

# Chain-Shu Hsu

## List of Publications by Year in Descending Order

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

304  
papers

14,522  
citations

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	Improving charge transport and reducing non-radiative energy loss via a nonacyclic carbazole-based third component for over 18% efficiency polymer solar cells. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7090-7098	13	3
303	Non-Volatile Perfluorophenyl-Based Additive for Enhanced Efficiency and Thermal Stability of Nonfullerene Organic Solar Cells via Supramolecular Fluorinated Interactions (Adv. Energy Mater. 12/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270047	21.8	
302	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
301	Exploring Ternary Organic Solar Cells for the Improved Efficiency of 16.5% with the Compatible Nonacyclic Carbazole-Based Nonfullerene Acceptors as the Third Component. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2847-2855	6.1	11
300	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	8.5	3
299	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Cross-Linkable Fullerene Derivative. <i>Small</i> , <b>2021</b> , 17, e2101133	11	10
298	Low-temperature curable, alkaline-developable, and negative-type photosensitive polyimide with high resolution and mechanical properties based on chain extendable poly(amic acid) and photo-base generator. <i>Polymers for Advanced Technologies</i> , <b>2021</b> , 32, 663-669	3.2	0
297	2-Dimensional cross-shaped tetrathienonaphthalene-based ladder-type acceptor for high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12141-12148	13	12
296	Face-on reorientation of $\pi$ -conjugated polymers in thin films by surface-segregated monolayers. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6268-6275	13	6
295	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
294	Low-Temperature-Curable and Positive-Type Photosensitive Polyimide with High Mechanical Strength, High Resolution and Good Pot-Life Based on Chain Extendable Poly(Amic Acid), Thermal Degradable Crosslinker, Chain Extender, Thermal Base Generator and Photoacid Generator. <i>Journal of Photopolymer Science and Technology - [Photopolymers Kanwakaishi]</i> , <b>2020</b> , 33, 623-630	0.7	
293	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
292	Chlorinated Carbon-Bridged and Silicon-Bridged Carbazole-Based Nonfullerene Acceptors Manifest Synergistic Enhancement in Ternary Organic Solar Cell with Efficiency over 15%. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000357	7.1	13
291	A strategy of designing near-infrared porphyrin-based non-fullerene acceptors for panchromatic organic solar cells. <i>Organic Electronics</i> , <b>2020</b> , 86, 105899	3.5	6
290	Rapid Prototyping of an Open-Surface Microfluidic Platform Using Wettability-Patterned Surfaces Prepared by an Atmospheric-Pressure Plasma Jet. <i>ACS Omega</i> , <b>2019</b> , 4, 16292-16299	3.9	12
289	Synthesis of novel conjugated polymers based on benzo[1,2-d:4,5-d']-bis([1,2,3]triazole) for applications in organic field-effect transistors. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 1471-1479	4.9	8
288	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

287	Fabrication of magnetic liquid marbles using superhydrophobic atmospheric pressure plasma jet-formed fluorinated silica nanocomposites. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 10179-10190	4.3	6
286	Fluorinated heptacyclic carbazole-based ladder-type acceptors with aliphatic side chains for efficient fullerene-free organic solar cells. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 829-835	7.8	17
285	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	9.5	26
284	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
283	Porphyrin-Containing Polymer as a Superior Blue Light-Absorbing Additive To Afford High- J Ternary Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1156-1162	9.5	12
282	Anthradithiophene-based liquid crystal molecules: High carrier mobilities enhanced by rubbed polyimides for the application in organic field-effect transistors. <i>Organic Electronics</i> , <b>2018</b> , 57, 82-88	3.5	5
281	Cross-linked Triarylamine-Based Hole-Transporting Layer for Solution-Processed PEDOT:PSS-Free Inverted Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21466-21471	9.5	20
280	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
279	Novel conjugated polymers based on bis-dithieno[3,2-b;2',3'-d]pyrrole vinylene donor and diketopyrrolopyrrole acceptor: side chain engineering in organic field effect transistors. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 28-37	4.9	11
278	Effects of end-on oriented polymer chains at the donor/acceptor interface in organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22889-22898	13	16
277	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
276	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
275	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
274	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
273	Synthesis of diketopyrrolopyrrole based conjugated polymers containing thieno[3,2-b]thiophene flanking groups for high performance thin film transistors. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3431-3437	4.9	11
272	Interfacial Engineering with Cross-Linkable Fullerene Derivatives for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38530-38536	9.5	15
271	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
270	Bispentafluorophenyl-Containing Additive: Enhancing Efficiency and Morphological Stability of Polymer Solar Cells via Hand-Grabbing-Like Supramolecular Pentafluorophenyl-Fullerene Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43861-43870	9.5	21

- 269 Haptacyclic Carbazole-Based Ladder-Type Nonfullerene Acceptor with Side-Chain Optimization for Efficient Organic Photovoltaics. *ACS Applied Materials & Interfaces*, **2017**, 9, 42035-42042 9.5 37
- 268 Highly Efficient Inverted D:A:A Ternary Blend Organic Photovoltaics Combining a Ladder-type Non-Fullerene Acceptor and a Fullerene Acceptor. *ACS Applied Materials & Interfaces*, **2017**, 9, 24797-24803<sup>6</sup> 9.5 36
- 267 Synthesis and characterisation of liquid crystal molecules based on thieno [3,2-b] thiophene and their application in organic field-effect transistors. *Liquid Crystals*, **2017**, 44, 557-565 2.3 17
- 266 Enhanced crystallization and stability of perovskites by a cross-linkable fullerene for high-performance solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 15088-15094 13 62
- 265 Rejuvenation of perovskite solar cells. *Journal of Materials Chemistry C*, **2016**, 4, 7595-7600 7.1 12
- 264 Synthesis of a 4,9-Didodecyl Angular-Shaped Naphthodiselenophene Building Block To Achieve High-Mobility Transistors. *Chemistry of Materials*, **2016**, 28, 5121-5130 9.6 42
- 263 Screening Libraries of Semifluorinated Arylene Bisimides to Discover and Predict Thermodynamically Controlled Helical Crystallization. *ACS Combinatorial Science*, **2016**, 18, 723-739 3.9 14
- 262 Synthesis and field-effect transistor properties of a diseleno[3,2-b:2',3'-d]silole-based donor-acceptor copolymer: investigation of chalcogen effect. *Polymer Chemistry*, **2016**, 7, 4654-4660 4.9 9
- 261 The synthesis of anthradithiophene-based liquid crystals and their applications in organic thin film transistors. *Journal of Materials Chemistry C*, **2016**, 4, 2284-2288 7.1 8
- 260 Stepwise Structural Evolution of a DTS-F2BT Oligomer and Influence of Structural Disorder on Organic Field Effect Transistors and Organic Photovoltaic Performance. *Chemistry of Materials*, **2016**, 28, 8980-8987 9.6 10
- 259 Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. *Chemistry of Materials*, **2016**, 28, 6186-6195 9.6 125
- 258 High-efficiency large-bandgap material for polymer solar cells. *Macromolecular Rapid Communications*, **2015**, 36, 84-9 4.8 18
- 257 Synthesis of cyclopentyloxy terphenyl liquid crystals with negative dielectric anisotropy. *Liquid Crystals*, **2015**, 42, 104-112 2.3 9
- 256 Incorporation of Fluorine onto Different Positions of Phenyl Substituted Benzo[1,2-b:4,5-b']dithiophene Unit: Influence on Photovoltaic Properties. *Macromolecules*, **2015**, 48, 4347-4356 5.5 48
- 255 Triarylamine-based crosslinked hole-transporting material with an ionic dopant for high-performance PEDOT:PSS-free polymer solar cells. *Journal of Materials Chemistry C*, **2015**, 3, 6158-6165<sup>5</sup> 7.1 19
- 254 Influences of the backbone randomness on the properties, morphology and performances of the fluorinated benzoselenadiazole-Benzothiadiazole based random copolymers. *Polymer Chemistry*, **2015**, 6, 3728-3736 4.9 16
- 253 Angular-Shaped 4,9-Dialkyl naphthodithiophene-Based Donor-Acceptor Copolymers for Efficient Polymer Solar Cells and High-Mobility Field-Effect Transistors. *Macromolecules*, **2015**, 48, 2030-2038 5.5 30
- 252 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. *Journal of Materials Chemistry A*, **2015**, 3, 20382-20388 13 34

251	The backbone rigidity and its influence on the morphology and charge mobility of FBT based conjugated polymers. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 1309-1315	4.9	18
250	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
249	Angular-Shaped 4,9-Dialkyl and 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	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
247	Recent Advances in P-Type Conjugated Polymers for High-Performance Solar Cells. <i>Topics in Applied Physics</i> , <b>2015</b> , 145-189	0.5	
246	Efficient solar cells based on a new polymer from fluorinated benzothiadiazole and alkylthienyl substituted thieno[2,3-f]benzofuran. <i>Dyes and Pigments</i> , <b>2015</b> , 116, 139-145	4.6	13
245	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
244	Polymorphisms and morphological studies of a difluorobenzothiadiazole conjugated copolymer with 7.8% polymer solar cell efficiency. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3968-3974	13	16
243	Applications of functional fullerene materials in polymer solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1866	35.4	159
242	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301645	21.8	65
241	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
240	Organic solar cells comprising multiple-device stacked structures exhibiting complementary absorption behavior. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 120, 724-727	6.4	7
239	Gold nanoparticle-decorated graphene oxides for plasmonic-enhanced polymer photovoltaic devices. <i>Nanoscale</i> , <b>2014</b> , 6, 1573-9	7.7	90
238	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
237	Synthesis and morphological studies of a poly(5,6-difluorobenzo-2,1,3-thiadiazole-4,7-diyl-alt-quaterchalcogenophene) copolymer with 7.3% polymer solar cell efficiency. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 6472-6479	4.9	20
236	Compact bis-adduct fullerenes and additive-assisted morphological optimization for efficient organic photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 20102-9	9.5	9
235	Enhanced performance of organic thin film solar cells using electrodes with nanoimprinted light-diffraction and light-diffusion structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6164-9	9.5	18
234	Porphyrim-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

233	Synthesis of fluorinated terphenyl liquid crystals with 3-propylcyclopentane end group. <i>Liquid Crystals</i> , <b>2014</b> , 41, 1235-1245	2.3	16
232	Green synthesis of gold nanoparticle-decorated graphene oxides that enhance the photocurrent in polymer solar cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1668, 23		
231	Gold Nanoparticle-Graphene Oxide Nanocomposites That Enhance the Device Performance of Polymer Solar Cells. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-12	3.2	7
230	Reduced optical loss in mechanically stacked multi-junction organic solar cells exhibiting complementary absorptions. <i>Optics Express</i> , <b>2014</b> , 22 Suppl 2, A481-90	3.3	5
229	Solar Cells: Morphological Stabilization by Supramolecular Perfluorophenyl-C60 Interactions Leading to Efficient and Thermally Stable Organic Photovoltaics (Adv. Funct. Mater. 10/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1492-1492	15.6	
228	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
227	Improved photoconductive properties of composite nanofibers based on aligned conjugated polymer and single-walled carbon nanotubes. <i>Nano Research</i> , <b>2013</b> , 6, 149-158	10	17
226	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
225	Poly(2,3-diphenyl-1,4-phenylenevinylene) (DP-PPV) derivatives: Synthesis, properties, and their applications in polymer light-emitting diodes. <i>Polymer</i> , <b>2013</b> , 54, 4045-4058	3.9	12
224	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
223	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
222	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
221	Facile synthesis and photophysical properties of sphere-square shape amphiphiles based on porphyrin-[60]fullerene conjugates. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 947-55	4.5	13
220	Synthesis, photophysical and photovoltaic properties of a new class of two-dimensional conjugated polymers containing donor-acceptor chromophores as pendant groups. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3333-49	4.9	6
219	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
218	A New sp <sup>2</sup> -sp <sup>2</sup> Dialkylethylene-Bridged Heptacyclic Ladder-Type Arene for High Efficiency Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 457-465	21.8	21
217	Interface engineering to enhance the efficiency of conventional polymer solar cells by alcohol-/water-soluble C60 materials doped with alkali carbonates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 5122-8	9.5	21
216	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

215	Formation of Nanostructured Fullerene Interlayer through Accelerated Self-Assembly and Cross-Linking of Trichlorosilane Moieties Leading to Enhanced Efficiency of Photovoltaic Cells. <i>Macromolecules</i> , <b>2013</b> , 46, 4781-4789	5.5	20
214	Crystal Structure and Molecular Packing Behavior of Poly(2,3-diphenyl-1,4-phenylenevinylene) Derivatives Containing Alkyl Side-Chains. <i>Macromolecules</i> , <b>2013</b> , 46, 155-163	5.5	11
213	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
212	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
211	New low bandgap conjugated polymer derived from 2, 7-carbazole and 5, 6-bis(octyloxy)-4, 7-di(thiophen-2-yl) benzothiadiazole: Synthesis and photovoltaic properties. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 99-107	2.9	16
210	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
209	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
208	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
207	Electroabsorption and Electrophotoluminescence of Poly(2,3-diphenyl-5-hexyl-p-phenylene vinylene). <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 14789-14795	3.8	8
206	Large scale two-dimensional nanobowl array high efficiency polymer solar cell. <i>RSC Advances</i> , <b>2012</b> , 2, 1314	3.7	15
205	Preservation of Photoluminescence Efficiency in the Ordered phases of Poly(2,3-diphenyl-1,4-phenylenevinylene) via Disturbing the Intermolecular $\pi$ Interactions with Dendritic Aliphatic Side Chains. <i>Macromolecules</i> , <b>2012</b> , 45, 4540-4549	5.5	5
204	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
203	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
202	Dielectrophoretic placement of quasi-zero-, one-, and two-dimensional nanomaterials into nanogap for electrical characterizations. <i>Electrophoresis</i> , <b>2012</b> , 33, 2475-81	3.6	6
201	Porphyrin-diindeno[2,3-b]thiophene alternating copolymer blue-light harvester in ternary-blend polymer solar cells. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 5032-5040	2.5	7
200	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
199	Plasmonic-enhanced performance for polymer solar cells prepared with inverted structures. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 193902	3.4	45
198	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

197	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
196	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
195	Effects of thiophene units on substituted benzothiadiazole and benzodithiophene copolymers for photovoltaic applications. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 3936-3945	2.9	7
194	Dithienocyclopentathieno[3,2-b]thiophene hexacyclic arene for solution-processed organic field-effect transistors and photovoltaic applications. <i>Chemistry - an Asian Journal</i> , <b>2012</b> , 7, 818-25	4.5	19
193	A pentacyclic nitrogen-bridged thienyl-phenylene-thienyl arene for donor-acceptor copolymers: synthesis, characterization, and applications in field-effect transistors and polymer solar cells. <i>Chemistry - an Asian Journal</i> , <b>2012</b> , 7, 2102-10	4.5	21
192	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
191	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
190	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
189	Stacked Structures for Assembling Multiple Organic Photovoltaic Devices. <i>Applied Physics Express</i> , <b>2012</b> , 5, 072301	2.4	3
188	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
187	Nano approach investigation of the conduction mechanism in polyaniline nanofibers. <i>ACS Nano</i> , <b>2011</b> , 5, 1541-8	16.7	62
186	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
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50	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
49	The application of side-chain liquid-crystalline polymers. <i>Progress in Polymer Science</i> , <b>1997</b> , 22, 829-871	29.6	83
48	Synthesis and characterization of segmented copolymers of aromatic polyether sulfone with liquid crystalline polyesters containing flexible spacers. <i>Journal of Polymer Research</i> , <b>1997</b> , 4, 101-106	2.7	1
47	Thermally stimulated current and DSC studies of the dual glass transitions in side-chain liquid crystalline copolysiloxanes containing 4-[(S)-2-methylbutoxy]phenyl 3-chloro-4-alkenyloxybenzoate side groups. <i>Macromolecular Chemistry and Physics</i> , <b>1997</b> , 198, 2985-2992	2.6	1
46	Effect of lateral substituents on the mesomorphic properties of side-chain liquid crystalline polysiloxanes containing 4-[(S)-2-methyl-1-butoxy]phenyl 4-(alkenyloxy)benzoate side groups. <i>Journal of Polymer Science Part A</i> , <b>1997</b> , 35, 2793-2800	2.5	16
45	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
44	Synthesis and characterization of segmented copolymers of aromatic polyether sulfone and thermotropic liquid crystalline poly(oxy-1,4-phenylenecarbonyl-co-oxy-2,6-naphthaloyl). <i>Materials Chemistry and Physics</i> , <b>1996</b> , 43, 250-255	4.4	8
43	Synthesis and characterization of side-chain liquid crystalline polysiloxanes containing (S)-2-methyl-l-butyl [6-(4-alkenyloxyphenyl)-carbonyloxy]naphthylene-2-carboxylate and (S)-2-methyl-l-butyl 6-[(4-alkenyloxy-biphenyl)-4?-carbonyloxy]naphthalene-2-carboxylate side groups. <i>Journal of Polymer Research</i> , <b>1996</b> , 3, 185-191	2.7	2
42	Synthesis of ferroelectric liquid-crystalline polymethacrylates containing 1,2-diphenylethane based mesogens. <i>Macromolecular Chemistry and Physics</i> , <b>1996</b> , 197, 4105-4118	2.6	6
41	Synthesis of fluorinated naphthylphenylacetylenic and naphthylphenyldiacetylenic liquid crystals. <i>Liquid Crystals</i> , <b>1995</b> , 19, 409-414	2.3	14
40	Synthesis Of Side-Chain Liquid Crystalline Polymethacrylates Containing Fluorinated Diarylacetylene-Based Mesogenic Side Groups. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>1995</b> , 32, 1471-1488	2.2	17
39	Synthesis of Side-Chain Liquid Crystalline Polyoxetanes Containing 4-(Alkanyloxy)phenyl trans-4-Alkylcyclohexanoate Side Groups. <i>Macromolecules</i> , <b>1995</b> , 28, 1673-1680	5.5	18
38	Synthesis and electro-optical properties of some ferroelectric liquid crystalline polymers. <i>Macromolecular Symposia</i> , <b>1995</b> , 98, 883-893	0.8	1
37	Molecular design of ferroelectric liquid crystalline polymers. <i>Pure and Applied Chemistry</i> , <b>1995</b> , 67, 2005-2013		1
36	Potential liquid crystal mixtures for Co2 laser application. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 1204-1206	3.4	23



35	The influence of lateral substituents on the phase behavior of side-chain liquid crystalline polysiloxanes containing trans-2,5-disubstituted-1,3-dioxane based mesogenic side groups. <i>Journal of Polymer Research</i> , <b>1994</b> , 1, 7-15	2.7	1
34	Synthesis of ferroelectric liquid crystalline polysiloxanes containing (S)-2-methylbutyl 4-alkyloxybiphenyl-4'-carboxylate and (2S, 3S)-2-chloro-3-methylpentyl 4-alkyloxybiphenyl-4'-carboxylate. <i>Journal of Polymer Research</i> , <b>1994</b> , 1, 321-329	2.7	2
33	Synthesis and X-ray diffraction of ferroelectric liquid crystalline polysiloxanes containing 4'-(2-chloro-3-methylpentanoyloxy)-4-alkanyloxybiphenyl side groups. <i>Polymer Bulletin</i> , <b>1994</b> , 33, 159-166	2.4	16
32	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
31	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
30	Synthesis and Characterization of Chiral Smectic Side-Chain Liquid Crystalline Polysiloxanes Containing 2,5-Disubstituted-1,3-Dioxane Based Mesogenic Side Groups. <i>Molecular Crystals and Liquid Crystals</i> , <b>1993</b> , 237, 223-234		6
29	Synthesis and characterization of novel fluorinated diphenyldiacetylenic liquid crystals. <i>Liquid Crystals</i> , <b>1993</b> , 15, 529-540	2.3	17
28	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
27	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
26	Fluoro diphenyldiacetylene and tolane liquid crystals for display applications. <i>Optical Engineering</i> , <b>1993</b> , 32, 1792	1.1	14
25	Synthesis of High Temperature Mesomorphic Polysiloxanes and Their Use as Stationary Phases for High Resolution Gas Chromatography. <i>Polymer Journal</i> , <b>1993</b> , 25, 153-167	2.7	11
24	Synthesis and characterization of liquid crystalline copolysiloxanes containing azobenzene dyes and 1,3-dioxane based mesogenic side groups. <i>Polymer Bulletin</i> , <b>1993</b> , 30, 141-148	2.4	11
23	Room-temperature diphenyl-diacetylene liquid crystals. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 630-632	3.4	68
22	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
21	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
20	Synthesis of side-chain liquid crystalline polyacrylates, polymethacrylates and polysiloxanes containing 4-cyano-biphenyl 4-alkanyloxybenzyl ether side groups. <i>Polymer Bulletin</i> , <b>1992</b> , 28, 403-410	2.4	1
19	Gas permeation through two side-chain liquid-crystalline polyacrylate-based membranes containing 4-methoxyphenyl 4-hexyloxybenzoate or 4-cyanophenyl 4-hexyloxybenzoate mesogenic side groups. <i>Die Makromolekulare Chemie</i> , <b>1992</b> , 193, 1469-1479		17
18	Application of Imaging Plate for Polymer Analysis. <i>Advances in X-ray Analysis</i> , <b>1992</b> , 36, 387-396		

17	Gas permeation through a side-chain liquid-crystalline polysiloxane-based membrane. <i>Die Makromolekulare Chemie</i> , <b>1991</b> , 192, 2021-2029		15
16	Liquid-crystalline polymers containing macrocyclic polyethers, 2. Side-chain liquid-crystalline copolysiloxanes containing mesogenic units based on 1,3-dioxane-2,5-diyl and benzo[15]-crown-5. <i>Die Makromolekulare Chemie</i> , <b>1991</b> , 192, 2243-2254		12
15	Synthesis and characterization of side-chain liquid crystalline polysiloxanes containing 4-alkanyloxyphenyl trans-4-alkylcyclohexanoate side groups. <i>Journal of Polymer Science Part A</i> , <b>1991</b> , 29, 977-986	2.5	7
14	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
13	Synthesis and characterization of side-chain liquid crystalline polysiloxanes containing oligooxyethylene spacers and benzyl ether based mesogenic groups. <i>Journal of Polymer Science Part A</i> , <b>1990</b> , 28, 425-435	2.5	12
12	Synthesis and mesomorphic behavior of poly(methylsiloxane)s and poly(methylsiloxane-co-dimethylsiloxane)s containing oligooxyethylene spacers and mesogenic side groups. <i>Polymer Bulletin</i> , <b>1990</b> , 23, 463-470	2.4	13
11	Ionic conductivity and morphology of polymer electrolytes based on a side-chain liquid-crystalline polysiloxane containing oligooxyethylene spacers and 6-cyano-2-naphthyl benzyl ether mesogens. <i>Die Makromolekulare Chemie</i> , <b>1990</b> , 191, 2195-2203		12
10	Liquid-crystalline polymers containing macrocyclic polyethers, 1. Side-chain liquid-crystalline copolysiloxanes containing benzo-[15]crown-5 based mesogenic side groups. <i>Die Makromolekulare Chemie Rapid Communications</i> , <b>1990</b> , 11, 151-157		15
9	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
8	Synthesis and characterization of liquid crystalline copolymethacrylates, copolyacrylates, and copolysiloxanes containing 4-methoxy-4'-hydroxy- $\pi$ -methylstilbene and 4-hydroxy-4'-methoxy- $\pi$ -methylstilbene constitutional isomers as side-groups. <i>Journal of Polymer Science Part A</i> , <b>1988</b> , 26, 2047-2076	2.5	18
7	Synthesis and characterization of biphasic liquid crystalline polysiloxanes containing 4-undecanyloxy-4'-cyanobiphenyl side-groups. <i>Polymer Bulletin</i> , <b>1987</b> , 18, 91	2.4	14
6	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
5	Synthesis and characterization of liquid crystalline polysiloxanes containing benzyl ether mesogens. <i>Journal of Polymer Science Part A</i> , <b>1987</b> , 25, 2909-2923	2.5	9
4	Liquid crystalline polymers containing heterocycloalkane mesogens. <i>Polymer Bulletin</i> , <b>1987</b> , 17, 49-54	2.4	30
3	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
2	Non-Volatile Perfluorophenyl-Based Additive for Enhanced Efficiency and Thermal Stability of Nonfullerene Organic Solar Cells via Supramolecular Fluorinated Interactions. <i>Advanced Energy Materials</i> , 2103702	21.8	7
1	Achieving area-selective atomic layer deposition with fluorinated self-assembled monolayers. <i>Journal of Materials Chemistry C</i> ,	7.1	2