

Yen-Ju Cheng

List of Publications by Year in descending order

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55
papers

6,714
citations

147726

31
h-index

161767

54
g-index

55
all docs

55
docs citations

55
times ranked

7259
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination-Induced Defects Elimination of SnO ₂ Nanoparticles via a Small Electrolyte Molecule for High-Performance Inverted Organic Solar Cells. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	12
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> , 2022, 12, .	10.2	33
3	Synthesis of Ring-Locked Tetracyclic Dithienocyclopentapyrans and Dibenzocyclopentapyran via 1,5-Hydride Shift and Copper-Catalyzed C=O Bond Formation for Nonfullerene Acceptors. <i>Organic Letters</i> , 2021, 23, 1692-1697.	2.4	4
4	Alcohol-Soluble Zwitterionic 4-(Dimethyl(pyridin-2-yl)ammonio)butane-1-sulfonate Small Molecule as a Cathode Modifier for Nonfullerene Acceptor-Based Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10222-10230.	4.0	13
5	Palladium-Catalyzed Direct Cross-Dehydrogenative Alkynylation of Selenophenes. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4526.	2.1	0
6	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
7	2-Dimensional cross-shaped tetrathienonaphthalene-based ladder-type acceptor for high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12141-12148.	5.2	14
8	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
9	Pd(II)-Catalyzed Direct Dehydrogenative Mono- and Diolefination of Selenophenes. <i>Organic Letters</i> , 2020, 22, 2318-2322.	2.4	11
10	Isomeric effect of fluorene-based fused-ring electron acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5315-5322.	5.2	33
11	Isomerically Pure Benzothiophene-Incorporated Acceptor: Achieving Improved V_{oc} and J_{sc} of Nonfullerene Organic Solar Cells via End Group Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33179-33187.	4.0	36
12	Forced coplanarity of dithienofluorene-based non-fullerene acceptors to achieve high-efficiency organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17947-17953.	5.2	16
13	Mg Doped CuCrO ₂ as Efficient Hole Transport Layers for Organic and Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 1311.	1.9	24
14	Regio- and stereo-selective [4+4] photodimerization of angular-shaped dialkyltetracenedithiophene. <i>Chemical Communications</i> , 2019, 55, 381-384.	2.2	3
15	Probing Defect States in Organic Polymers and Bulk Heterojunctions Using Surface Photovoltage Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10795-10801.	1.5	5
16	Naphthobisthiadiazole-Based Selenophene-Incorporated Quarterchalcogenophene Copolymers for Field-Effect Transistors and Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11674-11683.	4.0	17
17	Synthesis of unsymmetrical benzotrithienophenes by N-heterocyclic carbene-palladium-catalyzed intramolecular direct C ₃ -arylation of chalcogenophenes. <i>Chemical Communications</i> , 2018, 54, 1517-1520.	2.2	15
18	Thiophene-Vinylene-Thiophene-Based Donor-Acceptor Copolymers with Acetylene-Inserted Branched Alkyl Side Chains To Achieve High Field-Effect Mobilities. <i>Chemistry of Materials</i> , 2018, 30, 7611-7622.	3.2	24

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19	New Thieno[3,2- <i>b</i>]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. <i>ACS Energy Letters</i> , 2018, 3, 1722-1729.	8.8	61
20	Angular-Shaped 4,9-Dialkylnaphthodithiophene-Based Octacyclic Ladder-Type Non-Fullerene Acceptors for High Efficiency Ternary-Blend Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018, 30, 4968-4977.	3.2	39
21	Cross-linked Triarylamine-Based Hole-Transporting Layer for Solution-Processed PEDOT:PSS-Free Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21466-21471.	4.0	29
22	Side-chain modulation of dithienofluorene-based copolymers to achieve high field-effect mobilities. <i>Chemical Science</i> , 2017, 8, 2942-2951.	3.7	46
23	Synthesis and side-chain isomeric effect of 4,9-/5,10-dialkylated- β^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
24	Bispentafluorophenyl-Containing Additive: Enhancing Efficiency and Morphological Stability of Polymer Solar Cells via Hand-Grabbing-Like Supramolecular Pentafluorophenyl-Fullerene Interactions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43861-43870.	4.0	24
25	Haptacyclic Carbazole-Based Ladder-Type Nonfullerene Acceptor with Side-Chain Optimization for Efficient Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42035-42042.	4.0	43
26	Selenophene-Incorporated Quaterchalcogenophene-Based Donor-Acceptor Copolymers To Achieve Efficient Solar Cells with J_{sc} Exceeding 20 mA/cm ² . <i>Chemistry of Materials</i> , 2017, 29, 10045-10052.	3.2	44
27	Highly Efficient Inverted D:A1:A2 Ternary Blend Organic Photovoltaics Combining a Ladder-type Non-Fullerene Acceptor and a Fullerene Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24797-24803.	4.0	36
28	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
29	Synthesis and Molecular Properties of Two Isomeric Dialkylated Tetrathienonaphthalenes. <i>Organic Letters</i> , 2016, 18, 368-371.	2.4	15
30	Angular-Shaped 4,9-Dialkyl- and β^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
31	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
32	Synthesis of Poly(3-hexylthiophene), Poly(3-hexylselenophene), and Poly(3-hexylselenophene- <i>alt</i> -3-hexylthiophene) by Direct C-H Arylation Polymerization via <i>N</i> -Heterocyclic Carbene Palladium Catalysts. <i>Macromolecules</i> , 2015, 48, 2978-2988.	2.2	37
33	Angular-Shaped 4,9-Dialkylnaphthodithiophene-Based Donor-Acceptor Copolymers for Efficient Polymer Solar Cells and High-Mobility Field-Effect Transistors. <i>Macromolecules</i> , 2015, 48, 2030-2038.	2.2	30
34	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
35	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> , 2015, 3, 20382-20388.	5.2	35
36	Donor-acceptor conjugated polymers based on multifused ladder-type arenes for organic solar cells. <i>Chemical Society Reviews</i> , 2015, 44, 1113-1154.	18.7	543

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37	Applications of functional fullerene materials in polymer solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1866.	15.6	174
38	Morphological Stabilization by Supramolecular Perfluorophenyl- π - π Interactions Leading to Efficient and Thermally Stable Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2014, 24, 1418-1429.	7.8	47
39	Synthesis and Supramolecular Assembly of Pentacyclic Dithienofluorene and Diselenophenofluorene Derivatives. <i>Organic Letters</i> , 2014, 16, 936-939.	2.4	21
40	Synthesis and Molecular Properties of Four Isomeric Dialkylated Angular-Shaped Naphthodithiophenes. <i>Organic Letters</i> , 2013, 15, 5338-5341.	2.4	47
41	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> , 2013, 46, 7715-7726.	2.2	59
42	Diindenothieno[2,3-b]thiophene arene for efficient organic photovoltaics with an extra high open-circuit voltage of 1.14 eV. <i>Chemical Communications</i> , 2012, 48, 3203.	2.2	47
43	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> , 2012, 24, 3964-3971.	3.2	97
44	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> , 2012, 22, 1711-1722.	7.8	92
45	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> , 2012, 24, 2391-2399.	3.2	72
46	Combination of Molecular, Morphological, and Interfacial Engineering to Achieve Highly Efficient and Stable Plastic Solar Cells. <i>Advanced Materials</i> , 2012, 24, 549-553.	11.1	155
47	Ladder-Type Nonacyclic Structure Consisting of Alternate Thiophene and Benzene Units for Efficient Conventional and Inverted Organic Photovoltaics. <i>Chemistry of Materials</i> , 2011, 23, 5068-5075.	3.2	58
48	Exciplex Electroluminescence Induced by Cross-Linked Hole-Transporting Materials for White Light Polymer Light-Emitting Diodes. <i>Macromolecules</i> , 2011, 44, 5968-5976.	2.2	42
49	Thieno[3,2- <i>b</i>]pyrrolo Donor Fused with Benzothiadiazole, Benzoselenadiazole and Quinoxalino Acceptors: Synthesis, Characterization, and Molecular Properties. <i>Organic Letters</i> , 2011, 13, 5484-5487.	2.4	57
50	Carbazole-Based Ladder-Type Heptacyclic Arene with Aliphatic Side Chains Leading to Enhanced Efficiency of Organic Photovoltaics. <i>Chemistry of Materials</i> , 2011, 23, 2361-2369.	3.2	111
51	Di(4-methylphenyl)methano-C ₆₀ Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. <i>Chemistry of Materials</i> , 2011, 23, 4056-4062.	3.2	90
52	Morphological Stabilization by In Situ Polymerization of Fullerene Derivatives Leading to Efficient, Thermally Stable Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2011, 21, 1723-1732.	7.8	153
53	Donor-acceptor polymers based on multi-fused heptacyclic structures: synthesis, characterization and photovoltaic applications. <i>Chemical Communications</i> , 2010, 46, 3259.	2.2	116
54	Supramolecular Self-Assembled Dendritic Nonlinear Optical Chromophores: Fine-Tuning of Arene-Perfluoroarene Interactions for Ultralarge Electro-Optic Activity and Enhanced Thermal Stability. <i>Advanced Materials</i> , 2009, 21, 1976-1981.	11.1	96

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55	Synthesis of Conjugated Polymers for Organic Solar Cell Applications. Chemical Reviews, 2009, 109, 5868-5923.	23.0	3,739