

Fang Gao

List of Publications by Year in descending order

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61
papers

1,099
citations

430874

18
h-index

434195

31
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62
all docs

62
docs citations

62
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	Water soluble corrosion inhibitors for copper in 3.5 wt% sodium chloride solution. <i>Corrosion Science</i> , 2017, 123, 339-350.	6.6	105
2	Photo and thermally stable branched corrosion inhibitors containing two benzotriazole groups for copper in 3.5 wt% sodium chloride solution. <i>Corrosion Science</i> , 2018, 138, 353-371.	6.6	91
3	Synthesis of dibenzotriazole derivatives bearing alkylene linkers as corrosion inhibitors for copper in sodium chloride solution: A new thought for the design of organic inhibitors. <i>Corrosion Science</i> , 2016, 113, 64-77.	6.6	89
4	Evaluating two new Schiff bases synthesized on the inhibition of corrosion of copper in NaCl solutions. <i>RSC Advances</i> , 2015, 5, 14804-14813.	3.6	62
5	Synthesis of New Benzotriazole Derivatives Containing Carbon Chains as the Corrosion Inhibitors for Copper in Sodium Chloride Solution. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12242-12253.	3.7	55
6	Synthesis of 5-(Trifluoromethyl)pyrazolines by Formal [4 + 1]-Annulation of Fluorinated Sulfur Ylides and Azoalkenes. <i>Organic Letters</i> , 2018, 20, 934-937.	4.6	46
7	Orderly self-assembly of new ionic copolymers for efficiently protecting copper in aggressive sulfuric acid solution. <i>Chemical Engineering Journal</i> , 2020, 384, 123293.	12.7	41
8	Self-assembly of new dendrimers basing on strong $\pi\text{-}\pi$ intermolecular interaction for application to protect copper. <i>Chemical Engineering Journal</i> , 2018, 342, 238-250.	12.7	40
9	Synthesis of Bicyclo[4.1.0]tetrahydropyridazines by a Sequential [4 + 2] and [1 + 2] Annulation Reaction of Azoalkenes and Crotonate-Derived Sulfur Ylides. <i>Organic Letters</i> , 2019, 21, 7361-7364.	4.6	34
10	Nano- to Micro-Self-Aggregates of New Bisimidazole-Based Copoly(ionic liquid)s for Protecting Copper in Aqueous Sulfuric Acid Solution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10135-10145.	8.0	34
11	A Comprehensive Thoretical Investigation of Intramolecular Proton Transfer in the Excited States for Some Newly-designed Diphenylethylene Derivatives Bearing 2-(2-Hydroxy-Phenyl)-Benzotriazole Part. <i>Journal of Fluorescence</i> , 2011, 21, 1721-1728.	2.5	32
12	New ESIPT-Inspired Photostabilizers of Two-Photon Absorption Coumarin-Benzotriazole Dyads: From Experiments to Molecular Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5223-5230.	3.7	30
13	Hyperbranched molecules having multiple functional groups as effective corrosion inhibitors for Al alloys in aqueous NaCl. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 614-626.	9.4	30
14	Conjugated dyes carrying N, N-dialkylamino and ketone groups: One-component visible light Norrish type II photoinitiators. <i>Dyes and Pigments</i> , 2017, 137, 456-467.	3.7	29
15	Identification of Ingol and Rhamnofolane Diterpenoids from <i>Euphorbia resinifera</i> and Their Abilities to Induce Lysosomal Biosynthesis. <i>Journal of Natural Products</i> , 2018, 81, 1209-1218.	3.0	27
16	Stilbene-benzophenone dyads for free radical initiating polymerization of methyl methacrylate under visible light irradiation. <i>Dyes and Pigments</i> , 2016, 132, 27-40.	3.7	22
17	Facile synthesis of spinel MgCo ₂ O ₄ nanosheets for high-performance asymmetric supercapacitors. <i>Materials Letters</i> , 2020, 271, 127799.	2.6	22
18	Evidence for Two-Photon Absorption-Induced ESIPT of Chromophores Containing Hydroxyl and Imino Groups. <i>ChemPhysChem</i> , 2012, 13, 1313-1324.	2.1	20

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19	Molecular self-assembly of novel amphiphilic topological hyperbranched polymers for super protection of copper in extremely aggressive acid solution. <i>Applied Surface Science</i> , 2020, 529, 147076.	6.1	19
20	Systematic investigation of the synthesis and light-absorption broadening of a novel diketopyrrolopyrrole conjugated polymer of low and high molecular weight with thermo-labile groups. <i>Polymer Chemistry</i> , 2015, 6, 7005-7014.	3.9	18
21	Synthesis of 3H-pyrrolo[2,3-c]quinolin-4(5H)-ones via Pd-catalyzed cross-coupling reaction and cyclization. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7334.	2.8	15
22	Two-dimensional porous nickel oxalate thin sheets constructed by ultrathin nanosheets as electrode materials for high-performance aqueous supercapacitors. <i>CrystEngComm</i> , 2020, 22, 2953-2963.	2.6	15
23	Mn doped Co(OH) ₂ nanosheets as electrode materials for high performance supercapacitors. <i>Materials Letters</i> , 2020, 270, 127751.	2.6	15
24	New small gemini ionic liquids for intensifying adsorption and corrosion resistance of copper surface in sulfuric acid solution. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106679.	6.7	15
25	Strengthened adsorption and corrosion inhibition of new single imidazole-type ionic liquid molecules to copper surface in sulfuric acid solution by molecular aggregation. <i>Journal of Molecular Liquids</i> , 2021, 338, 116675.	4.9	12
26	Synthesis, Crystal, Absorption and Fluorescence Spectroscopy of Nitro-Stilbene Derivatives with Benzophenones. <i>Journal of Fluorescence</i> , 2008, 18, 787-799.	2.5	11
27	Synthesis of Benzo[<i>c</i>][1,4]thiazepines by Base-Induced Formal [4+3] Annulation Reaction of Aza- <i>o</i> -quinone Methides and Pyridinium 1,4-Zwitterionic Thiolates. <i>Journal of Organic Chemistry</i> , 2021, 86, 18156-18163.	3.2	11
28	Photoinduced Excited State Intramolecular Proton Transfer of New Schiff Base Derivatives with Extended Conjugated Chromophores: A Comprehensive Theoretical Survey. <i>Chinese Journal of Chemistry</i> , 2010, 28, 901-910.	4.9	8
29	New AB ₂ type two-photon absorption dyes for well-separated dual-emission: molecular preorganization based approach to photophysical properties. <i>Tetrahedron</i> , 2016, 72, 3040-3056.	1.9	8
30	Remarkable difference between five- and six- number-membered ring transition states for intramolecular proton transfer in excited state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 339, 25-35.	3.9	8
31	Nano aggregates of amphiphilic phenanthridine dyes for reversible intermolecular excited state proton transfer. <i>Dyes and Pigments</i> , 2017, 145, 538-541.	3.7	8
32	Unpaired Electron-Induced Wide-Range Light Absorption within Zn (or Cu) MOFs Containing Electron-Withdrawing Ligands: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5314-5322.	2.5	8
33	Understanding difficulties of irregular number-membered ring transition states for intramolecular proton transfer in excited state. <i>Tetrahedron</i> , 2017, 73, 403-410.	1.9	7
34	New organic conjugated dye nano-aggregates exhibiting naked-eye fluorescence color switching. <i>Dyes and Pigments</i> , 2017, 139, 19-32.	3.7	7
35	Efficiently Tuning the Absorption and Fluorescence Spectroscopy of the Novel Branched p-Nitro-stilbene Derivatives with Chemical Strategy. <i>Journal of Fluorescence</i> , 2010, 20, 353-364.	2.5	6
36	Synthesis, Spectroscopy and Photochemistry of Novel Branched Fluorescent Nitro-Stilbene Derivatives with Benzophenone Groups. <i>Journal of Fluorescence</i> , 2010, 20, 703-712.	2.5	6

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37	Synthesis and Spectral Tuning of Novel Triphenylamine-Based Derivatives Containing Electron Donor-Acceptor Groups. Chinese Journal of Chemistry, 2010, 28, 950-960.	4.9	6
38	A Comprehensive Investigation on the Cooperative Branch Effect on the Optical Properties of Novel Conjugated Compounds. Journal of Fluorescence, 2011, 21, 545-554.	2.5	6
39	Study on the photophysical and electrochemical property and molecular simulation of broadly absorbing and emitting perylene diimide derivatives with large D-A structure. RSC Advances, 2014, 4, 43538-43548.	3.6	6
40	Aggregation and ESIPT together inspired naked-eye fluorescence color switching of new π -conjugated dyes carrying double proton transfer segments. Materials Letters, 2017, 186, 301-304.	2.6	6
41	Study of the absorption and emission spectroscopy of π -type photosensitive compounds including two-photon chromophore and benzophenone moiety. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 1006-1012.	3.9	5
42	Excited State Intramolecular Proton Transfer of New Diphenyl-ethylene Derivatives Bearing Imino Group: A Combination of Experimental and Theoretical Investigation. Chinese Journal of Chemistry, 2010, 28, 1057-1068.	4.9	5
43	Two-Photon Optical Properties of Novel Branched Conjugated Derivatives Carrying Benzophenone Moiety with Various Electron Donor-Acceptor Substituent Groups. Journal of Fluorescence, 2011, 21, 393-407.	2.5	5
44	Efficient enhancement of internal proton transfer of branched π -extended organic chromophore under one-photon and near-infrared two-photon irradiation. Chemical Physics Letters, 2015, 619, 201-207.	2.6	5
45	Ionic macromolecules based on non-halide counter anions for super prevention of copper corrosion. Journal of Molecular Liquids, 2022, 349, 118156.	4.9	5
46	Novel triphenylamine-based two-photon absorption dyes including benzophenone parts. Chinese Chemical Letters, 2009, 20, 1279-1282.	9.0	4
47	Two intensified fluorescence colors switching achieved by branched dye nanoaggregates. Nanoscale, 2017, 9, 11158-11169.	5.6	4
48	Base-mediated unprecedented tandem cyclization reaction of nitrilimines and sulfur ylides: facile approaches to multifunctionalized pyrazolines. Organic Chemistry Frontiers, 2022, 9, 2204-2208.	4.5	4
49	Synthesis of Nitro-Stilbene Derivatives with Different Linking Bonds: An Attempt to Tune Spectroscopy of Dyes with Molecular Engineering. Chinese Journal of Chemistry, 2009, 27, 1929-1936.	4.9	3
50	Visible light photopolymerization of nitro-stilbenzene photosensitive initiating systems. Polymers for Advanced Technologies, 2009, 20, 1010-1016.	3.2	3
51	Molecular Geometry Optimization, Two-Photon Absorption and Electrochemistry of New Diphenylethylene Derivatives Linking with Benzophenone Moiety Through Ether Covalent Bond. Journal of Fluorescence, 2011, 21, 327-338.	2.5	3
52	Excited state intramolecular proton transfer fluorescence emission of o-hydroxyphenyl-triazine derivatives. Science Bulletin, 2011, 56, 1457-1460.	1.7	3
53	4-Formyl-2-(2H-benzotriazol-2-yl)-phenol: an ESIPT chromophore. Science Bulletin, 2014, 59, 4741-4751.	1.7	3
54	A Successful Attempt to Obtain the Linear Dependence Between One-Photon and Two-Photon Spectral Properties and Hammett Parameters of Various Aromatic Substituents in New π -Extended Asymmetric Organic Chromophores. Journal of Fluorescence, 2015, 25, 1559-1566.	2.5	3

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55	Simple and prompt protonation of new dyes containing double conjugated imine bonds to strengthen the protection of copper in aggressive sulfuric acid solution. <i>Journal of Molecular Liquids</i> , 2021, 341, 117402.	4.9	3
56	Synthesis, Spectroscopy and Photochemistry of Nitro-Azobenzene Dyes Bearing Benzophenone Parts. <i>Journal of Fluorescence</i> , 2009, 19, 533-544.	2.5	2
57	Synthesis and Spectroscopy of Novel Branched Fluorescent Dyes Containing Benzophenone Parts and the Possibility as Fluorescence Probes. <i>Journal of Fluorescence</i> , 2011, 21, 149-159.	2.5	2
58	Significant effects of branches and bromine substitution of near-infrared two-photon photosensitizers on the generation of singlet oxygen. <i>Science Bulletin</i> , 2012, 57, 3850-3854.	1.7	2
59	A mild acid-free one-pot reaction for synthesis of new phenanthridine dyes. <i>Dyes and Pigments</i> , 2016, 134, 613-617.	3.7	2
60	Nano-aggregates of furan-2-carbohydrazide derivatives displaying enhanced emission with a bathochromic shift. <i>RSC Advances</i> , 2019, 9, 36097-36102.	3.6	2
61	Ten new nortriterpenes from <i>Euphorbia resinifera</i> and their anti-tomato yellow leaf curl virus activities. <i>FÄ-toterapÄ-Äç</i> , 2021, 153, 104989.	2.2	1