

Kun Gao

List of Publications by Year in descending order

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papers

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citations

840585

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docs citations

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times ranked

367
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Loss in Organic Solar Cells: Mechanisms, Strategies, and Prospects. <i>Solar Rrl</i> , 2020, 4, 2000130.	3.1	59
2	Charge carrier generation through reexcitations of an exciton in poly(p-phenylene vinylene) molecules. <i>Physical Review B</i> , 2007, 75, .	1.1	37
3	Study on charge-transfer state in a donor-acceptor polymer heterojunction. <i>Organic Electronics</i> , 2011, 12, 1010-1016.	1.4	26
4	Intrachain polaron motion and geminate combination in donor-acceptor copolymers: Effects of level offset and interfacial coupling. <i>Physical Review B</i> , 2008, 78, .	1.1	25
5	Exciton formation with interchain couplings in organic polymers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2490-2495.	0.9	21
6	A theoretical study on photoexcitations in poly(p-phenylene vinylene). <i>Organic Electronics</i> , 2009, 10, 1601-1605.	1.4	20
7	Exciton transport in π -conjugated polymers with conjugation defects. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24971-24978.	1.3	19
8	Ultrafast Exciton Migration and Dissociation in π -Conjugated Polymers Driven by Local Nonuniform Electric Fields. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20546-20552.	1.5	18
9	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.	5.2	15
10	Polaron formation dynamics in conducting polymers. <i>Synthetic Metals</i> , 2007, 157, 380-385.	2.1	14
11	Spin polarization of excitons in organic multiferroic composites. <i>Scientific Reports</i> , 2016, 6, 28656.	1.6	12
12	Study on the internal conversion dynamics following different electron transfer at a donor/acceptor polymer heterointerface. <i>Organic Electronics</i> , 2016, 28, 73-81.	1.4	12
13	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.	1.5	11
14	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.	1.5	11
15	Reverse polarization in charged π -conjugated oligomers. <i>Journal of Chemical Physics</i> , 2005, 123, 234702.	1.2	10
16	Exciton intrachain transport induced by interchain packing configurations in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18600-18605.	1.3	10
17	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.	1.4	9
18	Rationalizing charge carrier transport in ternary organic solar cells. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8

#	ARTICLE	IF	CITATIONS
19	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.	0.9	7
20	Re-excitation dynamics of a "cold" charge transfer state at organic donor/acceptor interfaces. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	7
21	Effect of intrachain configuration disorder on the exciton delocalization in π -conjugated polymers. <i>Organic Electronics</i> , 2017, 48, 342-347.	1.4	6
22	Thermally Induced Exciton Diffusion and Dissociation in Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28527-28532.	1.5	6
23	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.	1.5	6
24	Photoinduced intra- and inter-molecular charge transfer dynamics in organic small molecules with an intra-molecular push-pull electronic structure. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10106-10113.	2.7	6
25	Biexcitons generation in a polymer by a femtosecond electric pump pulse. <i>Organic Electronics</i> , 2012, 13, 784-788.	1.4	5
26	Migration of an exciton in organic polymers driven by a nonuniform internal electric field. <i>Organic Electronics</i> , 2016, 30, 171-175.	1.4	5
27	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.	1.5	5
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.	2.7	5
29	Energy and charge transfer dynamics at an organic donor/acceptor interface. <i>Organic Electronics</i> , 2020, 85, 105886.	1.4	5
30	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.	1.5	4
31	Observing halogen-bond-assisted electron transport in high-performance polymer solar cells. <i>Applied Physics Letters</i> , 2021, 119, 183302.	1.5	4
32	Dynamics of interchain delocalized polarons in polymers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 315-320.	2.0	3
33	Temperature effect on the internal conversion dynamics following different stimulated absorptions in a conjugated polymer. <i>Organic Electronics</i> , 2018, 56, 201-207.	1.4	3
34	Realization of the population inversion in a conjugated polymer by a single or double stimulating pulse. <i>Organic Electronics</i> , 2014, 15, 1965-1971.	1.4	2
35	Sub-bandgap photoexcited dynamics at an organic donor/acceptor photovoltaic interface. <i>Optics Letters</i> , 2020, 45, 4492.	1.7	2
36	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.	0.9	1

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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.	1.4	1
38	Migration dynamics of excitons/biexcitons induced by a funnel-like nonuniform compression strain over organic polymers. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	1
39	Voltage Dependence of Magnetoconductance in Organic Semiconductor Devices. <i>Applied Physics Express</i> , 2013, 6, 021603.	1.1	0