

Chunhai Chen

List of Publications by Year in descending order

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papers

966
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471509

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#	ARTICLE	IF	CITATIONS
1	AIE-Active Polyamide Containing Diphenylamine-TPE Moiety with Superior Electrofluorochromic Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16105-16112.	8.0	81
2	Synthesis and characterization of thermally stable, high modulus polyimides containing benzimidazole moieties. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2024-2031.	2.3	78
3	Preparation of hydrophilic and antifouling polysulfone ultrafiltration membrane derived from phenolphthalin by copolymerization method. <i>Applied Surface Science</i> , 2017, 401, 69-78.	6.1	65
4	Intermolecular interactions of polyimides containing benzimidazole and benzoxazole moieties. <i>Polymer</i> , 2013, 54, 2335-2340.	3.8	59
5	Soluble polyimides containing 1,4:3,6-dianhydro-D-glucitol and fluorinated units: Preparation, characterization, optical, and dielectric properties. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3253-3265.	2.3	47
6	Colorless-to-Black Electrochromic and AIE-Active Polyamides: An Effective Strategy for the Highest-Contrast Electrofluorochromism. <i>Macromolecules</i> , 2020, 53, 10117-10127.	4.8	42
7	High-Performance Emission/Color Dual-Switchable Polymer-Bearing Pendant Tetraphenylethylene (TPE) and Triphenylamine (TPA) Moieties. <i>Macromolecules</i> , 2019, 52, 5131-5139.	4.8	40
8	Novel aromatic polyamides containing 2-diphenylamino-(9,9-dimethylamine) units as multicolored electrochromic and high contrast electrofluorescent materials. <i>Journal of Polymer Science Part A</i> , 2017, 55, 213-222.	2.3	31
9	Dual-Switching Electrochromism and Electrofluorochromism Derived from Diphenylamine-Based Polyamides with Spirofluorene/Pyrene as Bridged Fluorescence Units. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22099-22107.	8.0	30
10	High-performance blue fluorescent/electroactive polyamide bearing <i>p</i> -phenylenediamine and asymmetrical SBF/TPA-based units for electrochromic and electrofluorochromic multifunctional applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4644-4652.	5.5	29
11	Synergistic effect between electroactive tetraphenyl- <i>p</i> -phenylenediamine and AIE-active tetraphenylethylene for highly integrated electrochromic/electrofluorochromic performances. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9308-9315.	5.5	28
12	3D Printing of Lightweight Polyimide Honeycombs with the High Specific Strength and Temperature Resistance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15690-15700.	8.0	27
13	Synthesis and characterization of benzimidazole-based low CTE block copolyimides. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2561-2570.	2.6	25
14	Novel low dielectric constant and soluble polyimides from diamines containing fluorene and pyridine unit. <i>Journal of Polymer Science</i> , 2021, 59, 329-339.	3.8	21
15	Heat-resistant polyimides with low CTE and water absorption through hydrogen bonding interactions. <i>Journal of Polymer Science</i> , 2021, 59, 1942-1951.	3.8	19
16	Synthesis and characterization of trifluoromethylated poly(aryl ether ketone)s. <i>Polymers for Advanced Technologies</i> , 2003, 14, 221-225.	3.2	18
17	Synthesis and characterization of thermotropic liquid crystalline poly(aryl ether ketone) copolymers with pendant 3-(trifluoromethyl) phenyl groups. <i>Polymer International</i> , 2006, 55, 657-661.	3.1	18
18	Toughening of epoxy resin by poly(ether ether ketone) with pendant fluorocarbon groups. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1758-1765.	2.6	18

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19	Synthesis of polyimides with lower H ₂ O absorption and higher thermal properties by incorporation of intramolecular H-bonding. <i>Journal of Polymer Science</i> , 2020, 58, 969-976.	3.8	17
20	Polyimides with low coefficient of thermal expansion derived from diamines containing benzimidazole and amide: Synthesis, properties, and the N-substitution effect. <i>Journal of Polymer Science</i> , 2021, 59, 510-518.	3.8	16
21	Design of a novel poly(aryl ether nitrile)-based composite ultrafiltration membrane with improved permeability and antifouling performance using zwitterionic modified nano-silica. <i>RSC Advances</i> , 2021, 11, 15231-15244.	3.6	15
22	Homopolyimides containing both benzimidazole and benzoxazole with high <i>T_g</i> and low coefficient of thermal expansion. <i>Journal of Polymer Science</i> , 2021, 59, 833-842.	3.8	15
23	Effect of Length of Cellulose Nanofibers on Mechanical Reinforcement of Polyvinyl Alcohol. <i>Polymers</i> , 2022, 14, 128.	4.5	15
24	Synthesis, isolation, characterization, and properties of small-size aromatic macrocycles for poly(arylene ether ketone)s. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1957-1967.	2.3	14
25	Rigidity enhancement of polyimides containing benzimidazole moieties. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1653-1658.	2.6	13
26	Highly optical transparency and thermally stable polyimides containing pyridine and phenyl pendant. <i>Designed Monomers and Polymers</i> , 2017, 20, 449-457.	1.6	12
27	Multi-shape memory effect of polyimides with extremely high strain. <i>RSC Advances</i> , 2017, 7, 53492-53496.	3.6	12
28	PEEK composites with polyimide sizing SCF as reinforcement: Preparation, characterization, and mechanical properties. <i>High Performance Polymers</i> , 2020, 32, 383-393.	1.8	12
29	Incorporation of <i>N</i> -phenyl in poly(benzimidazole imide)s and improvement in H ₂ O-absorption and transparency. <i>RSC Advances</i> , 2021, 11, 3770-3776.	3.6	12
30	<i>N</i> -Phenyl-substituted poly(benzimidazole imide)s with high glass transition temperature and low coefficient of thermal expansion. <i>RSC Advances</i> , 2022, 12, 4234-4239.	3.6	12
31	Novel TiO ₂ Nanoparticles/Polysulfone Composite Hollow Microspheres for Photocatalytic Degradation. <i>Polymers</i> , 2021, 13, 336.	4.5	11
32	Thermal, morphology, and mechanical properties of polyphenylene sulfide/polyether sulfone binary blends. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	10
33	Synthesis of Highly Sensitive Fluorescent Probe Based on Tetrasubstituted Imidazole and Its Application for Selective Detection of Ag ⁺ Ion in Aqueous Media. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 369-374.	2.6	10
34	Effects of potassium titanate whisker and glass fiber on tribological and mechanical properties of PTFE/PEEK blend. <i>High Performance Polymers</i> , 2018, 30, 752-764.	1.8	9
35	In situ synthesis of MWCNT-graft-polyimides: thermal stability, mechanical property and thermal conductivity. <i>RSC Advances</i> , 2020, 10, 13517-13524.	3.6	9
36	The fabrication of porous hollow polysulfone microspheres with PEG as a porogen for methylene blue adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127949.	4.7	9

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37	Novel copolyimides containing 1,4:3,6-dianhydro-d-mannitol unit Preparation, characterization, thermal, mechanical, soluble, and optical properties. High Performance Polymers, 2019, 31, 220-229.	1.8	8
38	Synthesis of Superheat-Resistant Polyimides with Enhanced Dielectric Constant by Introduction of Cu(I TM I TM)-Coordination. Polymers, 2020, 12, 442.	4.5	8
39	Synthesised spirobichroman-based polyimide functionalized by pyridine: Effects of substituent position on gas separation and thermal properties. International Journal of Energy Research, 2020, 44, 1986-1998.	4.5	6
40	Novel semi-N-methyl substituted bisbenzimidazole based polyimide films with low coefficient of thermal expansion and high Tg. Journal of Polymer Research, 2021, 28, 1.	2.4	6
41	Preparation and Characterization of Reduced Graphene Oxide /TiO2 Blended Polyphenylene sulfone Antifouling Composite Membrane With Improved Photocatalytic Degradation Performance. Frontiers in Chemistry, 2021, 9, 753741.	3.6	6
42	Synthesis and properties of a cyclic oligo(aryl ether ketone) based on bisphenol A and its polymerization. Angewandte Makromolekulare Chemie, 1998, 263, 15-20.	0.2	5
43	Facile fabrication of macroporous polyimide films with pores distributing on one side. Journal of Applied Polymer Science, 2007, 104, 261-266.	2.6	5
44	A novel porous hollow carboxyl-polysulfone microsphere for selective removal of cationic dyes. Chemosphere, 2022, 289, 133205.	8.2	5
45	Preparation and gas separation properties of spirobisbenzoxazole-based polyimides. European Polymer Journal, 2022, 173, 111231.	5.4	5
46	Properties of carbon fibre/bismaleimide composites ex situ toughened with phosphorous-containing poly(arylene ether ketone) film. High Performance Polymers, 2017, 29, 533-543.	1.8	4
47	The spirobichroman-based polyimides with different side groups: from structure-property relationships to chain packing and gas transport performance. RSC Advances, 2021, 11, 5086-5095.	3.6	4
48	Fabrication of ultrafiltration membranes by poly (aryl ether nitrile) with poly (ethylene glycol) as additives. Water Science and Technology, 2020, 82, 2847-2856.	2.5	3
49	Synthesis and thermotropic liquid-crystalline behavior of novel main-chain poly(aryl ether ketones). Journal of Applied Polymer Science, 2003, 89, 1347-1350.	2.6	2