

Xiao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

849
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516561

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docs citations

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times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonradiative Recombination via Charge Transfer Exciton to Polaron Energy Transfer Limits Photocurrent in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	5
2	Solar fuels and feedstocks: the quest for renewable black gold. <i>Energy and Environmental Science</i> , 2021, 14, 1402-1419.	15.6	25
3	Mechanistic Study of Charge Separation in a Nonfullerene Organic Donor-Acceptor Blend Using Multispectral Multidimensional Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3410-3416.	2.1	11
4	Improved photodetection performance enabled by gradient alloyed quantum dots. <i>APL Materials</i> , 2021, 9, .	2.2	7
5	Neutralizing Defect States in MoS ₂ Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44686-44692.	4.0	8
6	Nanosecond-Pulsed Perovskite Light-Emitting Diodes at High Current Density. <i>Advanced Materials</i> , 2021, 33, e2104867.	11.1	26
7	Is there such a thing as a molecular organic alloy?. <i>Materials Horizons</i> , 2020, 7, 244-251.	6.4	23
8	Efficient Charge Generation via Hole Transfer in Dilute Organic Donor-Fullerene Blends. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2203-2210.	2.1	19
9	Ultrastrong coupling of vibrationally dressed organic Frenkel excitons with Bloch surface waves in a one-sided all-dielectric structure. <i>Physical Review B</i> , 2019, 100, .	1.1	11
10	Vacuum-Deposited Binary Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2019, 141, 18204-18210.	6.6	19
11	Intrinsically stable organic solar cells under high-intensity illumination. <i>Nature</i> , 2019, 573, 394-397.	13.7	194
12	Engineering Charge-Transfer States for Efficient, Low-Energy-Loss Organic Photovoltaics. <i>Trends in Chemistry</i> , 2019, 1, 815-829.	4.4	32
13	Erratum to "Surface passivation of InP using an organic thin film" [J. Cryst. Growth. 503 (2018) 9-12]. <i>Journal of Crystal Growth</i> , 2019, 508, 96.	0.7	0
14	Multiple Charge Transfer States in Donor-Acceptor Heterojunctions with Large Frontier Orbital Energy Offsets. <i>Chemistry of Materials</i> , 2019, 31, 6808-6817.	3.2	20
15	Energy Loss in Organic Photovoltaics: Nonfullerene Versus Fullerene Acceptors. <i>Physical Review Applied</i> , 2019, 11, .	1.5	68
16	Charge Transfer and Collection in Dilute Organic Donor-Acceptor Heterojunction Blends. <i>Nano Letters</i> , 2018, 18, 3180-3184.	4.5	26
17	Dipole-Aligned Energy Transfer between Excitons in Two-Dimensional Transition Metal Dichalcogenide and Organic Semiconductor. <i>ACS Photonics</i> , 2018, 5, 100-104.	3.2	29
18	Near-Infrared Ternary Tandem Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1804416.	11.1	65

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19	Surface passivation of InP using an organic thin film. Journal of Crystal Growth, 2018, 503, 9-12.	0.7	2
20	Photoresponse of an Organic Semiconductor/Two-Dimensional Transition Metal Dichalcogenide Heterojunction. Nano Letters, 2017, 17, 3176-3181.	4.5	97
21	Dipole aligned energy transfer between excitons in 2D semiconductors and organic materials. , 2017, , .		0
22	Charge Transfer States in Dilute Donor-Acceptor Blend Organic Heterojunctions. ACS Nano, 2016, 10, 7619-7626.	7.3	46
23	Free and trapped hybrid charge transfer excitons at a ZnO/small-molecule heterojunction. Physical Review B, 2016, 94, .	1.1	16
24	Regioisomeric Effects of Donor-Acceptor-Acceptor ² Small-Molecule Donors on the Open Circuit Voltage of Organic Photovoltaics. Advanced Materials, 2016, 28, 8248-8255.	11.1	41
25	Singlets lead to photogeneration in C_{60} -based organic heterojunctions. Physical Review B, 2015, 92, .	1.1	6
26	Charge transport and exciton dissociation in organic solar cells consisting of dipolar donors mixed with C_{70} . Physical Review B, 2015, 92, .	1.1	47
27	Temperature dependence of the exciton dynamics inDCM2:Alq3. Physical Review B, 2014, 90, .	1.1	6