

# Chain-Shu Hsu

## List of Publications by Citations

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304  
papers

14,522  
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50  
h-index

112  
g-index

316  
ext. papers

15,321  
ext. citations

6.6  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
304	Synthesis of conjugated polymers for organic solar cell applications. <i>Chemical Reviews</i> , <b>2009</b> , 109, 5868-9231	22.1	3432
303	Surface plasmonic effects of metallic nanoparticles on the performance of polymer bulk heterojunction solar cells. <i>ACS Nano</i> , <b>2011</b> , 5, 959-67	16.7	837
302	Vertical Phase Separation in Poly(3-hexylthiophene): Fullerene Derivative Blends and its Advantage for Inverted Structure Solar Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1227-1234	15.6	628
301	Donor-acceptor conjugated polymers based on multifused ladder-type arenes for organic solar cells. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 1113-54	58.5	479
300	Highly efficient and stable inverted polymer solar cells integrated with a cross-linked fullerene material as an interlayer. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 4887-93	16.4	403
299	Combination of indene-C60 bis-adduct and cross-linked fullerene interlayer leading to highly efficient inverted polymer solar cells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17381-3	16.4	294
298	Synthesis and Characterization of Bridged Bithiophene-Based Conjugated Polymers for Photovoltaic Applications: Acceptor Strength and Ternary Blends. <i>Macromolecules</i> , <b>2010</b> , 43, 697-708	5.5	178
297	Conjugated polymer nanostructures for organic solar cell applications. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 2707-4.9	4.9	176
296	Applications of functional fullerene materials in polymer solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1866	35.4	159
295	Relaxation dynamics and structural characterization of organic nanoparticles with enhanced emission. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 13472-82	3.4	159
294	Enhanced performance and stability of a polymer solar cell by incorporation of vertically aligned, cross-linked fullerene nanorods. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9386-90	16.4	156
293	Biocompatible D-A Semiconducting Polymer Nanoparticle with Light-Harvesting Unit for Highly Effective Photoacoustic Imaging Guided Photothermal Therapy. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605094	15.6	152
292	Combination of molecular, morphological, and interfacial engineering to achieve highly efficient and stable plastic solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 549-53	24	151
291	Morphological Stabilization by In Situ Polymerization of Fullerene Derivatives Leading to Efficient, Thermally Stable Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1723-1732	15.6	146
290	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6186-6195	9.6	125
289	Influences of the non-covalent interaction strength on reaching high solid-state order and device performance of a low bandgap polymer with axisymmetrical structural units. <i>Advanced Materials</i> , <b>2013</b> , 25, 2445-51	24	122
288	Fluorescent conjugated polymer films as TNT chemosensors. <i>Synthetic Metals</i> , <b>2004</b> , 144, 297-301	3.6	120

287	Donor-acceptor polymers based on multi-fused heptacyclic structures: synthesis, characterization and photovoltaic applications. <i>Chemical Communications</i> , <b>2010</b> , 46, 3259-61	5.8	112
286	Carbazole-Based Ladder-Type Heptacyclic Arene with Aliphatic Side Chains Leading to Enhanced Efficiency of Organic Photovoltaics. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2361-2369	9.6	107
285	Polymer solar cell by blade coating. <i>Organic Electronics</i> , <b>2009</b> , 10, 741-746	3.5	107
284	Graphdiyne-modified cross-linkable fullerene as an efficient electron-transporting layer in organometal halide perovskite solar cells. <i>Nano Energy</i> , <b>2018</b> , 43, 47-54	17.1	106
283	Super High Birefringence Isothiocyanato Biphenyl-Bistolane Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 7634-7638	1.4	105
282	Porphyrin-incorporated 2D D-A polymers with over 8.5% polymer solar cell efficiency. <i>Advanced Materials</i> , <b>2014</b> , 26, 5205-10	24	104
281	A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5084-5090	15.6	98
280	Synthesis of a New Ladder-Type Benzodi(cyclopentadithiophene) Arene with Forced Planarization Leading to an Enhanced Efficiency of Organic Photovoltaics. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3964-3971	9.6	94
279	Gold nanoparticle-decorated graphene oxides for plasmonic-enhanced polymer photovoltaic devices. <i>Nanoscale</i> , <b>2014</b> , 6, 1573-9	7.7	90
278	Dithienocarbazole-Based Ladder-Type Heptacyclic Arenes with Silicon, Carbon, and Nitrogen Bridges: Synthesis, Molecular Properties, Field-Effect Transistors, and Photovoltaic Applications. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1711-1722	15.6	90
277	Di(4-methylphenyl)methano-C60 Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4056-4062	9.6	89
276	Perovskite Grains Embraced in a Soft Fullerene Network Make Highly Efficient Flexible Solar Cells with Superior Mechanical Stability. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901519	24	88
275	High birefringence and wide nematic range bis-tolane liquid crystals. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 344-346	3.4	87
274	The application of side-chain liquid-crystalline polymers. <i>Progress in Polymer Science</i> , <b>1997</b> , 22, 829-871	29.6	83
273	Emission enhancement by formation of aggregates in hybrid chromophoric surfactant amphiphile/silica nanocomposites. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1404-8	16.4	74
272	Liquid crystalline conjugated polymers and their applications in organic electronics. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 2713-2733	2.5	70
271	Room-temperature diphenyl-diacetylene liquid crystals. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 630-632	3.4	68
270	New Angular-Shaped and Isomerically Pure Anthradithiophene with Lateral Aliphatic Side Chains for Conjugated Polymers: Synthesis, Characterization, and Implications for Solution-Processed Organic Field-Effect Transistors and Photovoltaics. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2391-2399	9.6	67

269	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301645	21.8	65
268	High efficiency ternary organic solar cell with morphology-compatible polymers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11739-11745	13	64
267	Efficient white light emission in conjugated polymer homojunctions. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4576-4578	3.4	64
266	Enhanced crystallization and stability of perovskites by a cross-linkable fullerene for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15088-15094	13	62
265	Nano approach investigation of the conduction mechanism in polyaniline nanofibers. <i>ACS Nano</i> , <b>2011</b> , 5, 1541-8	16.7	62
264	General method to solution-process multilayer polymer light-emitting diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 163501	3.4	62
263	Color-tunable multilayer light-emitting diodes based on conjugated polymers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1195-1197	3.4	62
262	Synthesis and Thermal and Photoluminescence Properties of Liquid Crystalline Polyacetylenes Containing 4-Alkanyloxyphenyl trans-4-Alkylcyclohexanoate Side Groups. <i>Macromolecules</i> , <b>2002</b> , 35, 1180-1189	5.5	62
261	Synthesis, Molecular and Photovoltaic Properties of Donor-Acceptor Conjugated Polymers Incorporating a New Heptacyclic Indacenodithieno[3,2-b]thiophene Arene. <i>Macromolecules</i> , <b>2012</b> , 45, 9282-9291	5.5	60
260	Directional Solution Coating by the Chinese Brush: A Facile Approach to Improving Molecular Alignment for High-Performance Polymer TFTs. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606987	24	58
259	Ladder-Type Nonacyclic Structure Consisting of Alternate Thiophene and Benzene Units for Efficient Conventional and Inverted Organic Photovoltaics. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5068-5075	9.6	56
258	Donor-Acceptor Random Copolymers Based on a Ladder-Type Nonacyclic Unit: Synthesis, Characterization, and Photovoltaic Applications. <i>Macromolecules</i> , <b>2011</b> , 44, 8415-8424	5.5	55
257	A New Pentacyclic Indacenodiselenophene Arene and Its Donor-Acceptor Copolymers for Solution-Processable Polymer Solar Cells and Transistors: Synthesis, Characterization, and Investigation of Alkyl/Alkoxy Side-Chain Effect. <i>Macromolecules</i> , <b>2013</b> , 46, 7715-7726	5.5	53
256	Fractal aggregates of conjugated polymer in solution state. <i>Langmuir</i> , <b>2006</b> , 22, 11009-15	4	52
255	Synthesis, Photophysical and Photovoltaic Properties of Conjugated Polymers Containing Fused Donor-Acceptor Dithienopyrrolobenzothiadiazole and Dithienopyrroloquinoxaline Arenes. <i>Macromolecules</i> , <b>2012</b> , 45, 2690-2698	5.5	51
254	New Thieno[3,2-b]thiophene-Based Acceptor: Tuning Acceptor Strength of Ladder-Type N-Type Materials to Simultaneously Achieve Enhanced Voc and Jsc of Nonfullerene Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1722-1729	20.1	50
253	Incorporation of Fluorine onto Different Positions of Phenyl Substituted Benzo[1,2-b:4,5-b']dithiophene Unit: Influence on Photovoltaic Properties. <i>Macromolecules</i> , <b>2015</b> , 48, 4347-4356	5.5	48
252	A chlorinated nonacyclic carbazole-based acceptor affords over 15% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1131-1137	13	48

251	Diindeno[2,3-b]thiophene arene for efficient organic photovoltaics with an extra high open-circuit voltage of 1.14 eV. <i>Chemical Communications</i> , <b>2012</b> , 48, 3203-5	5.8	47
250	Morphological Stabilization by Supramolecular Perfluorophenyl-C60 Interactions Leading to Efficient and Thermally Stable Organic Photovoltaics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1418-1429	15.6	46
249	Angular-Shaped 4,9-Dialkyl and $\beta$ -Naphthodithiophene-Based Donor-Acceptor Copolymers: Investigation of Isomeric Structural Effects on Molecular Properties and Performance of Field-Effect Transistors and Photovoltaics. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6131-6143	15.6	46
248	Thieno[3,2-b]pyrrolo donor fused with benzothiadiazolo, benzoselenadiazolo and quinoxalino acceptors: synthesis, characterization, and molecular properties. <i>Organic Letters</i> , <b>2011</b> , 13, 5484-7	6.2	46
247	A High-Mobility Low-Bandgap Copolymer for Efficient Solar Cells. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 2555-2561	2.6	46
246	Synthesis of terpyridine ligands and their complexation with Zn <sup>2+</sup> and Ru <sup>2+</sup> for optoelectronic applications. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7702-7712	2.5	46
245	Plasmonic-enhanced performance for polymer solar cells prepared with inverted structures. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 193902	3.4	45
244	Synthesis of ethanol-soluble few-layer graphene nanosheets for flexible and transparent conducting composite films. <i>Nanotechnology</i> , <b>2011</b> , 22, 295606	3.4	45
243	Synthesis and characterization of ferroelectric liquid-crystalline polysiloxanes and polymethacrylates containing [(S)-2-methyl-1-butoxy]phenyl 4-(alkyloxy)biphenyl-4'-carboxylate side groups. <i>Macromolecules</i> , <b>1992</b> , 25, 7126-7134	5.5	45
242	UV Stability of High Birefringence Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , <b>2004</b> , 411, 243-253	3.3	44
241	A Facile PDMS-Assisted Crystallization for the Crystal-Engineering of C60 Single-Crystal Organic Field-Effect Transistors. <i>Advanced Materials</i> , <b>2015</b> , 27, 4371-6	24	43
240	Scattering study of the conformational structure and aggregation behavior of a conjugated polymer solution. <i>Langmuir</i> , <b>2009</b> , 25, 4668-77	4	43
239	Synthesis of a 4,9-Didodecyl Angular-Shaped Naphthodiselenophene Building Block To Achieve High-Mobility Transistors. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5121-5130	9.6	42
238	Formation of nanostructures of hexaphenylsilole with enhanced color-tunable emissions. <i>Chemical Physics Letters</i> , <b>2006</b> , 419, 444-449	2.5	42
237	Solution-processed nanocomposites containing molybdenum oxide and gold nanoparticles as anode buffer layers in plasmonic-enhanced organic photovoltaic devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 12419-24	9.5	41
236	Self-Assembled Poly(ethylene glycol) Buffer Layers in Polymer Solar Cells: Toward Superior Stability and Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1354-1360	3.8	40
235	A Supramolecular Double-Cable Structure with a 12944 Helix in a Columnar Porphyrin-C60 Dyad and its Application in Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1375-1382	21.8	40
234	Relaxation Dynamics and Structural Characterization of Organic Nanobelts with Aggregation-Induced Emission. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 15146-15154	3.8	39

233	Exciplex Electroluminescence Induced by Cross-Linked Hole-Transporting Materials for White Light Polymer Light-Emitting Diodes. <i>Macromolecules</i> , <b>2011</b> , 44, 5968-5976	5.5	39
232	Synthesis of fluorene-based hyperbranched polymers for solution-processable blue, green, red, and white light-emitting devices. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 696-710	2.5	38
231	Induced Twisting in the Self-Assembly of Chiral Schiff-based Rod-Coil Amphiphiles. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 352-359	9.6	38
230	Haptacyclic Carbazole-Based Ladder-Type Nonfullerene Acceptor with Side-Chain Optimization for Efficient Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42035-42042	9.5	37
229	High birefringence lateral difluoro phenyl tolane liquid crystals. <i>Liquid Crystals</i> , <b>2010</b> , 37, 139-147	2.3	37
228	Increasing organic vertical carrier mobility for the application of high speed bilayered organic photodetector. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 213308	3.4	37
227	Investigations of organic light emitting diodes with CdSe(ZnS) quantum dots. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 147, 307-311	3.1	37
226	Highly Efficient Inverted D:A:A Ternary Blend Organic Photovoltaics Combining a Ladder-type Non-Fullerene Acceptor and a Fullerene Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24797-24803 <sup>6</sup>	9.5	36
225	High-efficiency blue multilayer polymer light-emitting diode fabricated by a general liquid buffer method. <i>Synthetic Metals</i> , <b>2008</b> , 158, 130-134	3.6	36
224	Optical and electrical investigations of poly(p-phenylene vinylene)/silicon oxide and poly(p-phenylene vinylene)/titanium oxide nanocomposites. <i>Thin Solid Films</i> , <b>2005</b> , 471, 230-235	2.2	36
223	Optical and electrical properties of PPV/SiO <sub>2</sub> and PPV/TiO <sub>2</sub> composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2005</b> , 36, 509-513	8.4	35
222	A crosslinked fullerene matrix doped with an ionic fullerene as a cathodic buffer layer toward high-performance and thermally stable polymer and organic metalhalide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20382-20388	13	34
221	Role of the Comonomeric Units in Reaching Linear Backbone, High Solid-State Order and Charge Mobilities in Heptacyclic Arene-Based Alternating Copolymers. <i>Macromolecules</i> , <b>2013</b> , 46, 7687-7695	5.5	34
220	Hierarchical superstructures with control of helicity from the self-assembly of chiral bent-core molecules. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 9091-8	4.8	33
219	Solution-Processed (Graphene Oxide)/TiO <sub>2</sub> Transition Metal Oxide) Composite Anodic Buffer Layers toward High-Performance and Durable Inverted Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1279-1285	21.8	33
218	Synthesis and mesomorphic properties of super high birefringence isothiocyanato bistolane liquid crystals. <i>Liquid Crystals</i> , <b>2007</b> , 34, 507-517	2.3	33
217	Synthesis and light emitting properties of sulfide-containing polyfluorenes and their nanocomposites with CdSe nanocrystals: A simple process to suppress keto-defect. <i>Polymer</i> , <b>2007</b> , 48, 116-128	3.9	33
216	Novel dendritic light-emitting materials containing polyhedral oligomeric silsesquioxanes core. <i>Thin Solid Films</i> , <b>2006</b> , 514, 103-109	2.2	33

215	Preparation of liquid-crystal thermosets: In situ photopolymerization of oriented liquid-crystal diacrylates. <i>Journal of Polymer Science Part A</i> , <b>1999</b> , 37, 3929-3935	2.5	33
214	Synthesis of liquid-crystalline polysiloxanes and polymethacrylates with broad temperature ranges of the chiral smectic C phase. <i>Macromolecules</i> , <b>1993</b> , 26, 3161-3167	5.5	33
213	Synthesis of laterally substituted bistolane liquid crystals. <i>Liquid Crystals</i> , <b>2000</b> , 27, 283-287	2.3	32
212	Alternating copolymers incorporating cyclopenta[2,1-b:3,4-b']dithiophene unit and organic dyes for photovoltaic applications. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 1791-1801	2.5	31
211	Angular-Shaped 4,9-Dialkyl-naphthodithiophene-Based Donor-Acceptor Copolymers for Efficient Polymer Solar Cells and High-Mobility Field-Effect Transistors. <i>Macromolecules</i> , <b>2015</b> , 48, 2030-2038	5.5	30
210	Electron transport and electroluminescent efficiency of conjugated polymers. <i>Synthetic Metals</i> , <b>2009</b> , 159, 137-141	3.6	30
209	Patterning-free integration of polymer light-emitting diode and polymer transistor. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3558-3560	3.4	30
208	Liquid crystalline polymers containing heterocycloalkane mesogens. 2. Side-chain liquid crystalline polysiloxanes containing 2,5-disubstituted-1,3-dioxane mesogens. <i>Journal of Polymer Science Part A</i> , <b>1987</b> , 25, 2425-2445	2.5	30
207	Liquid crystalline polymers containing heterocycloalkane mesogens. <i>Polymer Bulletin</i> , <b>1987</b> , 17, 49-54	2.4	30
206	Synthesis and electroluminescence properties of white-light single polyfluorenes with high-molecular weight by click reaction. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 3355-3365	2.5	29
205	Thiophene and diketopyrrolopyrrole based conjugated polymers as efficient alternatives to spiro-OMeTAD in perovskite solar cells as hole transporting layers. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5193-5198	7.1	28
204	Variation of Helical Twisting Power in Self-Assembled Sugar-Appended Schiff Base Chiral Rod-Coil Amphiphiles. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1404-1409	9.6	28
203	Enhancing the thermal and spectral stabilities of polyfluorene-based blue-light-emitting materials by incorporating pendent spiro-cycloalkyl groups. <i>Polymer</i> , <b>2004</b> , 45, 4257-4263	3.9	28
202	Room Temperature Bis-tolane Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, L286-L288	1.4	28
201	Fluorinated diphenyl-diacetylene and tolane liquid crystals with low threshold voltage. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 2275-2277	3.4	27
200	Isomerically Pure Benzothiophene-Incorporated Acceptor: Achieving Improved and of Nonfullerene Organic Solar Cells via End Group Manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33179-33187 <sup>26</sup>	9.5	26
199	Novel Poly(2,3-diphenyl-1,4-phenylenevinylene) Derivatives Containing Long Branched Alkoxy and Fluorenyl Substituents: Synthesis, Characterization, and Their Applications for Polymer Light-Emitting Diodes. <i>Macromolecules</i> , <b>2005</b> , 38, 8617-8624	5.5	26
198	Synthesis and light emitting properties of polyacetylenes having pendent fluorene groups. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 519-531	2.5	26

197	Physical Properties of Polar Bis-Tolane Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, L38-L41	1.4	26
196	Synthesis and thermal behavior of side-chain liquid crystalline polymethacrylates containing tolane-based mesogenic side groups. <i>Journal of Polymer Science Part A</i> , <b>1994</b> , 32, 1077-1085	2.5	26
195	Poly(2,3-diphenylphenylene vinylene) Derivatives Having Liquid Crystalline Side Groups. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2741-2744	9.6	25
194	Complex columnar hexagonal polymorphism in supramolecular assemblies of a semifluorinated electron-accepting naphthalene bisimide. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 807-19	16.4	24
193	Analysis of metal ion impurities in liquid crystals using high resolution inductively coupled plasma mass spectrometry. <i>Analytical Methods</i> , <b>2012</b> , 4, 3631	3.2	24
192	Electric Field Effects on Photoluminescence of Polyfluorene Thin Films: Dependence on Excitation Wavelength, Field Strength, and Temperature. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11907-11915	3.8	24
191	Alternating and diblock donor-acceptor conjugated polymers based on diindeno[1,2-b:2',1'-d]thiophene structure: synthesis, characterization, and photovoltaic applications. <i>Chemistry - an Asian Journal</i> , <b>2010</b> , 5, 2483-92	4.5	24
190	Polymer hot-carrier transistor with low bandgap emitter. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 093310	3.4	24
189	Two-dimensional densely packed DNA nanostructure derived from DNA complexation with a low-generation poly(amidoamine) dendrimer. <i>Langmuir</i> , <b>2007</b> , 23, 975-8	4	24
188	Single-Junction Organic Solar Cell Containing a Fluorinated Heptacyclic Carbazole-Based Ladder-Type Acceptor Affords over 13% Efficiency with Solution-Processed Cross-Linkable Fullerene as an Interfacial Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31069-31077	9.5	23
187	Synthesis and Electroluminescent Properties of Disubstituted Polyacetylene Derivatives Containing Multi-Fluorophenyl and Cyclohexylphenyl Side Groups. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 37-47	2.6	23
186	Traps and performance of MEH-PPV/CdSe(ZnS) nanocomposite-based organic light-emitting diodes. <i>Nanotechnology</i> , <b>2008</b> , 19, 455202	3.4	23
185	Synthesis and characterization of thiophene-containing liquid crystals. <i>Liquid Crystals</i> , <b>2000</b> , 27, 1503-1513	1.3	23
184	Potential liquid crystal mixtures for Co <sub>2</sub> laser application. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 1204-1206	3.4	23
183	Synthesis and characterization of liquid crystalline polyacrylates and polymethacrylates containing benzyl ether and diphenyl ethane based mesogens. <i>Journal of Polymer Science Part A</i> , <b>1989</b> , 27, 453-466	2.5	23
182	A new ladder-type benzodi(cyclopentadithiophene)-based donor-acceptor polymer and a modified hole-collecting PEDOT:PSS layer to achieve tandem solar cells with an open-circuit voltage of 1.62 V. <i>Chemical Communications</i> , <b>2013</b> , 49, 7702-4	5.8	22
181	A New Ladder-Type Germanium-Bridged Dithienocarbazole Arene and Its Donor-Acceptor Conjugated Copolymers: Synthesis, Molecular Properties, and Photovoltaic Applications. <i>Macromolecules</i> , <b>2014</b> , 47, 7386-7396	5.5	21
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50	Twist ferrocene wires from self-assembly of chiral rod-coil organometallics. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 7385-8	4.8	5
49	Synthesis, electroluminescence, and photovoltaic cells of new vinylene-copolymers with 4-(anthracene-10-yl)-2,6-diphenylpyridine segments. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 731-739	2.9	5
48	Fabrication of hybrid chromophoric amphiphile/silica nanocomposite-based light emitting devices with enhanced performance. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 243-253		5
47	Synthesis of high temperature cholesteric copolysiloxanes and their use as stationary phases for high resolution gas chromatography. <i>Polymer Bulletin</i> , <b>2000</b> , 45, 53-59	2.4	5
46	Synthesis and characterization of cholesteric liquid crystalline copolysiloxanes containing 4-biphenyl 4-allyloxybenzoate and [S]-1-(2-naphthyl)ethyl 6-[4-(10-undecen-1-yloxy) biphenyl-4'-carbonyloxy]-2-naphthoate side groups. <i>Journal of Polymer Research</i> , <b>2000</b> , 7, 167-173	2.7	5
45	Photo-Induced Liquid Crystal Alignment with Discotic Films. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 5899-5903	1.4	5
44	Liquid Crystal Alignment with a Photo-Crosslinkable and Solvent-Soluble Polyimide Film. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, L471-L473	1.4	5
43	Synthesis and characterization of naphthalene-substituted triphenylene discotic liquid crystals. <i>Liquid Crystals</i> , <b>2001</b> , 28, 17-24	2.3	5
42	Preparation of Poly(2,5-thienyleneethylene) and Poly(2,5-furyleneethylene) by Vapor Phase Pyrolysis of (5-Methyl-2-thienyl)methyl Benzoate and (5-Methyl-2-furyl)methyl Benzoate. <i>Macromolecules</i> , <b>1996</b> , 29, 5546-5550	5.5	5
41	Synthesis and Characterization of Liquid Crystalline Monomers and Side-Chain Polymers Containing Diphenyldiacetylene Mesogens. <i>Molecular Crystals and Liquid Crystals</i> , <b>1993</b> , 225, 1-14		5
40	Alkaline-developable positive-type photosensitive polyimide with high mechanical strength and high resolution based on chain extendable poly(amic acid), thermally degradable cross-linker and photoacid generator. <i>Journal of Polymer Science</i> , <b>2020</b> , 58, 948-955	2.4	4
39	Improved efficiencies in organic light emitting diodes made with CdSe/ZnS quantum dots and a semiconducting polymer. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 2076-80	1.3	4
38	Real-time and indicator-free detection of aqueous nitric oxide with hydrogel film. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 223702	3.4	4
37	Effect of electrical operation on the defect states in organic semiconductors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 92-95	2.1	4
36	Synthesis of Benzothiadiazole-Based Liquid Crystalline Polyacrylates for Polarized Light Emitting Diodes. <i>Journal of Polymer Research</i> , <b>2006</b> , 13, 277-283	2.7	4



35	Synthesis of asymmetric tolane liquid crystals for display applications <b>1998</b> ,		3
34	Synthesis of side-chain liquid crystalline polyoxetanes containing 4-dodecanyloxyphenyltrans-4-alkylcyclohexanoate side groups. <i>Polymer Bulletin</i> , <b>1994</b> , 32, 551-558	2.4	3
33	Coordination-Induced Defects Elimination of SnO <sub>2</sub> Nanoparticles via a Small Electrolyte Molecule for High-Performance Inverted Organic Solar Cells. <i>Advanced Optical Materials</i> , 2102031	8.1	3
32	Stacked Structures for Assembling Multiple Organic Photovoltaic Devices. <i>Applied Physics Express</i> , <b>2012</b> , 5, 072301	2.4	3
31	Recent advances of carbazole-based nonfullerene acceptors: Molecular design, optoelectronic properties, and photovoltaic performance in organic solar cells. <i>Journal of the Chinese Chemical Society</i> , <b>2021</b> , 68, 1186-1196	1.5	3
30	Elucidating End-Group Modifications of Carbazole-Based Nonfullerene Acceptors in Indoor Applications for Achieving a PCE of over 20. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26247-26255	9.5	3
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28	Luminescence enhancement of pyrene/dispersant nanoarrays driven by the nanoscale spatial effect on mixing. <i>Langmuir</i> , <b>2013</b> , 29, 1627-33	4	2
27	Synthesis of Liquid Crystalline Polysiloxanes Containing Naphthalene-Based Mesogens and Chiral Side Chains. <i>Molecular Crystals and Liquid Crystals</i> , <b>1997</b> , 300, 83-95		2
26	Emission Enhancement by Formation of Aggregates in Hybrid Chromophoric Surfactant Amphiphile/Silica Nanocomposites. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 1432-1436	3.6	2
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23	Synthesis and photoluminescence property of polyacetylenes containing liquid crystalline side groups. <i>Journal of Polymer Research</i> , <b>2001</b> , 8, 159-167	2.7	2
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19	Synthesis and mesomorphic behavior of poly(methylsiloxane)s containing trans-cyclohexane-based mesogenic side groups. <i>Polymer Bulletin</i> , <b>1991</b> , 25, 169-176	2.4	2
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