

Bin Sun

List of Publications by Year in descending order

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47
papers

1,098
citations

430874

18
h-index

414414

32
g-index

48
all docs

48
docs citations

48
times ranked

1552
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Highly Resilient Nanocomposite Hydrogel with Low Hysteresis and Ultrahigh Elongation. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1023-1028.	3.9	160
2	Mechanically Strong and Multifunctional Hybrid Hydrogels with Ultrahigh Electrical Conductivity. <i>Advanced Functional Materials</i> , 2021, 31, 2104536.	14.9	113
3	Synthesis, Self-assembly, and Crystal Structure of a Shape-Persistent Polyhedral-Oligosilsesquioxane-Nanoparticle-Tethered Perylene Diimide. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4802-4810.	2.6	83
4	Hierarchical structure and polymorphism of a sphere-cubic shape amphiphile based on a polyhedral oligomeric silsesquioxane- $[60]$ fullerene conjugate. <i>Journal of Materials Chemistry</i> , 2011, 21, 14240.	6.7	67
5	From crystals to columnar liquid crystal phases: molecular design, synthesis and phase structure characterization of a series of novel phenazines potentially useful in photovoltaic applications. <i>Soft Matter</i> , 2010, 6, 100-112.	2.7	55
6	Engineering π - π interactions for enhanced photoluminescent properties: unique discrete dimeric packing of perylene diimides. <i>RSC Advances</i> , 2017, 7, 6530-6537.	3.6	42
7	Intriguing anti-superbug Cu ₂ O@ZrP hybrid nanosheet with enhanced antibacterial performance and weak cytotoxicity. <i>Nano Research</i> , 2019, 12, 1453-1460.	10.4	41
8	Size-controlled and large-scale synthesis of organic-soluble Ag nanocrystals in water and their formation mechanism. <i>Progress in Natural Science: Materials International</i> , 2011, 21, 447-454.	4.4	34
9	Effective and biocompatible antibacterial surfaces via facile synthesis and surface modification of peptide polymers. <i>Bioactive Materials</i> , 2021, 6, 4531-4541.	15.6	34
10	PEGylated Cs ₂ WO ₃ nanorods as an efficient and stable 915 nm-laser-driven photothermal agent against cancer cells. <i>RSC Advances</i> , 2015, 5, 7074-7082.	3.6	32
11	Turn-off/on fluorescent sensors for Cu ²⁺ and ATP in aqueous solution based on a tetraphenylethylene derivative. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2640-2645.	5.5	32
12	Mechanical properties of biocompatible clay/P(MEO 2 MA- co -OEGMA) nanocomposite hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 72, 74-81.	3.1	30
13	Cavity-Enhanced Near-Infrared Organic Photodetectors Based on a Conjugated Polymer Containing [1,2,5]Selenadiazolo[3,4- <i>c</i>]Pyridine. <i>Chemistry of Materials</i> , 2021, 33, 5147-5155.	6.7	29
14	A monodisperse anionic silver nanoparticles colloid: Its selective adsorption and excellent plasmon-induced photodegradation of Methylene Blue. <i>Journal of Colloid and Interface Science</i> , 2018, 523, 98-109.	9.4	27
15	Effect of halloysite nanotubes on thermal and flame retardant properties of polyamide 6/melamine cyanurate composites. <i>Polymer Composites</i> , 2015, 36, 892-896.	4.6	25
16	Synthesis and characterization of size-controlled nano-Cu ₂ O deposited on alpha-zirconium phosphate with excellent antibacterial property. <i>Materials Science and Engineering C</i> , 2019, 101, 499-504.	7.3	25
17	Reduced Graphene Oxide/Polyester Yarns Supported Conductive Metal-Organic Framework Nanorods as Novel Electrodes for All-Solid-State Supercapacitors. <i>Energy & Fuels</i> , 2020, 34, 16879-16884.	5.1	22
18	Surface modification of quartz fibres for dental composites through a sol-gel process. <i>Materials Science and Engineering C</i> , 2017, 74, 21-26.	7.3	21

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19	Integrating Nano-Cu ₂ O@ZrP into In Situ Polymerized Polyethylene Terephthalate (PET) Fibers with Enhanced Mechanical Properties and Antibacterial Activities. <i>Polymers</i> , 2019, 11, 113.	4.5	20
20	Effect of hydroxyapatite whisker surface graft polymerization on water sorption, solubility and bioactivity of the dental resin composite. <i>Materials Science and Engineering C</i> , 2015, 53, 150-155.	7.3	19
21	Facile Synthesis of High Molecular Weight Polypeptides via Fast and Moisture Insensitive Polymerization of L- α -Amino Acid N-Carboxyanhydrides. <i>Chinese Journal of Polymer Science (English)</i> Tj ETQq1 1 0.784314 rgBT/Overlo	4.3	19
22	Morphological Characterization of PMMA/PAN Composite Particles in Nano to Submicro Size. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 669-674.	3.6	17
23	Concentration-dependent self-assembly structures of an amphiphilic perylene diimide with tri(ethylene glycol) substituents at bay positions. <i>RSC Advances</i> , 2017, 7, 26074-26081.	3.6	17
24	How does the interplay between bromine substitution at bay area and bulky substituents at imide position influence the photophysical properties of perylene diimides?. <i>RSC Advances</i> , 2017, 7, 16155-16162.	3.6	15
25	The Effect of Hydrotalcite and Zinc Oxide on Smoke Suppression of Commercial Rigid PVC. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 1807-1814.	2.2	11
26	The non-uniform phase structure in blend fiber. I. Non-uniform deformation of the dispersed phase in melt spinning. <i>Fibers and Polymers</i> , 2010, 11, 249-257.	2.1	11
27	Novel block glycopolymers prepared as delivery nanocarriers for controlled release of bortezomib. <i>Colloid and Polymer Science</i> , 2018, 296, 1827-1839.	2.1	11
28	A New Nano-Structured Flame-Retardant Poly(ethylene terephthalate). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 1867-1875.	2.2	10
29	Perylene diimide derivative <i>via</i> ionic self-assembly: helical supramolecular structure and selective detection of ATP. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10422-10430.	5.5	9
30	Investigation of pH-responsive block glycopolymers with different structures for the delivery of doxorubicin. <i>RSC Advances</i> , 2019, 9, 1814-1821.	3.6	8
31	Adsorption of Cd ²⁺ and Cu ²⁺ by Oxidized Cellulose from TEMPO-mediated Selective Oxidation of Alkaline Natural Cellulose Pulp. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 1895-1906.	2.2	7
32	Polypropylene Nanocomposites Based on Synthetic Organic-Soluble Ag Nanocrystals with Prominent I ² -nucleating Effect: Quiescent Crystallization and Melting Behavior. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 2505-2518.	1.0	7
33	Synthesis and characterization of hybrid latexes from soybean oil-based polyurethane and poly(2,2,2-trifluoroethyl methacrylate). <i>Fibers and Polymers</i> , 2014, 15, 208-214.	2.1	5
34	One-pot preparation of poly(styrene-co-divinylbenzene)/silver nanoparticles composite microspheres with tunable porosity and their catalytic degradation of methylene blue in aqueous solution. <i>RSC Advances</i> , 2017, 7, 50176-50187.	3.6	5
35	In-Situ Formation of BHET/Titanium Compound Nanocomposite and its Catalysis for Polyester. <i>Macromolecular Symposia</i> , 2007, 254, 173-179.	0.7	4
36	Preparation of silver nanoparticles with hydrophobic surface and their polyester based nanocomposite fibres with excellent antibacterial properties. <i>Materials Research Innovations</i> , 2014, 18, S4-869-S4-874.	2.3	4

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37	The morphologies and fluorescence quantum yields of perylene diimide dye-doped PS and PHVB microspheres. <i>RSC Advances</i> , 2018, 8, 35534-35538.	3.6	4
38	Synthesis, Self-Assembly and Characterization of Tandem Triblock BPOSS-PDI-X Shape Amphiphiles. <i>Molecules</i> , 2019, 24, 2114.	3.8	4
39	Host-guest chemistry of giant molecular shape amphiphiles based on POSS-PDI conjugates. <i>Nanoscale</i> , 2021, 13, 4295-4300.	5.6	4
40	Photoluminescence emission of a stable and well-dispersed unsaturated polyester-co-arene-earth complex. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45253.	2.6	3
41	Conformation Variation Induced Crystallization Enhancement of Poly(l-lactic acid) by Gluconic Derivatives. <i>Crystal Growth and Design</i> , 2020, 20, 653-660.	3.0	3
42	Adaptive molecular quaternary clips made with pyrene functionalized polyhedral oligomeric silsesquioxane. <i>Nanoscale Advances</i> , 2021, 3, 173-176.	4.6	3
43	Synthesis of Pyrrolidine Substituted Perylene Imide End Capped with POSS Nanoparticle and a Preliminary Study of its Electronic Properties. <i>Advanced Materials Research</i> , 0, 668, 701-705.	0.3	2
44	Composition-Driven Structural Modulation and Guest-Induced Nanotemplate Effects of the Host-Guest Complexes Made by a Unimolecular Q-Clip. <i>Macromolecules</i> , 2021, 54, 8913-8920.	4.8	2
45	Reactive bay functionalized perylene monoimide-polyhedral oligomeric silsesquioxane organic electronic dye. <i>Materials Science-Poland</i> , 2015, 33, 113-121.	1.0	1
46	Aqueous Self-Assembly of Hydrophobic Molecules Influenced by the Molecular Geometry. <i>Journal of Physical Chemistry B</i> , 2022, , .	2.6	1
47	Connecting Molecular and Supramolecular Shapeshifting by the Ostwald's Nucleation Stages of a Star Giant Molecule. <i>Journal of the American Chemical Society</i> , 2022, , .	13.7	0