

Luping Yu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synergy between Photoluminescence and Charge Transport Achieved by Finely Tuning Polymeric Backbones for Efficient Light-Emitting Transistor. <i>Journal of the American Chemical Society</i> , 2021, 143, 5239-5246.	6.6	31
2	The Role of the Core Attachment Positioning in Triggering Intramolecular Singlet Exciton Fission in Perylene Diimide Tetramers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5114-5131.	1.2	9
3	Design of High-Performance Organic Light-Emitting Transistors. <i>ACS Omega</i> , 2020, 5, 68-74.	1.6	32
4	Molecular Control of Charge Carrier and Seebeck Coefficient in Hybrid Two-Dimensional Nanoparticle Superlattices. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17-24.	1.5	7
5	Highly Emissive Semi-Ladder-Type Copolymers, Aggregation State, and Solution-Processed Organic Light-Emitting Transistor. <i>Chemistry of Materials</i> , 2020, 32, 4672-4680.	3.2	17
6	Finely Designed P3HT-Based Fully Conjugated Graft Polymer: Optical Measurements, Morphology, and the Faraday Effect. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30856-30861.	4.0	3
7	BODIPY-Containing Polymers with Ultralow Band Gaps and Ambipolar Charge Mobilities. <i>Macromolecules</i> , 2020, 53, 2014-2020.	2.2	18
8	Photophysical implications of ring fusion, linker length, and twisting angle in a series of perylenediimide-thienoacene dimers. <i>Chemical Science</i> , 2020, 11, 7133-7143.	3.7	6
9	Photoinduced cationic polycondensation in solid state towards ultralow band gap conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7026-7033.	2.7	10
10	Intra-molecular Charge Transfer and Electron Delocalization in Non-fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10043-10052.	4.0	24
11	Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie</i> , 2018, 130, 6552-6558.	1.6	7
12	Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6442-6448.	7.2	54
13	Enhancement in Open-Circuit Voltage in Organic Solar Cells by Using Ladder-Type Nonfullerene Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13528-13533.	4.0	28
14	Frontispiz: Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie</i> , 2018, 130, .	1.6	0
15	Frontispiece: Molecular Design towards Controlling Charge Transport. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
16	Frontispiece: Synthesis of Alternating Donor-Acceptor Ladder-Type Molecules and Investigation of Their Multiple Charge-Transfer Pathways. <i>Angewandte Chemie - International Edition</i> , 2018, 57, .	7.2	1
17	An Electromechanical Approach to Understanding Binding Configurations in Single-Molecule Devices. <i>Nano Letters</i> , 2018, 18, 6638-6644.	4.5	26
18	Investigations of Thienoacene Molecules for Classical and Entangled Two-Photon Absorption. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8167-8182.	1.1	24

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19	Exploration of Syntheses and Functions of Higher Ladder-type π -Conjugated Heteroacenes. <i>Chem</i> , 2018, 4, 2538-2570.	5.8	85
20	Inhomogeneity of the Ultrafast Excited State Dynamics in Organic Photovoltaic Materials Measured at Nanoscale. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22201-22209.	1.5	6
21	High Performance Ternary Organic Solar Cells due to Favored Interfacial Connection by a Non-Fullerene Electron Acceptor with Cross-Like Molecular Geometry. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11305-11311.	1.5	16
22	Molecular Design towards Controlling Charge Transport. <i>Chemistry - A European Journal</i> , 2018, 24, 17180-17187.	1.7	2
23	Charge Transfer and Aggregation Effects on the Performance of Planar vs Twisted Nonfullerene Acceptor Isomers for Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4263-4276.	3.2	49
24	Propeller-Shaped Acceptors for High-Performance Non-Fullerene Solar Cells: Importance of the Rigidity of Molecular Geometry. <i>Chemistry of Materials</i> , 2017, 29, 1127-1133.	3.2	83
25	A Single-Molecular AND Gate Operated with Two Orthogonal Switching Mechanisms. <i>Advanced Materials</i> , 2017, 29, 1701248.	11.1	41
26	Morphological characterization of fullerene and fullerene-free organic photovoltaics by combined real and reciprocal space techniques. <i>Journal of Materials Research</i> , 2017, 32, 1921-1934.	1.2	28
27	Molecular Rectification Tuned by Through-Space Gating Effect. <i>Nano Letters</i> , 2017, 17, 308-312.	4.5	56
28	Two Photon Absorption Study of Low-Bandgap, Fully Conjugated Perylene Diimide-Thienoacene-Perylene Diimide Ladder-Type Molecules. <i>Chemistry of Materials</i> , 2017, 29, 6726-6732.	3.2	55
29	Photocatalysts Based on Cobalt-Chelating Conjugated Polymers for Hydrogen Evolution from Water. <i>Chemistry of Materials</i> , 2016, 28, 5394-5399.	3.2	81
30	Controlled Self-Assembly of Cyclophane Amphiphiles: From 1D Nanofibers to Ultrathin 2D Topological Structures. <i>Macromolecules</i> , 2016, 49, 5172-5178.	2.2	11
31	Covalently Bound Clusters of Alpha-Substituted PDI-Rival Electron Acceptors to Fullerene for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 7248-7251.	6.6	377
32	Photophysical and Morphological Implications of Single-Strand Conjugated Polymer Folding in Solution. <i>Chemistry of Materials</i> , 2016, 28, 2814-2822.	3.2	76
33	Exceptional Single-Molecule Transport Properties of Ladder-Type Heteroacene Molecular Wires. <i>Journal of the American Chemical Society</i> , 2016, 138, 10630-10635.	6.6	76
34	Beyond Molecular Wires: Design Molecular Electronic Functions Based on Dipolar Effect. <i>Accounts of Chemical Research</i> , 2016, 49, 1852-1863.	7.6	60
35	Donor-Acceptor Porous Conjugated Polymers for Photocatalytic Hydrogen Production: The Importance of Acceptor Comonomer. <i>Macromolecules</i> , 2016, 49, 6903-6909.	2.2	129
36	Rational Design of Porous Conjugated Polymers and Roles of Residual Palladium for Photocatalytic Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2016, 138, 7681-7686.	6.6	364

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37	Proton-triggered switch based on a molecular transistor with edge-on gate. <i>Chemical Science</i> , 2016, 7, 3137-3141.	3.7	45
38	Electron Acceptors Based on $\hat{\pm}$ -Substituted Perylene Diimide (PDI) for Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 1139-1146.	3.2	187
39	Synthesis of Ladder-Type Thienoacenes and Their Electronic and Optical Properties. <i>Journal of the American Chemical Society</i> , 2016, 138, 868-875.	6.6	84
40	Wide bandgap OPV polymers based on pyridinonedithiophene unit with efficiency $\geq 5\%$. <i>Chemical Science</i> , 2015, 6, 4860-4866.	3.7	35
41	High-performance ternary blend polymer solar cells involving both energy transfer and hole relay processes. <i>Nature Communications</i> , 2015, 6, 7327.	5.8	422
42	Mechanistic Studies of Effect of Dispersity on the Photovoltaic Performance of PTB7 Polymer Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 537-543.	3.2	84
43	Solution Phase Exciton Diffusion Dynamics of a Charge-Transfer Copolymer PTB7 and a Homopolymer P3HT . <i>Journal of Physical Chemistry B</i> , 2015, 119, 7447-7456.	1.2	22
44	Optical, Electrical, and Magnetic Studies of Organic Solar Cells Based on Low Bandgap Copolymer with Spin $\dot{A}^{1/2}$ Radical Additives. <i>Advanced Functional Materials</i> , 2015, 25, 1895-1902.	7.8	45
45	Edge-on Gating Effect in Molecular Wires. <i>Nano Letters</i> , 2015, 15, 958-962.	4.5	43
46	Recent Advances in Bulk Heterojunction Polymer Solar Cells. <i>Chemical Reviews</i> , 2015, 115, 12666-12731.	23.0	2,308
47	Effect of Acceptor Strength on Optical and Electronic Properties in Conjugated Polymers for Solar Applications. <i>Journal of the American Chemical Society</i> , 2015, 137, 5759-5769.	6.6	35
48	Photovoltaic Function and Exciton/Charge Transfer Dynamics in a Highly Efficient Semiconducting Copolymer. <i>Advanced Functional Materials</i> , 2014, 24, 10-26.	7.8	134
49	How to design low bandgap polymers for highly efficient organic solar cells. <i>Materials Today</i> , 2014, 17, 11-15.	8.3	209
50	Tuning the Polarizability in Donor Polymers with a Thiophenesaccharin Unit for Organic Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2014, 24, 3432-3437.	7.8	34
51	Roles of Quinoidal Character and Regioregularity in Determining the Optoelectronic and Photovoltaic Properties of Conjugated Copolymers. <i>Macromolecules</i> , 2014, 47, 6252-6259.	2.2	40
52	Ternary blend polymer solar cells with enhanced power conversion efficiency. <i>Nature Photonics</i> , 2014, 8, 716-722.	15.6	601
53	Synthesis and Search for Design Principles of New Electron Accepting Polymers for All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 3450-3459.	3.2	100
54	Effects of Exciton Polarity in Charge-Transfer Polymer/PCBM Bulk Heterojunction Films. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1856-1863.	2.1	33

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55	Visualization of Hierarchical Nanodomains in Polymer/Fullerene Bulk Heterojunction Solar Cells. <i>Microscopy and Microanalysis</i> , 2014, 20, 1507-1513.	0.2	11
56	Organic Photovoltaics: Photovoltaic Function and Exciton/Charge Transfer Dynamics in a Highly Efficient Semiconducting Copolymer (<i>Adv. Funct. Mater.</i> 1/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2-2.	7.8	0
57	Polyselenopheno[3,4- <i>b</i>]selenophene for Highly Efficient Bulk Heterojunction Solar Cells. <i>ACS Macro Letters</i> , 2012, 1, 361-365.	2.3	120
58	Transport Properties of a Single-Molecule Diode. <i>ACS Nano</i> , 2012, 6, 4931-4939.	7.3	143
59	Nanoporous Porphyrin Polymers for Gas Storage and Separation. <i>Macromolecules</i> , 2012, 45, 7413-7419.	2.2	108
60	Incremental optimization in donor polymers for bulk heterojunction organic solar cells exhibiting high performance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1057-1070.	2.4	29
61	Overcoming efficiency challenges in organic solar cells: rational development of conjugated polymers. <i>Energy and Environmental Science</i> , 2012, 5, 8158.	15.6	189
62	Mediating Solar Cell Performance by Controlling the Internal Dipole Change in Organic Photovoltaic Polymers. <i>Macromolecules</i> , 2012, 45, 6390-6395.	2.2	138
63	Intramolecular Hydrogen Bonding Assisted Charge Transport through Single Rectifying Molecule. <i>Langmuir</i> , 2011, 27, 2084-2087.	1.6	14
64	Are we there yet? Design of better conjugated polymers for polymer solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 18934.	6.7	156
65	Dipolar and electronic effects on charge transport through single transition metal complexes. <i>Science China Chemistry</i> , 2011, 54, 410-414.	4.2	7
66	Length-dependent self-assembly of oligothiophene derivatives in thin films. <i>Journal of Materials Research</i> , 2011, 26, 296-305.	1.2	4
67	Disposable organic fluorescence biosensor for water pollution monitoring. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1358, 50301.	0.1	0
68	Nanoporous Polyporphyrin as Adsorbent for Hydrogen Storage. <i>Macromolecules</i> , 2010, 43, 3325-3330.	2.2	84
69	Development of Semiconducting Polymers for Solar Energy Harvesting. <i>Polymer Reviews</i> , 2010, 50, 454-473.	5.3	110
70	Polymer solar cells with enhanced open-circuit voltage and efficiency. <i>Nature Photonics</i> , 2009, 3, 649-653.	15.6	3,015
71	Structure and dynamics correlations of photoinduced charge separation in rigid conjugated linear donor-acceptor dyads towards photovoltaic applications. <i>New Journal of Chemistry</i> , 2009, 33, 1497.	1.4	25
72	Conjugated block copolymers and co-oligomers: from supramolecular assembly to molecular electronics. <i>Journal of Materials Chemistry</i> , 2007, 17, 2183.	6.7	75

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73	Structural Evolution and Alignment of Cylinder-Forming PS-b-PEP Thin Films in Confinement Studied by Time-Lapse Atomic Force Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2004, 854, U11.17.1.	0.1	0
74	Fine-tuning photorefractive properties of monolithic molecular materials. <i>Applied Physics Letters</i> , 2003, 82, 3385-3387.	1.5	14
75	Synthesis and Structure/Property Correlation of Fully Functionalized Photorefractive Polymers. <i>Macromolecules</i> , 2002, 35, 4636-4645.	2.2	37
76	Chemoselective Immobilization of Gold Nanoparticles onto Self-Assembled Monolayers. <i>Langmuir</i> , 2002, 18, 311-313.	1.6	59
77	Synthesis of Amphiphilic Conjugated Diblock Oligomers as Molecular Diodes. <i>Angewandte Chemie</i> , 2002, 114, 3750-3753.	1.6	20
78	Synthesis of Amphiphilic Conjugated Diblock Oligomers as Molecular Diodes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3598-3601.	7.2	127
79	Efficient molecular photorefractive materials based on methine dyes. <i>Applied Physics Letters</i> , 2001, 78, 700-702.	1.5	31
80	Lessons learned from research on photorefractive polymers and molecular materials. <i>Journal of Polymer Science Part A</i> , 2001, 39, 2557-2564.	2.5	17
81	PICOSECOND OPTICAL LIMITING PERFORMANCE OF A NOVEL PPV-ZnPc CONJUGATED POLYMER. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2000, 09, 289-296.	1.1	2
82	Conjugated Polymers Containing Mixed-Ligand Ruthenium(II) Complexes. Synthesis, Characterization, and Investigation of Photoconductive Properties. <i>Journal of the American Chemical Society</i> , 2000, 122, 11806-11811.	6.6	69
83	Novel Photorefractive Materials Based on Multifunctional Organic Glasses. <i>ACS Symposium Series</i> , 1999, , 226-236.	0.5	1
84	Progress in Fully Functionalized Photorefractive Materials. <i>Materials Research Society Symposia Proceedings</i> , 1999, 597, 203.	0.1	0
85	A Multifunctional Photorefractive Material Showing High Optical Gain and Diffraction Efficiency. <i>Advanced Materials</i> , 1998, 10, 927-931.	11.1	24
86	Effect of a local electric field on photogeneration efficiency in a photorefractive polymer. <i>Applied Physics Letters</i> , 1998, 73, 2546-2548.	1.5	6
87	Synthesis of Thioester End-Functionalized Poly(ϵ -caprolactone) and Its Application in Chemoselective Ligation. <i>ACS Symposium Series</i> , 1998, , 92-104.	0.5	0
88	Investigation of the Liquid Crystalline \rightarrow Isotropic Phase Transition in Oligo(phenylenevinylene) with Alkyl Side Chains. <i>Macromolecules</i> , 1997, 30, 6274-6279.	2.2	7
89	Synthesis and Characterization of Diblock Copolymers Containing Oligothiophenes with Defined Regiospecificity and Molecular Weights. <i>Macromolecules</i> , 1996, 29, 7329-7334.	2.2	75
90	Multifunctional Polymers Exhibiting Photorefractive Effects. <i>Accounts of Chemical Research</i> , 1996, 29, 13-21.	7.6	108

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91	Hybridized approach to new polymers exhibiting large photorefractivity. Applied Physics Letters, 1996, 69, 4002-4004.	1.5	31
92	Novel second-order nonlinear optical, aromatic, and aliphatic polyimides exhibiting high-temperature stability. Applied Physics Letters, 1995, 66, 1050-1052.	1.5	22
93	Conjugated photorefractive polymer. Applied Physics Letters, 1994, 64, 2489-2491.	1.5	29
94	Conjugated, Liquid Crystalline Polymers. Angewandte Chemie International Edition in English, 1993, 32, 1345-1347.	4.4	35
95	Rational Designs of Multifunctional Polymers-Conjugated Photorefractive Polymers. Materials Research Society Symposia Proceedings, 1993, 328, 63.	0.1	2
96	Ladder polymers: recent developments in syntheses, characterization, and potential applications as electronic and optical materials. Chemistry of Materials, 1990, 2, 649-659.	3.2	128
97	Donor-Acceptor Conjugated Copolymers Containing Transition-Metal Complex: Intrachain Magnetic Exchange Interactions and Magneto-Optical Activity. Chemistry of Materials, 0, , .	3.2	2