

Yu-Tai Tao

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174
papers

15,318
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57
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182
ext. papers

15,980
ext. citations

7.4
avg, IF

6.18
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 174 | Formation of monolayer films by the spontaneous assembly of organic thiols from solution onto gold. <i>Journal of the American Chemical Society</i> , 1989 , 111, 321-335 | 16.4 | 3064 |
| 173 | Comparison of the structures and wetting properties of self-assembled monolayers of n-alkanethiols on the coinage metal surfaces, copper, silver, and gold. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7152-7167 | 16.4 | 1747 |
| 172 | Structure and reactivity of alkylsiloxane monolayers formed by reaction of alkyltrichlorosilanes on silicon substrates. <i>Langmuir</i> , 1989 , 5, 1074-1087 | 4 | 1077 |
| 171 | Light-emitting carbazole derivatives: potential electroluminescent materials. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9404-11 | 16.4 | 456 |
| 170 | Structural comparison of self-assembled monolayers of n-alkanoic acids on the surfaces of silver, copper, and aluminum. <i>Journal of the American Chemical Society</i> , 1993 , 115, 4350-4358 | 16.4 | 446 |
| 169 | Highly Efficient Red Electrophosphorescent Devices Based on Iridium Isoquinoline Complexes: Remarkable External Quantum Efficiency Over a Wide Range of Current. <i>Advanced Materials</i> , 2003 , 15, 884-888 | 24 | 333 |
| 168 | Phase Separation of Mixed-Composition Self-Assembled Monolayers into Nanometer Scale Molecular Domains. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 7636-7646 | | 315 |
| 167 | Color Tuning in Benzo[1,2,5]thiadiazole-Based Small Molecules by Amino Conjugation/Deconjugation: Bright Red-Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2004 , 14, 83-90 | 15.6 | 312 |
| 166 | The synthesis, crystal structure and charge-transport properties of hexacene. <i>Nature Chemistry</i> , 2012 , 4, 574-8 | 17.6 | 285 |
| 165 | Structure Evolution of Aromatic-Derivatized Thiol Monolayers on Evaporated Gold. <i>Langmuir</i> , 1997 , 13, 4018-4023 | 4 | 281 |
| 164 | Highly Phosphorescent Bis-Cyclometalated Iridium Complexes Containing Benzoimidazole-Based Ligands. <i>Chemistry of Materials</i> , 2004 , 16, 2480-2488 | 9.6 | 272 |
| 163 | Chromophore-Labeled Quinoxaline Derivatives as Efficient Electroluminescent Materials. <i>Chemistry of Materials</i> , 2005 , 17, 1860-1866 | 9.6 | 237 |
| 162 | Realizing green phosphorescent light-emitting materials from rhenium(i) pyrazolato diimine complexes. <i>Inorganic Chemistry</i> , 2003 , 42, 1248-55 | 5.1 | 179 |
| 161 | Structure of Self-Assembled Monolayers of Aromatic-Derivatized Thiols on Evaporated Gold and Silver Surfaces: Implication on Packing Mechanism. <i>Journal of the American Chemical Society</i> , 1994 , 116, 6792-6805 | 16.4 | 179 |
| 160 | Platinum(II) complexes with pyridyl azolate-based chelates: synthesis, structural characterization, and tuning of photo- and electrophosphorescence. <i>Inorganic Chemistry</i> , 2006 , 45, 137-46 | 5.1 | 167 |
| 159 | Blue-Emitting Anthracenes with End-Capping Diarylamines. <i>Chemistry of Materials</i> , 2002 , 14, 3860-3865 | 9.6 | 165 |
| 158 | Bright white organic light-emitting diode. <i>Applied Physics Letters</i> , 2001 , 79, 4234-4236 | 3.4 | 158 |

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| 157 | In Search of High-Performance Platinum(II) Phosphorescent Materials for the Fabrication of Red Electroluminescent Devices. <i>Advanced Functional Materials</i> , 2005 , 15, 223-229 | 15.6 | 155 |
| 156 | Efficient red-emitting cyclometalated Iridium(III) complexes containing lepidine-based ligands. <i>Inorganic Chemistry</i> , 2005 , 44, 5677-85 | 5.1 | 147 |
| 155 | Yellow and Red Electrophosphors Based on Linkage Isomers of Phenylisoquinolinyliridium Complexes: Distinct Differences in Photophysical and Electroluminescence Properties. <i>Advanced Functional Materials</i> , 2005 , 15, 387-395 | 15.6 | 141 |
| 154 | Highly-bright white organic light-emitting diodes based on a single emission layer. <i>Applied Physics Letters</i> , 2002 , 81, 4499-4501 | 3.4 | 140 |
| 153 | Organic light-emitting diodes based on charge-neutral Os(II) emitters: generation of saturated red emission with very high external quantum efficiency. <i>Journal of Materials Chemistry</i> , 2005 , 15, 460 | | 129 |
| 152 | Molecular orientation of evaporated pentacene films on gold: alignment effect of self-assembled monolayer. <i>Langmuir</i> , 2005 , 21, 2260-6 | 4 | 123 |
| 151 | Doubly ortho-linked quinoxaline/diphenylfluorene hybrids as bipolar, fluorescent chameleons for optoelectronic applications. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10992-3 | 16.4 | 117 |
| 150 | Diaminoanthracene Derivatives as High-Performance Green Host Electroluminescent Materials. <i>Chemistry of Materials</i> , 2002 , 14, 3958-3963 | 9.6 | 117 |
| 149 | High-Tg Carbazole Derivatives as Blue-Emitting Hole-Transporting Materials for Electroluminescent Devices. <i>Advanced Functional Materials</i> , 2003 , 13, 445-452 | 15.6 | 113 |
| 148 | Star-Shaped Thieno-[3,4-b]-Pyrazines: A New Class of Red-Emitting Electroluminescent Materials. <i>Advanced Materials</i> , 2002 , 14, 822 | 24 | 109 |
| 147 | Synthesis and Characterization of Anthra[2,3-b]thiophene and Tetraceno[2,3-b]thiophenes for Organic Field-Effect Transistor Applications. <i>Chemistry of Materials</i> , 2007 , 19, 3018-3026 | 9.6 | 95 |
| 146 | New Star-Shaped Luminescent Triarylamines: Synthesis, Thermal, Photophysical, and Electroluminescent Characteristics. <i>Chemistry of Materials</i> , 2002 , 14, 1354-1361 | 9.6 | 95 |
| 145 | Green and Yellow Electroluminescent Dipolar Carbazole Derivatives: Features and Benefits of Electron-Withdrawing Segments. <i>Chemistry of Materials</i> , 2002 , 14, 3852-3859 | 9.6 | 92 |
| 144 | Hexaphenylphenylene dendronised pyrenylamines for efficient organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4453 | | 91 |
| 143 | Quinoxalines Incorporating Triarylamines: Potential Electroluminescent Materials with Tunable Emission Characteristics. <i>Chemistry of Materials</i> , 2002 , 14, 2796-2802 | 9.6 | 90 |
| 142 | Cyanocarbazole Derivatives for High-Performance Electroluminescent Devices. <i>Advanced Functional Materials</i> , 2004 , 14, 387-392 | 15.6 | 87 |
| 141 | Dipyrazolopyridine derivatives as bright blue electroluminescent materials. <i>Applied Physics Letters</i> , 2000 , 77, 933 | 3.4 | 86 |
| 140 | Effect of biphenyl and naphthyl groups on the structure of self-assembled monolayers: packing, orientation, and wetting properties. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9547-9555 | 16.4 | 85 |

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| 139 | Synthesis, Properties, and Applications of Tetraphenylmethane-Based Molecular Materials for Light-Emitting Devices. <i>Chemistry of Materials</i> , 2001 , 13, 2788-2796 | 9.6 | 83 |
| 138 | Continuous modulation of electrode work function with mixed self-assembled monolayers and its effect in charge injection. <i>Langmuir</i> , 2009 , 25, 6232-8 | 4 | 81 |
| 137 | High T _g blue emitting materials for electroluminescent devices. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2455 | | 81 |
| 136 | Novel Self-Assembled Metallo-Homopolymers and Metallo-alt-copolymer Containing Terpyridyl Zinc(II) Moieties. <i>Macromolecules</i> , 2006 , 39, 8559-8566 | 5.5 | 81 |
| 135 | Organic Light-Emitting Diodes Based on Variously Substituted Pyrazoloquinolines as Emitting Material. <i>Chemistry of Materials</i> , 2001 , 13, 1207-1212 | 9.6 | 81 |
| 134 | Novel Green Light-Emitting Carbazole Derivatives: Potential Electroluminescent Materials. <i>Advanced Materials</i> , 2000 , 12, 1949-1951 | 24 | 78 |
| 133 | Sharp green electroluminescence from 1H-pyrazolo[3,4-b]quinoline-based light-emitting diodes. <i>Applied Physics Letters</i> , 2000 , 77, 1575-1577 | 3.4 | 74 |
| 132 | Electric bistability in pentacene film-based transistor embedding gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12441-50 | 16.4 | 72 |
| 131 | Organic Light-Emitting Diodes Based on 2-(Stilben-4-yl)benzoxazole Derivatives: An Implication on the Emission Mechanism. <i>Chemistry of Materials</i> , 2001 , 13, 2441-2446 | 9.6 | 72 |
| 130 | New Carbazole Oxadiazole Dyads for Electroluminescent Devices: Influence of Acceptor Substituents on Luminescent and Thermal Properties. <i>Chemistry of Materials</i> , 2004 , 16, 5437-5444 | 9.6 | 71 |
| 129 | HCl Vapor-Induced Structural Rearrangements of n-Alkanoate Self-Assembled Monolayers on Ambient Silver, Copper, and Aluminum Surfaces. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6724-6735 | 16.4 | 69 |
| 128 | Diphenylthienylamine-Based Star-Shaped Molecules for Electroluminescence Applications. <i>Chemistry of Materials</i> , 2001 , 13, 2626-2631 | 9.6 | 68 |
| 127 | Contorted Tetrabenzocoronene Derivatives for Single Crystal Field Effect Transistors: Correlation between Packing and Mobility. <i>Chemistry of Materials</i> , 2012 , 24, 2566-2571 | 9.6 | 66 |
| 126 | Self-assembled biomimetic monolayers using phospholipid-containing disulfides. <i>Biomaterials</i> , 2005 , 26, 2313-24 | 15.6 | 64 |
| 125 | Monolayer-Protected Cluster Superlattices: Structural, Spectroscopic, Calorimetric, and Conductivity Studies. <i>Chemistry of Materials</i> , 2000 , 12, 104-113 | 9.6 | 64 |
| 124 | High mobility n-channel single-crystal field-effect transistors based on 5,7,12,14-tetrachloro-6,13-diazapentacene. <i>Chemical Communications</i> , 2011 , 47, 6356-8 | 5.8 | 63 |
| 123 | Starburst Molecules Based on Hexathienylbenzene Units: Potential Hole-Transport Materials. <i>Advanced Materials</i> , 2000 , 12, 668-669 | 24 | 61 |
| 122 | Diazapentacene derivatives as thin-film transistor materials: morphology control in realizing high-field-effect mobility. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2071-9 | 9.5 | 60 |

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| 121 | Electroluminescent bipolar compounds containing quinoxaline or pyridopyrazine and triarylamine segments. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3516-3522 | | 59 |
| 120 | Blue Light-Emitting Diodes Based on Dipyrzologyridine Derivatives. <i>Chemistry of Materials</i> , 2000 , 12, 2788-2793 | 9.6 | 59 |
| 119 | Relationship between Packing Structure and Headgroups of Self-Assembled Monolayers on Au(111): Bridging Experimental Observations through Computer Simulations. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2935-2946 | 3.4 | 59 |
| 118 | Anisotropic field-effect mobility of pentacene thin-film transistor: Effect of rubbed self-assembled monolayer. <i>Applied Physics Letters</i> , 2006 , 89, 172103 | 3.4 | 57 |
| 117 | Molecular Gradients of π -Substituted Alkanethiols on Gold Studied by X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 1997 , 13, 5329-5334 | 4 | 56 |
| 116 | White organic light-emitting diodes based on 2,7-bis(2,2-diphenylvinyl)-9,9'-spirobifluorene: Improvement in operational lifetime. <i>Applied Physics Letters</i> , 2004 , 85, 4609-4611 | 3.4 | 56 |
| 115 | Spirobifluorene-based pyrazoloquinolines: efficient blue electroluminescent materials. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1585 | | 55 |
| 114 | Light-Emitting Diodes Based on a Carbazole-Derivatized Dopant: Origin of Dopant Excitation as a Function of the Device Structure. <i>Chemistry of Materials</i> , 2002 , 14, 357-361 | 9.6 | 55 |
| 113 | Bisindolylmaleimides as Red Electroluminescence Materials. <i>Chemistry of Materials</i> , 2003 , 15, 4527-4532 | 9.6 | 52 |
| 112 | Amorphous 2,3-Substituted Thiophenes: Potential Electroluminescent Materials. <i>Chemistry of Materials</i> , 2002 , 14, 1884-1890 | 9.6 | 49 |
| 111 | 9,9-Bis{4-[di-(p-biphenyl)aminophenyl]}fluorene: a high T _g and efficient hole-transporting material for electroluminescent devices. <i>Synthetic Metals</i> , 2002 , 126, 37-41 | 3.6 | 48 |
| 110 | Benzo[a]aceanthrylene Derivatives for Red-Emitting Electroluminescent Materials. <i>Chemistry of Materials</i> , 2003 , 15, 4854-4862 | 9.6 | 44 |
| 109 | Efficient Blue Light-Emitting Diodes Based on Triarylamine-Substituted Dipyrzologyridine Derivatives. <i>Chemistry of Materials</i> , 2002 , 14, 4256-4261 | 9.6 | 44 |
| 108 | Room-temperature-operated organic-based acetone gas sensor for breath analysis. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 593-600 | 8.5 | 43 |
| 107 | Doubly ortho-linked quinoxaline/triarylamine hybrid as a bifunctional, dipolar electroluminescent template for optoelectronic applications. <i>Chemical Communications</i> , 2005 , 3980-2 | 5.8 | 42 |
| 106 | Infrared Spectroscopic Study of Chemically Induced Dewetting in Liquid Crystalline Types of Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9732-9740 | 3.4 | 41 |
| 105 | Study of anode work function modified by self-assembled monolayers on pentacene/fullerene organic solar cells. <i>Applied Physics Letters</i> , 2007 , 91, 233510 | 3.4 | 41 |
| 104 | Dynamic character of charge transport parameters in disordered organic semiconductor field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14142-51 | 3.6 | 40 |

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| 103 | Effect of ITO surface modification on the OLED device lifetime. <i>Langmuir</i> , 2014 , 30, 7369-76 | 4 | 38 |
| 102 | Electric bistability induced by incorporating self-assembled monolayers/aggregated clusters of azobenzene derivatives in pentacene-based thin-film transistors. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5483-91 | 9.5 | 38 |
| 101 | Synthesis and Characterization of Light-Emitting H-Bonded Complexes and Polymers Containing Bis(pyridyl) Emitting Acceptors. <i>Macromolecules</i> , 2006 , 39, 557-568 | 5.5 | 37 |
| 100 | Asymmetric fused thiophenes for field-effect transistors: crystal structure film microstructure transistor performance correlations. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8892-8902 | 7.1 | 36 |
| 99 | Organic transistor memory with a charge storage molecular double-floating-gate monolayer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9767-75 | 9.5 | 35 |
| 98 | Synthesis of Crystalline, Nanometer-Scale, (CH ₂) _x Clusters and Films on Gold Surfaces. <i>Journal of the American Chemical Society</i> , 1997 , 119, 4698-4711 | 16.4 | 35 |
| 97 | Oriented growth of rubrene thin films on aligned pentacene buffer layer and its anisotropic thin-film transistor characteristics. <i>Organic Electronics</i> , 2008 , 9, 385-395 | 3.5 | 35 |
| 96 | Energy harvesting star-shaped molecules for electroluminescence applications. <i>Chemical Communications</i> , 2004 , 2328-9 | 5.8 | 35 |
| 95 | Pyrazoloquinoline derivatives as efficient blue electroluminescent materials. <i>Journal of Materials Chemistry</i> , 2001 , 11, 768-772 | | 35 |
| 94 | Luminescent silver metal chains with unusual μ_4 -bonded 2,2'-bipyrazine. <i>Dalton Transactions</i> , 2005 , 656-8 | 4.3 | 34 |
| 93 | Mechanistic Investigation of Improved Syntheses of Iridium(III)-Based OLED Phosphors. <i>Organometallics</i> , 2012 , 31, 4349-4355 | 3.8 | 33 |
| 92 | Convenient syntheses of precursors of silylated 1,3-dienes. <i>Journal of Organic Chemistry</i> , 1987 , 52, 244-246 | 4.6 | 33 |
| 91 | Azobenzene-functionalized gold nanoparticles as hybrid double-floating-gate in pentacene thin-film transistors/memories with enhanced response, retention, and memory windows. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9528-36 | 9.5 | 31 |
| 90 | Concomitant tuning of metal work function and wetting property with mixed self-assembled monolayers. <i>Organic Electronics</i> , 2011 , 12, 148-153 | 3.5 | 31 |
| 89 | Approaching charge balance in organic light-emitting diodes by tuning charge injection barriers with mixed monolayers. <i>Langmuir</i> , 2012 , 28, 424-30 | 4 | 30 |
| 88 | New Helicene-Type Hole-Transporting Molecules for High-Performance and Durable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41439-41449 | 9.5 | 28 |
| 87 | Energy transfer vs. carrier trapping: emission mechanism in dye-doped organic light emitting diodes. <i>Thin Solid Films</i> , 2002 , 417, 61-66 | 2.2 | 26 |
| 86 | High output current in vertical polymer space-charge-limited transistor induced by self-assembled monolayer. <i>Applied Physics Letters</i> , 2012 , 101, 093307 | 3.4 | 25 |

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| 85 | Bis(2,2-diphenylvinyl)spirobifluorene: An efficient and stable blue emitter for electroluminescence applications. <i>Synthetic Metals</i> , 2005 , 151, 285-292 | 3.6 | 25 |
| 84 | Molecular modification on dye-sensitized solar cells by phosphonate self-assembled monolayers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2915-2921 | | 24 |
| 83 | Fluorene-based oxadiazoles: thermally stable electron-transporting materials for light-emitting devices. <i>Synthetic Metals</i> , 2005 , 148, 133-139 | 3.6 | 24 |
| 82 | Organic field-effect transistor/memory devices with pentacene/polydiacetylene composite film as active channel material: a morphology dependence study. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3231-40 | 9.5 | 23 |
| 81 | Efficient electroluminescent material for light-emitting diodes from 1,4-distyrylbenzene derivatives. <i>Journal of Materials Chemistry</i> , 2002 , 12, 47-52 | | 22 |
| 80 | Highly Oriented Growth of p-Sexiphenyl Molecular Nanocrystals on Rubbed Polymethylene Surface. <i>Macromolecules</i> , 2005 , 38, 9617-9624 | 5.5 | 21 |
| 79 | Microfabrication of Interdigitated Polyaniline/Polymethylene Patterns on a Gold Surface. <i>Langmuir</i> , 1998 , 14, 6158-6166 | 4 | 21 |
| 78 | Regioselective alkylation of 3-trimethylsilyl-3-sulfolene: route to stereospecific 2-silylated butadiene derivatives. <i>Journal of Organic Chemistry</i> , 1988 , 53, 69-72 | 4.2 | 21 |
| 77 | Donor-Acceptor Donor Type Cyclopenta[2,1-b;3,4-b']dithiophene Derivatives as a New Class of Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7070-7082 | 6.1 | 20 |
| 76 | Tuning electric bistability in pentacene film-based transistor embedding aluminum nanoparticles. <i>Organic Electronics</i> , 2012 , 13, 1436-1442 | 3.5 | 20 |
| 75 | Synthesis of Polyarylated Carbazoles: Discovery toward Soluble Phenanthro- and Tetraceno-Fused Carbazole Derivatives. <i>Journal of Organic Chemistry</i> , 2015 , 80, 5066-76 | 4.2 | 19 |
| 74 | High performance single-crystal field-effect transistors based on twisted polyaromatic semiconductor pyreno[4,5-a]coronene. <i>Chemical Communications</i> , 2011 , 47, 2008-10 | 5.8 | 19 |
| 73 | Substituent effect on the crystal packing and electronic coupling of tetrabenzocoronenes: a structure-property correlation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3928 | 7.1 | 18 |
| 72 | High-performance space-charge-limited transistors with well-ordered nanoporous aluminum base electrode. <i>Applied Physics Letters</i> , 2011 , 99, 093306 | 3.4 | 18 |
| 71 | Regioselective alkylation of 3-substituted 3-sulfolenes. <i>Journal of Organic Chemistry</i> , 1986 , 51, 4718-4724 | 4.2 | 18 |
| 70 | Unsymmetrically Extended Polyfused Aromatics Embedding Coronene and Perylene Frameworks: Syntheses and Properties. <i>Organic Letters</i> , 2016 , 18, 200-3 | 6.2 | 17 |
| 69 | Effect of interfacial structure on the transistor properties: probing the role of surface modification of gate dielectrics with self-assembled monolayer using organic single-crystal field-effect transistors. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2136-41 | 9.5 | 17 |
| 68 | Tuning hole injection and charge recombination with self-assembled monolayer on silver anode in top-emitting organic light-emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 241104 | 3.4 | 17 |

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| 67 | Photodegradation of organic dyes and industrial wastewater in the presence of layer-type perovskite materials under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4504-4513 | 6.8 | 17 |
| 66 | Contorted Naphtho- and Fluorenocoronenes: Syntheses and Properties of Polycyclic Aromatics beyond Benzo- and Thiophenocoronenes. <i>Organic Letters</i> , 2018 , 20, 2320-2323 | 6.2 | 16 |
| 65 | Highly efficient top-emitting organic light-emitting diodes with self-assembled monolayer-modified Ag as anodes. <i>Applied Physics Letters</i> , 2006 , 89, 203106 | 3.4 | 16 |
| 64 | Infrared and Atomic Force Microscopy Imaging Study of the Reorganization of Self-Assembled Monolayers of Carboxylic Acids on Silver Surface. <i>Langmuir</i> , 2002 , 18, 8400-8406 | 4 | 16 |
| 63 | Molecularly Aligned Hexa- peri-hexabenzocoronene Films by Brush-Coating and Their Application in Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10801-10809 | 9.5 | 15 |
| 62 | Compact TiO films with sandwiched Ag nanoparticles as electron-collecting layer in planar type perovskite solar cells: improvement in efficiency and stability.. <i>RSC Advances</i> , 2018 , 8, 7847-7854 | 3.7 | 15 |
| 61 | Orientation-dependent conductance study of pentacene nanocrystals by conductive atomic force microscopy. <i>Applied Physics Letters</i> , 2008 , 93, 053304 | 3.4 | 15 |
| 60 | Synthesis of planar dibenzo[de,op]bistetracene derivatives for organic field-effect transistor applications: substituent effect on crystal packing and charge transport property. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7583-7588 | 7.1 | 14 |
| 59 | Contorted tetrabenzoacenes of varied conjugation: charge transport study with single-crystal field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7935-7943 | 7.1 | 14 |
| 58 | Isolation, identification, and synthesis of sex pheromone components of female tea cluster caterpillar, <i>Andraca bipunctata</i> walker (Lepidoptera: Bombycidae) in Taiwan. <i>Journal of Chemical Ecology</i> , 1996 , 22, 271-85 | 2.7 | 14 |
| 57 | Surface modification of TiO ₂ layer with phosphonic acid monolayer in perovskite solar cells: Effect of chain length and terminal functional group. <i>Organic Electronics</i> , 2020 , 78, 105583 | 3.5 | 14 |
| 56 | Synthesis and characterization of the conjugated polymers tethered with dipolar side chains containing a benzothiadiazole entity for bulk heterojunction solar cells. <i>Organic Electronics</i> , 2013 , 14, 2290-2298 | 3.5 | 13 |
| 55 | Synthesis and Characterization of Contorted Pentabenzofused Coronenes as Semiconducting Materials. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8067-8071 | 4.2 | 13 |
| 54 | Odd-even modulation of electrode work function with self-assembled layer: Interplay of energy barrier and tunneling distance on charge injection in organic light-emitting diodes. <i>Organic Electronics</i> , 2011 , 12, 602-608 | 3.5 | 13 |
| 53 | H ₂ S-induced reorganization of mixed monolayer of carboxylic derivatives on silver surface. <i>Langmuir</i> , 2004 , 20, 3641-7 | 4 | 13 |
| 52 | Photo and electroluminescence of 2-anilino-5-phenylpenta-2,4-dienitrile derivatives. <i>Journal of Materials Chemistry</i> , 2002 , 12, 42-46 | | 13 |
| 51 | Oriented growth of crystalline pentacene films with preferred a-b in-plane alignment on a rubbed crystalline polymethylene surface. <i>Langmuir</i> , 2007 , 23, 12901-9 | 4 | 12 |
| 50 | Tuning of metal work function with organic carboxylates and its application in top-emitting electroluminescent devices. <i>Langmuir</i> , 2007 , 23, 7090-5 | 4 | 11 |

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| 49 | Self-Assembled Monolayers of Thioalkanoate on Ag and Au Surfaces: Hydrolysis and Rearrangement at the Interface. <i>Langmuir</i> , 1998 , 14, 145-150 | 4 | 11 |
| 48 | Control of molecular chain tilt in self-assembled monolayers and its effect on wetting properties. <i>Thin Solid Films</i> , 1994 , 244, 810-814 | 2.2 | 11 |
| 47 | New photocatalyst for allylic aliphatic C-H bond activation and degradation of organic pollutants: Schiff base Ti(IV) complexes. <i>RSC Advances</i> , 2015 , 5, 58504-58513 | 3.7 | 10 |
| 46 | Molecular orientation and bonding of terthiophene-thiol self-assembled on Au(1 1 1): A combined NEXAFS and XPS study. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005 , 144-147, 433-436 | 1.7 | 10 |
| 45 | Polysubstituted Hexa-cata-hexabenzocoronenes: Syntheses, Characterization, and Their Potential as Semiconducting Materials in Transistor Applications. <i>Journal of Organic Chemistry</i> , 2019 , 84, 8562-8570 | 4.2 | 9 |
| 44 | High-performance perovskite solar cells based on dopant-free hole-transporting material fabricated by a thermal-assisted blade-coating method with efficiency exceeding 21%. <i>Chemical Engineering Journal</i> , 2022 , 427, 131609 | 14.7 | 9 |
| 43 | Nonlinear Polyfused Aromatics with Extended π -Conjugation from Phenanthrotriphenylene, Tetracene, and Pentacene: Syntheses, Crystal Packings, and Properties. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11614-11622 | 4.2 | 8 |
| 42 | Self-assembled Azobenzenethiol Monolayer on Electrode Surfaces: Effect of Photo-switching on the Surface and Electrical Property. <i>Journal of the Chinese Chemical Society</i> , 2012 , 59, 9-17 | 1.5 | 8 |
| 41 | Synthesis and characterization of light-emitting oligo(p-phenylene-vinylene)s and polymeric derivatives containing three- and five-conjugated phenylene rings. II. Electro-optical properties and optimization of PLED performance. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2922-2936 | 2.5 | 8 |
| 40 | Perkin communications. Cobalt-catalysed photochemical methoxycarbonylation of olefins under ambient conditions. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1989 , 2509 | | 8 |
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