

# Yu-Ying Lai

## List of Publications by Year in descending order

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56  
papers

1,478  
citations

304602

22  
h-index

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37  
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57  
all docs

57  
docs citations

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times ranked

2146  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 12, .	10.2	33
2	Chromatic Fulleropyrrolidine as Long-Lived Metal-Free Catalyst for CO <sub>2</sub> Photoreduction Reaction. <i>ChemSusChem</i> , 2022, 15, .	3.6	4
3	Non-volatile Perfluorophenyl-Based Additive for Enhanced Efficiency and Thermal Stability of Nonfullerene Organic Solar Cells via Supramolecular Fluorinated Interactions (Adv. Energy Mater.)	1.0784314	1/Overloc
4	Stable and Exclusive Formation of CO from CO <sub>2</sub> Photoreduction with H <sub>2</sub> O Facilitated by Linear Fluorene and Naphthalene Diimide-Based Conjugated Polymers. <i>ACS Applied Polymer Materials</i> , 2022, 4, 521-526.	2.0	5
5	Regulate the Electron Mobility and Threshold Voltage of P(NDI2OD-T2)-Based Organic Field-Effect Transistors by the Compatibility Principle. <i>Advanced Electronic Materials</i> , 2021, 7, 2000939.	2.6	7
6	Strengthening the Intrachain Interconnection of Polymers by the Naphthalene Diimide-Pyrene Complementary Interactions. <i>Macromolecules</i> , 2021, 54, 7282-7290.	2.2	4
7	A Fischer-Type Ruthenium Carbene Complex as a Metathesis Catalyst for the Synthesis of Enol Ethers. <i>Journal of Organic Chemistry</i> , 2021, 86, 17629-17639.	1.7	4
8	Microplasma-enabled nanocarbon assembly for the diameter-selective synthesis of colloidal graphene quantum dots. <i>Chemical Communications</i> , 2020, 56, 10365-10368.	2.2	10
9	Establishment of the Interconnectivity among P(NDI2OD-T2)s in Organic Field-Effect Transistors by Non-Conjugated Crystalline Polymers. <i>Macromolecules</i> , 2020, 53, 10349-10356.	2.2	9
10	Two-Dimensional Tetrathienonaphthalenes-Based Donor-Acceptor Copolymers: Synthesis, Isomeric Effect, and Organic Field-Effect Transistors. <i>Macromolecules</i> , 2020, 53, 7740-7748.	2.2	7
11	Synthesis of side-chain regioregular and main-chain alternating poly(bichalcogenophene)s and an ABC-type periodic poly(terchalcogenophene). <i>Chemical Science</i> , 2020, 11, 3836-3844.	3.7	17
12	Aqueous Palladium-Catalyzed Direct Arylation Polymerization of 2-Bromothiophene Derivatives. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000021.	2.0	13
13	In vitro and In silico Studies on the Base Effect in Palladium-Catalyzed Direct Arylation. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 296-302.	1.3	2
14	Further Examination of Interconnection in Conjugated Polymers for Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900213.	2.6	13
15	Stereospecific Synthesis of Poly(methylene-E-vinylene) by Ring Opening Metathesis Polymerization of Substituted Cyclopropene Using Grubbs Catalysts. <i>Macromolecules</i> , 2019, 52, 7749-7755.	2.2	12
16	Regio- and stereo-selective [4+4] photodimerization of angular-shaped dialkyltetracenedithiophene. <i>Chemical Communications</i> , 2019, 55, 381-384.	2.2	3
17	Synthesis of Two-Dimensional Terbenzodithiophene-based Derivative by Palladium-catalyzed C <sub>6</sub> H <sub>4</sub> Benzannulation and Its Donor-Acceptor Copolymers for Organic Photovoltaics. <i>Journal of the Chinese Chemical Society</i> , 2018, 65, 133-140.	0.8	1
18	Synthesis of unsymmetrical benzotrithalcoenophenes by N-heterocyclic carbene-palladium-catalyzed intramolecular direct C <sub>3</sub> -arylation of chalcogenophenes. <i>Chemical Communications</i> , 2018, 54, 1517-1520.	2.2	15

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19	Stacking Principles on $\pi$ - and Lamellar Stacking for Organic Semiconductors Evaluated by Energy Decomposition Analysis. <i>ACS Omega</i> , 2018, 3, 18656-18662.	1.6	29
20	Side-chain modulation of dithienofluorene-based copolymers to achieve high field-effect mobilities. <i>Chemical Science</i> , 2017, 8, 2942-2951.	3.7	46
21	Synthesis and side-chain isomeric effect of 4,9-/5,10-dialkylated- $\beta^2$ -angular-shaped naphthodithiophenes-based donor-acceptor copolymers for polymer solar cells and field-effect transistors. <i>Polymer Chemistry</i> , 2017, 8, 2334-2345.	1.9	20
22	Bispentafluorophenyl-Containing Additive: Enhancing Efficiency and Morphological Stability of Polymer Solar Cells via Hand-Grabbing-Like Supramolecular Pentafluorophenyl- $\pi$ -Fullerene Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43861-43870.	4.0	24
23	Intuitive Quantifiers of Charge Flows in Coordinate Bonding. <i>Organometallics</i> , 2017, 36, 3205-3214.	1.1	19
24	Synthesis, characterization, and photovoltaic applications of donor-acceptor alternating and random copolymers based on a ladder-type nonacyclic structure. <i>Reactive and Functional Polymers</i> , 2016, 108, 113-121.	2.0	3
25	Self-assembled tri-, tetra- and penta-ethylene glycols as easy, expedited and universal interfacial cathode-modifiers for inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8707-8715.	5.2	15
26	Synthesis of a 4,9-Didodecyl Angular-Shaped Naphthodiselenophene Building Block To Achieve High-Mobility Transistors. <i>Chemistry of Materials</i> , 2016, 28, 5121-5130.	3.2	60
27	Synthesis, molecular and photovoltaic/transistor properties of heptacyclic ladder-type di(thienobenzo)fluorene-based copolymers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11427-11435.	2.7	11
28	Synthesis and field-effect transistor properties of a diseleno[3,2-b:2',3'-d]silole-based donor-acceptor copolymer: investigation of chalcogen effect. <i>Polymer Chemistry</i> , 2016, 7, 4654-4660.	1.9	10
29	Synthesis and Isomeric Effects of Ladder-Type Alkylated Terbenzodithiophene Derivatives. <i>Journal of Organic Chemistry</i> , 2016, 81, 2534-2542.	1.7	17
30	Synthesis and Molecular Properties of Two Isomeric Dialkylated Tetrathienonaphthalenes. <i>Organic Letters</i> , 2016, 18, 368-371.	2.4	15
31	Angular-Shaped 4,9-Dialkyl $\beta^2$ - and $\beta^2$ -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> , 2015, 25, 6131-6143.	7.8	49
32	One-pot selective synthesis of a fullerene bisadduct for organic solar cell applications. <i>Chemical Communications</i> , 2015, 51, 9837-9840.	2.2	20
33	Electroactive and Photoactive Poly[Isosindigo- <i>alt</i> -EDOT] Synthesized Using Direct (Hetero)Arylation Polymerization in Batch and in Continuous Flow. <i>Chemistry of Materials</i> , 2015, 27, 2137-2143.	3.2	75
34	Triarylamine-based crosslinked hole-transporting material with an ionic dopant for high-performance PEDOT:PSS-free polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6158-6165.	2.7	24
35	Synthesis of Poly(3-hexylthiophene), Poly(3-hexylselenophene), and Poly(3-hexylselenophene- <i>alt</i> -3-hexylthiophene) by Direct C-H Arylation Polymerization via N-Heterocyclic Carbene Palladium Catalysts. <i>Macromolecules</i> , 2015, 48, 2978-2988.	2.2	37
36	Angular-Shaped 4,10-Dialkylanthradiselenophene and Its Donor-Acceptor Conjugated Polymers: Synthesis, Physical, Transistor, and Photovoltaic Properties. <i>Macromolecules</i> , 2015, 48, 6994-7006.	2.2	22

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37	Solar Cells: Morphological Stabilization by Supramolecular Perfluorophenyl-C <sub>60</sub> Interactions Leading to Efficient and Thermally Stable Organic Photovoltaics (Adv. Funct. Mater. 10/2014). Advanced Functional Materials, 2014, 24, 1492-1492.	7.8	0
38	Applications of functional fullerene materials in polymer solar cells. Energy and Environmental Science, 2014, 7, 1866.	15.6	174
39	Reducing Regioisomers of Fullerene-Bisadducts by Tether-Directed Remote Functionalization: Investigation of Electronically and Sterically Isomeric Effects on Bulk-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 996-1004.	4.0	28
40	Morphological Stabilization by Supramolecular Perfluorophenyl-C <sub>60</sub> Interactions Leading to Efficient and Thermally Stable Organic Photovoltaics. Advanced Functional Materials, 2014, 24, 1418-1429.	7.8	47
41	Synthesis and Supramolecular Assembly of Pentacyclic Dithienofluorene and Diselenophenofluorene Derivatives. Organic Letters, 2014, 16, 936-939.	2.4	21
42	A New Ladder-Type Germanium-Bridged Dithienocarbazole Arene and Its Donor-Acceptor Conjugated Copolymers: Synthesis, Molecular Properties, and Photovoltaic Applications. Macromolecules, 2014, 47, 7386-7396.	2.2	24
43	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
44	Synthesis and Molecular Properties of Tricyclic Biselenophene-Based Derivatives with Nitrogen, Silicon, Germanium, Vinylidene, and Ethylene Bridges. Organic Letters, 2014, 16, 5724-5727.	2.4	33
45	Synthesis, Molecular and Photovoltaic Properties of an Indolo[3,2-b]indole-Based Acceptor-Donor-Acceptor Small Molecule. European Journal of Organic Chemistry, 2013, 2013, 5076-5084.	1.2	41
46	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. Chemical Communications, 2013, 49, 7702.	2.2	26
47	Synthesis and Molecular Properties of Four Isomeric Dialkylated Angular-Shaped Naphthodithiophenes. Organic Letters, 2013, 15, 5338-5341.	2.4	47
48	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. Macromolecules, 2013, 46, 7715-7726.	2.2	59
49	Synthesis, photophysical and photovoltaic properties of a new class of two-dimensional conjugated polymers containing donor-acceptor chromophores as pendant groups. Polymer Chemistry, 2013, 4, 3333.	1.9	6
50	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. Advanced Materials, 2013, 25, 2445-2451.	11.1	129
51	A New sp <sup>2</sup> -sp <sup>2</sup> Dialkylethylene-Bridged Heptacyclic Ladder-Type Arene for High Efficiency Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 457-465.	10.2	22
52	Interface Engineering to Enhance the Efficiency of Conventional Polymer Solar Cells by Alcohol/Water-Soluble C <sub>60</sub> Materials Doped with Alkali Carbonates. ACS Applied Materials & Interfaces, 2013, 5, 5122-5128.	4.0	21
53	Formation of Nanostructured Fullerene Interlayer through Accelerated Self-Assembly and Cross-Linking of Trichlorosilane Moieties Leading to Enhanced Efficiency of Photovoltaic Cells. Macromolecules, 2013, 46, 4781-4789.	2.2	21
54	Homogeneous Model Complexes for Supported Rhodium Metathesis Catalysts. Organometallics, 2012, 31, 7558-7565.	1.1	22

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55	Synthesis, Molecular and Photovoltaic Properties of Donor-acceptor Conjugated Polymers Incorporating a New Heptacyclic Indacenodithieno[3,2-b]thiophene Arene. <i>Macromolecules</i> , 2012, 45, 9282-9291.	2.2	68
56	Alumina-mediated dealkylative dimerization of 4-aminobenzyl esters. <i>Tetrahedron</i> , 2007, 63, 6051-6055.	1.0	11