

Lei Wang

List of Publications by Year in descending order

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46
papers

6,869
citations

236612

25
h-index

233125

45
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all docs

46
docs citations

46
times ranked

9732
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of Room-Temperature Intravalley Coherent Coupling Processes in Monolayer MoS ₂ . Laser and Photonics Reviews, 2022, 16, .	4.4	11
2	Spin-Valley Depolarization in van der Waals Heterostructures. Journal of Physical Chemistry Letters, 2022, 13, 5501-5507.	2.1	4
3	Observation of robust charge transfer under strain engineering in two-dimensional MoS ₂ -WSe ₂ heterostructures. Nanoscale, 2021, 13, 14081-14088.	2.8	11
4	Trion dynamics and charge photogeneration in MoS ₂ nanosheets prepared by liquid phase exfoliation. Physical Chemistry Chemical Physics, 2021, 23, 22430-22436.	1.3	2
5	Many-particle induced band renormalization processes in few- and mono-layer MoS ₂ . Nanotechnology, 2021, 32, 135208.	1.3	10
6	Electronic structure evolution and exciton energy shifting dynamics in WSe ₂ : from monolayer to bulk. Journal Physics D: Applied Physics, 2021, 54, 354002.	1.3	4
7	Observation of quantum-confined exciton states in monolayer WS ₂ quantum dots by ultrafast spectroscopy. Nanoscale, 2021, 13, 17093-17100.	2.8	7
8	Layer-Dependent Electron Transfer and Recombination Processes in MoS ₂ /WSe ₂ Multilayer Heterostructures. Journal of Physical Chemistry Letters, 2020, 11, 9649-9655.	2.1	15
9	Transient Depolarization Spectroscopic Study on Electronic Structure and Fluorescence Origin of Graphene Oxide. Journal of Physical Chemistry Letters, 2020, 11, 1483-1489.	2.1	5
10	Ultrafast Spectroscopic Study of Insulator-Semiconductor-Semimetal Transitions in Graphene Oxide and Its Reduced Derivatives. Journal of Physical Chemistry C, 2019, 123, 22550-22555.	1.5	15
11	Investigating the dynamics of excitons in monolayer WSe ₂ before and after organic super acid treatment. Nanoscale, 2018, 10, 9346-9352.	2.8	12
12	Slow cooling and efficient extraction of C-exciton hot carriers in MoS ₂ monolayer. Nature Communications, 2017, 8, 13906.	5.8	132
13	Photoluminescence quenching of inorganic cesium lead halides perovskite quantum dots (CsPbX ₃) by electron/hole acceptor. Physical Chemistry Chemical Physics, 2017, 19, 1920-1926.	1.3	57
14	Fluorescence evolution processes of visible/ultraviolet photo-reduced graphene oxide. Optical Materials Express, 2017, 7, 2519.	1.6	7
15	Dynamics of Strong Coupling between J-Aggregates and Surface Plasmon Polaritons in Subwavelength Hole Arrays. Advanced Functional Materials, 2016, 26, 6198-6205.	7.8	40
16	As-grown graphene/copper nanoparticles hybrid nanostructures for enhanced intensity and stability of surface plasmon resonance. Scientific Reports, 2016, 6, 37190.	1.6	28
17	The role of Rabi splitting tuning in the dynamics of strongly coupled J-aggregates and surface plasmon polaritons in nanohole arrays. Nanoscale, 2016, 8, 13445-13453.	2.8	40
18	Insight into the effect of functional groups on visible-fluorescence emissions of graphene quantum dots. Journal of Materials Chemistry C, 2016, 4, 2235-2242.	2.7	51

#	ARTICLE	IF	CITATIONS
19	Ultrafast optical spectroscopy of surface-modified silicon quantum dots: unraveling the underlying mechanism of the ultrabright and color-tunable photoluminescence. <i>Light: Science and Applications</i> , 2015, 4, e245-e245.	7.7	93
20	Investigating the surface state of graphene quantum dots. <i>Nanoscale</i> , 2015, 7, 7927-7933.	2.8	196
21	In Situ Construction of Nanoscale CdTe/CdS Bulk Heterojunctions for Inorganic Nanocrystal Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400235.	10.2	44
22	Common Origin of Green Luminescence in Carbon Nanodots and Graphene Quantum Dots. <i>ACS Nano</i> , 2014, 8, 2541-2547.	7.3	701
23	Size-Dependent Property and Cell Labeling of Semiconducting Polymer Dots. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10802-10812.	4.0	74
24	Synthesis of a Water-Soluble Conjugated Polymer Based on Thiophene for an Aqueous-Processed Hybrid Photovoltaic and Photodetector Device. <i>Advanced Materials</i> , 2014, 26, 3655-3661.	11.1	35
25	Electron Extraction Dynamics in CdSe and CdSe/CdS/ZnS Quantum Dots Adsorbed with Methyl Viologen. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17240-17246.	1.5	42
26	Investigation of photoluminescence mechanism of graphene quantum dots and evaluation of their assembly into polymer dots. <i>Carbon</i> , 2014, 77, 462-472.	5.4	124
27	Surface-Modified Silicon Nanoparticles with Ultrabright Photoluminescence and Single-Exponential Decay for Nanoscale Fluorescence Lifetime Imaging of Temperature. <i>Journal of the American Chemical Society</i> , 2013, 135, 14924-14927.	6.6	174
28	Internal structure-mediated ultrafast energy transfer in self-assembled polymer-blend dots. <i>Nanoscale</i> , 2013, 5, 7265.	2.8	14
29	Preparation and time-resolved fluorescence study of RGB organic crystals. <i>Organic Electronics</i> , 2013, 14, 389-395.	1.4	20
30	Graphitic carbon quantum dots as a fluorescent sensing platform for highly efficient detection of Fe ³⁺ ions. <i>RSC Advances</i> , 2013, 3, 3733.	1.7	246
31	Highly Photoluminescent Carbon Dots for Multicolor Patterning, Sensors, and Bioimaging. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3953-3957.	7.2	2,907
32	Unraveling Bright Molecule-Like State and Dark Intrinsic State in Green-Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. <i>Advanced Optical Materials</i> , 2013, 1, 264-271.	3.6	144
33	Bioinspired Photoelectric Conversion System Based on Carbon-Quantum-Dot-Doped Dye-Semiconductor Complex. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5080-5084.	4.0	103
34	Femtosecond Spectroscopic Study of Photoinduced Charge Separation and Recombination in the Donor-Acceptor Co-Oligomers for Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4836-4843.	1.5	11
35	Direct laser interference ablating nanostructures on organic crystals. <i>Optics Letters</i> , 2012, 37, 686.	1.7	13
36	Distributed feedback lasing from thin organic crystal based on active waveguide grating structures. <i>Organic Electronics</i> , 2012, 13, 1602-1605.	1.4	13

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37	A general route to make non-conjugated linear polymers luminescent. <i>Chemical Communications</i> , 2012, 48, 10889.	2.2	183
38	Surface Chemistry Routes to Modulate the Photoluminescence of Graphene Quantum Dots: From Fluorescence Mechanism to Upâ€Conversion Bioimaging Applications. <i>Advanced Functional Materials</i> , 2012, 22, 4732-4740.	7.8	1,019
39	Investigation of Polaron Pair Dynamics in Poly(3-Hexylthiophene) Film by Time Resolved Spectroscopy. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 425-432.	1.0	9
40	Comparative Time-Resolved Study of Two Aggregation-Induced Emissive Molecules. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16150-16154.	1.5	46
41	Exciton diffusion and charge transfer dynamics in nano phase-separated P3HT/PCBM blend films. <i>Nanoscale</i> , 2011, 3, 2280.	2.8	99
42	Transient Absorption Spectroscopic Study on Band-Structure-Type Change in CdTe/CdS Core-Shell Quantum Dots. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 1177-1184.	1.0	27
43	Excited State Dynamics of 2-MPT-Derived Fluorescent Molecular Switches. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 1163-1170.	1.0	0
44	Polarization dependent two-photon properties in an organic crystal. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	26
45	Amplified spontaneous emission in the cyano-substituted oligo(p-phenylenevinylene) organic crystals: Effect of excitation wavelength. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	20
46	Study of ElectronâˆPhonon Coupling Dynamics in Au Nanorods by Transient Depolarization Measurements. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2913-2917.	1.5	35