

Yi Wang

List of Publications by Year in descending order

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52
papers

1,296
citations

304368

22
h-index

360668

35
g-index

53
all docs

53
docs citations

53
times ranked

1096
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel high-strength poly(ionic liquid)/PVA hydrogel dressing for antibacterial applications. <i>Chemical Engineering Journal</i> , 2019, 365, 153-164.	6.6	158
2	Synthesis of a novel anti-freezing, non-drying antibacterial hydrogel dressing by one-pot method. <i>Chemical Engineering Journal</i> , 2019, 372, 216-225.	6.6	111
3	Theoretical Investigation of an Excited-State Intramolecular Proton-Transfer Mechanism for an Asymmetric Structure of 3,7-Dihydroxy-4-oxo-2-phenyl-4 <i>H</i> -chromene-8-carbaldehyde: Single or Double?. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8807-8814.	1.1	73
4	A novel composite hydrogel for solar evaporation enhancement at air-water interface. <i>Science of the Total Environment</i> , 2019, 668, 153-160.	3.9	68
5	Excited-State Proton Transfer Mechanism of 2,6-Diazaindoles \hat{A} -(H ₂ O) _n Clusters. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3988-3995.	1.2	50
6	Synthesis of magnetic nanoflower immobilized lipase and its continuous catalytic application. <i>New Journal of Chemistry</i> , 2019, 43, 11082-11090.	1.4	46
7	A novel transparent luminous hydrogel with self-healing property. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5738-5744.	2.9	44
8	A theoretical study of the ESIPT mechanism of 3-hydroxyflavone derivatives: solvation effect and the importance of TICT for its dual fluorescence properties. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3136-3143.	2.3	43
9	Theoretical study of excited state intramolecular proton transfer (ESIPT) mechanism for a fluorophore in the polar and nonpolar solvents. <i>Journal of Molecular Liquids</i> , 2017, 233, 303-309.	2.3	41
10	Theoretical investigation of twisted charge-transfer-promoted intramolecular proton transfer in the excited state of 4 \hat{A} -dimethylaminoflavonol in a highly polar solvent. <i>Journal of Luminescence</i> , 2018, 194, 785-790.	1.5	41
11	A novel self-healing triple physical cross-linked hydrogel for antibacterial dressing. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6844-6855.	2.9	41
12	A novel catalytic material for hydrolyzing cow's milk allergenic proteins: Papain-Cu ₃ (PO ₄) ₂ ·3H ₂ O-magnetic nanoflowers. <i>Food Chemistry</i> , 2020, 311, 125911.	4.2	40
13	Solvation effect on the ESIPT mechanism of 2-(4 \hat{A} -amino-2 \hat{A} -hydroxyphenyl)-1H-imidazo-[4,5-c]pyridine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 261-269.	2.0	38
14	A new interpretation of the ESIPT mechanism of 2-(benzimidazol-2-yl)-3-hydroxychromone derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117359.	2.0	34
15	Synthesis and continuous catalytic application of alkaline protease nanoflowers@PVA composite hydrogel. <i>Catalysis Communications</i> , 2018, 116, 5-9.	1.6	32
16	A novel hydrogel with self-healing property and bactericidal activity. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 484-494.	5.0	32
17	Novel Nonreleasing Antibacterial Hydrogel Dressing by a One-Pot Method. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1259-1268.	2.6	31
18	Pressure-sensitive antibacterial hydrogel dressing for wound monitoring in bed ridden patients. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 942-955.	5.0	28

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19	Characterization of active compounds from <i>Gracilaria lemaneiformis</i> inhibiting the protein tyrosine phosphatase 1B activity. <i>Food and Function</i> , 2017, 8, 3271-3275.	2.1	26
20	Theoretical study of excited-state proton transfer of 2,7-diazaindole-(H ₂ O) ₂ cluster via hydrogen bonding dynamics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 187, 163-167.	2.0	26
21	Excited-state intramolecular proton transfer mechanism for 2-(quinolin-2-yl)-3-hydroxychromone: A detailed time-dependent density functional theory study. <i>Journal of Molecular Liquids</i> , 2018, 260, 447-457.	2.3	25
22	Rapid screening and separation of active compounds against α -amylase from <i>Toona sinensis</i> by ligand fishing and high-speed counter-current chromatography. <i>International Journal of Biological Macromolecules</i> , 2021, 174, 270-277.	3.6	24
23	Screening of the potential α -amylase inhibitor in essential oil from <i>Cedrus deodara</i> cones. <i>Industrial Crops and Products</i> , 2017, 103, 251-256.	2.5	22
24	Sensing mechanism of a new fluorescent probe for hydrogen sulfide: photoinduced electron transfer and invalidity of excited-state intramolecular proton transfer. <i>RSC Advances</i> , 2021, 11, 22214-22220.	1.7	22
25	Solvation effect on the ESIPT mechanism of nitrile-substituted <i>ortho</i> -hydroxy-2-phenyl-oxazolines. <i>RSC Advances</i> , 2021, 11, 25795-25800.	1.7	21
26	Rational approach to solvent system selection for liquid-liquid extraction-assisted sample pretreatment in counter-current chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1053, 16-19.	1.2	19
27	Steric hindrance effect of the equatorial ligand on Fe(IV)O and Ru(IV)O complexes: a density functional study. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 351-359.	1.1	18
28	Multilayer graphite nano-sheet composite hydrogel for solar desalination systems with floatability and recyclability. <i>New Journal of Chemistry</i> , 2020, 44, 20181-20191.	1.4	16
29	Theoretical study on the ESIPT of fluorescent probe molecules N-(2-(4-(dimethylamino)phenyl)-3-hydroxy-4-oxo-4H-chromen-6-yl) butyramide in different solvents. <i>Journal of Molecular Liquids</i> , 2020, 314, 113614.	2.3	14
30	Solvent effect on the excited-state intramolecular double proton transfer of 1,3-bis(2-pyridylimino)-4,7-dihydroxyisoindole. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1183-1194.	1.6	12
31	Theoretical study of cyclohexane hydroxylation by three possible isomers of [FeIV(O)(R-TPEN)] ²⁺ : does the pentadentate ligand wrapping around the metal center differently lead to the different stability and reactivity?. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 533-545.	1.1	11
32	A novel floatable composite hydrogel for solar evaporation enhancement. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 221-230.	1.2	11
33	Enzyme reaction-guided identification of active components from the flowers of <i>Sophora japonica</i> var. <i>violacea</i> . <i>Food and Function</i> , 2020, 11, 4356-4362.	2.1	11
34	An efficient method based on inhibitor-enzyme complex to screen an active compound against lipase from <i>Toona sinensis</i> . <i>Food and Function</i> , 2021, 12, 10806-10812.	2.1	9
35	The influence of intermolecular hydrogen bonds on single fluorescence mechanism of 1-hydroxy-11H-benzo [b]fluoren-11-one and 10-hydroxy-11H-benzo [b]fluoren-11-one. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119993.	2.0	7
36	Investigating the Influence of Electronic Effects of Functional Groups on the Fluorescence Mechanism of Probes in Water Samples. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2866-2875.	1.1	6

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37	Lipase-polydopamine magnetic hydrogel microspheres for the synthesis of octenyl succinic anhydride starch. <i>International Journal of Biological Macromolecules</i> , 2022, 219, 482-490.	3.6	6
38	New insights into the detection mechanism of β -galactosidase in living cells with fluorescent probes. <i>Chemical Physics Letters</i> , 2021, 773, 138597.	1.2	5
39	Theoretical Investigation of Excited-State Intramolecular Double-Proton Transfer Mechanism of Substituent Modified 1, 3-Bis (2-Pyridylimino)-4,7-Dihydroxyisoindole in Dichloromethane Solution. <i>Journal of Computational Biophysics and Chemistry</i> , 2021, 20, 707-718.	1.0	5
40	The sensing mechanism of fluorescent probe for PhSH and the process of ESIPT. <i>Photochemical and Photobiological Sciences</i> , 2022, , 1.	1.6	5
41	Exploring the relationship between the "ON-OFF" mechanism of fluorescent probes and intramolecular charge transfer properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120339.	2.0	4
42	Synthesis of papain-polyacrylamide hydrogel microspheres and their catalytic application. <i>New Journal of Chemistry</i> , 2021, 45, 16696-16704.	1.4	4
43	Theoretical study on excited state intramolecular proton transfer mechanism of thiazole complex in different kinds of solvents. <i>Journal of Physical Organic Chemistry</i> , 0, , .	0.9	4
44	Substituents effect on the methanol-assisted excited-state intermolecular proton transfer of 7-Aminoquinoline: A theoretical study. <i>Journal of Molecular Liquids</i> , 2021, 341, 116920.	2.3	3
45	Theoretical investigation and reconsideration of intramolecular proton-transfer-induced the twisted charge-transfer for the fluorescent sensor to detect the aluminum ion. <i>Structural Chemistry</i> , 2022, 33, 1355-1364.	1.0	3
46	Theoretical study of the effect of ligand topology on Fe(IV)O and Ru(IV)O complex reactivities. <i>Inorganica Chimica Acta</i> , 2016, 443, 235-242.	1.2	2
47	The oxidation of cyclo-olefin by the $\text{O}=\text{O}$ ground-state complex $[\text{FeIV}(\text{O})(\text{TQA})(\text{NCMe})_2]^+$. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 371-382.	1.1	2
48	Theoretical investigation of different reactivities of Fe(IV)O and Ru(IV)O complexes with the same ligand topology. <i>Journal of Coordination Chemistry</i> , 2017, 70, 417-430.	0.8	1
49	Exploring the influence of intermolecular hydrogen bonding on the fluorescence properties of HQCT and HQPH fluorescent chemosensors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 280, 121537.	2.0	1
50	$[\text{FeIV}(\text{O})(\text{TMC})(\text{Lax})]^{n+}$ for O-transfer reaction: Insight into the steric hindrance effect of the equatorial ligand. <i>Chemical Physics Letters</i> , 2020, 738, 136858.	1.2	0
51	A High Performance 2-Hydroxynaphthalene Acylhydrazone Fluorescent Chemosensor for Detection of Al^{3+} Ions Through ESIPT and PET Signalling Mechanism. <i>Journal of Cluster Science</i> , 0, , 1.	1.7	0
52	Elaborating the mechanism of a highly selective fluorescent "turn-on" probe to detect the group IIIA ions: a detailed time-dependent density functional theory study. <i>Theoretical Chemistry Accounts</i> , 2022, 141, .	0.5	0