Xiao Liu

List of Publications by Year in descending order

27 papers	849 citations	516561 16 h-index	580701 25 g-index
27 all docs	27 docs citations	27 times ranked	1575 citing authors

#	Article	IF	Citations
1	Intrinsically stable organic solar cells under high-intensity illumination. Nature, 2019, 573, 394-397.	13.7	194
2	Photoresponse of an Organic Semiconductor/Two-Dimensional Transition Metal Dichalcogenide Heterojunction. Nano Letters, 2017, 17, 3176-3181.	4.5	97
3	Energy Loss in Organic Photovoltaics: Nonfullerene Versus Fullerene Acceptors. Physical Review Applied, 2019, 11, .	1.5	68
4	Nearâ€Infrared Ternary Tandem Solar Cells. Advanced Materials, 2018, 30, e1804416.	11.1	65
5	Charge transport and exciton dissociation in organic solar cells consisting of dipolar donors mixed with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>70</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	1.1	47
6	Charge Transfer States in Dilute Donorâ€“Acceptor Blend Organic Heterojunctions. ACS Nano, 2016, 10, 7619-7626.	7.3	46
7	Regioisomeric Effects of Donorâ€“Acceptorâ€“Acceptorâ€² Smallâ€Molecule Donors on the Open Circuit Voltage of Organic Photovoltaics. Advanced Materials, 2016, 28, 8248-8255.	11.1	41
8	Engineering Charge-Transfer States for Efficient, Low-Energy-Loss Organic Photovoltaics. Trends in Chemistry, 2019, 1, 815-829.	4.4	32
9	Dipole-Aligned Energy Transfer between Excitons in Two-Dimensional Transition Metal Dichalcogenide and Organic Semiconductor. ACS Photonics, 2018, 5, 100-104.	3.2	29
10	Charge Transfer and Collection in Dilute Organic Donorâ€“Acceptor Heterojunction Blends. Nano Letters, 2018, 18, 3180-3184.	4.5	26
11	Nanosecondâ€Pulsed Perovskite Lightâ€Emitting Diodes at High Current Density. Advanced Materials, 2021, 33, e2104867.	11.1	26
12	Solar fuels and feedstocks: the quest for renewable black gold. Energy and Environmental Science, 2021, 14, 1402-1419.	15.6	25
13	Is there such a thing as a molecular organic alloy?. Materials Horizons, 2020, 7, 244-251.	6.4	23
14	Multiple Charge Transfer States in Donorâ€“Acceptor Heterojunctions with Large Frontier Orbital Energy Offsets. Chemistry of Materials, 2019, 31, 6808-6817.	3.2	20
15	Vacuum-Deposited Biternary Organic Photovoltaics. Journal of the American Chemical Society, 2019, 141, 18204-18210.	6.6	19
16	Efficient Charge Generation via Hole Transfer in Dilute Organic Donorâ€“Fullerene Blends. Journal of Physical Chemistry Letters, 2020, 11, 2203-2210.	2.1	19
17	Free and trapped hybrid charge transfer excitons at a ZnO/small-molecule heterojunction. Physical Review B, 2016, 94, .	1.1	16
18	Ultrastrong coupling of vibrationally dressed organic Frenkel excitons with Bloch surface waves in a one-sided all-dielectric structure. Physical Review B, 2019, 100, .	1.1	11

#	Article	IF	Citations
19	Mechanistic Study of Charge Separation in a Nonfullerene Organic Donorâ€“Acceptor Blend Using Multispectral Multidimensional Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 3410-3416.	2.1	11
20	Neutralizing Defect States in MoS₂ Monolayers. ACS Applied Materials & Interfaces, 2021, 13, 44686-44692.	4.0	8
21	Improved photodetection performance enabled by gradient alloyed quantum dots. APL Materials, 2021, 9, .	2.2	7
22	Temperature dependence of the exciton dynamics inDCM2:Alq3. Physical Review B, 2014, 90, .	1.1	6
23	Singlets lead to photogeneration in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>-based organic heterojunctions. Physical Review B, 2015, 92, .	1.1	6
24	Nonradiative Recombination via Chargeâ€Transferâ€Exciton to Polaron Energy Transfer Limits Photocurrent in Organic Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	5
25	Surface passivation of InP using an organic thin film. Journal of Crystal Growth, 2018, 503, 9-12.	0.7	2
26	Erratum to â€œSurface passivation of InP using an organic thin filmâ€•[J. Cryst. Growth. 503 (2018) 9â€“12]. Journal of Crystal Growth, 2019, 508, 96.	0.7	0
27	Dipole aligned energy transfer between excitons in 2D semiconductors and organic materials. , 2017, , .		0