

# Kun Gao

## List of Publications by Citations

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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	Energy Loss in Organic Solar Cells: Mechanisms, Strategies, and Prospects. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000130	7.1	36
37	Charge carrier generation through reexcitations of an exciton in poly(p-phenylene vinylene) molecules. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	34
36	Study on charge-transfer state in a donor-acceptor polymer heterojunction. <i>Organic Electronics</i> , <b>2011</b> , 12, 1010-1016	3.5	25
35	Intrachain polaron motion and geminate combination in donor-acceptor copolymers: Effects of level offset and interfacial coupling. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	23
34	Exciton formation with interchain couplings in organic polymers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 2490-2495	2.3	21
33	Ultrafast Exciton Migration and Dissociation in $\pi$ -Conjugated Polymers Driven by Local Nonuniform Electric Fields. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 20546-20552	3.8	15
32	A theoretical study on photoexcitations in poly(p-phenylene vinylene). <i>Organic Electronics</i> , <b>2009</b> , 10, 1601-1605	3.5	15
31	Exciton transport in $\pi$ -conjugated polymers with conjugation defects. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 24971-24978	3.6	14
30	Polaron formation dynamics in conducting polymers. <i>Synthetic Metals</i> , <b>2007</b> , 157, 380-385	3.6	13
29	Spin polarization of excitons in organic multiferroic composites. <i>Scientific Reports</i> , <b>2016</b> , 6, 28656	4.9	11
28	Study on the internal conversion dynamics following different electron transfer at a donor/acceptor polymer heterointerface. <i>Organic Electronics</i> , <b>2016</b> , 28, 73-81	3.5	10
27	Exciton intrachain transport induced by interchain packing configurations in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18600-5	3.6	9
26	Charge Separation from a $\pi$ - $\pi^*$ Charge-Transfer State Driven by a Nonuniform Electric Field in Polymer-Based Donor/Acceptor Heterojunctions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20676-20683	3.8	9
25	Reverse polarization in charged pi-conjugated oligomers. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 234702	3.9	9
24	Ultrafast Charge Separation from a $\pi$ - $\pi^*$ Charge-Transfer State Driven by Nonuniform Packing of Polymers at Donor/Acceptor Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2746-2754	3.8	7
23	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> , <b>2021</b> , 9, 16834-16840	13.4	70
22	Competition between singlet fission and singlet exciton dissociation at the interface in TIPS-pentacene:IT-4F blend. <i>Organic Electronics</i> , <b>2019</b> , 71, 296-302	3.5	6

21	Energy and charge transfer dynamics at an organic donor/acceptor interface. <i>Organic Electronics</i> , <b>2020</b> , 85, 105886	3.5	5
20	Biexcitons generation in a polymer by a femtosecond electric pump pulse. <i>Organic Electronics</i> , <b>2012</b> , 13, 784-788	3.5	5
19	Efficient quantum theory for studying cold charge-transfer state dissociations in donor-acceptor heterojunction organic solar cells. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 123301	3.4	5
18	Migration of an exciton in organic polymers driven by a nonuniform internal electric field. <i>Organic Electronics</i> , <b>2016</b> , 30, 171-175	3.5	4
17	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> , <b>2019</b> , 383, 126001	2.3	4
16	Thermally Induced Exciton Diffusion and Dissociation in Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 28527-28532	3.8	3
15	Effect of intrachain configuration disorder on the exciton delocalization in $\pi$ -conjugated polymers. <i>Organic Electronics</i> , <b>2017</b> , 48, 342-347	3.5	3
14	Dynamics of interchain delocalized polarons in polymers. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2010</b> , 53, 315-320	3.6	3
13	Exciton-to-Charge Dynamics Driven by the Nonuniform Polymer Packing at Donor/Acceptor Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1898-1906	3.8	3
12	Re-excitation dynamics of a bound charge transfer state at organic donor/acceptor interfaces. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 133301	3.4	3
11	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> , <b>2019</b> , 123, 14432-14438	3.8	2
10	Directional and ultrafast migrations of excitons/biexcitons in organic polymers by utilizing a local nonuniform electric field. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11274-11281	7.1	2
9	Temperature effect on the internal conversion dynamics following different stimulated absorptions in a conjugated polymer. <i>Organic Electronics</i> , <b>2018</b> , 56, 201-207	3.5	1
8	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> , <b>2013</b> , 377, 1499-1502	2.3	1
7	Rationalizing charge carrier transport in ternary organic solar cells. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 023302	3.4	1
6	Observing halogen-bond-assisted electron transport in high-performance polymer solar cells. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 183302	3.4	1
5	Aggregation effect of acceptor molecules on the energy and charge transfer dynamics at an organic donor/acceptor interface. <i>Organic Electronics</i> , <b>2022</b> , 100, 106396	3.5	1
4	Realization of the population inversion in a conjugated polymer by a single or double stimulating pulse. <i>Organic Electronics</i> , <b>2014</b> , 15, 1965-1971	3.5	0

- 3 Sub-bandgap photoexcited dynamics at an organic donor/acceptor photovoltaic interface. *Optics Letters*, **2020**, 45, 4492-4495 3 0
- 2 Voltage Dependence of Magnetoconductance in Organic Semiconductor Devices. *Applied Physics Express*, **2013**, 6, 021603 2.4
- 1 Migration dynamics of excitons/biexcitons induced by a funnel-like nonuniform compression strain over organic polymers. *Applied Physics Letters*, **2021**, 119, 263302 3.4