Liang Yan

List of Publications by Year
in descending order

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55	2,724	257450	182427
papers	citations	24	51
		h-index	g-index

56	56	56	4174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magneticâ€Field Effects in Organic Semiconducting Materials and Devices. Advanced Materials, 2009, 21, 1500-1516.	21.0	327
2	Mobility-Controlled Performance of Thick Solar Cells Based on Fluorinated Copolymers. Journal of the American Chemical Society, 2014, 136, 15566-15576.	13.7	249
3	Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. Nature Communications, 2019, 10, 1276.	12.8	222
4	Controlling Molecular Weight of a High Efficiency Donorâ€Acceptor Conjugated Polymer and Understanding Its Significant Impact on Photovoltaic Properties. Advanced Materials, 2014, 26, 4456-4462.	21.0	190
5	Organic Solar Cells beyond One Pair of Donorâ€“Acceptor: Ternary Blends and More. Journal of Physical Chemistry Letters, 2013, 4, 1802-1810.	4.6	186
6	Solution-processed copperâ€“nickel nanowire anodes for organic solar cells. Nanoscale, 2014, 6, 5980.	5.6	170
7	Twoâ€Dimensional Organicâ€“Inorganic Hybrid Perovskites: A New Platform for Optoelectronic Applications. Advanced Materials, 2018, 30, e1802041.	21.0	138
8	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. Advanced Materials, 2017, 29, 1604603.	21.0	87
9	Tuning Fluorinated Benzotriazole Polymers through Alkylthio Substitution and Selenophene Incorporation for Bulk Heterojunction Solar Cells. Macromolecules, 2014, 47, 2289-2295.	4.8	75
10	Energy transfer mechanisms in layered 2D perovskites. Journal of Chemical Physics, 2018, 148, 134706.	3.0	70
11	A General Approach toward Electron Deficient Triazole Units to Construct Conjugated Polymers for Solar Cells. Chemistry of Materials, 2015, 27, 6470-6476.	6.7	69
12	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 33187-33197.	8.0	66
13	Aryl-Perfluoroaryl Interaction in Two-Dimensional Organicâ€“Inorganic Hybrid Perovskites Boosts Stability and Photovoltaic Efficiency. , 2019, 1, 171-176.		63
14	Tripletâ€“charge annihilation versus tripletâ€“triplet annihilation in organic semiconductors. Journal of Materials Chemistry C, 2013, 1, 1330-1336.	5.5	59
15	Fluorinated Thiophene Units Improve Photovoltaic Device Performance of Donorâ€“Acceptor Copolymers. Chemistry of Materials, 2017, 29, 5990-6002.	6.7	57
16	Alkylâ€“Aryl Cation Mixing in Chiral 2D Perovskites. Journal of the American Chemical Society, 2021, 143, 18114-18120.	13.7	57
17	High Seebeck Effects from Hybrid Metal/Polymer/Metal Thinâ€Film Devices. Advanced Materials, 2011, 23, 4120-4124.	21.0	48
18	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. Journal of Materials Chemistry A, 2017, 5, 4886-4893.	10.3	44

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19	The Structural Origin of Chiroptical Properties in Perovskite Nanocrystals with Chiral Organic Ligands. Advanced Functional Materials, 2022, 32, .	14.9	43
20	Green-Solvent-Processed Conjugated Polymers for Organic Solar Cells: The Impact of Oligoethylene Glycol Side Chains. ACS Applied Polymer Materials, 2019, 1, 804-814.	4.4	39
21	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. Advanced Materials, 2011, 23, 2216-2220.	21.0	29
22	Roles of Interfacial Modifiers in Hybrid Solar Cells: Inorganic/Polymer Bilayer vs Inorganic/Polymer:Fullerene Bulk Heterojunction. ACS Applied Materials & Interfaces, 2014, 6, 803-810.	8.0	29
23	A molecular tandem cell for efficient solar water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13256-13260.	7.1	28
24	Donor polymer fluorination doubles the efficiency in non-fullerene organic photovoltaics. Journal of Materials Chemistry A, 2017, 5, 22536-22541.	10.3	27
25	Formation of supramolecular hydrogels with controlled microstructures and stability via molecular assembling in a two-component system. Journal of Colloid and Interface Science, 2007, 307, 280-287.	9.4	25
26	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. Scientific Reports, 2013, 3, 2812.	3.3	25
27	Real Function of Semiconducting Polymer in GaAs/Polymer Planar Heterojunction Solar Cells. ACS Nano, 2013, 7, 6619-6626.	14.6	24
28	Coherent control of asymmetric spintronic terahertz emission from two-dimensional hybrid metal halides. Nature Communications, 2021, 12, 5744.	12.8	24
29	Distinguishing Energy- and Charge-Transfer Processes in Layered Perovskite Quantum Wells with Two-Dimensional Action Spectroscopies. Journal of Physical Chemistry Letters, 2020, 11, 4570-4577.	4.6	19
30	Effect of Cyano Substitution on Conjugated Polymers for Bulk Heterojunction Solar Cells. ACS Applied Polymer Materials, 2019, 1, 3313-3322.	4.4	17
31	Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Chargeâ€Transfer Excitons. Advanced Energy Materials, 2016, 6, 1301032.	19.5	16
32	Tuning of spin-orbit coupling in metal-free conjugated polymers by structural conformation. Physical Review Materials, 2020, 4, .	2.4	16
33	Morphological Effects on the Small-Molecule-Based Solution-Processed Organic Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 15767-15773.	8.0	15
34	Enhancing Photovoltaic Performance of Aromatic Ammoniumâ€based Twoâ€Dimensional Organicâ€Inorganic Hybrid Perovskites via Tuning CHÂ·Â·Â·Ï€ Interaction. Solar Rrl, 2020, 4, 1900374.	5.8	15
35	Utilizing Difluorinated Thiophene Units To Improve the Performance of Polymer Solar Cells. Macromolecules, 2019, 52, 6523-6532.	4.8	14
36	Functionalization of Benzotriazole-Based Conjugated Polymers for Solar Cells: Heteroatom vs Substituents. ACS Applied Polymer Materials, 2021, 3, 30-41.	4.4	14

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37	Changing inter-molecular spin-orbital coupling for generating magnetic field effects in phosphorescent organic semiconductors. Applied Physics Letters, 2012, 100, 013301.	3.3	12
38	Magnetocurrent of Charge-Polarizable C₆₀-Diphenylaminofluorene Monoadduct-Derived Magnetic Nanocomposites. Journal of the American Chemical Society, 2012, 134, 3549-3554.	13.7	12
39	Orientation effect on GaAs/ultrathin polymer/PEDOT:PSS hybrid solar cell. Organic Electronics, 2015, 16, 71-76.	2.6	11
40	Charge Generation and Mobility-Limited Performance of Bulk Heterojunction Solar Cells with a Higher Adduct Fullerene. Journal of Physical Chemistry C, 2017, 121, 10305-10316.	3.1	11
41	Assembling and releasing performance of supramolecular hydrogels formed from simple drug molecule as the hydrogelator. Chinese Chemical Letters, 2007, 18, 1009-1012.	9.0	10
42	The effect of passivation on different GaAs surfaces. Applied Physics Letters, 2013, 103, 173902.	3.3	10
43	Nonlinear fluorescence spectroscopy of layered perovskite quantum wells. Journal of Chemical Physics, 2020, 153, 134202.	3.0	10
44	Positive and negative magnetic field effects in organic semiconducting materials. Synthetic Metals, 2009, 159, 2323-2325.	3.9	9
45	Nonlinear Photocurrent Spectroscopy of Layered 2D Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 7362-7367.	4.6	9
46	Elucidation of Quantum-Well-Specific Carrier Mobilities in Layered Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 1116-1123.	4.6	9
47	Multidimensional time-of-flight spectroscopy. Journal of Chemical Physics, 2021, 154, 220901.	3.0	7
48	Enhanced Ï€â€“d Electron Coupling in the Excited State by Combining Intramolecular Chargeâ€Transfer States with Surfaceâ€Modified Magnetic Nanoparticles in Organicâ€“Magnetic Nanocomposites. Advanced Electronic Materials, 2015, 1, 1500058.	5.1	5
49	Probing Carrier Transport in Layered Perovskites with Nonlinear Optical and Photocurrent Spectroscopies. Journal of Physical Chemistry C, 2021, 125, 8021-8030.	3.1	4
50	Origin of layered perovskite device efficiencies revealed by multidimensional time-of-flight spectroscopy. Journal of Chemical Physics, 2022, 156, 084202.	3.0	3
51	Direct Optical Observation of Stimulated Emission from Hot Charge Transfer Excitons in Bulk Heterojunction Polymer Solar Cells. Journal of Physical Chemistry C, 2015, 119, 19697-19702.	3.1	2
52	PREPARATION OF A HYDROGEN BONDED SUPRAMOLECULAR HYDROGELS WITH TWO DIMENSIONAL AGGREGATE STRUCTURE. Acta Polymerica Sinica, 2009, 007, 397-400.	0.0	2
53	Polymer Blends from Optoelectronics to Spintronics. ACS Symposium Series, 2010, , 85-92.	0.5	1
54	Organic Photovoltaics: Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Chargeâ€Transfer Excitons (Adv. Energy Mater. 1/2016). Advanced Energy Materials, 2016, 6, .	19.5	1

#	Article	IF	Citations
55	Non-Covalent Interactions in Organic/Inorganic Hybrid 2D Perovskites. , 2022, , 153-193.		0