

Yu-Zhi Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,179
citations

15
h-index

29
g-index

109
ext. papers

1,526
ext. citations

2.9
avg, IF

4.84
L-index

#	Paper	IF	Citations
101	A QM/MM study on through space charge transfer-based thermally activated delayed fluorescence molecules in the solid state. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 517-531	7.1	2
100	Theoretical Study on the Light-Emitting Mechanism of Multifunctional Thermally Activated Delayed Fluorescence Molecules. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2437-2446	3.8	1
99	Theoretical perspective of relationship between molecular structure and luminescence properties for circularly polarized thermally activated delayed fluorescence.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 275, 121164	4.4	3
98	Gigahertz-repetition rate, high power, ultrafast Tm-doped fiber laser source. <i>Optics and Laser Technology</i> , 2022 , 153, 108206	4.2	0
97	Novel Deep Red Thermally Activated Delayed Fluorescence Molecule with Aggregation-Induced Emission Enhancement: Theoretical Design and Experimental Validation. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 4711-4720	6.4	2
96	The design of > 2000-nm, ~ 100-MHz ultrafast Tm-doped fiber soliton laser source. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	1
95	Field-free alignment of triatomic molecules controlled by a slow turn-on and rapid turn-off shaped laser pulse. <i>Molecular Physics</i> , 2021 , 119, e1859147	1.7	0
94	Examining the isotope effect on CH decay and H exchange reactions: H(2S) + CH(D/T)(2 Σ). <i>Physica Scripta</i> , 2021 , 96, 015404	2.6	0
93	Intermolecular interaction on excited-state properties of fluoro-substituted thermally activated delayed fluorescence molecules with aggregation-induced emission: a theoretical perspective. <i>Molecular Physics</i> , 2021 , 119, e1862931	1.7	1
92	Effects of Secondary Acceptors on Excited-State Properties of Sky-Blue Thermally Activated Delayed Fluorescence Molecules: Luminescence Mechanism and Molecular Design. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 175-186	2.8	3
91	Modulation of MXene NbCT saturable absorber for passively Q-switched 2.85 μ m Er:LuO laser. <i>Optics Letters</i> , 2021 , 46, 1385-1388	3	3
90	The Investigation on Ultrafast Pulse Formation in a Tm-Ho-Codoped Mode-Locking Fiber Oscillator. <i>Molecules</i> , 2021 , 26,	4.8	2
89	Sensing mechanism of fluorescent sensor to Cu based on inhibiting ultra-fast intramolecular proton transfer process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 254, 1196854	4.4	1
88	Accurate High-Level ω -Based Global Potential Energy Surface and Quantum Dynamics Calculation for the First Excited State of CH. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 5490-5498	2.8	0
87	Investigation on the optical nonlinearity of the layered magnesium-mediated metal organic framework (Mg-MOF-74). <i>Optics Express</i> , 2021 , 29, 23786-23798	3.3	
86	The theoretical study of excited-state intramolecular proton transfer of N, N,-bis (salicylidene)-(2-(3,4-diaminophenyl) benzothiazole). <i>Journal of Luminescence</i> , 2021 , 230, 117741	3.8	14
85	Design strategy for blue thermally activated delayed fluorescence: Position and methyl substitutions. <i>Chemical Physics Letters</i> , 2021 , 764, 138260	2.5	2

84	Theoretical insight into the vibrational excitation effect of the $S+(4S) + H_2(X1g)$ reaction. <i>Chemical Physics Letters</i> , 2021 , 764, 138257	2.5	0
83	Systematic theoretical investigation of two novel molecules BtyC-1 and BtyC-2 based on ESIPT mechanism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 258, 119810	4.4	3
82	Broadband and enhanced nonlinear optical modulation characteristics of CuBTC for pulsed lasers. <i>Optical Materials Express</i> , 2021 , 11, 3546	2.6	1
81	Photophysical properties of fluorescent nucleobase P-analogues expected to monitor DNA replication. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 260, 119926	4.4	2
80	Solid-state effect on luminescent properties of thermally activated delayed fluorescence molecule with aggregation induced emission: A theoretical perspective. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 241, 118634	4.4	6
79	A global potential energy surface for the ground electronic state of SSiH. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 175203	1.3	2
78	Investigation of excited state proton transfer mechanism for 2-(benzo[d]thiazol-2-yl)naphthalene-1,3-diol in different solvents. <i>Chemical Physics</i> , 2020 , 538, 110914	2.3	2
77	Exploring reaction mechanism and vibrational excitation effect in $H + CH(v,j) + D$ reaction. <i>Chemical Physics Letters</i> , 2020 , 749, 137398	2.5	1
76	Dynamics of $H(2S) + CH(X2)$ reactions based on a new $CH_2(\tilde{X})^3A'^{primeprime}$ surface via extrapolation to the complete basis set limit. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 095202	1.3	2
75	Electric Field-Modulated Surface Enhanced Raman Spectroscopy by PVDF/Ag Hybrid. <i>Scientific Reports</i> , 2020 , 10, 5269	4.9	7
74	Mid-infrared Q-switch performance of ZrC. <i>Photonics Research</i> , 2020 , 8, 1857	6	3
73	An investigation into self-pulsing behavior in an Er-doped ring laser. <i>Applied Physics Express</i> , 2020 , 13, 112006	2.4	0
72	The role of intermolecular interactions in regulating the thermally activated delayed fluorescence and charge transfer properties: a theoretical perspective. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8601-8612	7.1	11
71	Thermally activated delayed fluorescence emitters with dual conformations for white organic light-emitting diodes: mechanism and molecular design. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1313-1323	3.6	9
70	Theoretical perspective for luminescent mechanism of thermally activated delayed fluorescence emitter with excited-state intramolecular proton transfer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 98-108	7.1	14
69	Substitution effect on luminescent property of thermally activated delayed fluorescence molecule with aggregation induced emission: A QM/MM study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 229, 117964	4.4	8
68	Suppression of aggregation caused quenching in U-shaped thermally activated delayed fluorescence molecules: Tert-butyl effect. <i>Journal of Luminescence</i> , 2020 , 219, 116899	3.8	11
67	State-to-state dynamics of $S+(2D) + H_2(X1g^+)(v, j)$ collision reaction based on the $H_2S+(X2A'')$ potential energy surface. <i>Computational and Theoretical Chemistry</i> , 2020 , 1191, 113021	2	

66	Theoretical Study on Thermally Activated Delayed Fluorescence Emitters in White Organic Light-Emitting Diodes: Emission Mechanism and Molecular Design. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7526-7537	2.8	4
65	Potential energy curves, spectroscopic constants, and vibrational energy levels of CS+(X ² Σ/A ² Π). <i>Molecular Physics</i> , 2020 , 118, e1597199	1.7	2
64	The mechanism of the excited-state proton transfer of Salicylaldehyde azine and 2,2P[1,4-Phenylenebis((E)- nitrilomethylidyne)] bisphenol: Via single or double proton transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 223, 117321	4.4	6
63	Accurate global potential energy surface for SiH (X ¹ A) and quantum dynamics of related reaction H(S) + SiH(X ¹ Π) <i>Journal of Chemical Physics</i> , 2019 , 150, 224304	3.9	4
62	The novel excited state intramolecular proton transfer broken by intermolecular hydrogen bonds in HOF system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 219, 164-172	4.4	23
61	Stereo-dynamics of the reaction C + SH(D,T)(v = 0, j = 0) -> H(D,T) + CS based on a recent excited state potential energy surface. <i>Computational and Theoretical Chemistry</i> , 2019 , 1155, 82-89	2	4
60	Studies of the Coriolis coupling effect on reaction dynamics of $\text{H}^2\text{S} + \text{O}(\text{H}) \rightarrow \text{OH} + \text{HS}$ using the time dependent wave packet method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 113001	1.3	6
59	Field-free alignment dynamics of FCN molecule induced by a terahertz half-cycle pulse. <i>Europhysics Letters</i> , 2019 , 125, 33001	1.6	6
58	Theoretical Study on the Sensing Mechanism of Novel Hydrazine Sensor TAPHP and Its ESIPT and ICT Processes. <i>Frontiers in Chemistry</i> , 2019 , 7, 932	5	13
57	Quantum state-to-state dynamics of O+ + H ₂ (v = 0, j = 0) -> OH+ (v', j') + H reaction on a global potential energy surface. <i>Europhysics Letters</i> , 2019 , 126, 53001	1.6	5
56	The substituent effect on the excited state intramolecular proton transfer of 3-hydroxychromone. <i>Chinese Physics B</i> , 2019 , 28, 093102	1.2	6
55	HCS(A ² Σ)-based insights into the effect of vibrational excitation on the reactions C+SH (v = 0, j = 0) -> S+CH, H+CS. <i>European Physical Journal D</i> , 2019 , 73, 1	1.3	4
54	Investigation on the mechanism of ESIPT of 2-hydroxy-1-naphthaldehyde-(4-pyridinecarboxylic)-hydrazone and detection of Al ³⁺ ion. <i>Canadian Journal of Physics</i> , 2019 , 97, 721-725	1.1	10
53	A detecting Al ion luminophor 2-(Anthracen-1-yliminomethyl)-phenol: Theoretical investigation on the fluorescence properties and ESIPT mechanism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 208, 309-314	4.4	18
52	Doping-induced negative differential conductance enhancement in single-molecule junction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 106, 270-276	3	12
51	A theoretical study on the ESPT mechanism for a novel Bis-HPBT fluorophore. <i>Journal of Physical Organic Chemistry</i> , 2018 , 31, e3821	2.1	7
50	Globally Accurate Potential Energy Surface for HCS(A ² Σ) by Extrapolation to the Complete Basis Set Limit. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4390-4398	2.8	10
49	Accurate global potential energy surface for the ground state of CH by extrapolation to the complete basis set limit.. <i>RSC Advances</i> , 2018 , 8, 13635-13642	3.7	10

48	Electrically enhanced hot hole driven oxidation catalysis at the interface of a plasmon-exciton hybrid. <i>Nanoscale</i> , 2018 , 10, 5482-5488	7.7	90
47	The manifestation of vibrational excitation effect in reactions $C + SH(v=0, j=0) \rightarrow H + CS, S + CH$. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 065202	1.3	9
46	Theoretical investigation on excited state intramolecular proton transfer of 1-aryl-2-(furan-2-yl) butane-1, 3-diones substitutions. <i>Journal of Molecular Structure</i> , 2018 , 1173, 341-344	3.4	13
45	A global potential energy surface for $H_2S+(X A??)$ and quasi-classical trajectory study of the $S+(4S) + H_2(X1g)$ reaction. <i>Molecular Physics</i> , 2018 , 116, 129-141	1.7	14
44	Exciton-plasmon coupling interactions: from principle to applications. <i>Nanophotonics</i> , 2018 , 7, 145-167	6.3	95
43	Excited state intramolecular proton transfer mechanism of o-hydroxynaphthyl phenanthroimidazole. <i>Chinese Physics B</i> , 2018 , 27, 023103	1.2	14
42	The order of multiple excited state proton transfer in ternary complex of norharmane and acetic acids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 202, 30-35	4.4	14
41	A theoretical investigation on excited-state single or double proton transfer process for aloesaponarin I. <i>Canadian Journal of Chemistry</i> , 2018 , 96, 83-88	0.9	9
40	Novel potential energy surface-based quantum dynamics of ion-molecule reaction $\{O\}^+ + \{D\}_2 \rightarrow \{OD\}^+ + \{D\}$. <i>Chinese Physics B</i> , 2018 , 27, 043104	1.2	5
39	Quantum dynamics calculations for $O + H_2 (v_i = 0, j_i = 0) \rightarrow OH + H$ ion-molecule reaction on a new potential energy surface. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	3
38	Accurate potential energy surface of $HS(?)$ via extrapolation to the complete basis set limit and its use in dynamics study of reaction. <i>Journal of Chemical Physics</i> , 2018 , 149, 154303	3.9	15
37	Exciton-plasmon hybrids for surface catalysis detected by SERS. <i>Nanotechnology</i> , 2018 , 29, 372001	3.4	15
36	Exploring the reaction dynamics of $O(3P) + (X_2) \rightarrow OH + (X_3) + H(2S)$ reaction with time-dependent wave packet method. <i>International Journal of Quantum Chemistry</i> , 2017 , 117, e25343	2.1	5
35	A globally accurate potential energy surface of $(HS_2)(A, ^2A')$ and studies on the reaction dynamic of $(H)(^2S) + S_2(a, ^1\Delta_g)$. <i>Theoretical Chemistry Accounts</i> , 2017 , 136, 1	1.9	7
34	Recent advances in surface plasmon-driven catalytic reactions. <i>RSC Advances</i> , 2017 , 7, 31189-31203	3.7	46
33	Effect of HO Adsorption on Negative Differential Conductance Behavior of Single Junction. <i>Scientific Reports</i> , 2017 , 7, 4195	4.9	7
32	Electrooptical Synergy on Plasmon-Exciton-Codriven Surface Reduction Reactions. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700869	4.6	82
31	Accurate Theoretical Study of LiS Radical and Its Singly Charged Cation and Anion in their Ground Electronic State. <i>Chinese Journal of Chemical Physics</i> , 2017 , 30, 128-134	0.9	3

30	Solvent Effects on Two-Photon Absorption of Alkyne and Alkene Bridging Chromophores. <i>Chinese Journal of Chemical Physics</i> , 2017 , 30, 63-70	0.9	1
29	The stereodynamics study on the isotopic substitution C + SH(D, T) → H(D, T) + CS reactions on the new HCS(X2A ₁) potential energy surface. <i>Canadian Journal of Physics</i> , 2017 , 95, 1219-1224	1.1	7
28	Numerical simulation of evolution features of the atmospheric-pressure CF ₄ plasma generated by the pulsed dielectric barrier discharge. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	12
27	Accurate double many-body expansion potential energy surface of HS 2 A 2 A ₁) by scaling the external correlation. <i>Chinese Physics B</i> , 2016 , 25, 053101	1.2	5
26	Globally accurate potential energy surface for the ground-state HCS(XA ₁) and its use in reaction dynamics. <i>Scientific Reports</i> , 2016 , 6, 37734	4.9	13
25	Particle Densities of the Atmospheric-Pressure Argon Plasmas Generated by the Pulsed Dielectric Barrier Discharges. <i>Plasma Science and Technology</i> , 2016 , 18, 1081-1088	1.5	7
24	Coriolis coupling effects in the H+Li ₂ (X1 \bar{g} ⁺)→LiH(X1 \bar{g})+Li reaction: A time-dependent wave packet investigation. <i>Chemical Physics Letters</i> , 2016 , 651, 233-237	2.5	22
23	Accurate theoretical study on the ground and first-excited states of Na ₂ : potential energy curves, spectroscopic parameters, and vibrational energy levels. <i>Canadian Journal of Physics</i> , 2016 , 94, 1259-1264 ^{1,1}		4
22	Effect of thiophene rings on UV/visible spectra and non-linear optical (NLO) properties of triphenylamine based dyes: a quantum chemical perspective. <i>Journal of Physical Organic Chemistry</i> , 2015 , 28, 418-422	2.1	32
21	The quantum dynamics of the reactions N+H ₂ (HD, D ₂) and their vibrational excitation effect. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 231-238	2.1	6
20	Globally accurate ab initio based potential energy surface of H ₂ O + (X 4 A ₁). <i>Chinese Physics B</i> , 2015 , 24, 063101	1.2	13
19	Accurate adiabatic potential energy surface for 12A ₁ state of FH ₂ based on ab initio data extrapolated to the complete basis set limit. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	8
18	Cross sections for vibrational inhibition at low collision energies for the reaction H + Li ₂ (X1 \bar{g}) → Li + LiH (X1 \bar{g}). <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	26
17	Theoretical Analysis on Optical Limiting Properties of Newly Synthesized Graphene Oxide-Porphyrin Composites. <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 257-262	0.9	4
16	Accurate ab initio -based analytical potential energy function for S ₂ (1 \bar{g}) via extrapolation to the complete basis set limit. <i>Chinese Physics B</i> , 2015 , 24, 013101	1.2	10
15	Accurate potential energy curve and spectroscopic properties of S ₂ (b1 \bar{g} ⁺) via extrapolation to the complete basis set limit. <i>Physica Scripta</i> , 2015 , 90, 035403	2.6	8
14	The NLO properties of hybrid materials based on molybdate/hexamolybdate derivatives: A theoretical perspective for electro-optic modulation. <i>Synthetic Metals</i> , 2014 , 198, 277-284	3.6	4
13	Effect of reagent vibrational excitation on reaction S(3P)+D ₂ in 3A ₁ and 3A ₂ states. <i>Computational and Theoretical Chemistry</i> , 2014 , 1039, 15-20	2	5

12	A typical slow reaction $H(2S) + S_2(X^3\Sigma_g^-) \rightarrow SH(X^2\Sigma^+) + S(3P)$ on a new surface: Quantum dynamics calculations. <i>Chinese Physics B</i> , 2014 , 23, 073101	1.2	8
11	Variation of Two-Photon Absorption Cross Sections and Optical Limiting of Compounds Induced by Static Electric Field. <i>Chinese Journal of Chemical Physics</i> , 2014 , 27, 259-264	0.9	2
10	Dynamical properties of $S(3P) + HD$ reaction on $13A_1$ state and their quantum wavepacket calculation. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 748-754	2.1	8
9	Accurate ab initio-based DMBE potential energy surface for $HLi_2(X^2A_1)$ via scaling of the external correlation. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	13
8	Effect of π -conjugation spacer (CC) on the first hyperpolarizabilities of polymeric chain containing polyoxometalate cluster as a side-chain pendant: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2012 , 994, 34-40	2	93
7	Ab initio-based double many-body expansion potential energy surface for the first excited triplet state of the ammonia molecule. <i>Journal of Chemical Physics</i> , 2012 , 136, 194705	3.9	25
6	Accurate double many-body expansion potential energy surface for ground-state HS_2 based on ab initio data extrapolated to the complete basis set limit. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5274-83	2.8	24
5	Potential energy surface for ground-state H_2S via scaling of the external correlation, comparison with extrapolation to complete basis set limit, and use in reaction dynamics. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9213-9	2.8	25
4	Accurate ab initio double many-body expansion potential energy surface for ground-state H_2S by extrapolation to the complete basis set limit. <i>Journal of Chemical Physics</i> , 2009 , 130, 134317	3.9	47
3	A comparison of single-reference coupled-cluster and multi-reference configuration interaction methods for representative cuts of the potential energy surface. <i>Computational and Theoretical Chemistry</i> , 2008 , 859, 22-29		14
2	Solvent effects on two-photon absorption cross sections of a newly synthesized polymerization initiator. <i>Computational and Theoretical Chemistry</i> , 2006 , 772, 75-79		11
1	Dynamical behavior of ultra-short laser pulse in a cascade three-level molecular system. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2006 , 55, 1803	0.6	6