

Ying-hui Wang

List of Publications by Year in descending order

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81
papers

2,485
citations

567281

15
h-index

197818

49
g-index

83
all docs

83
docs citations

83
times ranked

3459
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Dye-Sensitized Solar Cells: The Influence of Lithium Ions on Exciton Dissociation, Charge Recombination, and Surface States. <i>ACS Nano</i> , 2010, 4, 6032-6038.	14.6	531
2	Employing $\sim 100\%$ Excitons in OLEDs by Utilizing a Fluorescent Molecule with Hybridized Local and Charge-Transfer Excited State. <i>Advanced Functional Materials</i> , 2014, 24, 1609-1614.	14.9	527
3	Zn-Alloyed CsPbI ₃ Nanocrystals for Highly Efficient Perovskite Light-Emitting Devices. <i>Nano Letters</i> , 2019, 19, 1552-1559.	9.1	395
4	Engineering Organic Sensitizers for Iodine-Free Dye-Sensitized Solar Cells: Red-Shifted Current Response Concomitant with Attenuated Charge Recombination. <i>Journal of the American Chemical Society</i> , 2011, 133, 11442-11445.	13.7	284
5	Ultrastable Quantum-Dot Light-Emitting Diodes by Suppression of Leakage Current and Exciton Quenching Processes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31385-31391.	8.0	119
6	Exciton Relaxation Dynamics in Photo-Excited CsPbI ₃ Perovskite Nanocrystals. <i>Scientific Reports</i> , 2016, 6, 29442.	3.3	69
7	Study of photoluminescence characteristics of CdSe quantum dots hybridized with Cu nanowires. <i>Luminescence</i> , 2016, 31, 1298-1301.	2.9	44
8	Linear and nonlinear optical properties of two novel D π -A π -D type conjugated oligomers with different donors. <i>Optical Materials</i> , 2013, 35, 467-471.	3.6	30
9	Spontaneous emission of semiconductor quantum dots in inverse opal SiO ₂ photonic crystals at different temperatures. <i>Luminescence</i> , 2016, 31, 4-7.	2.9	26
10	Investigation of Hot Carrier Cooling Dynamics in Monolayer MoS ₂ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 861-868.	4.6	20
11	Cesium lead halide perovskite quantum dot-based warm white light-emitting diodes with high color rendering index. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	19
12	Pressure Effects on Optoelectronic Properties of CsPbBr ₃ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11239-11247.	3.1	18
13	Effects of π -spacers on the linear and nonlinear optical properties of novel fluorenone-based D π -A π -D type conjugated oligomers with different donors. <i>Optical Materials</i> , 2013, 35, 1373-1377.	3.6	17
14	Investigation on Photophysical Properties of D π -A π -D Type Fluorenone-Based Linear Conjugated Oligomers by Using Femtosecond Transient Absorption Spectroscopy. <i>Photochemistry and Photobiology</i> , 2014, 90, 29-34.	2.5	17
15	Theoretical and experimental investigation on the photophysical properties of star-shaped monodisperse oligo(9,9-di-n-octylfluorene-2,7-vinylene)s functionalized truxenes. <i>Chemical Physics Letters</i> , 2013, 566, 17-20.	2.6	16
16	Temperature-Dependent Dynamic Carrier Process of FAPbI ₃ Nanocrystals TM Film. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5093-5098.	3.1	14
17	Studying of the photoluminescence characteristics of AgInS ₂ quantum dots. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	13
18	Studying of the Biexciton Characteristics in Monolayer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 1749-1754.	3.1	13

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19	Investigation on the linear and nonlinear optical properties of fluorenone-based linear conjugated oligomers: The influence of ï€-spacer. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 261, 41-45.	3.9	11
20	Manipulating fluorescence characteristics of conjugated fluorescent molecules incorporated into three-dimensional poly(methyl methacrylate) opal photonic crystals. <i>Applied Physics Express</i> , 2014, 7, 025202.	2.4	10
21	Concentration dependent carriers dynamics in CsPbBr ₃ perovskite nanocrystals film with transient grating. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	10
22	Linear and Nonlinear Optical Properties of Novel Multi-branched Oligomers. <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 636-641.	1.3	9
23	Modulation of spontaneous emission characteristics of Alq ₃ in three-dimensional PMMA photonic crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 842-847.	2.1	9
24	Photo-physical properties of an opto-electronic material based on triphenylamine and diphenylfumaronitrile. <i>Journal of Luminescence</i> , 2018, 204, 327-332.	3.1	9
25	Studying of photo-excitation dynamics and photodetector based on MoSe ₂ nanosheet. <i>Optical Materials</i> , 2019, 98, 109429.	3.6	9
26	Ultrafast carrier dynamics in double perovskite Cs ₂ AgBiBr ₆ nanocrystals. <i>Applied Physics Express</i> , 2020, 13, 121003.	2.4	9
27	Optical Properties of Inorganic Halide Perovskite Nanorods: Role of Anisotropy, Temperature, Pressure, and Nonlinearity. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2003-2012.	3.1	9
28	Molecular Conformation Engineering To Achieve Longer and Brighter Deep Red/Near-Infrared Emission in Crystalline State. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4754-4761.	4.6	9
29	Pressure-Dependent Relaxation Dynamics of Excitons in Conjugated Polymer Film. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13194-13199.	3.1	8
30	Interparticle Spacing Effect among Quantum Dots with High-Pressure Regulation. <i>Nanomaterials</i> , 2021, 11, 325.	4.1	8
31	Manipulating the Photoluminescence and Carrier Characteristics of Excited FAPbBr ₃ Nanocrystals with Pressure. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1041-1047.	3.1	8
32	Interfacial Stress-Modulated Mechanosensitive Upconversion Luminescence of NaErF ₄ Based Heteroepitaxial Core-Shell Nanoparticles. <i>Advanced Optical Materials</i> , 2022, 10, 2101702.	7.3	8
33	Scanning the optoelectronic properties of Cs ₄ Cu _x Ag ₂ Sb ₂ Cl ₁₂ double perovskite nanocrystals: the role of Cu ²⁺ content. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5526-5533.	5.5	8
34	Ultra-fast excitation dynamics in low bandgap polymer solar cell. <i>Applied Physics Letters</i> , 2013, 103, 073902.	3.3	7
35	Investigation on ðœExcimerðœ-Formation Mechanism of Linear Oligofluorenes-Functionalized Anthracenes by Using Transient Absorption Spectroscopy. <i>Photochemistry and Photobiology</i> , 2014, 90, 45-50.	2.5	7
36	Influence of electronic acceptor on the excited state properties of push-pull chromophores. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 221-224.	3.9	7

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37	Acceptor number-dependent ultrafast photo-physical properties of push-pull chromophores using time-resolved methods. <i>Chemical Physics Letters</i> , 2018, 698, 127-131.	2.6	7
38	Study on photoelectric characteristics of monolayer WS ₂ films. <i>RSC Advances</i> , 2019, 9, 37195-37200.	3.6	7
39	Scanning Ultrafast Spectral Dynamics of Triphenylamine-Modified Vinylbenzothiazole Derivative: Role of Solvent Polarity and Temperature. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7603-7609.	4.6	7
40	Temperature-Dependent Ultrafast Spectral Response of FAPb(Br _{0.4} IO _{0.6}) ₃ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1157-1166.	3.1	7
41	Fluorescence resonance energy transfer between conjugated molecules infiltrated in three-dimensional opal photonic crystals. <i>Journal of Luminescence</i> , 2015, 158, 281-285.	3.1	6
42	Temperature-dependent charge carrier dynamics investigation of heterostructured Cu ₂ S-In ₂ S ₃ nanocrystals films using injected charge extraction by linearly increasing voltage. <i>Applied Physics Letters</i> , 2017, 110, 083104.	3.3	6
43	Role of tert-butyl in the linear and nonlinear optical property of push-pull chromophores. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 351, 240-244.	3.9	6
44	The nonlinear and linear photo-physical properties of π -conjugated extensions based on difluoroboron β^2 -diketonate complexes with terminal triphenylamines: The role of vinyl unit. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 400-405.	3.9	6
45	Manipulating hot carrier behavior of MAPbBr ₃ nanocrystal by photon flux and temperature. <i>Journal of Luminescence</i> , 2021, 239, 118332.	3.1	6
46	Investigation on Excited-State Photophysical Characteristics of Low Bandgap Polymer APFO3. <i>Chinese Journal of Chemical Physics</i> , 2014, 27, 109-114.	1.3	5
47	Charge carrier dynamics investigation of CuInS ₂ quantum dots films using injected charge extraction by linearly increasing voltage (i-CELIV): the role of ZnS Shell. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	5
48	Nano-sensor Based on MoS ₂ Nanosheet mixed with Au quantum dot: Role of Layer Number and Temperature. <i>Electroanalysis</i> , 2019, 31, 422-427.	2.9	5
49	Optical Property of Inorganic Halide Perovskite Hexagonal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25044-25054.	3.1	5
50	Layer number-dependent optoelectronic characteristics of quasi-2D PBA ₂ (MAPbBr ₃) _{n-1} PbBr ₄ perovskite films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17033-17041.	5.5	5
51	Process Optimization for Preparation of Hydrochar with Abundant Surface Functional Groups and Promising Adsorption Capacity. <i>Science of Advanced Materials</i> , 2022, 14, 86-97.	0.7	5
52	Time-resolved spectroscopy study of donor-acceptor-type copolymers in a monodisperse system: The effect of ratio between the acceptor and the donor. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 992-997.	2.1	4
53	Studying the emission complexity of conjugated molecules by manipulating the molecular aggregate state. <i>New Journal of Chemistry</i> , 2014, 38, 3885-3888.	2.8	4
54	Nonlinear Optical Properties of D- π -A- π -D Type Oligomers with Different Conjugation Length. <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 557-562.	1.3	4

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55	Studying of the pressure-induced photoluminescence characteristics of CsPbI ₃ nanocrystals. <i>Optical Materials</i> , 2021, 122, 111648.	3.6	4
56	Temperature-dependent and nonlinear optical response of double perovskite Cs ₂ AgBiBr ₆ nanocrystals. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4
57	Photovoltaic performance and charge recombination dynamics of P3HT/PCBM blend heterojunction. <i>Chemical Research in Chinese Universities</i> , 2013, 29, 1185-1188.	2.6	3
58	π-Conjugated Unit-Dependent Optical Properties of Linear Conjugated Oligomers. <i>Chinese Journal of Chemical Physics</i> , 2014, 27, 315-320.	1.3	3
59	Studying of the photoluminescence of MEH-PPV-Au nanoparticles hybrid system. <i>Journal of Modern Optics</i> , 2015, 62, 387-391.	1.3	3
60	Studying of the photoluminescence characteristics of Au(0)@Au(I)-thiolate core-shell nanoclusters. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	3
61	Photo-induced birefringence of azo-dye based on three-dimensional opal photonic crystals. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 1063-1068.	2.6	3
62	Study of the photoluminescence properties of two-dimensional dye doped photonic crystals based on localized surface plasmon resonance. <i>Journal of Luminescence</i> , 2017, 190, 56-61.	3.1	3
63	Dynamic mechanism of relaxation paths occurring in TPA-DCPP: Roles of solvent and temperature. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 400-405.	2.6	3
64	Studying of photoluminescence property of carbazole unit based push-pull oligomers. <i>AIP Advances</i> , 2019, 9, 035113.	1.3	3
65	Scanning the optical properties of 4-(1,1-difluoro-1H-10H-benzo[4,5]thiazolo[3,2-c][1,3,2]oxazaborin-3-yl)-N,N-dimethylaniline in mono-disperse and aggregation systems. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13266-13275.		
66	Cooling and diffusion characteristics of a hot carrier in the monolayer WS ₂ . <i>Optics Express</i> , 2021, 29, 7736.	3.4	3
67	Ultrafast Electron Transfer in Binary Nanoparticle Superlattices under High Pressure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100066.	2.4	3
68	Emission and energy transfer characteristics of coumarin 6 molecules doped in opal polymer photonic crystal. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 466-470.	2.6	2
69	Dissipation dynamics of intrachain exciton coupled with phonons in MEH-PPV: Time-resolved multiplex coherent anti-Stokes Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 557-562.	2.5	2
70	Study of the Photoluminescence Characteristics of 4,4'-((1,1-difluoro-1H-10H-benzo[4,5]thiazolo[3,2-c][1,3,2]oxazaborin-3-yl)bis(N,N-dimethylaniline)). <i>Journal of Physical Chemistry B</i> , 2021, 125, 4132-4140.	2.6	2
71	Synergetic interfacial passivation, band alignment, and long-term stability with halide-optimized CsPbBr ₃ nanocrystals for high-efficiency MAPbI ₃ solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5134-5140.	5.5	2
72	Generating and Capturing Secondary Hot Carriers in Monolayer Tungsten Dichalcogenides. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5703-5710.	4.6	2

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73	Investigation on the photophysics of the narrow bandgap polymer for PDPPTT-T. Journal of Molecular Structure, 2013, 1050, 5-9.	3.6	1
74	Theoretical and experimental studies on photophysical characteristics of low bandgap polymers. Chemical Research in Chinese Universities, 2014, 30, 513-517.	2.6	1
75	Investigation of Ultrafast Electronic Transfer Process on Organic/Inorganic Heterojunction by Femtosecond Transient Absorption. Chinese Journal of Chemical Physics, 2016, 29, 389-394.	1.3	1
76	Scanning the energy dissipation process of energetic materials based on excited state relaxation and vibration-vibration coupling. Chinese Physics B, 2018, 27, 104205.	1.4	1
77	Effects of Replacement on the Optical Properties of Narrow Bandgap Polymers: Comparing the Difference Between Thieno[3,2-b]thiophene Units and Thiophene Units. Chemical Research in Chinese Universities, 2019, 35, 146-149.	2.6	1
78	Carrier dynamics of CdS/MoS2 heterostructure nanocrystal films affected by annealing effect. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	1
79	Theoretical and experimental investigation on photophysical properties of the π -conjugated extension dependent fluorene based oligomers. Journal of Molecular Structure, 2013, 1054-1055, 89-93.	3.6	0
80	Charge carrier dynamics in PDPP-F/PCBM heterojunction solar cells. Chemical Research in Chinese Universities, 2016, 32, 1034-1037.	2.6	0
81	Role of surface trapping state in the charge exchange characteristics of CdSe nanorod. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	0