Qichao Ran

List of Publications by Year
in descending order

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46 papers	1,233 citations	279701 23 h-index	377752 34 g-index
46 all docs	46 docs citations	46 times ranked	735 citing authors

#	Article	IF	Citations
1	Oxidative evolution of Z/E-diaminotetraphenylethylene. Physical Chemistry Chemical Physics, 2022, 24, 1960-1964.	1.3	2
2	Facile preparation and properties of polybenzoxazine/graphene porous nanocomposites for electromagnetic wave absorption. Polymer Engineering and Science, 2022, 62, 2580-2591.	1.5	11
3	Polymerization mechanism of 1,3-benzoxazine catalyzed by PCl5 and rearrangement of chemical structures. European Polymer Journal, 2021, 142, 110133.	2.6	27
4	Effects of the curing atmosphere on the structures and properties of polybenzoxazine films. Journal of Materials Science, 2021, 56, 2748-2762.	1.7	10
5	Timeâ€“temperatureâ€“transformation (TTT) and TTTâ€“viscosity diagrams of a typical benzoxazine resin. Journal of Applied Polymer Science, 2021, 138, 49737.	1.3	4
6	Thermal and mechanical activation of dynamically stable ionic interaction toward self-healing strengthening elastomers. Materials Horizons, 2021, 8, 2553-2561.	6.4	26
7	Tuning the polymerization sequence of alkynyl-functionalized benzoxazine: application as precursor for efficient magnetic EMI shielding materials. Journal of Materials Science, 2021, 56, 10691-10705.	1.7	17
8	High Heat-Resistant and Degradable Polybenzoxazines with a Diacetal Structure. ACS Sustainable Chemistry and Engineering, 2021, 9, 7913-7921.	3.2	29
9	High electromagnetic interference shielding effectiveness achieved by multiple internal reflection and absorption in polybenzoxazine/graphene foams. Journal of Applied Polymer Science, 2021, 138, 51318.	1.3	9
10	Synthesis of tautomerization-inhibited diamino substituted tetraphenylethene derivatives with different mechanochromisms: the vital role of chlorine. Materials Chemistry Frontiers, 2021, 5, 2387-2398.	3.2	5
11	Thermal degradation mechanism of a cured acetylene/aldehyde functional benzoxazine with high thermal stability. Polymer Degradation and Stability, 2020, 171, 109041.	2.7	16
12	Aqueous-Phase Exfoliation and Functionalization of Boron Nitride Nanosheets Using Tannic Acid for Thermal Management Applications. Industrial & Engineering Chemistry Research, 2020, 59, 16273-16282.	1.8	37
13	Enhanced thermal conductivity of epoxy composites by introducing graphene@boron nitride nanosheets hybrid nanoparticles. Materials and Design, 2020, 191, 108663.	3.3	111
14	Facile Preparation of Lightweight and Robust Polybenzoxazine Foams. Industrial & Engineering Chemistry Research, 2020, 59, 7575-7583.	1.8	16
15	The study on curing and weight-loss mechanisms of benzoxazine during thermal curing process. Polymer Degradation and Stability, 2020, 179, 109279.	2.7	25
16	Carbonized polybenzoxazine for electromagnetic interference shielding. Materials Chemistry and Physics, 2019, 236, 121806.	2.0	13
17	Electromagnetic interference shielding property of polybenzoxazine/graphene/nickel composites. Reactive and Functional Polymers, 2019, 143, 104324.	2.0	18
18	Thermal responsiveness of hydrogen bonding and dielectric property of polybenzoxazines with different Mannich bridge structures. Polymer, 2019, 175, 302-309.	1.8	35

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19	A conjugated alkyne functional bicyclic polybenzoxazine with superior heat resistance. Journal of Polymer Science Part A, 2019, 57, 1587-1592.	2.5	16
20	Ring Opening Reaction of 3,4â€Dihydroâ€2Hâ€1,3â€Benzoxazine with Amines at Room Temperature. ChemistrySelect, 2019, 4, 6687-6696.	0.7	14
21	Controlled polymerization of 3,4-dihydro-2H-1,3-benzoxazine and its properties tailored by Lewis acids. Reactive and Functional Polymers, 2019, 139, 75-84.	2.0	33
22	Preparation and properties of benzoxazine blends with intumescent flame retardancy. Polymer Degradation and Stability, 2019, 163, 15-24.	2.7	31
23	Prof. Hatsuo Ishida: An Example of Accumulated Youth. Macromolecular Chemistry and Physics, 2019, 220, 1800490.	1.1	0
24	Facile preparation of polybenzoxazine/graphene nanocomposites for electromagnetic interference shielding. Polymer, 2019, 162, 20-28.	1.8	52
25	Curing Reaction of Benzoxazine Under High Pressure and the Effect on Thermal Resistance of Polybenzoxazine. Macromolecular Chemistry and Physics, 2019, 220, 1800340.	1.1	34
26	A novel ultra low-k nanocomposites of benzoxazinyl modified polyhedral oligomeric silsesquioxane and cyanate ester. European Polymer Journal, 2018, 103, 124-132.	2.6	66
27	Preparation of Transparent and Flexible Shape Memory Polybenzoxazine Film through Chemical Structure Manipulation and Hydrogen Bonding Control. Macromolecules, 2018, 51, 6561-6570.	2.2	87
28	Modification of benzoxazine with aryl-ether-ether-ketone diphenol: preparation and characterization. RSC Advances, 2017, 7, 1617-1625.	1.7	15
29	Greatly improved thermal properties of polybenzoxazine via modification by acetylene/aldehyde groups. Polymer, 2017, 123, 232-239.	1.8	49
30	Nitrogen Configuration of Polybenzoxazine Carbide. High Temperature Materials and Processes, 2015, 34, .	0.6	5
31	Study on the catalytic prepolymerization of an acetylene-functional benzoxazine and the thermal degradation of its cured product. RSC Advances, 2015, 5, 82429-82437.	1.7	30
32	Study on thermal degradation mechanism of a cured aldehyde-functional benzoxazine. RSC Advances, 2015, 5, 22593-22600.	1.7	38
33	Study on the thermal degradation behavior of sulfone-containing polybenzoxazines via Py-GC-MS. Polymer Degradation and Stability, 2015, 111, 38-45.	2.7	20
34	A novel polybenzoxazine containing styrylpyridine structure via the Knoevenagel reaction. Journal of Applied Polymer Science, 2014, 131, .	1.3	6
35	Reaction-induced phase separation in a bisphenol A-aniline benzoxazineâ€“N,Nâ€²-(2,2,4-trimethylhexane-1,6-diyl)bis(maleimide)â€“imidazole blend: the effect of changing the concentration on morphology. Physical Chemistry Chemical Physics, 2014, 16, 5326.	1.3	13
36	Synthesis and Characterization of Pyridine-Based Benzoxazines and Their Carbons. Journal of Macromolecular Science - Pure and Applied Chemistry, 2014, 51, 783-787.	1.2	7

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37	The catalytic mechanism of benzoxazine to the polymerization of cyanate ester. Materials Chemistry and Physics, 2014, 148, 328-334.	2.0	33
38	The effect of curing cycles on curing reactions and properties of a ternary system based on benzoxazine, epoxy resin, and imidazole. Journal of Applied Polymer Science, 2013, 127, 2169-2175.	1.3	36
39	Research on curing mechanism and thermal property of bis-allyl benzoxazine and N,Nâ€²-(2,2,4-trimethylhexane-1,6-diyl) dimaleimide blend. Reactive and Functional Polymers, 2013, 73, 668-673.	2.0	30
40	A novel benzoxazine/bismaleimide blend resulting in bi-continuous phase separated morphology. RSC Advances, 2013, 3, 1350-1353.	1.7	31
41	Reaction induced phase separation in a bisphenol A-aniline benzoxazine/N,Nâ€²-(2,2,4-trimethylhexane-1,6-diyl)bis(maleimide)/imidazole blend: the effect of initial curing temperature on morphology and properties. RSC Advances, 2013, 3, 14029.	1.7	16
42	Phase separation in benzoxazine/epoxy resin blending systems. Polymer Journal, 2013, 45, 637-644.	1.3	25
43	Poly(ether imide)â€modified benzoxazine blends: Influences of phase separation and hydrogen bonding interactions on the curing reaction. Journal of Applied Polymer Science, 2013, 128, 2865-2874.	1.3	19
44	Curing behaviors and thermal properties of benzoxazine and N, Nâ€²â€(2, 2, 4â€trimethylhexaneâ€1, 6â€diyl) dimaleimide blend. Journal of Applied Polymer Science, 2013, 129, 1124-1130.	1.3	23
45	The curing procedure for a benzoxazineâ€“cyanateâ€“epoxy system and the properties of the terpolymer. Polymer Chemistry, 2012, 3, 1629.	1.9	68
46	Chemorheology and Curing Kinetics of a New RTM Benzoxazine Resin. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 46, 674-681.	1.2	25