

Kun Gao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

313
citations

10
h-index

16
g-index

39
ext. papers

360
ext. citations

3.9
avg, IF

3.55
L-index

#	Paper	IF	Citations
38	Rationalizing charge carrier transport in ternary organic solar cells. <i>Applied Physics Letters</i> , 2022 , 120, 023302	3.4	1
37	Aggregation effect of acceptor molecules on the energy and charge transfer dynamics at an organic donor/acceptor interface. <i>Organic Electronics</i> , 2022 , 100, 106396	3.5	1
36	Observing halogen-bond-assisted electron transport in high-performance polymer solar cells. <i>Applied Physics Letters</i> , 2021 , 119, 183302	3.4	1
35	Re-excitation dynamics of a cold charge transfer state at organic donor/acceptor interfaces. <i>Applied Physics Letters</i> , 2021 , 118, 133301	3.4	3
34	Synergistic effect of incorporating intra- and inter-molecular charge transfer in nonfullerene acceptor molecules for highly-efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16834-16840	7.1	36
33	Migration dynamics of excitons/biexcitons induced by a funnel-like nonuniform compression strain over organic polymers. <i>Applied Physics Letters</i> , 2021 , 119, 263302	3.4	0
32	Energy and charge transfer dynamics at an organic donor/acceptor interface. <i>Organic Electronics</i> , 2020 , 85, 105886	3.5	5
31	Energy Loss in Organic Solar Cells: Mechanisms, Strategies, and Prospects. <i>Solar Rrl</i> , 2020 , 4, 2000130	7.1	36
30	Sub-bandgap photoexcited dynamics at an organic donor/acceptor photovoltaic interface. <i>Optics Letters</i> , 2020 , 45, 4492-4495	3	0
29	Exciton-to-Charge Dynamics Driven by the Nonuniform Polymer Packing at Donor/Acceptor Interfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1898-1906	3.8	3
28	Directional and ultrafast migrations of excitons/biexcitons in organic polymers by utilizing a local nonuniform electric field. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11274-11281	7.1	2
27	Efficient quantum theory for studying cold charge-transfer state dissociations in donor-acceptor heterojunction organic solar cells. <i>Applied Physics Letters</i> , 2020 , 117, 123301	3.4	5
26	Competition between singlet fission and singlet exciton dissociation at the interface in TIPS-pentacene:IT-4F blend. <i>Organic Electronics</i> , 2019 , 71, 296-302	3.5	6
25	Dynamical Simulations of Polaron Spin-Filtering and Rectification in an Organic Magnetic/Nonmagnetic Co-oligomer: The Interfacial Effect. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14432-14438	3.8	2
24	Ultrafast Charge Separation from a Cold Charge-Transfer State Driven by Nonuniform Packing of Polymers at Donor/Acceptor Interfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2746-2754	3.8	7
23	Effect of the third component on charge transfer character in ternary organic solar cells with a cascade-type electronic structure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 126001	2.3	4
22	Thermally Induced Exciton Diffusion and Dissociation in Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28527-28532	3.8	3

21	Temperature effect on the internal conversion dynamics following different stimulated absorptions in a conjugated polymer. <i>Organic Electronics</i> , 2018 , 56, 201-207	3.5	1
20	Charge Separation from a Cold Charge-Transfer State Driven by a Nonuniform Electric Field in Polymer-Based Donor/Acceptor Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20676-20683	3.8	9
19	Ultrafast Exciton Migration and Dissociation in Conjugated Polymers Driven by Local Nonuniform Electric Fields. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20546-20552	3.8	15
18	Exciton transport in conjugated polymers with conjugation defects. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24971-24978	3.6	14
17	Effect of intrachain configuration disorder on the exciton delocalization in conjugated polymers. <i>Organic Electronics</i> , 2017 , 48, 342-347	3.5	3
16	Migration of an exciton in organic polymers driven by a nonuniform internal electric field. <i>Organic Electronics</i> , 2016 , 30, 171-175	3.5	4
15	Study on the internal conversion dynamics following different electron transfer at a donor/acceptor polymer heterointerface. <i>Organic Electronics</i> , 2016 , 28, 73-81	3.5	10
14	Spin polarization of excitons in organic multiferroic composites. <i>Scientific Reports</i> , 2016 , 6, 28656	4.9	11
13	Exciton intrachain transport induced by interchain packing configurations in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18600-5	3.6	9
12	Realization of the population inversion in a conjugated polymer by a single or double stimulating pulse. <i>Organic Electronics</i> , 2014 , 15, 1965-1971	3.5	0
11	Voltage Dependence of Magnetoconductance in Organic Semiconductor Devices. <i>Applied Physics Express</i> , 2013 , 6, 021603	2.4	
10	Dynamical study on the stimulated processes of an exciton and a biexciton in a polymer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1499-1502	2.3	1
9	Biexcitons generation in a polymer by a femtosecond electric pump pulse. <i>Organic Electronics</i> , 2012 , 13, 784-788	3.5	5
8	Study on charge-transfer state in a donor-acceptor polymer heterojunction. <i>Organic Electronics</i> , 2011 , 12, 1010-1016	3.5	25
7	Dynamics of interchain delocalized polarons in polymers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 315-320	3.6	3
6	A theoretical study on photoexcitations in poly(p-phenylene vinylene). <i>Organic Electronics</i> , 2009 , 10, 1601-1605	3.5	15
5	Intrachain polaron motion and geminate combination in donor-acceptor copolymers: Effects of level offset and interfacial coupling. <i>Physical Review B</i> , 2008 , 78,	3.3	23
4	Exciton formation with interchain couplings in organic polymers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 2490-2495	2.3	21

- 3 Charge carrier generation through reexcitations of an exciton in poly(p-phenylene vinylene) molecules. *Physical Review B*, **2007**, 75, 3.3 34
- 2 Polaron formation dynamics in conducting polymers. *Synthetic Metals*, **2007**, 157, 380-385 3.6 13
- 1 Reverse polarization in charged pi-conjugated oligomers. *Journal of Chemical Physics*, **2005**, 123, 234702 3.9 9