

Tao Wang

List of Publications by Year in descending order

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60
papers

986
citations

394421

19
h-index

477307

29
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60
all docs

60
docs citations

60
times ranked

561
citing authors

#	ARTICLE	IF	CITATIONS
1	Facilely prepared blue-green light sensitive curcuminoids with excellent bleaching properties as high performance photosensitizers in cationic and free radical photopolymerization. <i>Polymer Chemistry</i> , 2018, 9, 1787-1798.	3.9	64
2	Conjugated phenothiazine oxime esters as free radical photoinitiators. <i>Polymer Chemistry</i> , 2017, 8, 6134-6142.	3.9	61
3	Photopolymerization of acrylate resin and ceramic suspensions with benzylidene ketones under blue/green LED. <i>Polymer</i> , 2019, 184, 121841.	3.8	49
4	Flavonol dyes with different substituents in photopolymerization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 386, 112097.	3.9	45
5	Several ferrocenium salts as efficient photoinitiators and thermal initiators for cationic epoxy polymerization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 187, 389-394.	3.9	43
6	Progress of Experimental and Computational Catalyst Design for Electrochemical Nitrogen Fixation. <i>ACS Catalysis</i> , 2022, 12, 8936-8975.	11.2	41
7	Thiophene-substituted phenothiazine-based photosensitizers for radical and cationic photopolymerization reactions under visible laser beams (405 and 455 nm). <i>Polymer Chemistry</i> , 2016, 7, 5147-5156.	3.9	38
8	Aromatic amine-sulfone/sulfoxide conjugated D-A-type dyes in photopolymerization under 405 nm and 455 nm laser beams. <i>Polymer Chemistry</i> , 2015, 6, 4424-4435.	3.9	35
9	Multicomponent photoinitiating systems containing arylamino oxime ester for visible light photopolymerization. <i>Progress in Organic Coatings</i> , 2019, 135, 517-524.	3.9	33
10	D-A dyes with phenothiazine-carbazole/triphenylamine as double donors in photopolymerization under 455 nm and 532 nm laser beams. <i>Polymer Chemistry</i> , 2016, 7, 5039-5049.	3.9	32
11	Synthesis and electrochemical, linear and third-order nonlinear optical properties of ferrocene-based D-A dyes as novel photoredox catalysts in photopolymerization under visible LED irradiations. <i>Dyes and Pigments</i> , 2019, 166, 140-148.	3.7	32
12	Acetylene bridged D-(A) ₂ type dyes containing benzophenone moieties: Photophysical properties, and the potential application as photoinitiators. <i>Dyes and Pigments</i> , 2021, 184, 108583.	3.7	32
13	A novel ferrocenium salt as visible light photoinitiator for cationic and radical photopolymerization. <i>Progress in Organic Coatings</i> , 2010, 68, 234-239.	3.9	27
14	A study of the photoactivities and thermomechanical properties of epoxy resins using novel [cyclopentadien-Fe-arene] ⁺ PF ₆ ⁻ photoinitiators. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 163, 77-86.	3.9	26
15	Cationic photopolymerization of epoxy systems initiated by cyclopentadien-iron-biphenyl hexafluorophosphate ([Cp-Fe-biphenyl] ⁺ PF ₆ ⁻). <i>Polymer Bulletin</i> , 2005, 53, 323-331.	3.3	24
16	Novel Norrish type I flavonoid photoinitiator for safe LED light with high activity and low toxicity by inhibiting the ESIPT process. <i>Dyes and Pigments</i> , 2021, 184, 108865.	3.7	24
17	Double benzylidene ketones as photoinitiators for visible light photopolymerization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 429, 113938.	3.9	24
18	Carbazole-bound ferrocenium salt as an efficient cationic photoinitiator for epoxy polymerization. <i>Polymer International</i> , 2005, 54, 1251-1255.	3.1	21

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19	3D Printing of Integrated Ceramic Membranes by the DLP Method. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9368-9377.	3.7	21
20	A synergistic effect of a ferrocenium salt on the diaryliodonium salt-induced visible-light curing of bisphenol-A epoxy resin. <i>RSC Advances</i> , 2015, 5, 33171-33176.	3.6	20
21	UV-Curable Epoxy Silicone with a High Refractive Index and Self-Photosensitizing Effect. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15832-15838.	3.7	18
22	(<i>Î</i> -N-alkylcarbazole) (<i>Î</i> -5-cyclopentadienyl) iron hexafluorophosphate salts in photoinitiated and thermal epoxy polymerization. <i>Polymer Engineering and Science</i> , 2009, 49, 613-618.	3.1	16
23	Synthesis and photoactivity of novel cationic photoinitiators: (<i>Î</i> -6-Diphenylmethane) (<i>Î</i> -5-cyclopentadienyl) iron hexafluorophosphate and (<i>Î</i> -6-benzophenone) (<i>Î</i> -5-cyclopentadienyl) iron hexafluorophosphate. <i>Progress in Organic Coatings</i> , 2009, 65, 251-256.	3.9	13
24	Visible light curing of bisphenol-A epoxides and acrylates photoinitiated by (<i>Î</i> -6-benzophenone) (<i>Î</i> -5-cyclopentadienyl) iron hexafluorophosphate. <i>Journal of Polymer Research</i> , 2011, 18, 1425-1429.	2.4	13
25	Investigation of thermal instability of benzoyl peroxide in the presence of carbazole and its derivatives. <i>Thermochimica Acta</i> , 2012, 543, 232-238.	2.7	12
26	UV spectroscopic studies and charge transfer properties of azobenzene-containing cyclopentadienyliron complexes of arenes: A combined experimental and density functional theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 287-291.	3.9	12
27	Two-photon polymerization of gratings by interference of a femtosecond laser pulse. <i>Chemical Physics Letters</i> , 2003, 374, 381-384.	2.6	11
28	Cationic cyclopentadienyliron azo-complexes: Synthesis, spectroscopic characterization, and molecular structure. <i>Dyes and Pigments</i> , 2012, 94, 314-319.	3.7	11
29	Diphenyl sulfone-based $\text{Cp}^*\text{Ir}^{\text{III}}\text{A}$ dyes as efficient initiators for one-photon and two-photon initiated polymerization. <i>Polymer Chemistry</i> , 2019, 10, 2152-2161.	3.9	11
30	Efficient Pd-Catalyzed Coupling Reaction of Cationic Cyclopentadienyliron Complexes of Chloro-substituted Arenes with Arylboronic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1308-1312.	3.7	10
31	Synthesis, one/two-photon optical and electrochemical properties and the photopolymerization-sensitizing effect of anthracene-based dyes: influence of the donor groups. <i>New Journal of Chemistry</i> , 2019, 43, 6737-6745.	2.8	10
32	Molecular tuning of the crystallization-induced emission enhancement of diphenyl-dibenzofulvene luminogens. <i>Chemical Communications</i> , 2021, 57, 484-487.	4.1	10
33	Carbazole-based compounds containing aldehyde and cyanoacetic acid: optical properties and applications in photopolymerization. <i>RSC Advances</i> , 2017, 7, 55382-55388.	3.6	10
34	Biphenyl Bis [(<i>Î</i> -cyclopentadienyl) iron] Dication as an Efficient Cationic Photoinitiator for Epoxy Polymerization. <i>Chinese Journal of Chemical Engineering</i> , 2008, 16, 819-822.	3.5	9
35	Carbazoyl β -diketones as novel photoinitiators in photopolymerization under LEDs. <i>Progress in Organic Coatings</i> , 2020, 144, 105651.	3.9	9
36	Study of fallingâ€¦downâ€¦type DLP 3D printing technology for highâ€¦resolution hydroxyapatite scaffolds. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 268-280.	2.1	9

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37	Synthesis and Characterization of Alkoxy and Phenoxy-substituted Ferrocenium Salt Cationic Photoinitiators. Chinese Journal of Chemical Engineering, 2006, 14, 806-809.	3.5	8
38	Synthesis and photochemical properties of cationic cyclopentadienyliron containing arylazo chromophores. Inorganic Chemistry Communication, 2011, 14, 1516-1519.	3.9	8
39	Synthesis and cationic photopolymerization of phenyl epoxy-silicone monomers. Journal of Polymer Research, 2012, 19, 1.	2.4	8
40	Photo-Fenton reaction of supported cationic cyclopentadienyl iron complexes of arene and application as heterogeneous catalysts in photodegradation of dyes under visible light. Inorganica Chimica Acta, 2013, 406, 37-43.	2.4	8
41	Synthesis and Characterization of Dicyclopentadiene " cresol Epoxy Resin. Polymer Bulletin, 2008, 59, 787-793.	3.3	7
42	A new visible light bimolecular photoinitiator system for free radical polymerization. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 330-335.	3.9	7
43	Flame retardancy effects of phosphorus-containing compounds and cationic photoinitiators on photopolymerized cycloaliphatic epoxy resins. Journal of Applied Polymer Science, 2014, 131, .	2.6	7
44	Curcuminoid-Based Difluoroboron Dyes as High-Performance Photosensitizers in Long-Wavelength (Yellow and Red) Cationic Photopolymerization. Macromolecular Rapid Communications, 2019, 40, 1900291.	3.9	7
45	Photopolymerization with AIE dyes for solid-state luminophores. Polymer Chemistry, 2020, 11, 1589-1596.	3.9	7
46	Synthesis and optical properties of cationic cyclopentadienyl iron complexes with diphenylacetylene chromophores. Inorganica Chimica Acta, 2015, 427, 259-265.	2.4	6
47	Unveiling the electronic effect of substituent on sensitized photopolymerization: An experimental and theoretical investigation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112551.	3.9	6
48	Synthesis, spectroscopic characterization, and molecular structure of triphenyl butene derivatives containing a cyclopentadienyl iron unit. Inorganica Chimica Acta, 2012, 392, 374-379.	2.4	5
49	Carbazole- and/or triphenylamine-based "D multiarylamino dyes: synthesis, characterization and photophysical properties. New Journal of Chemistry, 2017, 41, 13156-13165.	2.8	5
50	Absorption, fluorescence, and photoinitiating properties of the aromatic ethers and aromatic amines complexes of cyclopentadienyliron. Research on Chemical Intermediates, 2011, 37, 847-857.	2.7	4
51	Electrochemical Reduction of N ₂ into NH ₃ under Ambient Conditions Using Ag-doped TiO ₂ Nanofibers. ACS Applied Nano Materials, 2021, 4, 10370-10377.	5.0	4
52	The three-component photoinitiating systems based on flavonol sulfonate and application in 3D printing. Dyes and Pigments, 2022, 197, 109899.	3.7	4
53	Synthesis and optical properties of two cationic cyclopentadienyliron complexes of arene containing the triphenylbutene structure. Research on Chemical Intermediates, 2015, 41, 5095-5108.	2.7	2
54	Design and synthesis ethynyl ferrocene-based multifunctional chemosensors for fluoride anion. Research on Chemical Intermediates, 2019, 45, 3557-3570.	2.7	2

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55	Gradient Equivalent Feeding in the Acylation of 2,3-Dihydrobenzofuran Catalyzed by Chloroaluminate Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15957-15962.	6.7	2
56	Ceramic 3D Printing via Dye-Sensitized Photopolymerization Under Green LED. <i>3D Printing and Additive Manufacturing</i> , 2023, 10, 310-317.	2.9	2
57	Highly Twisted Aryl-Anthraquinodimethanes: Synthesis, Characterization, and Fluorescence Sensing of TNT. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4031-4041.	2.4	1
58	Synthesis and optical properties of a D ⁺ -A ⁻ D cationic cyclopentadienyl iron complex containing double arylazo chromophores. <i>Research on Chemical Intermediates</i> , 2015, 41, 8245-8255.	2.7	0
59	Effects of conjugation on the properties of alkynylcarbazole compounds: experimental and theoretical study. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	0
60	A Visible-Light Curing system of Diphenyliodonium Salt/BODIPY dyes/Bisphenol-A Epoxy Resin Under Halogen Lamp. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 300, 052016.	0.3	0