Chain-Shu Hsu

List of Publications by Year
in descending order

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310 papers	16,176 citations	31902 53 h-index	19690 117 g-index
316 all docs	316 docs citations	316 times ranked	14571 citing authors

#	Article	IF	Citations
1	Synthesis of Conjugated Polymers for Organic Solar Cell Applications. Chemical Reviews, 2009, 109, 5868-5923.	23.0	3,739
2	Surface Plasmonic Effects of Metallic Nanoparticles on the Performance of Polymer Bulk Heterojunction Solar Cells. ACS Nano, 2011, 5, 959-967.	7.3	959
3	Vertical Phase Separation in Poly(3â€hexylthiophene): Fullerene Derivative Blends and its Advantage for Inverted Structure Solar Cells. Advanced Functional Materials, 2009, 19, 1227-1234.	7.8	650
4	Donorâ€“acceptor conjugated polymers based on multifused ladder-type arenes for organic solar cells. Chemical Society Reviews, 2015, 44, 1113-1154.	18.7	543
5	Highly Efficient and Stable Inverted Polymer Solar Cells Integrated with a Cross-Linked Fullerene Material as an Interlayer. Journal of the American Chemical Society, 2010, 132, 4887-4893.	6.6	419
6	Combination of Indene-C₆₀ Bis-Adduct and Cross-Linked Fullerene Interlayer Leading to Highly Efficient Inverted Polymer Solar Cells. Journal of the American Chemical Society, 2010, 132, 17381-17383.	6.6	307
7	Conjugated polymer nanostructures for organic solar cell applications. Polymer Chemistry, 2011, 2, 2707.	1.9	191
8	Biocompatible Dâ€“A Semiconducting Polymer Nanoparticle with Lightâ€Harvesting Unit for Highly Effective Photoacoustic Imaging Guided Photothermal Therapy. Advanced Functional Materials, 2017, 27, 1605094.	7.8	188
9	Synthesis and Characterization of Bridged Bithiophene-Based Conjugated Polymers for Photovoltaic Applications: Acceptor Strength and Ternary Blends. Macromolecules, 2010, 43, 697-708.	2.2	187
10	Applications of functional fullerene materials in polymer solar cells. Energy and Environmental Science, 2014, 7, 1866.	15.6	174
11	Relaxation Dynamics and Structural Characterization of Organic Nanoparticles with Enhanced Emission. Journal of Physical Chemistry B, 2005, 109, 13472-13482.	1.2	169
12	Enhanced Performance and Stability of a Polymer Solar Cell by Incorporation of Vertically Aligned, Crossâ€Linked Fullerene Nanorods. Angewandte Chemie - International Edition, 2011, 50, 9386-9390.	7.2	162
13	Combination of Molecular, Morphological, and Interfacial Engineering to Achieve Highly Efficient and Stable Plastic Solar Cells. Advanced Materials, 2012, 24, 549-553.	11.1	155
14	Morphological Stabilization by In Situ Polymerization of Fullerene Derivatives Leading to Efficient, Thermally Stable Organic Photovoltaics. Advanced Functional Materials, 2011, 21, 1723-1732.	7.8	153
15	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. Chemistry of Materials, 2016, 28, 6186-6195.	3.2	150
16	Fluorescent conjugated polymer films as TNT chemosensors. Synthetic Metals, 2004, 144, 297-301.	2.1	129
17	Influences of the Nonâ€Covalent Interaction Strength on Reaching High Solidâ€State Order and Device Performance of a Low Bandgap Polymer with Axisymmetrical Structural Units. Advanced Materials, 2013, 25, 2445-2451.	11.1	129
18	Super High Birefringence Isothiocyanato Biphenyl-Bistolane Liquid Crystals. Japanese Journal of Applied Physics, 2004, 43, 7634-7638.	0.8	127

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19	Graphdiyne-modified cross-linkable fullerene as an efficient electron-transporting layer in organometal halide perovskite solar cells. Nano Energy, 2018, 43, 47-54.	8.2	126
20	Polymer solar cell by blade coating. Organic Electronics, 2009, 10, 741-746.	1.4	123
21	Perovskite Grains Embraced in a Soft Fullerene Network Make Highly Efficient Flexible Solar Cells with Superior Mechanical Stability. Advanced Materials, 2019, 31, e1901519.	11.1	123
22	Donorâ€“acceptor polymers based on multi-fused heptacyclic structures: synthesis, characterization and photovoltaic applications. Chemical Communications, 2010, 46, 3259.	2.2	116
23	Porphyrinâ€Incorporated 2D Dâ€“A Polymers with Over 8.5% Polymer Solar Cell Efficiency. Advanced Materials, 2014, 26, 5205-5210.	11.1	112
24	Carbazole-Based Ladder-Type Heptacylic Arene with Aliphatic Side Chains Leading to Enhanced Efficiency of Organic Photovoltaics. Chemistry of Materials, 2011, 23, 2361-2369.	3.2	111
25	A Versatile Fluoroâ€Containing Lowâ€Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. Advanced Functional Materials, 2013, 23, 5084-5090.	7.8	110
26	Gold nanoparticle-decorated graphene oxides for plasmonic-enhanced polymer photovoltaic devices. Nanoscale, 2014, 6, 1573-1579.	2.8	103
27	Synthesis of a New Ladder-Type Benzodi(cyclopentadithiophene) Arene with Forced Planarization Leading to an Enhanced Efficiency of Organic Photovoltaics. Chemistry of Materials, 2012, 24, 3964-3971.	3.2	97
28	High birefringence and wide nematic range bis-tolane liquid crystals. Applied Physics Letters, 1999, 74, 344-346.	1.5	93
29	Dithienocarbazoleâ€Based Ladderâ€Type Heptacyclic Arenes with Silicon, Carbon, and Nitrogen Bridges: Synthesis, Molecular Properties, Fieldâ€Effect Transistors, and Photovoltaic Applications. Advanced Functional Materials, 2012, 22, 1711-1722.	7.8	92
30	The application of side-chain liquid-crystalline polymers. Progress in Polymer Science, 1997, 22, 829-871.	11.8	91
31	Di(4-methylphenyl)methano-C₆₀ Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. Chemistry of Materials, 2011, 23, 4056-4062.	3.2	90
32	Emission Enhancement by Formation of Aggregates in Hybrid Chromophoric Surfactant Amphiphile/Silica Nanocomposites. Angewandte Chemie - International Edition, 2006, 45, 1404-1408.	7.2	76
33	High efficiency ternary organic solar cell with morphology-compatible polymers. Journal of Materials Chemistry A, 2017, 5, 11739-11745.	5.2	74
34	Roomâ€temperature diphenylâ€diacetylene liquid crystals. Applied Physics Letters, 1992, 61, 630-632.	1.5	73
35	Directional Solution Coating by the Chinese Brush: A Facile Approach to Improving Molecular Alignment for Highâ€Performance Polymer TFTs. Advanced Materials, 2017, 29, 1606987.	11.1	73
36	Liquid crystalline conjugated polymers and their applications in organic electronics. Journal of Polymer Science Part A, 2009, 47, 2713-2733.	2.5	72

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37	New Angular-Shaped and Isomerically Pure Anthradithiophene with Lateral Aliphatic Side Chains for Conjugated Polymers: Synthesis, Characterization, and Implications for Solution-Prossessed Organic Field-Effect Transistors and Photovoltaics. Chemistry of Materials, 2012, 24, 2391-2399.	3.2	72
38	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. Advanced Energy Materials, 2014, 4, 1301645.	10.2	71
39	Nano Approach Investigation of the Conduction Mechanism in Polyaniline Nanofibers. ACS Nano, 2011, 5, 1541-1548.	7.3	70
40	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.	5.2	70
41	Synthesis and Thermal and Photoluminescence Properties of Liquid Crystalline Polyacetylenes Containing 4-Alkanyloxyphenyltrans-4-Alkylcyclohexanoate Side Groups. Macromolecules, 2002, 35, 1180-1189.	2.2	69
42	Efficient white light emission in conjugated polymer homojunctions. Applied Physics Letters, 2004, 85, 4576-4578.	1.5	68
43	Synthesis, Molecular and Photovoltaic Properties of Donorâ€“Acceptor Conjugated Polymers Incorporating a New Heptacylic Indacenodithieno[3,2-b]thiophene Arene. Macromolecules, 2012, 45, 9282-9291.	2.2	68
44	Color-tunable multilayer light-emitting diodes based on conjugated polymers. Applied Physics Letters, 2004, 84, 1195-1197.	1.5	67
45	General method to solution-process multilayer polymer light-emitting diodes. Applied Physics Letters, 2006, 88, 163501.	1.5	65
46	A chlorinated nonacyclic carbazole-based acceptor affords over 15% efficiency in organic solar cells. Journal of Materials Chemistry A, 2020, 8, 1131-1137.	5.2	65
47	Fractal Aggregates of Conjugated Polymer in Solution State. Langmuir, 2006, 22, 11009-11015.	1.6	63
48	New Thieno[3,2-b]thiophene-Based Acceptor: Tuning Acceptor Strength of Ladder-Type N-Type Materials to Simultaneously Achieve Enhanced V_{oc} and J_{sc} of Nonfullerene Solar Cells. ACS Energy Letters, 2018, 3, 1722-1729.	8.8	61
49	Synthesis of a 4,9-Didodecyl Angular-Shaped Naphthodiselenophene Building Block To Achieve High-Mobility Transistors. Chemistry of Materials, 2016, 28, 5121-5130.	3.2	60
50	A New Pentacyclic Indacenodiselenophene Arene and Its Donorâ€“Acceptor Copolymers for Solution-Processable Polymer Solar Cells and Transistors: Synthesis, Characterization, and Investigation of Alkyl/Alkoxy Side-Chain Effect. Macromolecules, 2013, 46, 7715-7726.	2.2	59
51	Ladder-Type Nonacyclic Structure Consisting of Alternate Thiophene and Benzene Units for Efficient Conventional and Inverted Organic Photovoltaics. Chemistry of Materials, 2011, 23, 5068-5075.	3.2	58
52	Synthesis, Photophysical and Photovoltaic Properties of Conjugated Polymers Containing Fused Donorâ€“Acceptor Dithienopyrrolobenzothiadiazole and Dithienopyrroloquinoxaline Arenes. Macromolecules, 2012, 45, 2690-2698.	2.2	58
53	Donorâ€“Acceptor Random Copolymers Based on a Ladder-Type Nonacyclic Unit: Synthesis, Characterization, and Photovoltaic Applications. Macromolecules, 2011, 44, 8415-8424.	2.2	57
54	Thieno[3,2-b]pyrrolo Donor Fused with Benzothiadiazolo, Benzoselenadiazolo and Quinoxalino Acceptors: Synthesis, Characterization, and Molecular Properties. Organic Letters, 2011, 13, 5484-5487.	2.4	57

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55	Synthesis and characterization of ferroelectric liquid-crystalline polysiloxanes and polymethacrylates containing [(S)-2-methyl-1-butoxy]phenyl 4-(alkyloxy)biphenyl-4'-carboxylate side groups. Macromolecules, 1992, 25, 7126-7134.	2.2	52
56	Scattering Study of the Conformational Structure and Aggregation Behavior of a Conjugated Polymer Solution. Langmuir, 2009, 25, 4668-4677.	1.6	51
57	Synthesis of ethanol-soluble few-layer graphene nanosheets for flexible and transparent conducting composite films. Nanotechnology, 2011, 22, 295606.	1.3	51
58	Synthesis of terpyridine ligands and their complexation with Zn 2+ and Ru 2+ for optoelectronic applications. Journal of Polymer Science Part A, 2008, 46, 7702-7712.	2.5	50
59	Plasmonic-enhanced performance for polymer solar cells prepared with inverted structures. Applied Physics Letters, 2012, 101, 193902.	1.5	50
60	Incorporation of Fluorine onto Different Positions of Phenyl Substituted Benzo[1,2-b:4,5-bâ€²]dithiophene Unit: Influence on Photovoltaic Properties. Macromolecules, 2015, 48, 4347-4356.	2.2	50
61	UV Stability of High Birefirngence Liquid Crystals. Molecular Crystals and Liquid Crystals, 2004, 411, 243-253.	0.4	49
62	Angularâ€Shaped 4,9â€Dialkyl Î±â€and Î²â€Naphthodithiopheneâ€Based Donorâ€“Acceptor Copolymers: Investigation of Isomeric Structural Effects on Molecular Properties and Performance of Fieldâ€Effect Transistors and Photovoltaics. Advanced Functional Materials, 2015, 25, 6131-6143.	7.8	49
63	A Highâ€Mobility Lowâ€Bandgap Copolymer for Efficient Solar Cells. Macromolecular Chemistry and Physics, 2010, 211, 2555-2561.	1.1	48
64	Optical and electrical properties of PPV/SiO2 and PPV/TiO2 composite materials. Composites Part A: Applied Science and Manufacturing, 2005, 36, 509-513.	3.8	47
65	Formation of nanostructures of hexaphenylsilole with enhanced color-tunable emissions. Chemical Physics Letters, 2006, 419, 444-449.	1.2	47
66	Diindenothieno[2,3-b]thiophene arene for efficient organic photovoltaics with an extra high open-circuit voltage of 1.14 ev. Chemical Communications, 2012, 48, 3203.	2.2	47
67	Morphological Stabilization by Supramolecular Perfluorophenylâ€C₆₀ Interactions Leading to Efficient and Thermally Stable Organic Photovoltaics. Advanced Functional Materials, 2014, 24, 1418-1429.	7.8	47
68	A Facile PDMSâ€Assisted Crystallization for the Crystalâ€Engineering of C₆₀ Singleâ€Crystal Organic Fieldâ€Effect Transistors. Advanced Materials, 2015, 27, 4371-4376.	11.1	46
69	Optical and electrical investigations of poly(p-phenylene vinylene)/silicon oxide and poly(p-phenylene) Tj ETQq1 1 0.784314 rgBT /Ove	0.8	45
70	Synthesis of liquid-crystalline polysiloxanes and polymethacrylates with broad temperature ranges of the chiral smectic C phase. Macromolecules, 1993, 26, 3161-3167.	2.2	43
71	A Supramolecular â€œDoubleâ€Cableâ€Structure with a 129₄₄ Helix in a Columnar Porphyrinâ€C₆₀ Dyad and its Application in Polymer Solar Cells. Advanced Energy Materials, 2012, 2, 1375-1382.	10.2	43
72	Solution-Processed Nanocomposites Containing Molybdenum Oxide and Gold Nanoparticles as Anode Buffer Layers in Plasmonic-Enhanced Organic Photovoltaic Devices. ACS Applied Materials & Interfaces, 2013, 5, 12419-12424.	4.0	43

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73	Haptacyclic Carbazole-Based Ladder-Type Nonfullerene Acceptor with Side-Chain Optimization for Efficient Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 42035-42042.	4.0	43
74	Investigations of organic light emitting diodes with CdSe(ZnS) quantum dots. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 307-311.	1.7	42
75	Increasing organic vertical carrier mobility for the application of high speed bilayered organic photodetector. Applied Physics Letters, 2009, 95, .	1.5	42
76	Exciplex Electroluminescence Induced by Cross-Linked Hole-Transporting Materials for White Light Polymer Light-Emitting Diodes. Macromolecules, 2011, 44, 5968-5976.	2.2	42
77	Self-Assembled Poly(ethylene glycol) Buffer Layers in Polymer Solar Cells: Toward Superior Stability and Efficiency. Journal of Physical Chemistry C, 2012, 116, 1354-1360.	1.5	42
78	Liquid crystalline polymers containing heterocycloalkane mesogens. 2. Side-chain liquid crystalline polysiloxanes containing 2,5-disubstituted-1,3-dioxane mesogens. Journal of Polymer Science Part A, 1987, 25, 2425-2445.	2.5	41
79	Liquid crystalline polymers containing heterocycloalkane mesogens. Polymer Bulletin, 1987, 17, 49-54.	1.7	41
80	Relaxation Dynamics and Structural Characterization of Organic Nanobelts with Aggregation-Induced Emission. Journal of Physical Chemistry C, 2012, 116, 15146-15154.	1.5	41
81	High birefringence lateral difluoro phenyl tolane liquid crystals. Liquid Crystals, 2010, 37, 139-147.	0.9	39
82	Synthesis of fluoreneâ€based hyperbranched polymers for solutionâ€processable blue, green, red, and white lightâ€emitting devices. Journal of Polymer Science Part A, 2012, 50, 696-710.	2.5	39
83	Induced Twisting in the Self-Assembly of Chiral Schiff-based Rodâ^'Coil Amphiphiles. Chemistry of Materials, 2006, 18, 352-359.	3.2	38
84	Role of the Comonomeric Units in Reaching Linear Backbone, High Solid-State Order and Charge Mobilities in Heptacyclic Arene-Based Alternating Copolymers. Macromolecules, 2013, 46, 7687-7695.	2.2	38
85	Solutionâ€Processed (Graphene Oxide)â€"(d⁰ Transition Metal Oxide) Composite Anodic Buffer Layers toward Highâ€Performance and Durable Inverted Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 1279-1285.	10.2	38
86	Synthesis and mesomorphic properties of super high birefringence isothiocyanato bistolane liquid crystals. Liquid Crystals, 2007, 34, 507-517.	0.9	37
87	High-efficiency blue multilayer polymer light-emitting diode fabricated by a general liquid buffer method. Synthetic Metals, 2008, 158, 130-134.	2.1	37
88	Highly Efficient Inverted D:A1:A2 Ternary Blend Organic Photovoltaics Combining a Ladder-type Non-Fullerene Acceptor and a Fullerene Acceptor. ACS Applied Materials & Interfaces, 2017, 9, 24797-24803.	4.0	36
89	Isomerically Pure Benzothiophene-Incorporated Acceptor: Achieving Improved V_{oc} and J_{sc} of Nonfullerene Organic Solar Cells via End Group Manipulation. ACS Applied Materials & Interfaces, 2019, 11, 33179-33187.	4.0	36
90	Hierarchical Superstructures with Control of Helicity from the Selfâ€Assembly of Chiral Bentâ€Core Molecules. Chemistry - A European Journal, 2012, 18, 9091-9098.	1.7	35

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91	A crosslinked fullerene matrix doped with an ionic fullerene as a cathodic buffer layer toward high-performance and thermally stable polymer and organic metallohalide perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 20382-20388.	5.2	35
92	Thiophene and diketopyrrolopyrrole based conjugated polymers as efficient alternatives to spiro-OMeTAD in perovskite solar cells as hole transporting layers. Journal of Materials Chemistry C, 2017, 5, 5193-5198.	2.7	35
93	Preparation of liquid-crystal thermosets:In situ photopolymerization of oriented liquid-crystal diacrylates. Journal of Polymer Science Part A, 1999, 37, 3929-3935.	2.5	34
94	Synthesis of laterally substituted bistolane liquid crystals. Liquid Crystals, 2000, 27, 283-287.	0.9	34
95	Patterning-free integration of polymer light-emitting diode and polymer transistor. Applied Physics Letters, 2004, 84, 3558-3560.	1.5	34
96	Novel dendritic light-emitting materials containing polyhedral oligomeric silsesquioxanes core. Thin Solid Films, 2006, 514, 103-109.	0.8	34
97	Electron transport and electroluminescent efficiency of conjugated polymers. Synthetic Metals, 2009, 159, 137-141.	2.1	34
98	Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Crossâ€Linkable Fullerene Derivative. Small, 2021, 17, e2101133.	5.2	34
99	Synthesis and light emitting properties of sulfide-containing polyfluorenes and their nanocomposites with CdSe nanocrystals: A simple process toÂsuppress keto-defect. Polymer, 2007, 48, 116-128.	1.8	33
100	Alternating copolymers incorporating cyclopenta[2,1â€‹b‹/i›:3,4â€‹b‹/i›â€²]dithiophene unit and organic dyes for photovoltaic applications. Journal of Polymer Science Part A, 2011, 49, 1791-1801.	2.5	33
101	Nonâ€Volatile Perfluorophenylâ€Based Additive for Enhanced Efficiency and Thermal Stability of Nonfullerene Organic Solar Cells via Supramolecular Fluorinated Interactions. Advanced Energy Materials, 2022, 12, .	10.2	33
102	Analysis of metal ion impurities in liquid crystals using high resolution inductively coupled plasma mass spectrometry. Analytical Methods, 2012, 4, 3631.	1.3	32
103	Synthesis and light emitting properties of polyacetylenes having pendent fluorene groups. Journal of Polymer Science Part A, 2006, 44, 519-531.	2.5	31
104	Complex Columnar Hexagonal Polymorphism in Supramolecular Assemblies of a Semifluorinated Electron-Accepting Naphthalene Bisimide. Journal of the American Chemical Society, 2015, 137, 807-819.	6.6	31
105	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. ACS Applied Materials & Interfaces, 2019, 11, 31069-31077.	4.0	31
106	Angular-Shaped 4,9-Dialkylnaphthodithiophene-Based Donorâ€“Acceptor Copolymers for Efficient Polymer Solar Cells and High-Mobility Field-Effect Transistors. Macromolecules, 2015, 48, 2030-2038.	2.2	30
107	Room Temperature Bis-tolane Liquid Crystals. Japanese Journal of Applied Physics, 1999, 38, L286-L288.	0.8	29
108	Enhancing the thermal and spectral stabilities of polyfluorene-based blue-light-emitting materials by incorporating pendent spiro-cycloalkyl groups. Polymer, 2004, 45, 4257-4263.	1.8	29

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109	Synthesis and electroluminescence properties of whiteâ€light single polyfluorenes with highâ€molecular weight by click reaction. Journal of Polymer Science Part A, 2011, 49, 3355-3365.	2.5	29
110	Cross-linked Triarylamine-Based Hole-Transporting Layer for Solution-Processed PEDOT:PSS-Free Inverted Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21466-21471.	4.0	29
111	Fluorinated diphenylâ€diacetylene and tolane liquid crystals with low threshold voltage. Applied Physics Letters, 1992, 61, 2275-2277.	1.5	28
112	Variation of Helical Twisting Power in Self-Assembled Sugar-Appended Schiff Base Chiral Rodâ^'Coil Amphiphiles. Chemistry of Materials, 2008, 20, 1404-1409.	3.2	28
113	Synthesis and characterization of liquid crystalline polyacrylates and polymethacrylates containing benzyl ether and diphenyl ethane based mesogens. Journal of Polymer Science Part A, 1989, 27, 453-466.	2.5	27
114	Synthesis and thermal behavior of side-chain liquid crystalline polymethacrylates containing tolane-based mesogenic side groups. Journal of Polymer Science Part A, 1994, 32, 1077-1085.	2.5	27
115	Physical Properties of Polar Bis-Tolane Liquid Crystals. Japanese Journal of Applied Physics, 2000, 39, L38-L41.	0.8	27
116	Potential liquid crystal mixtures for Co2laser application. Applied Physics Letters, 1994, 64, 1204-1206.	1.5	26
117	Novel Poly(2,3-diphenyl-1,4-phenylenevinylene) Derivatives Containing Long Branched Alkoxy and Fluorenyl Substituents:Â Synthesis, Characterization, and Their Applications for Polymer Light-Emitting Diodes. Macromolecules, 2005, 38, 8617-8624.	2.2	26
118	Alternating and Diblock Donorâ€“Acceptor Conjugated Polymers Based on Diindeno[1,2â€b:2â€²,1â€²â€d]thiophene Structure: Synthesis, Characterization, and Photovoltaic Applications. Chemistry - an Asian Journal, 2010, 5, 2483-2492.	1.7	26
119	A new ladder-type benzodi(cyclopentadithiophene)-based donorâ€“acceptor polymer and a modified hole-collecting PEDOT:PSS layer to achieve tandem solar cells with an open-circuit voltage of 1.62 V. Chemical Communications, 2013, 49, 7702.	2.2	26
120	Poly(2,3-diphenylphenylene vinylene) Derivatives Having Liquid Crystalline Side Groups. Chemistry of Materials, 2000, 12, 2741-2744.	3.2	25
121	Polymer hot-carrier transistor with low bandgap emitter. Applied Physics Letters, 2008, 92, .	1.5	25
122	Synthesis and characterization of thiophene-containing liquid crystals. Liquid Crystals, 2000, 27, 1503-1513.	0.9	24
123	Two-Dimensional Densely Packed DNA Nanostructure Derived from DNA Complexation with a Low-Generation Poly(amidoamine) Dendrimer. Langmuir, 2007, 23, 975-978.	1.6	24
124	Traps and performance of MEH-PPV/CdSe(ZnS) nanocomposite-based organic light-emitting diodes. Nanotechnology, 2008, 19, 455202.	1.3	24
125	Synthesis and Electroluminescent Properties of Disubstituted Polyacetylene Derivatives Containing Multiâ€Fluorophenyl and Cyclohexylphenyl Side Groups. Macromolecular Chemistry and Physics, 2009, 210, 37-47.	1.1	24
126	Electric Field Effects on Photoluminescence of Polyfluorene Thin Films: Dependence on Excitation Wavelength, Field Strength, and Temperature. Journal of Physical Chemistry C, 2009, 113, 11907-11915.	1.5	24

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127	Polymer Infrared Proximity Sensor Array. IEEE Transactions on Electron Devices, 2011, 58, 1215-1220.	1.6	24
128	A New Ladder-Type Germanium-Bridged Dithienocarbazole Arene and Its Donorâ€“Acceptor Conjugated Copolymers: Synthesis, Molecular Properties, and Photovoltaic Applications. Macromolecules, 2014, 47, 7386-7396.	2.2	24
129	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.	2.7	24
130	Bispentafluorophenyl-Containing Additive: Enhancing Efficiency and Morphological Stability of Polymer Solar Cells via Hand-Grabbing-Like Supramolecular Pentafluorophenylâ€“Fullerene Interactions. ACS Applied Materials & Interfaces, 2017, 9, 43861-43870.	4.0	24
131	Deep blue light-emitting diode based on high molecular weight poly(9,9-dioctylfluorene) with high efficiency and color stability. Organic Electronics, 2008, 9, 279-284.	1.4	23
132	Screening Libraries of Semifluorinated Arylene Bisimides to Discover and Predict Thermodynamically Controlled Helical Crystallization. ACS Combinatorial Science, 2016, 18, 723-739.	3.8	23
133	Exploring Ternary Organic Solar Cells for the Improved Efficiency of 16.5% with the Compatible Nonacyclic Carbazole-Based Nonfullerene Acceptors as the Third Component. ACS Applied Energy Materials, 2021, 4, 2847-2855.	2.5	23
134	Synthesis and characterization of liquid crystalline copolymethacrylates, copolyacrylates, and copolysiloxanes containing 4-methoxy-4â€²-hydroxy-l±-methylstilbene and 4-hydroxy-4â€²-methoxy-l±-methylstilbene constitutional isomers as side-groups. Journal of Polymer Science Part A, 1988, 26, 2047-2076.	2.5	22
135	Helical Morphologies of Thermotropic Liquid-Crystalline Chiral Schiff-Based Rodâ^'Coil Amphiphiles. Chemistry of Materials, 2006, 18, 5510-5519.	3.2	22
136	Polymer photodetector with voltage-adjustable photocurrent spectrum. Applied Physics Letters, 2010, 96, .	1.5	22
137	Dithienocyclopentathieno[3,2â€b]thiophene Hexacyclic Arene for Solutionâ€Processed Organic Fieldâ€Effect Transistors and Photovoltaic Applications. Chemistry - an Asian Journal, 2012, 7, 818-825.	1.7	22
138	A New sp²â€sp² Dialkylethyleneâ€Bridged Heptacyclic Ladderâ€Type Arene for High Efficiency Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 457-465.	10.2	22
139	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. Polymer Chemistry, 2014, 5, 6472-6479.	1.9	22
140	Effects of end-on oriented polymer chains at the donor/acceptor interface in organic solar cells. Journal of Materials Chemistry A, 2018, 6, 22889-22898.	5.2	22
141	One-polymer active pixel. Applied Physics Letters, 2004, 84, 619-621.	1.5	21
142	Hierarchical Superstructures with Helical Sense in Selfâ€Assembled Achiral Bananaâ€Shaped Liquid Crystalline Molecules. Advanced Functional Materials, 2008, 18, 3386-3394.	7.8	21
143	Synthesis of thermalâ€stable and photoâ€crosslinkable polyfluorenes for the applications of polymer lightâ€emitting diodes. Journal of Polymer Science Part A, 2010, 48, 516-524.	2.5	21
144	A Pentacyclic Nitrogenâ€Bridged Thienylâ€“Phenyleneâ€“Thienyl Arene for Donorâ€“Acceptor Copolymers: Synthesis, Characterization, and Applications in Fieldâ€Effect Transistors and Polymer Solar Cells. Chemistry - an Asian Journal, 2012, 7, 2102-2110.	1.7	21

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