

Liang Yan

List of Publications by Year in descending order

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257450

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56
times ranked

4174
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of layered perovskite device efficiencies revealed by multidimensional time-of-flight spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 084202.	3.0	3
2	Non-Covalent Interactions in Organic/Inorganic Hybrid 2D Perovskites. , 2022, , 153-193.		0
3	The Structural Origin of Chiroptical Properties in Perovskite Nanocrystals with Chiral Organic Ligands. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	43
4	Functionalization of Benzotriazole-Based Conjugated Polymers for Solar Cells: Heteroatom vs Substituents. <i>ACS Applied Polymer Materials</i> , 2021, 3, 30-41.	4.4	14
5	Elucidation of Quantum-Well-Specific Carrier Mobilities in Layered Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1116-1123.	4.6	9
6	Probing Carrier Transport in Layered Perovskites with Nonlinear Optical and Photocurrent Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8021-8030.	3.1	4
7	Multidimensional time-of-flight spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 220901.	3.0	7
8	Coherent control of asymmetric spintronic terahertz emission from two-dimensional hybrid metal halides. <i>Nature Communications</i> , 2021, 12, 5744.	12.8	24
9	Alkyl-aryl Cation Mixing in Chiral 2D Perovskites. <i>Journal of the American Chemical Society</i> , 2021, 143, 18114-18120.	13.7	57
10	Enhancing Photovoltaic Performance of Aromatic Ammonium-based Two-dimensional Organic-inorganic Hybrid Perovskites via Tuning CH ₂ - π Interaction. <i>Solar Rrl</i> , 2020, 4, 1900374.	5.8	15
11	Nonlinear fluorescence spectroscopy of layered perovskite quantum wells. <i>Journal of Chemical Physics</i> , 2020, 153, 134202.	3.0	10
12	Distinguishing Energy- and Charge-Transfer Processes in Layered Perovskite Quantum Wells with Two-Dimensional Action Spectroscopies. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4570-4577.	4.6	19
13	A molecular tandem cell for efficient solar water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13256-13260.	7.1	28
14	Tuning of spin-orbit coupling in metal-free conjugated polymers by structural conformation. <i>Physical Review Materials</i> , 2020, 4, .	2.4	16
15	Utilizing Difluorinated Thiophene Units To Improve the Performance of Polymer Solar Cells. <i>Macromolecules</i> , 2019, 52, 6523-6532.	4.8	14
16	Effect of Cyano Substitution on Conjugated Polymers for Bulk Heterojunction Solar Cells. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3313-3322.	4.4	17
17	aryl-Perfluoroaryl Interaction in Two-Dimensional Organic-inorganic Hybrid Perovskites Boosts Stability and Photovoltaic Efficiency. , 2019, 1, 171-176.		63
18	Synthetic control over orientational degeneracy of spacer cations enhances solar cell efficiency in two-dimensional perovskites. <i>Nature Communications</i> , 2019, 10, 1276.	12.8	222

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19	Green-Solvent-Processed Conjugated Polymers for Organic Solar Cells: The Impact of Oligoethylene Glycol Side Chains. <i>ACS Applied Polymer Materials</i> , 2019, 1, 804-814.	4.4	39
20	Nonlinear Photocurrent Spectroscopy of Layered 2D Perovskite Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7362-7367.	4.6	9
21	Energy transfer mechanisms in layered 2D perovskites. <i>Journal of Chemical Physics</i> , 2018, 148, 134706.	3.0	70
22	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33187-33197.	8.0	66
23	Two-Dimensional Organic-Inorganic Hybrid Perovskites: A New Platform for Optoelectronic Applications. <i>Advanced Materials</i> , 2018, 30, e1802041.	21.0	138
24	Comparing non-fullerene acceptors with fullerene in polymer solar cells: a case study with FTAZ and PyCNTAZ. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4886-4893.	10.3	44
25	Charge Generation and Mobility-Limited Performance of Bulk Heterojunction Solar Cells with a Higher Adduct Fullerene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10305-10316.	3.1	11
26	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604603.	21.0	87
27	Donor polymer fluorination doubles the efficiency in non-fullerene organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22536-22541.	10.3	27
28	Fluorinated Thiophene Units Improve Photovoltaic Device Performance of Donor-Acceptor Copolymers. <i>Chemistry of Materials</i> , 2017, 29, 5990-6002.	6.7	57
29	Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons. <i>Advanced Energy Materials</i> , 2016, 6, 1301032.	19.5	16
30	Organic Photovoltaics: Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons (<i>Adv. Energy Mater.</i> 1/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	1
31	Enhanced π - π^* Electron Coupling in the Excited State by Combining Intramolecular Charge-Transfer States with Surface-Modified Magnetic Nanoparticles in Organic-Magnetic Nanocomposites. <i>Advanced Electronic Materials</i> , 2015, 1, 1500058.	5.1	5
32	Direct Optical Observation of Stimulated Emission from Hot Charge Transfer Excitons in Bulk Heterojunction Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19697-19702.	3.1	2
33	A General Approach toward Electron Deficient Triazole Units to Construct Conjugated Polymers for Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 6470-6476.	6.7	69
34	Orientation effect on GaAs/ultrathin polymer/PEDOT:PSS hybrid solar cell. <i>Organic Electronics</i> , 2015, 16, 71-76.	2.6	11
35	Controlling Molecular Weight of a High Efficiency Donor-Acceptor Conjugated Polymer and Understanding Its Significant Impact on Photovoltaic Properties. <i>Advanced Materials</i> , 2014, 26, 4456-4462.	21.0	190
36	Tuning Fluorinated Benzotriazole Polymers through Alkylthio Substitution and Selenophene Incorporation for Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2014, 47, 2289-2295.	4.8	75

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37	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
38	Mobility-Controlled Performance of Thick Solar Cells Based on Fluorinated Copolymers. Journal of the American Chemical Society, 2014, 136, 15566-15576.	13.7	249
39	Solution-processed copper/nickel nanowire anodes for organic solar cells. Nanoscale, 2014, 6, 5980.	5.6	170
40	Morphological Effects on the Small-Molecule-Based Solution-Processed Organic Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 15767-15773.	8.0	15
41	Real Function of Semiconducting Polymer in GaAs/Polymer Planar Heterojunction Solar Cells. ACS Nano, 2013, 7, 6619-6626.	14.6	24
42	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. Scientific Reports, 2013, 3, 2812.	3.3	25
43	Organic Solar Cells beyond One Pair of Donor/Acceptor: Ternary Blends and More. Journal of Physical Chemistry Letters, 2013, 4, 1802-1810.	4.6	186
44	Triplet-triplet charge annihilation versus triplet-triplet annihilation in organic semiconductors. Journal of Materials Chemistry C, 2013, 1, 1330-1336.	5.5	59
45	The effect of passivation on different GaAs surfaces. Applied Physics Letters, 2013, 103, 173902.	3.3	10
46	Changing inter-molecular spin-orbital coupling for generating magnetic field effects in phosphorescent organic semiconductors. Applied Physics Letters, 2012, 100, 013301.	3.3	12
47	Magnetocurrent of Charge-Polarizable C ₆₀ -Diphenylaminofluorene Monoadduct-Derived Magnetic Nanocomposites. Journal of the American Chemical Society, 2012, 134, 3549-3554.	13.7	12
48	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. Advanced Materials, 2011, 23, 2216-2220.	21.0	29
49	High Seebeck Effects from Hybrid Metal/Polymer/Metal Thin-Film Devices. Advanced Materials, 2011, 23, 4120-4124.	21.0	48
50	Polymer Blends from Optoelectronics to Spintronics. ACS Symposium Series, 2010, , 85-92.	0.5	1
51	Magnetic-Field Effects in Organic Semiconducting Materials and Devices. Advanced Materials, 2009, 21, 1500-1516.	21.0	327
52	Positive and negative magnetic field effects in organic semiconducting materials. Synthetic Metals, 2009, 159, 2323-2325.	3.9	9
53	PREPARATION OF A HYDROGEN BONDED SUPRAMOLECULAR HYDROGELS WITH TWO DIMENSIONAL AGGREGATE STRUCTURE. Acta Polymerica Sinica, 2009, 007, 397-400.	0.0	2
54	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

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55	Formation of supramolecular hydrogels with controlled microstructures and stability via molecular assembling in a two-component system. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 280-287.	9.4	25