Qiuyang Li

List of Publications by Year
in descending order

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27	1,340	430874 18	552781 26
papers	citations	h-index	g-index

28	28	28	2070
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	12.6	262
2	Area- and Thickness-Dependent Biexciton Auger Recombination in Colloidal CdSe Nanoplatelets: Breaking the â€œUniversal Volume Scaling Lawâ€• Nano Letters, 2017, 17, 3152-3158.	9.1	114
3	Efficient and Ultrafast Formation of Long-Lived Charge-Transfer Exciton State in Atomically Thin Cadmium Selenide/Cadmium Telluride Type-II Heteronanosheets. ACS Nano, 2015, 9, 961-968.	14.6	106
4	Two-Dimensional Morphology Enhances Light-Driven H₂ Generation Efficiency in CdS Nanoplatelet-Pt Heterostructures. Journal of the American Chemical Society, 2018, 140, 11726-11734.	13.7	106
5	Ultrafast exciton quenching by energy and electron transfer in colloidal CdSe nanosheetâ€“Pt heterostructures. Chemical Science, 2015, 6, 1049-1054.	7.4	88
6	Ultrafast Charge Separation in Two-Dimensional CsPbBr₃ Perovskite Nanoplatelets. Journal of Physical Chemistry Letters, 2019, 10, 566-573.	4.6	71
7	Size-Independent Exciton Localization Efficiency in Colloidal CdSe/CdS Core/Crown Nanosheet Type-I Heterostructures. ACS Nano, 2016, 10, 3843-3851.	14.6	70
8	Low Threshold Multiexciton Optical Gain in Colloidal CdSe/CdTe Core/Crown Type-II Nanoplatelet Heterostructures. ACS Nano, 2017, 11, 2545-2553.	14.6	65
9	Size- and Morphology-Dependent Auger Recombination in CsPbBr₃ Perovskite Two-Dimensional Nanoplatelets and One-Dimensional Nanorods. Nano Letters, 2019, 19, 5620-5627.	9.1	53
10	Direct determination of momentum-resolved electron transfer in the photoexcited van der Waals heterobilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	43
11	Reducing the Optical Gain Threshold in Two-Dimensional CdSe Nanoplatelets by the Giant Oscillator Strength Transition Effect. Journal of Physical Chemistry Letters, 2019, 10, 1624-1632.	4.6	38
12	Efficient Diffusive Transport of Hot and Cold Excitons in Colloidal Type II CdSe/CdTe Core/Crown Nanoplatelet Heterostructures. ACS Energy Letters, 2017, 2, 174-181.	17.4	37
13	High-Efficiency Optical Gain in Type-II Semiconductor Nanocrystals of Alloyed Colloidal Quantum Wells. Journal of Physical Chemistry Letters, 2017, 8, 5317-5324.	4.6	37
14	Exciton dissociation dynamics and light-driven H2 generation in colloidal 2D cadmium chalcogenide nanoplatelet heterostructures. Nano Research, 2018, 11, 3031-3049.	10.4	35
15	Size dependent charge separation and recombination in CsPbI3 perovskite quantum dots. Journal of Chemical Physics, 2019, 151, 074705.	3.0	35
16	Mechanism of Efficient Viologen Radical Generation by Ultrafast Electron Transfer from CdS Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 17136-17142.	3.1	34
17	A model for optical gain in colloidal nanoplatelets. Chemical Science, 2018, 9, 728-734.	7.4	32
18	Exciton Spatial Coherence and Optical Gain in Colloidal Two-Dimensional Cadmium Chalcogenide Nanoplatelets. Accounts of Chemical Research, 2019, 52, 2684-2693.	15.6	28

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19	Direct View of Phonon Dynamics in Atomically Thin MoS₂. Nano Letters, 2022, 22, 4718-4724.	9.1	19
20	Disentangling Many-Body Effects in the Coherent Optical Response of 2D Semiconductors. Nano Letters, 2022, 22, 5322-5329.	9.1	18
21	Enhanced Light-Driven Charge Separation and H₂ Generation Efficiency in WSe₂ Nanosheetâ€“Semiconductor Nanocrystal Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 44769-44776.	8.0	13
22	Strong polaronic effect in a superatomic two-dimensional semiconductor. Journal of Chemical Physics, 2020, 152, 171101.	3.0	8
23	Ultrafast evolution of the complex dielectric function of monolayer WS₂ after photoexcitation. Physical Chemistry Chemical Physics, 2021, 23, 22640-22646.	2.8	8
24	Contributions of exciton fine structure and hole trapping on the hole state filling effect in the transient absorption spectra of CdSe quantum dots. Journal of Chemical Physics, 2022, 156, 054704.	3.0	8
25	How Exciton and Single Carriers Block the Excitonic Transition in Two-Dimensional Cadmium Chalcogenide Nanoplatelets. Nano Letters, 2020, 20, 6162-6169.	9.1	6
26	Hyperspectral microscopy of two-dimensional semiconductors. Optical Materials: X, 2022, 14, 100145.	0.8	5
27	Exciton Transport and Interfacial Charge Transfer in Semiconductor Nanocrystals and Heterostructures. Springer Handbooks, 2022, , 985-1012.	0.6	1