

Qichao Ran

List of Publications by Year in descending order

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46
papers

1,233
citations

279701

23
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377752

34
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all docs

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docs citations

46
times ranked

735
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermal conductivity of epoxy composites by introducing graphene@boron nitride nanosheets hybrid nanoparticles. <i>Materials and Design</i> , 2020, 191, 108663.	3.3	111
2	Preparation of Transparent and Flexible Shape Memory Polybenzoxazine Film through Chemical Structure Manipulation and Hydrogen Bonding Control. <i>Macromolecules</i> , 2018, 51, 6561-6570.	2.2	87
3	The curing procedure for a benzoxazine-cyanate epoxy system and the properties of the terpolymer. <i>Polymer Chemistry</i> , 2012, 3, 1629.	1.9	68
4	A novel ultra low-k nanocomposites of benzoxazinyl modified polyhedral oligomeric silsesquioxane and cyanate ester. <i>European Polymer Journal</i> , 2018, 103, 124-132.	2.6	66
5	Facile preparation of polybenzoxazine/graphene nanocomposites for electromagnetic interference shielding. <i>Polymer</i> , 2019, 162, 20-28.	1.8	52
6	Greatly improved thermal properties of polybenzoxazine via modification by acetylene/aldehyde groups. <i>Polymer</i> , 2017, 123, 232-239.	1.8	49
7	Study on thermal degradation mechanism of a cured aldehyde-functional benzoxazine. <i>RSC Advances</i> , 2015, 5, 22593-22600.	1.7	38
8	Aqueous-Phase Exfoliation and Functionalization of Boron Nitride Nanosheets Using Tannic Acid for Thermal Management Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16273-16282.	1.8	37
9	The effect of curing cycles on curing reactions and properties of a ternary system based on benzoxazine, epoxy resin, and imidazole. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2169-2175.	1.3	36
10	Thermal responsiveness of hydrogen bonding and dielectric property of polybenzoxazines with different Mannich bridge structures. <i>Polymer</i> , 2019, 175, 302-309.	1.8	35
11	Curing Reaction of Benzoxazine Under High Pressure and the Effect on Thermal Resistance of Polybenzoxazine. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800340.	1.1	34
12	The catalytic mechanism of benzoxazine to the polymerization of cyanate ester. <i>Materials Chemistry and Physics</i> , 2014, 148, 328-334.	2.0	33
13	Controlled polymerization of 3,4-dihydro-2H-1,3-benzoxazine and its properties tailored by Lewis acids. <i>Reactive and Functional Polymers</i> , 2019, 139, 75-84.	2.0	33
14	A novel benzoxazine/bismaleimide blend resulting in bi-continuous phase separated morphology. <i>RSC Advances</i> , 2013, 3, 1350-1353.	1.7	31
15	Preparation and properties of benzoxazine blends with intumescent flame retardancy. <i>Polymer Degradation and Stability</i> , 2019, 163, 15-24.	2.7	31
16	Research on curing mechanism and thermal property of bis-allyl benzoxazine and N,N ^ε -(2,2,4-trimethylhexane-1,6-diyl) dimaleimide blend. <i>Reactive and Functional Polymers</i> , 2013, 73, 668-673.	2.0	30
17	Study on the catalytic prepolymerization of an acetylene-functional benzoxazine and the thermal degradation of its cured product. <i>RSC Advances</i> , 2015, 5, 82429-82437.	1.7	30
18	High Heat-Resistant and Degradable Polybenzoxazines with a Diacetal Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7913-7921.	3.2	29

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19	Polymerization mechanism of 1,3-benzoxazine catalyzed by PCl_5 and rearrangement of chemical structures. <i>European Polymer Journal</i> , 2021, 142, 110133.	2.6	27
20	Thermal and mechanical activation of dynamically stable ionic interaction toward self-healing strengthening elastomers. <i>Materials Horizons</i> , 2021, 8, 2553-2561.	6.4	26
21	Chemorheology and Curing Kinetics of a New RTM Benzoxazine Resin. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 674-681.	1.2	25
22	Phase separation in benzoxazine/epoxy resin blending systems. <i>Polymer Journal</i> , 2013, 45, 637-644.	1.3	25
23	The study on curing and weight-loss mechanisms of benzoxazine during thermal curing process. <i>Polymer Degradation and Stability</i> , 2020, 179, 109279.	2.7	25
24	Curing behaviors and thermal properties of benzoxazine and $\text{N,N}'$ -(2,2,4-trimethylhexane-1,6-diyl) dimaleimide blend. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1124-1130.	1.3	23
25	Study on the thermal degradation behavior of sulfone-containing polybenzoxazines via Py-GC-MS. <i>Polymer Degradation and Stability</i> , 2015, 111, 38-45.	2.7	20
26	Poly(ether imide)-modified benzoxazine blends: Influences of phase separation and hydrogen bonding interactions on the curing reaction. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2865-2874.	1.3	19
27	Electromagnetic interference shielding property of polybenzoxazine/graphene/nickel composites. <i>Reactive and Functional Polymers</i> , 2019, 143, 104324.	2.0	18
28	Tuning the polymerization sequence of alkynyl-functionalized benzoxazine: application as precursor for efficient magnetic EMI shielding materials. <i>Journal of Materials Science</i> , 2021, 56, 10691-10705.	1.7	17
29	Reaction induced phase separation in a bisphenol A-aniline benzoxazine/ $\text{N,N}'$ -(2,2,4-trimethylhexane-1,6-diyl)bis(maleimide)/imidazole blend: the effect of initial curing temperature on morphology and properties. <i>RSC Advances</i> , 2013, 3, 14029.	1.7	16
30	A conjugated alkyne functional bicyclic polybenzoxazine with superior heat resistance. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1587-1592.	2.5	16
31	Thermal degradation mechanism of a cured acetylene/aldehyde functional benzoxazine with high thermal stability. <i>Polymer Degradation and Stability</i> , 2020, 171, 109041.	2.7	16
32	Facile Preparation of Lightweight and Robust Polybenzoxazine Foams. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7575-7583.	1.8	16
33	Modification of benzoxazine with aryl-ether-ether-ketone diphenol: preparation and characterization. <i>RSC Advances</i> , 2017, 7, 1617-1625.	1.7	15
34	Ring Opening Reaction of 3,4-Dihydro-2H-1,3-Benzoxazine with Amines at Room Temperature. <i>ChemistrySelect</i> , 2019, 4, 6687-6696.	0.7	14
35	Reaction-induced phase separation in a bisphenol A-aniline benzoxazine/ $\text{N,N}'$ -(2,2,4-trimethylhexane-1,6-diyl)bis(maleimide)/imidazole blend: the effect of changing the concentration on morphology. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5326.	1.3	13
36	Carbonized polybenzoxazine for electromagnetic interference shielding. <i>Materials Chemistry and Physics</i> , 2019, 236, 121806.	2.0	13

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37	Facile preparation and properties of polybenzoxazine/graphene porous nanocomposites for electromagnetic wave absorption. <i>Polymer Engineering and Science</i> , 2022, 62, 2580-2591.	1.5	11
38	Effects of the curing atmosphere on the structures and properties of polybenzoxazine films. <i>Journal of Materials Science</i> , 2021, 56, 2748-2762.	1.7	10
39	High electromagnetic interference shielding effectiveness achieved by multiple internal reflection and absorption in polybenzoxazine/graphene foams. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51318.	1.3	9
40	Synthesis and Characterization of Pyridine-Based Benzoxazines and Their Carbons. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 783-787.	1.2	7
41	A novel polybenzoxazine containing styrylpyridine structure via the Knoevenagel reaction. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	6
42	Nitrogen Configuration of Polybenzoxazine Carbide. <i>High Temperature Materials and Processes</i> , 2015, 34, .	0.6	5
43	Synthesis of tautomerization-inhibited diamino substituted tetraphenylethene derivatives with different mechanochromisms: the vital role of chlorine. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2387-2398.	3.2	5
44	Time-temperature-transformation (TTT) and TTT-viscosity diagrams of a typical benzoxazine resin. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49737.	1.3	4
45	Oxidative evolution of <i>Z</i> / <i>E</i> -diaminotetraphenylethylene. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1960-1964.	1.3	2
46	Prof. Hatsuo Ishida: An Example of Accumulated Youth. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800490.	1.1	0