Guangjiu Zhao

List of Publications by Year
in descending order

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95 papers	7,851 citations	126708 33 h-index	48187 88 g-index
95 all docs	95 docs citations	95 times ranked	4111 citing authors

#	Article	IF	Citations
1	The hydrogen bond effect on excited state mechanism for 2-isopropyl thioxanone in protic solvents: Experimental and theoretical investigation. Journal of Molecular Liquids, 2022, 345, 117012.	2.3	9
2	Efficient charge generation and low open circuit voltage loss enable a PCE of 10.3% in small molecule donor and polymer acceptor organic solar cells. Journal of Materials Chemistry C, 2022, 10, 2639-2647.	2.7	2
3	Suppression of Energy Metabolism in Cancer Cells with Nutrient-Sensing Nanodrugs. Nano Letters, 2022, 22, 2514-2520.	4.5	13
4	Environmental-friendly lead-free chiral Mn-based metal halides with efficient circularly polarized photoluminescence at room temperature. Journal of Alloys and Compounds, 2022, 910, 164892.	2.8	24
5	Ultrafast nonadiabatic mechanism of plant sunscreens biflavonoids with two excited-state intramolecular proton transfer structures. Journal of Luminescence, 2022, 246, 118816.	1.5	2
6	New insights into the excited state intramolecular proton transfer (ESIPT) competition mechanism for different intramolecular hydrogen bonds of Kaempferol and Quercetin in solution. Journal of Luminescence, 2022, 248, 118914.	1.5	5
7	Memorial Viewpoint for Keli Han. Journal of Physical Chemistry A, 2022, 126, 3973-3975.	1.1	0
8	Site-Selective Photoinduced Electron Transfer of Excited-State Intermolecular Hydrogen-Bonded Cluster in Solution. Journal of Cluster Science, 2021, 32, 93-99.	1.7	2
9	Codoping of Leadâ€Free Double Perovskites Promotes Nearâ€Infrared Photoluminescence. Angewandte Chemie, 2021, 133, 548-550.	1.6	7
10	Circularly Polarized Luminescence from Solventâ€Free Chiral Organic Ïâ€Liquids. Angewandte Chemie - International Edition, 2021, 60, 3745-3751.	7.2	41
11	Coordination-promoted photoluminescence induced by configuration twisting regulation. Journal of Luminescence, 2021, 231, 117783.	1.5	2
12	Codoping of Leadâ€Free Double Perovskites Promotes Nearâ€Infrared Photoluminescence. Angewandte Chemie - International Edition, 2021, 60, 540-542.	7.2	18
13	Non-adiabatic Dynamics Mechanism in Excited State of Novel UV Protective Sunscreen in Rice: Conical Intersection Promotes Internal Conversion. Journal of Cluster Science, 2021, 32, 967-973.	1.7	2
14	Highly efficient photoluminescence of 2D perovskites enabled by dimensional increasing. 2D Materials, 2021, 8, 021003.	2.0	6
15	A novel aggregation induced emission (AIE) fluorescence probe by combining tetraphenylethylene and 2â€²,3â€²-O-isopropylideneadenosine for localizing Golgi apparatus. Sensors and Actuators B: Chemical, 2021, 329, 129245.	4.0	28
16	Nonadiabatic dynamics Mechanisms of natural UV Photoprotection ompounds chlorogenic acid and isochlorogenic acid a: Double conjugated structures but single photoexcited channel. Journal of Molecular Liquids, 2021, 324, 114725.	2.3	10
17	Conformational torsion, intramolecular hydrogen bonding and solvent effects in intersystem crossing of singlet-triplet excited states for heavy-atom-free organic long persistent luminescence. Journal of Molecular Liquids, 2021, 326, 115291.	2.3	5
18	Excitons competition regulation via organic cation-site and halogen-site co-halogenation of (X-p-PEA)2Pb(Cl/Br)4 perovskites. Journal of Colloid and Interface Science, 2021, 588, 494-500.	5.0	4

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19	Unveiling the theoretical mechanism of purely organic room temperature phosphorescence emission and heteroatomic effects on singlet-triplet intersystem crossing for isopropylthioxanthone derivatives. Journal of Luminescence, 2021, 232, 117864.	1.5	14
20	Excited state electronic structures and photochemistry of different oxidation states of 2,2â€²-azino-bis-(3-ethylbenzothiazoline-6-sulfonic acid) (ABTS). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 253, 119503.	2.0	0
21	Elaborating the influence of substituent on energy gap and spin-orbit coupling of singlet-triplet excited states of novel organic light-emitting anthraquinone compounds in solution. Journal of Luminescence, 2021, 234, 117964.	1.5	5
22	A novel lysosomeâ€‐localized fluorescent probe with aggregationâ€‐induced emission without alkalinizing effect. SmartMat, 2021, 2, 554-566.	6.4	25
23	Unveiling the photoluminescence regulation of colloidal perovskite quantum dots via defect passivation and lattice distortion by potassium cations doping: Not the more the better. Journal of Colloid and Interface Science, 2021, 596, 199-205.	5.0	13
24	Nonadiabatic Dynamics Mechanism of Chalcone Analogue Sunscreen FPPO-HBr: Excited State Intramolecular Proton Transfer Followed by Conformation Twisting. Journal of Physical Chemistry B, 2021, 125, 9572-9578.	1.2	15
25	Thermally Activated Delayed Fluorescence Enabled by Reversed Conformational Distortion for Blue Emitters. Journal of Physical Chemistry Letters, 2021, 12, 9501-9507.	2.1	32
26	Excited state trans-cis photoisomerization via non-adiabatic dynamics of novel UVB protective sunscreens. Journal of Luminescence, 2021, 238, 118215.	1.5	2
27	New insights into ESIPT mechanism of three sunscreen compounds in solution: A combined experimental and theoretical study. Colloids and Surfaces B: Biointerfaces, 2021, 207, 112039.	2.5	21
28	Unveiling the nonadiabatic photoisomerization mechanism of hemicyanines for UV photoprotection. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119949.	2.0	2
29	Inversing supramolecular chirality and boosting circularly polarized luminescence of pyrene moieties via a gel matrix. Soft Matter, 2021, 17, 4328-4334.	1.2	10
30	Achieving metal-free phosphorescence in dilute solutions for imaging hypoxia in cells and tumors. Materials Chemistry Frontiers, 2021, 5, 7170-7175.	3.2	12
31	Efficient Photoluminescence of Manganese-Doped Two-Dimensional Chiral Alloyed Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 12129-12134.	2.1	31
32	Excited state intramolecular proton transfer (ESIPT) luminescence mechanism for 4-N,N-diethylamino-3-hydroxyflavone in propylene carbonate, acetonitrile and the mixed solvents. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117416.	2.0	10
33	Anisotropic charge carrier transport of optoelectronic functional seleniumâ€‐containing organic semiconductor materials. Journal of Computational Chemistry, 2020, 41, 976-985.	1.5	10
34	Defect passivation and lattice distortion enhance solid-state photoluminescence of two-dimensional perovskites. 2D Materials, 2020, 7, 031008.	2.0	6
35	Lead-free sodium bismuth halide Cs2NaBiX6 double perovskite nanocrystals with highly efficient photoluminesence. Chemical Engineering Journal, 2020, 397, 125367.	6.6	73
36	Tunable dual fluorescence emissions with high photoluminescence quantum yields modulated by Na ion dispersion method for purely solid state N-doped carbon dots. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112548.	2.0	14

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37	Ultrafast Nonadiabatic Photoisomerization Dynamics Mechanism for the UV Photoprotection of Stilbenoids in Grape Skin. Chemistry - an Asian Journal, 2020, 15, 1478-1483.	1.7	17
38	Combined ultrafast spectroscopic and TDDFT theoretical studies on dual fluorescence emissions promoted by ligand-to-metal charge transfer (LMCT) excited states of tungsten-containing organometallic complexes. Chemical Physics Letters, 2020, 748, 137396.	1.2	3
39	New lead bromide chiral perovskites with ultra-broadband white-light emission. Journal of Materials Chemistry C, 2020, 8, 5673-5680.	2.7	49
40	Photoluminescence spectral broadening, chirality transfer and amplification of chiral perovskite materials (R-X-p-mBZA)₂PbBr₄ (X = H, F, Cl, Br) regulated by van der Waals and halogen atoms interactions. Physical Chemistry Chemical Physics, 2020, 22, 17299-17305.	1.3	31
41	Hydrogen-bond facilitated intramolecular proton transfer in excited state and fluorescence quenching mechanism of flavonoid compounds in aqueous solution. Journal of Molecular Liquids, 2020, 302, 112562.	2.3	34
42	Mechanism for tunable broadband white photoluminescence of one-dimensional (C4N2H14)2Pb1-xMnxBr4 perovskite microcrystals. Journal of Luminescence, 2020, 221, 117045.	1.5	16
43	Theoretical and spectroscopic investigation on ultrafast nonadiabatic photoprotective mechanism of novel ultraviolet protective compounds inspired by natural sunscreens. Journal of Luminescence, 2020, 223, 117228.	1.5	18
44	Phase Regulation Strategy of Perovskite Nanocrystals from 1D Orthomorphic NH₄PbI₃ to 3D Cubic (NH₄)_{0.5}Cs_{0.5}Pb(I_{0.5}Br_{0.5})₃ Phase Enhances Photoluminescence. Angewandte Chemie - International Edition, 2019, 58, 11642-11646.	7.2	75
45	Phase Regulation Strategy of Perovskite Nanocrystals from 1D Orthomorphic NH 4 PbI 3 to 3D Cubic (NH 4) 0.5 Cs 0.5 Pb(I 0.5 Br 0.5) 3 Phase Enhances Photoluminescence. Angewandte Chemie, 2019, 131, 11768-11772.	1.6	11
46	Theoretical modeling of the hydrated serotonin in solution: Insight into intermolecular hydrogen bonding dynamics and spectral shift in the electronic excited states. Journal of Molecular Liquids, 2019, 288, 111093.	2.3	14
47	Excited-State Dynamics of Intermolecular Dihydrogen Bond in Different Systems. , 2019, , 137-153.		0
48	Time-dependent density functional theory (TDDFT) study on the electronic spectroscopic blue-shift phenomenon and photoinduced charge transfer of firefly luciferin anion in aqueous solution: Insight into the excited-state hydrogen bond weakening mechanism. Journal of Luminescence, 2018, 195, 116-119.	1.5	15
49	Combined TDDFT and AIM Insights into Photoinduced Excited State Intramolecular Proton Transfer (ESIPT) Mechanism in Hydroxyl- and Amino-Anthraquinone Solution. Scientific Reports, 2017, 7, 13766.	1.6	29
50	The promotion effects of thionation and isomerization on charge carrier mobility in naphthalene diimide crystals. Physical Chemistry Chemical Physics, 2017, 19, 28175-28181.	1.3	13
51	Charge-transfer mobility and electrical conductivity of PANI as conjugated organic semiconductors. Journal of Chemical Physics, 2017, 147, 114905.	1.2	15
52	DFT/TDDFT theoretical investigation on the excited-state intermolecular hydrogen bonding interactions, photoinduced charge transfer, and vibrational spectroscopic properties of deprotonated deoxyadenosine monophosphate [dAMP-H] â^' anion in aqueous solution: Upon photoexcitation of hydrogen-bonded model complexes [dAMP-H] â^' â€“nH 2 O (n = 0, 1, 2, 3, 4). Journal of Molecular Liquids, 2017, 242, 1118-1122.	2.3	17
53	Influence of the Halogenated Substituent on Charge Transfer Mobility of Aniline Tetramer and Derivatives: Remarkable Anisotropic Mobilities. Journal of Physical Chemistry C, 2017, 121, 17633-17640.	1.5	17
54	Rational Design of a Profluorescent Substrate for S-adenosylhomocysteine Hydrolase and its Applications in Bioimaging and Inhibitor Screening. ACS Applied Materials & Interfaces, 2016, 8, 25818-25824.	4.0	16

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55	Photophysical investigation of methyl 2-hydroxy-3-naphthoate (MHN23) in different self-organized supramolecular assemblies of micelles and niosomes formed by nonionic surfactant. Journal of Alloys and Compounds, 2016, 686, 656-661.	2.8	6
56	A HClO-specific near-infrared fluorescent probe for determination of Myeloperoxidase activity and imaging mitochondrial HClO in living cells. Biosensors and Bioelectronics, 2016, 86, 68-74.	5.3	85
57	Influence of wavelength on nonadiabatic effects in circularly polarized strong-field ionization. Physical Review A, 2015, 92, .	1.0	6
58	Photophysical Properties of a Post-Self-Assembly Host/Guest Coordination Cage: Visible Light Driven Core-to-Cage Charge Transfer. Journal of Physical Chemistry Letters, 2015, 6, 1942-1947.	2.1	56
59	Influence of collision energy on the dynamics of the reaction H (2S)Â+ÂNH (X3Î£â˜')Ââ†'ÂN (4S)Â+ÂH2 (X1Î£ g +) by the state-to-state quantum mechanical study. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	16
60	Steady-state and time-resolved spectroscopic investigations on the existence of stable methanol/AOT/n-heptane reverse micelles. Journal of Colloid and Interface Science, 2014, 423, 1-6.	5.0	13
61	Theoretical Investigation of the Competitive Mechanism Between Dissociation and Ionization of H₂⁺ in Intense Field. Journal of Physical Chemistry A, 2014, 118, 9173-9181.	1.1	9
62	Photophysical Properties of Self-Assembled Multinuclear Platinum Metallacycles with Different Conformational Geometries. Journal of the American Chemical Society, 2013, 135, 6694-6702.	6.6	67
63	Carrier envelope phase retrieval of a multi-cycle pulse by heterodyne mixing of a pulse containing a few cycles. Laser Physics, 2013, 23, 025301.	0.6	1
64	Experimental and Theoretical Study on the Photophysical Properties of 90Â° and 60Â° Bimetallic Platinum Complexes. Journal of Physical Chemistry A, 2012, 116, 9911-9918.	1.1	20
65	Hydrogen Bonding in the Electronic Excited State. Accounts of Chemical Research, 2012, 45, 404-413.	7.6	1,131
66	Modification of nâ€Type Organic Semiconductor Performance of Perylene Diimides by Substitution in Different Positions: Twoâ€Dimensional Ïâ€Stacking and Hydrogen Bonding. ChemSusChem, 2012, 5, 879-887.	3.6	102
67	Molecular dynamics simulation exploration of unfolding and refolding of a ten-amino acid miniprotein. Amino Acids, 2012, 43, 557-565.	1.2	28
68	Stereodynamics of chemical reactions: quasi-classical, quantum and mixed quantum-classical theories. Open Physics, 2012, 10, .	0.8	7
69	Quantum wavepacket exploration of isolated high-order harmonic attosecond pulse generation: from two-color scheme to three-color scheme. Journal of Modern Optics, 2011, 58, 954-961.	0.6	3
70	A Near-IR Reversible Fluorescent Probe Modulated by Selenium for Monitoring Peroxynitrite and Imaging in Living Cells. Journal of the American Chemical Society, 2011, 133, 11030-11033.	6.6	528
71	Substituent Effects on the Intramolecular Charge Transfer and Fluorescence of Bimetallic Platinum Complexes. Journal of Physical Chemistry A, 2011, 115, 6390-6393.	1.1	79
72	A TDâ€DFT study on the cyanideâ€chemosensing mechanism of 8â€formylâ€7â€hydroxycoumarin. Journal of Computational Chemistry, 2011, 32, 668-674.	1.5	97

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73	Attosecond pulse generation by applying a weak static electric field to a few-cycle pulse. New Journal of Physics, 2011, 13, 093035.	1.2	17
74	TDâ€DFT study on the sensing mechanism of a fluorescent chemosensor for fluoride: Excitedâ€state proton transfer. Journal of Computational Chemistry, 2010, 31, 1759-1765.	1.5	106
75	Fluorescence quenching phenomena facilitated by excited-state hydrogen bond strengthening for fluorenone derivatives in alcohols. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 209, 181-185.	2.0	97
76	Theoretical exploration of laser-parameter effects on the generation of an isolated attosecond pulse from two-color high-order harmonic generation. Physical Review A, 2010, 82, .	1.0	23
77	Photophysical Properties of Coordination-Driven Self-Assembled Metallosupramolecular Rhomboids: Experimental and Theoretical Investigations. Journal of Physical Chemistry A, 2010, 114, 3418-3422.	1.1	138
78	The Effect of Intermolecular Hydrogen Bonding on the Fluorescence of a Bimetallic Platinum Complex. Journal of Physical Chemistry A, 2010, 114, 9007-9013.	1.1	224
79	pH-Controlled twisted intramolecular charge transfer (TICT) excited state via changing the charge transfer direction. Physical Chemistry Chemical Physics, 2010, 12, 8914.	1.3	179
80	Theoretical Insights into Hydrogen Bonding and Its Influence on the Structural and Spectral Properties of Aquo Palladium(II) Complexes: cis-[(dppp)Pd(H₂O)₂]²⁺, cis-[(dppp)Pd(H₂O)(OSO₂CF₃)]⁺(OSO₂CF₃)<sup> and cis-[(dppp)Pd(H₂O)₂]²⁺(OSO₂CF₃)^{â^'}₂	2.3	143
81	Reconsideration of the excited-state double proton transfer (ESDPT) in 2-aminopyridine/acid systems: role of the intermolecular hydrogen bonding in excited states. Physical Chemistry Chemical Physics, 2009, 11, 4385.	1.3	204
82	Role of Intramolecular and Intermolecular Hydrogen Bonding in Both Singlet and Triplet Excited States of Aminofluorenones on Internal Conversion, Intersystem Crossing, and Twisted Intramolecular Charge Transfer. Journal of Physical Chemistry A, 2009, 113, 14329-14335.	1.1	221
83	Excited State Electronic Structures and Photochemistry of Heterocyclic Annulated Perylene (HAP) Materials Tuned by Heteroatoms: S, Se, N, O, C, Si, and B. Journal of Physical Chemistry A, 2009, 113, 4788-4794.	1.1	119
84	Photoinduced Intramolecular Charge Transfer and S₂ Fluorescence in Thiopheneâ€Ïâ€Conjugated Donorâ€“Acceptor Systems: Experimental and TDDFT Studies. Chemistry - A European Journal, 2008, 14, 6935-6947.	1.7	203
85	Effects of Hydrogen Bonding on Tuning Photochemistry: Concerted Hydrogenâ€Bond Strengthening and Weakening. ChemPhysChem, 2008, 9, 1842-1846.	1.0	367
86	Timeâ€dependent density functional theory study on hydrogenâ€bonded intramolecular chargeâ€transfer excited state of 4â€dimethylaminoâ€benzonitrile in methanol. Journal of Computational Chemistry, 2008, 29, 2010-2017.	1.5	307
87	Dynamic simulation study on ultrafast excited-state torsional dynamics of 9,9â€²-bianthryl (BA) in gas phase: Real-time observation of novel oscillation behavior with the torsional coordinate. Chemical Physics Letters, 2008, 453, 29-34.	1.2	58
88	Photoinduced intramolecular charge-transfer state in thiophene-Ï€-conjugated donorâ€“acceptor molecules. Journal of Molecular Structure, 2008, 876, 102-109.	1.8	72
89	Site-Specific Solvation of the Photoexcited Protochlorophyllide a in Methanol: Formation of the Hydrogen-Bonded Intermediate State Induced by Hydrogen-Bond Strengthening. Biophysical Journal, 2008, 94, 38-46.	0.2	438
90	Ultrafast Hydrogen Bond Strengthening of the Photoexcited Fluorenone in Alcohols for Facilitating the Fluorescence Quenching. Journal of Physical Chemistry A, 2007, 111, 9218-9223.	1.1	366

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91	Early Time Hydrogen-Bonding Dynamics of Photoexcited Coumarin 102 in Hydrogen-Donating Solvents:Â Theoretical Study. Journal of Physical Chemistry A, 2007, 111, 2469-2474.	1.1	562
92	Site-Selective Photoinduced Electron Transfer from Alcoholic Solvents to the Chromophore Facilitated by Hydrogen Bonding:â€‰ A New Fluorescence Quenching Mechanism. Journal of Physical Chemistry B, 2007, 111, 8940-8945.	1.2	696
93	Photoabsorption of green and red fluorescent protein chromophore anions in vacuo. Biophysical Chemistry, 2007, 129, 218-223.	1.5	35
94	The ultrafast dynamics of near-infrared heptamethine cyanine dye in alcoholic and aprotic solvents. Chemical Physics, 2007, 333, 179-185.	0.9	71
95	The charge transfer mechanism and spectral properties of a near-infrared heptamethine cyanine dye in alcoholic and aprotic solvents. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 305-310.	2.0	86