | 2 | 14 |
| 199 | Photo-induced negative differential resistance of organic thin film transistors using anthracene derivatives. <i>Organic Electronics</i> , 2013 , 14, 2204-2209 | 3.5 | 14 |
| 198 | An unsymmetrically 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 |

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| 197 | Photoreactive π -conjugated star-shaped molecules for the organic field-effect transistor. <i>Organic Electronics</i> , 2009 , 10, 607-617 | 3.5 | 14 |
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