

Xin Zhang

List of Publications by Year in descending order

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49
papers

3,156
citations

279798

23
h-index

182427

51
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52
all docs

52
docs citations

52
times ranked

3893
citing authors

#	ARTICLE	IF	CITATIONS
1	Vesicular perylene dye nanocapsules as supramolecular fluorescent pH sensor systems. <i>Nature Chemistry</i> , 2009, 1, 623-629.	13.6	563
2	Molecular Assemblies of Perylene Bisimide Dyes in Water. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6328-6348.	13.8	417
3	Morphology Control of Fluorescent Nanoaggregates by Co-Self-Assembly of Wedge- and Dumbbell-Shaped Amphiphilic Perylene Bisimides. <i>Journal of the American Chemical Society</i> , 2007, 129, 4886-4887.	13.7	393
4	Supramolecular block copolymers by kinetically controlled co-self-assembly of planar and core-twisted perylene bisimides. <i>Nature Communications</i> , 2015, 6, 7009.	12.8	183
5	Highly Fluorescent Lyotropic Mesophases and Organogels Based on π -Aggregates of Core-Twisted Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2008, 14, 8074-8078.	3.3	169
6	Highly fluorescent water-soluble polyglycerol-dendronized perylene bisimide dyes. <i>Chemical Communications</i> , 2010, 46, 1884-1886.	4.1	156
7	Hierarchical Growth of Fluorescent Dye Aggregates in Water by Fusion of Segmented Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1270-1274.	13.8	108
8	Fluorescence and Aggregation Behavior of Poly(amidoamine) Dendrimers Peripherally Modified with Aromatic Chromophores: The Effect of Dendritic Architectures. <i>Journal of the American Chemical Society</i> , 2004, 126, 15180-15194.	13.7	89
9	Biosupramolecular Nanowires from Chlorophyll Dyes with Exceptional Charge-Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6378-6382.	13.8	88
10	Spermine-Functionalized Perylene Bisimide Dyes: Highly Fluorescent Bola-Amphiphiles in Water. <i>Chemistry - A European Journal</i> , 2010, 16, 3372-3382.	3.3	76
11	White-light emitting dye micelles in aqueous solution. <i>Chemical Communications</i> , 2013, 49, 8178.	4.1	66
12	Benzodithiophene bridged dimeric perylene diimide amphiphiles as efficient solution-processed non-fullerene small molecules. <i>Polymer Chemistry</i> , 2013, 4, 4631.	3.9	66
13	Donor/acceptor vinyl monomers and their polymers: Synthesis, photochemical and photophysical behavior. <i>Progress in Polymer Science</i> , 2006, 31, 893-948.	24.7	59
14	A New Type of Soft Vesicle-Forming Molecule: An Amino Acid Derived Guanidiniocarbonyl Pyrrole Carboxylate Zwitterion. <i>Organic Letters</i> , 2008, 10, 1469-1472.	4.6	50
15	Synthesis of Bismaleimides Bearing Electron-Donating Chromophores and Their Fluorescence Behavior during Copolymerization. <i>Macromolecules</i> , 2003, 36, 3115-3127.	4.8	44
16	Facile synthesis of 1-bromo-7-alkoxyl perylene diimide dyes: toward unsymmetrical functionalizations at the 1,7-positions. <i>Tetrahedron Letters</i> , 2012, 53, 1094-1097.	1.4	44
17	Impact of molecular solvophobicity vs. solvophilicity on device performances of dimeric perylene diimide based solution-processed non-fullerene organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11375.	2.8	43
18	Trismaleimide Dendrimers: Helix-to-Superhelix Supramolecular Transition Accompanied by White-Light Emission. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17994-18002.	13.8	42

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19	Multi-Maleimides Bearing Electron-Donating Chromophores: A Reversible Fluorescence and Aggregation Behavior. <i>Journal of the American Chemical Society</i> , 2004, 126, 12200-12201.	13.7	36
20	A Self-Assembly Phase Diagram from Amphiphilic Perylene Diimides. <i>Chemistry - A European Journal</i> , 2012, 18, 12305-12313.	3.3	34
21	Orientation of bromination in bay-region of perylene diimides. <i>Tetrahedron</i> , 2013, 69, 8155-8160.	1.9	24
22	Bismaleimides Having Electron-Donating Chromophore Moieties: A New Approach Toward Monitoring the Process of Curing Based on Their Fluorescence Behavior. <i>Macromolecular Rapid Communications</i> , 2001, 22, 983-987.	3.9	21
23	Water-soluble 3,4,9,10-peryrene tetracarboxylic ammonium as a high-performance fluorochrome for living cells staining. <i>Luminescence</i> , 2009, 24, 140-143.	2.9	20
24	Dynamic Diels-Alder reactions of maleimide-furan amphiphiles and their fluorescence ON/OFF behaviours. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7871-7877.	2.8	19
25	Poly(amidoamine) dendrimers with phenyl shells: fluorescence and aggregation behavior. <i>Polymer</i> , 2004, 45, 8395-8402.	3.8	17
26	Self-assembly of a new class of amphiphilic poly(amidoamine) dendrimers and their electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5512-5519.	2.3	17
27	Controlling fluorescence resonance energy transfer of donor-acceptor dyes by Diels-Alder dynamic covalent bonds. <i>Chemical Communications</i> , 2021, 57, 3275-3278.	4.1	15
28	$\hat{1}^2$ -Diketones bearing electron-donating chromophores and a novel $\hat{1}^2$ -triketone: synthesis and reversible fluorescence behavior. <i>Tetrahedron Letters</i> , 2006, 47, 2623-2626.	1.4	13
29	Trismaleimide Dendrimers: Helix-Superhelix Supramolecular Transition Accompanied by White-Light Emission. <i>Angewandte Chemie</i> , 2019, 131, 18162-18170.	2.0	13
30	Self-assembly and supramolecular transition of poly(amidoamine) dendrons focally modified with aromatic chromophores. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 289-296.	9.4	12
31	The leverage effect of the relative strength of molecular solvophobicity vs. solvophilicity on fine-tuning nanomorphologies of perylene diimide bolaamphiphiles. <i>Soft Matter</i> , 2013, 9, 3089.	2.7	12
32	Donor/acceptor maleimide and itaconimide dyes: Synthesis, fluorescence and electrochemical properties. <i>Dyes and Pigments</i> , 2020, 172, 107823.	3.7	12
33	Amphiphilic Fluorescence Resonance Energy Transfer Dyes: Synthesis, Fluorescence, and Aggregation Behavior in Water. <i>Chemistry - A European Journal</i> , 2020, 26, 11503-11510.	3.3	12
34	Fluorescent carbazole-containing dyes: Synthesis and supramolecular assembly by self-complementary donor-acceptor π -stacking and dipolar interactions. <i>Dyes and Pigments</i> , 2020, 182, 108474.	3.7	11
35	Mono-, bis-, and trismaleimides having electron-donating chromophores: Fluorescence, electrochemical properties, polymerization, and cure monitoring. <i>Journal of Polymer Science Part A</i> , 2006, 44, 304-313.	2.3	10
36	Poly(amidoamine) Dendrimers Bearing Electron-Donating Chromophores: Fluorescence and Electrochemical Properties. <i>Polymer Bulletin</i> , 2006, 56, 63-74.	3.3	10

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37	Pyrene-containing dyes: Reversible click/declick reaction, optical and aggregation behaviors. <i>Dyes and Pigments</i> , 2020, 179, 108375.	3.7	9
38	New β -diketone-containing styrenic monomers and their polymers: Synthesis, keto-enol tautomerism and related fluorescence behavior. <i>Polymer</i> , 2006, 47, 3390-3400.	3.8	8
39	Synthesis and fluorescence behavior of 2,5-diphenyl-1,3,4-oxadiazole-containing bismaleimides and bis-succinimides. <i>Frontiers of Chemical Science and Engineering</i> , 2013, 7, 381-387.	4.4	8
40	Modulating optical and electrochemical properties of perylene dyes by twisting aromatic π -system structures. <i>Dyes and Pigments</i> , 2021, 189, 109261.	3.7	8
41	Path-Guided Hierarchical Surface Relief Gratings on Azo-Films Induced by Polarized Light Illumination through Surface-Wrinkling Phase Mask. <i>Langmuir</i> , 2020, 36, 2837-2846.	3.5	5
42	Reversible, controllable white-light emission of dye systems by dynamic covalent furan moiety exchange. <i>Chemical Communications</i> , 2022, 58, 5261-5264.	4.1	5
43	A Strategy to Prepare Anemone-Shaped Polymer Brush by Controlled/Living Radical Polymerization. <i>ACS Symposium Series</i> , 2003, , 342-351.	0.5	4
44	Dynamic dye emission ON/OFF systems by a furan moiety exchange protocol. <i>Dyes and Pigments</i> , 2021, 184, 108652.	3.7	4
45	Intramolecular energy transfer dyes as temperature- and polarity-sensitive fluorescence probes. <i>Dyes and Pigments</i> , 2022, 205, 110492.	3.7	4
46	Synthesis and aggregation properties of boron-dipyrromethene dyes conjugated with guanine units. <i>Journal of Porphyrins and Phthalocyanines</i> , 2018, 22, 944-952.	0.8	3
47	Fluorescence Behavior of Biphenyl Containing Side-Chain Liquid Crystalline Polyacetylene with Various Lengths of Spacers. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2010, 26, 2281-2285.	4.9	2
48	Deep-blue-emitting nanoaggregates from carbazole-based dyes in water. <i>Chemical Communications</i> , 2021, 58, 104-107.	4.1	1
49	Self-correcting energy transfer Diels-Alder adduct dyes. <i>Dyes and Pigments</i> , 2022, 203, 110337.	3.7	1