

# Guangjiu Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9571072/publications.pdf>

Version: 2024-02-01

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	Hydrogen Bonding in the Electronic Excited State. <i>Accounts of Chemical Research</i> , 2012, 45, 404-413.	7.6	1,131
2	Site-Selective Photoinduced Electron Transfer from Alcoholic Solvents to the Chromophore Facilitated by Hydrogen Bonding: A New Fluorescence Quenching Mechanism. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8940-8945.	1.2	696
3	Early Time Hydrogen-Bonding Dynamics of Photoexcited Coumarin 102 in Hydrogen-Donating Solvents: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2469-2474.	1.1	562
4	A Near-IR Reversible Fluorescent Probe Modulated by Selenium for Monitoring Peroxynitrite and Imaging in Living Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 11030-11033.	6.6	528
5	Site-Specific Solvation of the Photoexcited Protochlorophyllide a in Methanol: Formation of the Hydrogen-Bonded Intermediate State Induced by Hydrogen-Bond Strengthening. <i>Biophysical Journal</i> , 2008, 94, 38-46.	0.2	438
6	Effects of Hydrogen Bonding on Tuning Photochemistry: Concerted Hydrogen-Bond Strengthening and Weakening. <i>ChemPhysChem</i> , 2008, 9, 1842-1846.	1.0	367
7	Ultrafast Hydrogen Bond Strengthening of the Photoexcited Fluorenone in Alcohols for Facilitating the Fluorescence Quenching. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9218-9223.	1.1	366
8	Time-dependent density functional theory study on hydrogen-bonded intramolecular charge-transfer excited state of 4-dimethylamino-benzonitrile in methanol. <i>Journal of Computational Chemistry</i> , 2008, 29, 2010-2017.	1.5	307
9	The Effect of Intermolecular Hydrogen Bonding on the Fluorescence of a Bimetallic Platinum Complex. <i>Journal of Physical Chemistry A</i> , 2010, 114, 9007-9013.	1.1	224
10	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. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14329-14335.	1.1	221
11	Reconsideration of the excited-state double proton transfer (ESDPT) in 2-aminopyridine/acid systems: role of the intermolecular hydrogen bonding in excited states. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4385.	1.3	204
12	Photoinduced Intramolecular Charge Transfer and S <sub>2</sub> Fluorescence in Thiophene- <i>π</i> - <i>π</i> -Conjugated Donor-Acceptor Systems: Experimental and TDDFT Studies. <i>Chemistry - A European Journal</i> , 2008, 14, 6935-6947.	1.7	203
13	pH-Controlled twisted intramolecular charge transfer (TICT) excited state via changing the charge transfer direction. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8914.	1.3	179
14	Theoretical Insights into Hydrogen Bonding and Its Influence on the Structural and Spectral Properties of Aquo Palladium(II) Complexes: <i>cis</i>-[(dppp)Pd(H <sub>2</sub> O) <sub>2</sub> ] <sup>2+</sup> , <i>cis</i>-[(dppp)Pd(H <sub>2</sub> O)(OSO <sub>2</sub> CF <sub>3</sub> )] <sup>+</sup> (OSO <sub>2</sub> CF <sub>3</sub> ) <sup>2+</sup> and <i>cis</i>-[(dppp)Pd(H <sub>2</sub> O) <sub>2</sub> ] <sup>2+</sup> (OSO <sub>2</sub> CF <sub>3</sub> ) <sup>+</sup>	2.3	143
15	Photophysical Properties of Coordination-Driven Self-Assembled Metallosupramolecular Rhomboids: Experimental and Theoretical Investigations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3418-3422.	1.1	138
16	Excited State Electronic Structures and Photochemistry of Heterocyclic Annulated Perylene (HAP) Materials Tuned by Heteroatoms: S, Se, N, O, C, Si, and B. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4788-4794.	1.1	119
17	TDDFT study on the sensing mechanism of a fluorescent chemosensor for fluoride: Excited-state proton transfer. <i>Journal of Computational Chemistry</i> , 2010, 31, 1759-1765.	1.5	106
18	Modification of n-Type Organic Semiconductor Performance of Perylene Diimides by Substitution in Different Positions: Two-Dimensional <i>π-π</i> Stacking and Hydrogen Bonding. <i>ChemSusChem</i> , 2012, 5, 879-887.	3.6	102

#	ARTICLE	IF	CITATIONS
19	Fluorescence quenching phenomena facilitated by excited-state hydrogen bond strengthening for fluorenone derivatives in alcohols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 181-185.	2.0	97
20	A TDâ€œDFT study on the cyanideâ€œchemosensing mechanism of 8â€œformylâ€œ7â€œhydroxycoumarin. <i>Journal of Computational Chemistry</i> , 2011, 32, 668-674.	1.5	97
21	The charge transfer mechanism and spectral properties of a near-infrared heptamethine cyanine dye in alcoholic and aprotic solvents. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 187, 305-310.	2.0	86
22	A HClO-specific near-infrared fluorescent probe for determination of Myeloperoxidase activity and imaging mitochondrial HClO in living cells. <i>Biosensors and Bioelectronics</i> , 2016, 86, 68-74.	5.3	85
23	Substituent Effects on the Intramolecular Charge Transfer and Fluorescence of Bimetallic Platinum Complexes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6390-6393.	1.1	79
24	Phase Regulation Strategy of Perovskite Nanocrystals from 1D Orthomorph $\text{NH}_4\text{Pb}_3$ to 3D Cubic $(\text{NH}_4)_{0.5}\text{Cs}_{0.5}\text{Pb}(\text{I}_{0.5}\text{Br}_{0.5})_3$ Phase Enhances Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11642-11646.	7.2	75
25	Lead-free sodium bismuth halide $\text{Cs}_2\text{NaBiX}_6$ double perovskite nanocrystals with highly efficient photoluminescence. <i>Chemical Engineering Journal</i> , 2020, 397, 125367.	6.6	73
26	Photoinduced intramolecular charge-transfer state in thiophene-â€œconjugated donorâ€œacceptor molecules. <i>Journal of Molecular Structure</i> , 2008, 876, 102-109.	1.8	72
27	The ultrafast dynamics of near-infrared heptamethine cyanine dye in alcoholic and aprotic solvents. <i>Chemical Physics</i> , 2007, 333, 179-185.	0.9	71
28	Photophysical Properties of Self-Assembled Multinuclear Platinum Metallacycles with Different Conformational Geometries. <i>Journal of the American Chemical Society</i> , 2013, 135, 6694-6702.	6.6	67
29	Dynamic simulation study on ultrafast excited-state torsional dynamics of 9,9â€œbianthryl (BA) in gas phase: Real-time observation of novel oscillation behavior with the torsional coordinate. <i>Chemical Physics Letters</i> , 2008, 453, 29-34.	1.2	58
30	Photophysical Properties of a Post-Self-Assembly Host/Guest Coordination Cage: Visible Light Driven Core-to-Cage Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1942-1947.	2.1	56
31	New lead bromide chiral perovskites with ultra-broadband white-light emission. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5673-5680.	2.7	49
32	Circularly Polarized Luminescence from Solventâ€œFree Chiral Organic Ions in Liquids. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3745-3751.	7.2	41
33	Photoabsorption of green and red fluorescent protein chromophore anions in vacuo. <i>Biophysical Chemistry</i> , 2007, 129, 218-223.	1.5	35
34	Hydrogen-bond facilitated intramolecular proton transfer in excited state and fluorescence quenching mechanism of flavonoid compounds in aqueous solution. <i>Journal of Molecular Liquids</i> , 2020, 302, 112562.	2.3	34
35	Thermally Activated Delayed Fluorescence Enabled by Reversed Conformational Distortion for Blue Emitters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9501-9507.	2.1	32
36	Photoluminescence spectral broadening, chirality transfer and amplification of chiral perovskite materials $(\text{R-X})_2\text{PbBr}_4$ (X = H, F, Cl, Br) regulated by van der Waals and halogen atoms interactions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17299-17305.	1.3	31

#	ARTICLE	IF	CITATIONS
37	Efficient Photoluminescence of Manganese-Doped Two-Dimensional Chiral Alloyed Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12129-12134.	2.1	31
38	Combined TDDFT and AIM Insights into Photoinduced Excited State Intramolecular Proton Transfer (ESIPT) Mechanism in Hydroxyl- and Amino-Anthraquinone Solution. <i>Scientific Reports</i> , 2017, 7, 13766.	1.6	29
39	Molecular dynamics simulation exploration of unfolding and refolding of a ten-amino acid miniprotein. <i>Amino Acids</i> , 2012, 43, 557-565.	1.2	28
40	A novel aggregation induced emission (AIE) fluorescence probe by combining tetraphenylethylene and 2- $\beta$ -O-isopropylideneadenosine for localizing Golgi apparatus. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129245.	4.0	28
41	A novel lysosome-localized fluorescent probe with aggregation-induced emission without alkalinizing effect. <i>SmartMat</i> , 2021, 2, 554-566.	6.4	25
42	Environmental-friendly lead-free chiral Mn-based metal halides with efficient circularly polarized photoluminescence at room temperature. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164892.	2.8	24
43	Theoretical exploration of laser-parameter effects on the generation of an isolated attosecond pulse from two-color high-order harmonic generation. <i>Physical Review A</i> , 2010, 82, .	1.0	23
44	New insights into ESIPT mechanism of three sunscreen compounds in solution: A combined experimental and theoretical study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112039.	2.5	21
45	Experimental and Theoretical Study on the Photophysical Properties of 90° and 60° Bimetallic Platinum Complexes. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9911-9918.	1.1	20
46	Theoretical and spectroscopic investigation on ultrafast nonadiabatic photoprotective mechanism of novel ultraviolet protective compounds inspired by natural sunscreens. <i>Journal of Luminescence</i> , 2020, 223, 117228.	1.5	18
47	Codoping of Lead-Free Double Perovskites Promotes Near-Infrared Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 540-542.	7.2	18
48	Attosecond pulse generation by applying a weak static electric field to a few-cycle pulse. <i>New Journal of Physics</i> , 2011, 13, 093035.	1.2	17
49	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] <sup>-</sup> anion in aqueous solution: Upon photoexcitation of hydrogen-bonded model complexes [dAMP-H] <sup>-</sup> · nH <sub>2</sub> O (n = 0, 1, 2, 3, 4). <i>Journal of Molecular Liquids</i> , 2017, 242, 1118-1122.	2.3	17
50	Influence of the Halogenated Substituent on Charge Transfer Mobility of Aniline Tetramer and Derivatives: Remarkable Anisotropic Mobilities. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17633-17640.	1.5	17
51	Ultrafast Nonadiabatic Photoisomerization Dynamics Mechanism for the UV Photoprotection of Stilbenoids in Grape Skin. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1478-1483.	1.7	17
52	Influence of collision energy on the dynamics of the reaction H(2S) <sup>+</sup> + NH(X <sup>1</sup> $\Sigma$ <sup>+</sup> ) <sup>+</sup> → NH(4S) <sup>+</sup> + H(X <sup>1</sup> $\Sigma$ <sup>+</sup> ) by the state-to-state quantum mechanical study. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	16
53	Rational Design of a Profluorescent Substrate for S-adenosylhomocysteine Hydrolase and its Applications in Bioimaging and Inhibitor Screening. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25818-25824.	4.0	16
54	Mechanism for tunable broadband white photoluminescence of one-dimensional (C <sub>4</sub> N <sub>2</sub> H <sub>14</sub> ) <sub>2</sub> Pb <sub>1-x</sub> Mn <sub>x</sub> Br <sub>4</sub> perovskite microcrystals. <i>Journal of Luminescence</i> , 2020, 221, 117045.	1.5	16

#	ARTICLE	IF	CITATIONS
55	Charge-transfer mobility and electrical conductivity of PANI as conjugated organic semiconductors. <i>Journal of Chemical Physics</i> , 2017, 147, 114905.	1.2	15
56	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. <i>Journal of Luminescence</i> , 2018, 195, 116-119.	1.5	15
57	Nonadiabatic Dynamics Mechanism of Chalcone Analogue Sunscreen FPPO-HBr: Excited State Intramolecular Proton Transfer Followed by Conformation Twisting. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9572-9578.	1.2	15
58	Theoretical modeling of the hydrated serotonin in solution: Insight into intermolecular hydrogen bonding dynamics and spectral shift in the electronic excited states. <i>Journal of Molecular Liquids</i> , 2019, 288, 111093.	2.3	14
59	Tunable dual fluorescence emissions with high photoluminescence quantum yields modulated by Na ion dispersion method for purely solid state N-doped carbon dots. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 397, 112548.	2.0	14
60	Unveiling the theoretical mechanism of purely organic room temperature phosphorescence emission and heteroatomic effects on singlet-triplet intersystem crossing for isopropylthioxanthone derivatives. <i>Journal of Luminescence</i> , 2021, 232, 117864.	1.5	14
61	Steady-state and time-resolved spectroscopic investigations on the existence of stable methanol/AOT/n-heptane reverse micelles. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 1-6.	5.0	13
62	The promotion effects of thionation and isomerization on charge carrier mobility in naphthalene diimide crystals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28175-28181.	1.3	13
63	Unveiling the photoluminescence regulation of colloidal perovskite quantum dots via defect passivation and lattice distortion by potassium cations doping: Not the more the better. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 199-205.	5.0	13
64	Suppression of Energy Metabolism in Cancer Cells with Nutrient-Sensing Nanodrugs. <i>Nano Letters</i> , 2022, 22, 2514-2520.	4.5	13
65	Achieving metal-free phosphorescence in dilute solutions for imaging hypoxia in cells and tumors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7170-7175.	3.2	12
66	Phase Regulation Strategy of Perovskite Nanocrystals from 1D Orthomorphous NH <sub>4</sub> PbI <sub>3</sub> to 3D Cubic (NH <sub>4</sub> ) <sub>0.5</sub> Cs <sub>0.5</sub> Pb(I <sub>0.5</sub> Br <sub>0.5</sub> ) <sub>3</sub> Phase Enhances Photoluminescence. <i>Angewandte Chemie</i> , 2019, 131, 11768-11772.	1.6	11
67	Excited state intramolecular proton transfer (ESIPT) luminescence mechanism for 4-N,N-diethylamino-3-hydroxyflavone in propylene carbonate, acetonitrile and the mixed solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117416.	2.0	10
68	Anisotropic charge carrier transport of optoelectronic functional selenium-containing organic semiconductor materials. <i>Journal of Computational Chemistry</i> , 2020, 41, 976-985.	1.5	10
69	Nonadiabatic dynamics Mechanisms of natural UV Photoprotection compounds chlorogenic acid and isochlorogenic acid a: Double conjugated structures but single photoexcited channel. <i>Journal of Molecular Liquids</i> , 2021, 324, 114725.	2.3	10
70	Inverting supramolecular chirality and boosting circularly polarized luminescence of pyrene moieties in a gel matrix. <i>Soft Matter</i> , 2021, 17, 4328-4334.	1.2	10
71	Theoretical Investigation of the Competitive Mechanism Between Dissociation and Ionization of H <sub>2</sub> <sup>+</sup> in Intense Field. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9173-9181.	1.1	9
72	The hydrogen bond effect on excited state mechanism for 2-isopropyl thioxanone in protic solvents: Experimental and theoretical investigation. <i>Journal of Molecular Liquids</i> , 2022, 345, 117012.	2.3	9

#	ARTICLE	IF	CITATIONS
73	Stereodynamics of chemical reactions: quasi-classical, quantum and mixed quantum-classical theories. <i>Open Physics</i> , 2012, 10, .	0.8	7
74	Codoping of Lead-free Double Perovskites Promotes Near-Infrared Photoluminescence. <i>Angewandte Chemie</i> , 2021, 133, 548-550.	1.6	7
75	Influence of wavelength on nonadiabatic effects in circularly polarized strong-field ionization. <i>Physical Review A</i> , 2015, 92, .	1.0	6
76	Photophysical investigation of methyl 2-hydroxy-3-naphthoate (MHN23) in different self-organized supramolecular assemblies of micelles and niosomes formed by nonionic surfactant. <i>Journal of Alloys and Compounds</i> , 2016, 686, 656-661.	2.8	6
77	Defect passivation and lattice distortion enhance solid-state photoluminescence of two-dimensional perovskites. <i>2D Materials</i> , 2020, 7, 031008.	2.0	6
78	Highly efficient photoluminescence of 2D perovskites enabled by dimensional increasing. <i>2D Materials</i> , 2021, 8, 021003.	2.0	6
79	Conformational torsion, intramolecular hydrogen bonding and solvent effects in intersystem crossing of singlet-triplet excited states for heavy-atom-free organic long persistent luminescence. <i>Journal of Molecular Liquids</i> , 2021, 326, 115291.	2.3	5
80	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. <i>Journal of Luminescence</i> , 2021, 234, 117964.	1.5	5
81	New insights into the excited state intramolecular proton transfer (ESIPT) competition mechanism for different intramolecular hydrogen bonds of Kaempferol and Quercetin in solution. <i>Journal of Luminescence</i> , 2022, 248, 118914.	1.5	5
82	Excitons competition regulation via organic cation-site and halogen-site co-halogenation of (X-p-PEA) <sub>2</sub> Pb(Cl/Br) <sub>4</sub> perovskites. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 494-500.	5.0	4
83	Quantum wavepacket exploration of isolated high-order harmonic attosecond pulse generation: from two-color scheme to three-color scheme. <i>Journal of Modern Optics</i> , 2011, 58, 954-961.	0.6	3
84	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. <i>Chemical Physics Letters</i> , 2020, 748, 137396.	1.2	3
85	Site-Selective Photoinduced Electron Transfer of Excited-State Intermolecular Hydrogen-Bonded Cluster in Solution. <i>Journal of Cluster Science</i> , 2021, 32, 93-99.	1.7	2
86	Coordination-promoted photoluminescence induced by configuration twisting regulation. <i>Journal of Luminescence</i> , 2021, 231, 117783.	1.5	2
87	Non-adiabatic Dynamics Mechanism in Excited State of Novel UV Protective Sunscreen in Rice: Conical Intersection Promotes Internal Conversion. <i>Journal of Cluster Science</i> , 2021, 32, 967-973.	1.7	2
88	Excited state trans-cis photoisomerization via non-adiabatic dynamics of novel UVB protective sunscreens. <i>Journal of Luminescence</i> , 2021, 238, 118215.	1.5	2
89	Unveiling the nonadiabatic photoisomerization mechanism of hemicyanines for UV photoprotection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119949.	2.0	2
90	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. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2639-2647.	2.7	2

#	ARTICLE	IF	CITATIONS
91	Ultrafast nonadiabatic mechanism of plant sunscreens biflavonoids with two excited-state intramolecular proton transfer structures. <i>Journal of Luminescence</i> , 2022, 246, 118816.	1.5	2
92	Carrier envelope phase retrieval of a multi-cycle pulse by heterodyne mixing of a pulse containing a few cycles. <i>Laser Physics</i> , 2013, 23, 025301.	0.6	1
93	Excited state electronic structures and photochemistry of different oxidation states of 2,2'-azino-bis-(3-ethylbenzothiazoline-6-sulfonic acid) (ABTS). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119503.	2.0	0
94	Excited-State Dynamics of Intermolecular Dihydrogen Bond in Different Systems. , 2019, , 137-153.		0
95	Memorial Viewpoint for Keli Han. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3973-3975.	1.1	0