

Jinquan Chen

List of Publications by Year in descending order

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90
papers

3,370
citations

147801

31
h-index

155660

55
g-index

92
all docs

92
docs citations

92
times ranked

5213
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient hot-electron transfer by a plasmon-induced interfacial charge-transfer transition. <i>Science</i> , 2015, 349, 632-635.	12.6	951
2	A stable electron-deficient metal-organic framework for colorimetric and luminescence sensing of phenols and anilines. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9236-9244.	10.3	127
3	Increasing Effectiveness of Photogenerated Carriers by in Situ Anchoring of Cu ₂ O Nanoparticles on a Nitrogen-Doped Porous Carbon Yolk-Shell Cuboctahedral Framework. <i>ACS Catalysis</i> , 2018, 8, 3348-3356.	11.2	112
4	Universal Length Dependence of Rod-to-Seed Exciton Localization Efficiency in Type I and Quasi-Type II CdSe@CdS Nanorods. <i>ACS Nano</i> , 2015, 9, 4591-4599.	14.6	92
5	Versatile and Switchable Responsive Properties of a Lanthanide-Uiologen Metal-Organic Framework. <i>Small</i> , 2019, 15, e1803468.	10.0	88
6	Interfacial Clustering-Triggered Fluorescence-Phosphorescence Dual Solvoluminescence of Metal Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3980-3985.	4.6	79
7	Switchable organoplatinum metallacycles with high quantum yields and tunable fluorescence wavelengths. <i>Nature Communications</i> , 2019, 10, 4285.	12.8	73
8	Comprehensive understanding of heat-induced degradation of triple-cation mixed halide perovskite for a robust solar cell. <i>Nano Energy</i> , 2018, 54, 218-226.	16.0	72
9	Extremely Low-Cost and Green Cellulose Passivating Perovskites for Stable and High-Performance Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13491-13498.	8.0	71
10	Size-Independent Exciton Localization Efficiency in Colloidal CdSe/CdS Core/Crown Nanosheet Type-I Heterostructures. <i>ACS Nano</i> , 2016, 10, 3843-3851.	14.6	70
11	Engineering an N-doped TiO ₂ @N-doped C butterfly-like nanostructure with long-lived photo-generated carriers for efficient photocatalytic selective amine oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2091-2099.	10.3	67
12	A novel ternary heterostructure with dramatic SERS activity for evaluation of PD-L1 expression at the single-cell level. <i>Science Advances</i> , 2018, 4, eaau3494.	10.3	63
13	Highly Sensitive Hill-Type Small-Molecule pH Probe That Recognizes the Reversed pH Gradient of Cancer Cells. <i>Analytical Chemistry</i> , 2018, 90, 5803-5809.	6.5	56
14	Base Stacking in Adenosine Dimers Revealed by Femtosecond Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 6362-6372.	13.7	54
15	Ultrafast Photoinduced Interfacial Proton Coupled Electron Transfer from CdSe Quantum Dots to 4,4'-Bipyridine. <i>Journal of the American Chemical Society</i> , 2016, 138, 884-892.	13.7	52
16	Quasi-type II CuInS ₂ /CdS core/shell quantum dots. <i>Chemical Science</i> , 2016, 7, 1238-1244.	7.4	49
17	Excited States in DNA Strands Investigated by Ultrafast Laser Spectroscopy. <i>Topics in Current Chemistry</i> , 2014, 356, 39-87.	4.0	47
18	Ultrafast nonradiative decay by hypoxanthine and several methylxanthines in aqueous and acetonitrile solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10677.	2.8	46

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19	Engineering the Charge-Transfer State to Facilitate Spin-Orbit Charge Transfer Intersystem Crossing in Spirobis[anthracene]diones. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22179-22184.	13.8	44
20	Hydrogen Bond Donors Accelerate Vibrational Cooling of Hot Purine Derivatives in Heavy Water. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6771-6780.	2.5	43
21	Engineering an N-doped Cu ₂ O@N-C interface with long-lived photo-generated carriers for efficient photoredox catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10220-10226.	10.3	42
22	Role of Photoinduced Exciton in the Transient Terahertz Conductivity of Few-Layer WS ₂ Laminate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20451-20457.	3.1	42
23	A Water-Soluble, Green-Light Triggered, and Photo-Calibrated Nitric Oxide Donor for Biological Applications. <i>Bioconjugate Chemistry</i> , 2018, 29, 1194-1198.	3.6	42
24	Ultrasensitive Sensing of Volatile Organic Compounds Using a Cu-Doped SnO ₂ @NiO p-n Heterostructure That Shows Significant Raman Enhancement**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26260-26267.	13.8	41
25	Influence of Different Diimine (N ⁺) Ligands on the Photophysics and Reverse Saturable Absorption of Heteroleptic Cationic Iridium(III) Complexes Bearing Cyclometalating 2-[3-[7-(Benzothiazol-2-yl)fluoren-2-yl]phenyl]pyridine (C ⁺) Ligands. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23233-23246.	3.1	40
26	Ultrafast Excited-State Dynamics in Hexaethyleneglycol-Linked DNA Homoduplexes Made of A-T Base Pairs. <i>Journal of the American Chemical Society</i> , 2013, 135, 10290-10293.	13.7	39
27	Enhancing photo-reduction quantum efficiency using quasi-type II core/shell quantum dots. <i>Chemical Science</i> , 2016, 7, 4125-4133.	7.4	35
28	Excited State Decay Pathways of 2-Deoxy-5-methylcytidine and Deoxycytidine Revisited in Solution: A Comprehensive Kinetic Study by Femtosecond Transient Absorption. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7027-7037.	2.6	35
29	Mechanism of Photoluminescence in Ag Nanoclusters: Metal-Centered Emission versus Synergistic Effect in Ligand-Centered Emission. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18638-18645.	3.1	33
30	Electric-Field-Mediated Electron Tunneling of Supramolecular Naphthalimide Nanostructures for Biomimetic H ₂ Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1235-1243.	13.8	33
31	Shallow distance-dependent triplet energy migration mediated by endothermic charge-transfer. <i>Nature Communications</i> , 2021, 12, 1532.	12.8	33
32	Thymine Dimer Photoreversal in Purine-Containing Trinucleotides. <i>Journal of Physical Chemistry B</i> , 2012, 116, 698-704.	2.6	32
33	Sensitive determination of dopamine levels via surface-enhanced Raman scattering of Ag nanoparticle dimers. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2337-2347.	6.7	29
34	Dynamic artificial light-harvesting systems based on rotaxane dendrimers. <i>Giant</i> , 2020, 2, 100020.	5.1	27
35	Tuning interfacial sequence between nitrogen-doped carbon layer and Au nanoparticles on metal-organic framework-derived TiO ₂ to enhance photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2020, 397, 125468.	12.7	26
36	Crystallization kinetics of cerium oxide nanoparticles formed by spontaneous, room-temperature hydrolysis of cerium(IV) ammonium nitrate in light and heavy water. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3523-3531.	2.8	24

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37	Decay Pathways of Thymine Revisited. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4819-4828.	2.5	23
38	Ultrafast Excited-State Dynamics of Cytosine Aza-Derivative and Analogues. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2780-2789.	2.5	22
39	A Photo-triggered and photo-calibrated nitric oxide donor: Rational design, spectral characterizations, and biological applications. <i>Free Radical Biology and Medicine</i> , 2018, 123, 1-7.	2.9	22
40	Reductive-damage-induced intracellular maladaptation for cancer electronic interference therapy. <i>CheM</i> , 2022, 8, 866-879.	11.7	21
41	Near-Unity Triplet Generation Promoted via Spiro-Conjugation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	20
42	Turn-on fluorescence detection of cysteine with glutathione protected silver nanoclusters. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 034004.	2.3	19
43	Ultrafast Excited-State Dynamics and Vibrational Cooling of 8-Oxo-7,8-dihydro-2-deoxyguanosine in D_2O . <i>Journal of Physical Chemistry A</i> , 2013, 117, 12851-12857.	2.5	18
44	Using Fractional Intensities of Time-resolved Fluorescence to Sensitive Quantify NADH/NAD ⁺ with Genetically Encoded Fluorescent Biosensors. <i>Scientific Reports</i> , 2017, 7, 4209.	3.3	18
45	Raman Fiber Photometry for Understanding Mitochondrial Superoxide Burst and Extracellular Calcium Ion Influx upon Acute Hypoxia in the Brain of Freely Moving Animals. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202111630.	13.8	18
46	Ultrafast internal conversion dynamics of bilirubin bound to UnaG and its N57A mutant. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2365-2371.	2.8	17
47	A comprehensive study on the generation of reactive oxygen species in Cu ^{II} -catalyzed redox processes. <i>Free Radical Biology and Medicine</i> , 2019, 135, 125-131.	2.9	16
48	Photoinduced Terahertz Conductivity and Carrier Relaxation in Thermal-Reduced Multilayer Graphene Oxide Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2451-2458.	3.1	15
49	Perovskite Mediated Vibronic Coupling of Semiconducting SERS for Biosensing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	15
50	Ultrafast Intersystem Crossing in Epigenetic DNA Nucleoside 2-Deoxy-5-formylcytidine. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5782-5790.	2.6	14
51	Solvent-Dependent Stabilization of a Charge Transfer State is the Key to Ultrafast Triplet State Formation in an Epigenetic DNA Nucleoside. <i>Chemistry - A European Journal</i> , 2021, 27, 10932-10940.	3.3	14
52	The phosphorescence and excitation-wavelength dependent fluorescence kinetics of large-scale graphene oxide nanosheets. <i>RSC Advances</i> , 2017, 7, 22684-22691.	3.6	13
53	Ultrafast Excited-State Intermolecular Proton Transfer in Indigo Oligomer. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6463-6471.	2.5	13
54	Horizontally Aggregation of Monolayer Reduced Graphene Oxide Under Deep UV Irradiation in Solution. <i>Nanoscale Research Letters</i> , 2019, 14, 117.	5.7	13

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55	A fraction of NADH in solution is â€œdarkâ€œ . Implications for metabolic sensing via fluorescence lifetime. <i>Chemical Physics Letters</i> , 2019, 726, 18-21.	2.6	13
56	Direct observation of an intramolecular charge transfer state in epigenetic nucleobase â€œNâ€œ -6-methyladenine. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6878-6885.	2.8	13
57	Sensitive Hg^{2+} Ion Detection Using Metal Enhanced Fluorescence of Novel Polyvinyl Pyrrolidone (PVP)-Templated Gold Nanoparticles. <i>Applied Spectroscopy</i> , 2018, 72, 1645-1652.	2.2	12
58	Plasmonic Electron-Driven Solar-Driven Hydrocarbon Conversion over Au NR@ZnO Core-Shell Nanostructures. <i>ChemCatChem</i> , 2020, 12, 2989-2994.	3.7	12
59	Femtosecond Fluorescence Spectra of NADH in Solution: Ultrafast Solvation Dynamics. <i>Journal of Physical Chemistry B</i> , 2020, 124, 771-776.	2.6	12
60	Dithienylethene metallodendrimers with high photochromic efficiency. <i>Chinese Chemical Letters</i> , 2022, 33, 1613-1618.	9.0	12
61	Engineering the Charge-Transfer State to Facilitate Spin-Orbit Charge Transfer Intersystem Crossing in Spirobis[anthracene]diones. <i>Angewandte Chemie</i> , 2020, 132, 22363-22368.	2.0	11
62	Double Insurance of Continuous Band Structure and $\text{N}^{\text{â€œ}}\text{C}$ Layer Induced Prolonging of Carrier Lifetime to Enhance the Long-Wavelength Visible-Light Catalytic Activity of N-Doped In_2O_3 . <i>Inorganic Chemistry</i> , 2021, 60, 1160-1171.	4.0	11
63	TPZ, a bright centrosymmetric two-photon scaffold for bioimaging. <i>Chemical Communications</i> , 2017, 53, 10938-10941.	4.1	10
64	Numerical Study of Novel Ratiometric Sensors Based on Plasmon-Exciton Coupling. <i>Applied Spectroscopy</i> , 2017, 71, 2377-2384.	2.2	9
65	Dual excited state deactivation pathways in TPZ2: A centrosymmetric dye with both high fluorescence and triplet state quantum yield. <i>Chinese Chemical Letters</i> , 2018, 29, 1486-1488.	9.0	9
66	Ultrafast spectroscopy of biliverdin dimethyl ester in solution: pathways of excited-state depopulation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19903-19912.	2.8	9
67	Unravelling the role of charge transfer state during ultrafast intersystem crossing in compact organic chromophores. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25455-25466.	2.8	9
68	Solvent induced fluorescence enhancement of graphene oxide studied by ultrafast spectroscopy. <i>Chemical Physics</i> , 2018, 508, 1-6.	1.9	8
69	pH Controlled Intersystem Crossing and Singlet Oxygen Generation of 8â€œAzaadenine in Aqueous Solution. <i>ChemPhysChem</i> , 2019, 20, 757-765.	2.1	8
70	Observation of triplet nâ€œ^* state in ultrafast intersystem crossing of 6-azathymine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 396, 112491.	3.9	8
71	Low-threshold stimulated emission in perovskite quantum dots: single-exciton optical gain induced by surface plasmon polaritons at room temperature. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5847-5855.	5.5	8
72	New Insights about the Photostability of DNA/RNA Bases: Triplet nâ€œ^* State Leads to Effective Intersystem Crossing in Pyrimidinones. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2042-2049.	2.6	8

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73	Ultrasensitive Sensing of Volatile Organic Compounds Using a Cu ²⁺ -Doped SnO ₂ /NiO p-n Heterostructure That Shows Significant Raman Enhancement**. <i>Angewandte Chemie</i> , 2021, 133, 26464-26471.	2.0	8
74	Dehydrogenase Binding Sites Abolish the "Dark" Fraction of NADH: Implication for Metabolic Sensing via FLIM. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6721-6727.	2.6	7
75	Ultrafast Fluorescence Spectroscopy via Upconversion and Its Applications in Biophysics. <i>Molecules</i> , 2021, 26, 211.	3.8	7
76	Intramolecular Charge Transfer in 5-Halogen Cytidines Revealed by Femtosecond Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2560-2567.	2.6	6
77	Regulation of Silver Nanoclusters with 4 Orders of Magnitude Variation of Fluorescence Lifetimes with Solvent-Induced Noncovalent Interaction. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5198-5205.	3.1	6
78	Time-Resolved Fluorescence of Water-Soluble Pyridinium Salt: Sensitive Detection of the Conformational Changes of Bovine Serum Albumin. <i>Applied Spectroscopy</i> , 2016, 70, 1733-1738.	2.2	5
79	Direct Observation of Ultrafast Access to a Solvent-Independent Singlet-Triplet Equilibrium State in Acridone Solutions. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13291-13297.	2.6	4
80	Mimicking Photosynthesis with Supercomplexed Lipid Nanoassemblies: Design, Performance, and Enhancement Role of Cholesterol. <i>Langmuir</i> , 2016, 32, 7326-7338.	3.5	3
81	Using a Fluorescent 1-Methyl-4-(2-Pyren-1-Yl-Vinyl)-Pyridinium Iodide to Characterize Solvent Polarities. <i>Journal of Applied Spectroscopy</i> , 2018, 84, 939-947.	0.7	3
82	Hydrogen atom and water complex determine the excited state dynamics of 8-azaguanine. <i>Chemical Physics</i> , 2021, 544, 111118.	1.9	3
83	The mechanodonor-acceptor coupling (MDAC) approach for unidirectional multi-state fluorochromism. <i>Science China Chemistry</i> , 2021, 64, 253-262.	8.2	3
84	Near-Unity Triplet Generation Promoted via Spiro-Conjugation. <i>Angewandte Chemie</i> , 2022, 134, e202113190.	2.0	3
85	Raman Fiber Photometry for Understanding Mitochondrial Superoxide Burst and Extracellular Calcium Ion Influx upon Acute Hypoxia in the Brain of Freely Moving Animals. <i>Angewandte Chemie</i> , 0, , .	2.0	2
86	One order of magnitude increase of triplet state lifetime observed in deprotonated form selenium substituted uracil. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 875-882.	2.8	2
87	Excited State Dynamics of Methylated Guanosine Derivatives Revealed by Femtosecond Time-Resolved Spectroscopy. <i>Photochemistry and Photobiology</i> , 2022, 98, 1008-1016.	2.5	2
88	Fluorescence Dynamics of N-Terminal Tryptofan-X Residues in Polypeptide: pH Response. <i>Journal of Applied Spectroscopy</i> , 2017, 84, 633-638.	0.7	1
89	Rapid, Wide-Range, and Low-Cost Determination of Formaldehyde Based on Porous Silica Gel Plate by Digital Image Colorimetry. <i>Proceedings (mdpi)</i> , 2019, 42, .	0.2	1
90	Near unity charge separation efficiency leads to pure ultraviolet emission in few layer graphene nanosheets. <i>Nanotechnology</i> , 2019, 30, 295201.	2.6	0