

Hatsuo Ishida

List of Publications by Year in descending order

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308
papers

21,269
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5876

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times ranked

7572
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenolic materials via ring-opening polymerization: Synthesis and characterization of bisphenol-A based benzoxazines and their polymers. <i>Journal of Polymer Science Part A</i> , 1994, 32, 1121-1129.	2.5	894
2	Physical and mechanical characterization of near-zero shrinkage polybenzoxazines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 1019-1030.	2.4	712
3	A Study on the Volumetric Expansion of Benzoxazine-Based Phenolic Resin. <i>Macromolecules</i> , 1997, 30, 1099-1106.	2.2	477
4	The structure of γ -aminopropyltriethoxysilane on glass surfaces. <i>Journal of Colloid and Interface Science</i> , 1980, 74, 396-404.	5.0	427
5	Mechanical characterization of copolymers based on benzoxazine and epoxy. <i>Polymer</i> , 1996, 37, 4487-4495.	1.8	418
6	Very high thermal conductivity obtained by boron nitride-filled polybenzoxazine. <i>Thermochimica Acta</i> , 1998, 320, 177-186.	1.2	407
7	Spectroscopic Studies of Poly[N,N'-bis(phenoxyphenyl)pyromellitimide]. 1. Structures of the Polyimide and Three Model Compounds. <i>Macromolecules</i> , 1980, 13, 826-834.	2.2	356
8	General Approach to Nanocomposite Preparation. <i>Chemistry of Materials</i> , 2000, 12, 1260-1267.	3.2	341
9	Phenolic materials via ring-opening polymerization of benzoxazines: Effect of molecular structure on mechanical and dynamic mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 921-927.	2.4	275
10	A review of recent progress in the studies of molecular and microstructure of coupling agents and their functions in composites, coatings and adhesive joints. <i>Polymer Composites</i> , 1984, 5, 101-123.	2.3	261
11	Structural effects of phenols on the thermal and thermo-oxidative degradation of polybenzoxazines. <i>Polymer</i> , 1999, 40, 4365-4376.	1.8	233
12	Comparison among Several Numerical Integration Methods for Kramers-Kronig Transformation. <i>Applied Spectroscopy</i> , 1988, 42, 952-957.	1.2	232
13	Molecular characterization of the polymerization of acetylene-functional benzoxazine resins. <i>Polymer</i> , 1999, 40, 1815-1822.	1.8	215
14	Synthesis and properties of a new crosslinkable polymer containing benzoxazine moiety in the main chain. <i>Polymer</i> , 2006, 47, 7664-7669.	1.8	211
15	Overview and Historical Background of Polybenzoxazine Research. , 2011, , 3-81.		206
16	A Study on Hydrogen-Bonded Network Structure of Polybenzoxazines. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3271-3280.	1.1	203
17	Reaction of benzoxazine-based phenolic resins with strong and weak carboxylic acids and phenols as catalysts. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1913-1921.	2.5	202
18	Thermal study on the copolymers of phthalonitrile and phenylnitrile-functional benzoxazines. <i>Journal of Applied Polymer Science</i> , 1999, 73, 2937-2949.	1.3	200

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19	Synthesis and characterization of maleimide and norbornene functionalized benzoxazines. <i>Polymer</i> , 2005, 46, 5588-5595.	1.8	200
20	Oxazine Ring-Related Vibrational Modes of Benzoxazine Monomers Using Fully Aromatically Substituted, Deuterated, ¹⁵ N Isotope Exchanged, and Oxazine-Ring-Substituted Compounds and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6269-6282.	1.1	198
21	An Investigation of Hydrogen Bonding in Benzoxazine Dimers by Fast Magic-Angle Spinning and Double-Quantum ¹ H NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1998, 120, 11784-11795.	6.6	197
22	Natural-sourced benzoxazine resins, homopolymers, blends and composites: A review of their synthesis, manufacturing and applications. <i>Progress in Polymer Science</i> , 2019, 99, 101168.	11.8	177
23	Cationic Ring-Opening Polymerization of 1,3-Benzoxazines: Mechanistic Study Using Model Compounds. <i>Macromolecules</i> , 2010, 43, 4562-4572.	2.2	176
24	A Smart Latent Catalyst Containing <i>o</i> -Trifluoroacetamide Functional Benzoxazine: Precursor for Low Temperature Formation of Very High Performance Polybenzoxazole with Low Dielectric Constant and High Thermal Stability. <i>Macromolecules</i> , 2017, 50, 6552-6560.	2.2	172
25	Development and characterization of high-performance polybenzoxazine composites. <i>Polymer Composites</i> , 1996, 17, 710-719.	2.3	171
26	Mechanistic study on the thermal decomposition of polybenzoxazines: Effects of aliphatic amines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 1935-1946.	2.4	167
27	Thermal decomposition processes in aromatic amine-based polybenzoxazines investigated by TGA and GC-MS. <i>Polymer</i> , 2002, 43, 4391-4402.	1.8	163
28	Concentration-Dependent Conformation of Alkyl Tail in the Nanoconfined Space: ω -Hexadecylamine in the Silicate Galleries. <i>Langmuir</i> , 2003, 19, 2479-2484.	1.6	162
29	Improved thermal and mechanical properties of polybenzoxazines based on alkyl-substituted aromatic amines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 3289-3301.	2.4	161
30	Fourier transform infrared spectroscopic study of the silane coupling agent/porous silica interface. <i>Journal of Colloid and Interface Science</i> , 1978, 64, 555-564.	5.0	158
31	Synthesis and Properties of New Thermoplastic Polymers from Substituted 3,4-Dihydro-2H-1,3-benzoxazines. <i>Macromolecules</i> , 2000, 33, 2839-2847.	2.2	156
32	Synthesis and characterization of polyfunctional naphthoxazines and related polymers. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1595-1605.	1.3	155
33	Synthesis, characterization, and properties of new thermally curable polyetheresters containing benzoxazine moieties in the main chain. <i>Journal of Polymer Science Part A</i> , 2008, 46, 414-420.	2.5	153
34	Use of renewable resource vanillin for the preparation of benzoxazine resin and reactive monomeric surfactant containing oxazine ring. <i>Polymer</i> , 2014, 55, 1443-1451.	1.8	153
35	Fourier transform infrared spectroscopic study of the structure of silane coupling agent on E-glass fiber. <i>Journal of Colloid and Interface Science</i> , 1978, 64, 565-576.	5.0	152
36	Synthesis and Characterization of Highly Fluorinated Polymer with the Benzoxazine Moiety in the Main Chain. <i>Macromolecules</i> , 2008, 41, 9704-9714.	2.2	152

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37	Carbon Aerogels with Excellent CO ₂ Adsorption Capacity Synthesized from Clay-Reinforced Biobased Chitosan-Polybenzoxazine Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1286-1295.	3.2	152
38	Regioselectivity and Network Structure of Difunctional Alkyl-Substituted Aromatic Amine-Based Polybenzoxazines. <i>Macromolecules</i> , 2000, 33, 8149-8157.	2.2	151
39	Thermal properties of phthalonitrile functional polybenzoxazines. <i>Thermochimica Acta</i> , 2000, 357-358, 195-203.	1.2	148
40	Physical and mechanical properties of flexible polybenzoxazine resins: Effect of aliphatic diamine chain length. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2798-2809.	1.3	146
41	Poly(aryl-ether-ether-ketone) and its advanced composites: A review. <i>Polymer Composites</i> , 1987, 8, 57-73.	2.3	141
42	Biobased chitosan hybrid aerogels with superior adsorption: Role of graphene oxide in CO ₂ capture. <i>RSC Advances</i> , 2013, 3, 16011.	1.7	141
43	Synthesis of linear polymers containing benzoxazine moieties in the main chain with high molecular design versatility via click reaction. <i>Polymer</i> , 2009, 50, 382-390.	1.8	139
44	1,3,5-Triphenylhexahydro-1,3,5-triazine - active intermediate and precursor in the novel synthesis of benzoxazine monomers and oligomers. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 1745-1752.	1.1	133
45	Surface induced crystallization in ultrahigh-modulus polyethylene fiber-reinforced polyethylene composites. <i>Macromolecules</i> , 1991, 24, 3569-3577.	2.2	130
46	Dynamic mechanical and thermal characterization of high-performance polybenzoxazines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 3257-3268.	2.4	126
47	A new synthetic approach for difficult benzoxazines: Preparation and polymerization of 4,4'-diaminodiphenyl sulfone-based benzoxazine monomer. <i>Polymer</i> , 2009, 50, 5940-5944.	1.8	125
48	Asymmetric Mono-oxazine: An Inevitable Product from Mannich Reaction of Benzoxazine Dimers. <i>Journal of the American Chemical Society</i> , 2001, 123, 9947-9955.	6.6	123
49	Bis(benzoxazine-maleimide)s as a novel class of high performance resin: Synthesis and properties. <i>European Polymer Journal</i> , 2010, 46, 354-363.	2.6	121
50	Primary Amine-Functional Benzoxazine Monomers and Their Use for Amide-Containing Monomeric Benzoxazines. <i>Macromolecules</i> , 2010, 43, 2748-2758.	2.2	119
51	Benzoxazole Resin: A Novel Class of Thermoset Polymer via Smart Benzoxazine Resin. <i>Macromolecules</i> , 2012, 45, 8991-8997.	2.2	118
52	Molecular origin of unusual physical and mechanical properties in novel phenolic materials based on benzoxazine chemistry. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1299-1306.	1.3	117
53	Benzoxazine Oligomers: Evidence for a Helical Structure from Solid-State NMR Spectroscopy and DFT-Based Dynamics and Chemical Shift Calculations. <i>Journal of the American Chemical Society</i> , 2003, 125, 5792-5800.	6.6	116
54	Smart, Sustainable, and Ecofriendly Chemical Design of Fully Biobased Thermally Stable Thermosets Based on Benzoxazine Chemistry. <i>ChemSusChem</i> , 2016, 9, 1921-1928.	3.6	116

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55	A fourier-transform infrared spectroscopic study of the hydrolytic stability of silane coupling agents on E-glass fibers. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1980, 18, 1931-1943.	1.0	111
56	Optical theory applied to infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 1994, 8, 1-36.	1.2	110
57	Development of Fully Biobased High-Performance Bis-Benzoxazine under Environmentally Friendly Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5485-5494.	3.2	109
58	Effect of Polymerizing Diacetylene Groups on the Lowering of Polymerization Temperature of Benzoxazine Groups in the Highly Thermally Stable, Main-Chain-Type Polybenzoxazines. <i>Macromolecules</i> , 2009, 42, 5121-5127.	2.2	108
59	Molecular analysis of the melting behaviour of poly(aryl-ether-ether-ketone). <i>Polymer</i> , 1986, 27, 1400-1405.	1.8	107
60	Making Benzoxazines Greener: Design, Synthesis, and Polymerization of a Biobased Benzoxazine Fulfilling Two Principles of Green Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13096-13106.	3.2	107
61	Synthesis of benzoxazine functional silane and adhesion properties of glass-fiber-reinforced polybenzoxazine composites. <i>Journal of Applied Polymer Science</i> , 1998, 69, 2559-2567.	1.3	105
62	Thermal decomposition processes in polybenzoxazine model dimers investigated by TGA and FTIR and GC-MS. <i>Polymer Degradation and Stability</i> , 2002, 76, 1-15.	2.7	105
63	The structure of aminofunctional silane coupling agents: 1. β -Aminopropyltriethoxysilane and its analogues. <i>Polymer</i> , 1982, 23, 251-257.	1.8	103
64	Polymerization of linear aliphatic diamine-based benzoxazine resins under inert and oxidative environments. <i>Polymer</i> , 2007, 48, 6763-6772.	1.8	102
65	Main-chain benzoxazine oligomers: A new approach for resin transfer moldable neat benzoxazines for high performance applications. <i>Polymer</i> , 2010, 51, 5688-5694.	1.8	102
66	Low-Viscosity Polyether-Based Main-Chain Benzoxazine Polymers: Precursors for Flexible Thermosetting Polymers. <i>Macromolecules</i> , 2010, 43, 7122-7127.	2.2	102
67	Study on the chemical stability of benzoxazine-based phenolic resins in carboxylic acids. <i>Journal of Applied Polymer Science</i> , 2001, 79, 1207-1219.	1.3	99
68	Development of low-viscosity benzoxazine resins and their polymers. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2953-2966.	1.3	99
69	Mechanistic Pathways for the Polymerization of Methylol-Functional Benzoxazine Monomers. <i>Macromolecules</i> , 2012, 45, 8119-8125.	2.2	97
70	Study of hydrogen bonding and thermal properties of polybenzoxazine and poly(ϵ -caprolactone) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 736-749.	2.4	96
71	A review on the very high nanofiller-content nanocomposites: Their preparation methods and properties with high aspect ratio fillers. <i>Progress in Polymer Science</i> , 2018, 86, 1-39.	11.8	95
72	An investigation of the coupling agent/matrix interface of fiberglass reinforced plastics by fourier transform infrared spectroscopy. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1979, 17, 615-626.	1.0	94

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73	Synthesis and Characterization of Cyanate Ester Functional Benzoxazine and Its Polymer. <i>Macromolecules</i> , 2015, 48, 8412-8417.	2.2	93
74	Poly(benzoxazine-co-urethane)s: A new concept for phenolic/urethane copolymers via one-pot method. <i>Polymer</i> , 2011, 52, 307-317.	1.8	92
75	Biobased Chitosan/Polybenzoxazine Cross-Linked Films: Preparation in Aqueous Media and Synergistic Improvements in Thermal and Mechanical Properties. <i>Biomacromolecules</i> , 2013, 14, 1806-1815.	2.6	92
76	Intrinsic self-initiating thermal ring-opening polymerization of 1,3-benzoxazines without the influence of impurities using very high purity crystals. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3434-3445.	2.5	91
77	Effect of phenol substitution on the network structure and properties of linear aliphatic diamine-based benzoxazines. <i>Polymer</i> , 2009, 50, 613-626.	1.8	87
78	Substrate effects on the chemisorbed and physisorbed layers of methacryl silane-modified particulate minerals. <i>Macromolecules</i> , 1984, 17, 1659-1666.	2.2	85
79	Quantitative monomolecular coverage of inorganic particulates by methacryl-functional silanes. <i>Surface Science</i> , 1984, 148, 601-622.	0.8	84
80	Resveratrol-based tri-functional benzoxazines: Synthesis, characterization, polymerization, and thermal and flame retardant properties. <i>European Polymer Journal</i> , 2019, 116, 526-533.	2.6	84
81	Dynamic mechanical analysis on highly thermally stable polybenzoxazines with an acetylene functional group. <i>Journal of Applied Polymer Science</i> , 1999, 73, 857-862.	1.3	82
82	Model Compounds Study on the Network Structure of Polybenzoxazines. <i>Macromolecules</i> , 2003, 36, 8320-8329.	2.2	82
83	Novel benzoxazine monomer containing diacetylene linkage: An approach to benzoxazine thermosets with low polymerization temperature without added initiators or catalysts. <i>Polymer</i> , 2009, 50, 3153-3157.	1.8	82
84	High-performance maleimide and nitrile-functionalized benzoxazines with good processibility for advanced composites applications. <i>Journal of Applied Polymer Science</i> , 2006, 101, 548-558.	1.3	80
85	Synthesis of high thermal stability polybenzoxazoles via <i>ortho</i> -maleimide-functional benzoxazine monomers. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1330-1338.	2.5	79
86	Intramolecular Hydrogen Bonding in Benzoxazines: When Structural Design Becomes Functional. <i>Chemistry - A European Journal</i> , 2016, 22, 2691-2707.	1.7	77
87	A Study of Morphology and Intercalation Kinetics of Polystyrene-Organoclay Nanocomposites. <i>Macromolecules</i> , 2005, 38, 6513-6519.	2.2	76
88	Effect of hydrolysis and drying on the siloxane bonds of a silane coupling agent deposited on E-glass fibers. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1980, 18, 233-237.	1.0	73
89	Synergism and multiple mechanical relaxations observed in ternary systems based on benzoxazine, epoxy, and phenolic resins. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 1687-1698.	2.4	73
90	Anomalous Isomeric Effect on the Properties of Bisphenol F-based Benzoxazines: Toward the Molecular Design for Higher Performance. <i>Macromolecules</i> , 2014, 47, 5682-5690.	2.2	72

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91	Quantitative Surface FT-IR Spectroscopic Analysis of Polymers. Rubber Chemistry and Technology, 1987, 60, 497-554.	0.6	71
92	Improved thermal stability of polybenzoxazines by transition metals. Polymer Degradation and Stability, 2006, 91, 805-815.	2.7	71
93	The structure of an aminosilane coupling agent in aqueous solutions and partially cured solids. Journal of Polymer Science, Polymer Physics Edition, 1982, 20, 701-718.	1.0	70
94	Gelation behavior of near-zero shrinkage polybenzoxazines. Journal of Applied Polymer Science, 2001, 79, 406-417.	1.3	70
95	A study on hydrogen bonding in controlled-structure benzoxazine model oligomers. Macromolecular Symposia, 2003, 195, 123-140.	0.4	69
96	Review on the Accelerated and Low-Temperature Polymerization of Benzoxazine Resins: Addition Polymerizable Sustainable Polymers. Polymers, 2021, 13, 1260.	2.0	69
97	Thermally stable polybenzoxazines via ortho-norbornene functional benzoxazine monomers: Unique advantages in monomer synthesis, processing and polymer properties. Polymer, 2015, 66, 240-248.	1.8	67
98	Studies of the simulation of silane coupling agent structures on particulate fillers; the pH effect. Polymer Composites, 1984, 5, 18-28.	2.3	66
99	A study on the orientation of imidazoles on copper as corrosion inhibitor and possible adhesion promoter for electric devices. Journal of Chemical Physics, 1983, 78, 6960-6969.	1.2	65
100	An investigation of the thermal and thermo-oxidative degradation of polybenzoxazines with a reactive functional group. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 647-659.	2.4	64
101	Toughening composites by fiber coating: a review. Composite Interfaces, 1994, 2, 199-234.	1.3	63
102	Synthesis, characterization and thermal degradation of functional benzoxazine monomers and polymers containing phenylphosphine oxide. Polymer Degradation and Stability, 2006, 91, 1166-1178.	2.7	63
103	Synthesis and properties of new crosslinkable telechelics with benzoxazine moiety at the chain end. Polymer, 2009, 50, 2688-2695.	1.8	62
104	An Ultrahigh Performance Cross-Linked Polybenzoxazole via Thermal Conversion from Poly(benzoxazine amic acid) Based on Smart α -Benzoxazine Chemistry. Macromolecules, 2014, 47, 8674-8681.	2.2	62
105	Towards the Development of Green Flame Retardancy by Polybenzoxazines. Progress in Polymer Science, 2021, 121, 101435.	11.8	62
106	Characterization of silane-treated glass fibers by diffuse reflectance Fourier transform spectrometry. Analytical Chemistry, 1984, 56, 773-778.	3.2	61
107	Benzoxazine Atropisomers: Intrinsic Atropisomerization Mechanism and Conversion to High Performance Thermosets. Macromolecules, 2018, 51, 7574-7585.	2.2	61
108	A truly bio-based benzoxazine derived from three natural reactants obtained under environmentally friendly conditions and its polymer properties. Green Chemistry, 2021, 23, 4051-4064.	4.6	61

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109	Investigation of the boron nitride/polybenzoxazine interphase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 2360-2372.	2.4	60
110	An anomalous trade-off effect on the properties of smart ortho-functional benzoxazines. <i>Polymer Chemistry</i> , 2015, 6, 2541-2550.	1.9	60
111	Molecular analysis of the crystallization behavior of poly(aryl-ether-ether-ketone). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 1079-1091.	2.4	59
112	Structure of cyclohexylsilanetriol: The first x-ray crystal structure of a silanetriol. <i>Journal of Chemical Physics</i> , 1982, 77, 5748-5751.	1.2	58
113	Synthesis of Sulfonic Acid-Containing Polybenzoxazine for Proton Exchange Membrane in Direct Methanol Fuel Cells. <i>Macromolecules</i> , 2014, 47, 1039-1045.	2.2	58
114	Polymerization of an AB-Type Benzoxazine Monomer toward Different Polybenzoxazine Networks: When Diels-Alder Reaction Meets Benzoxazine Chemistry in a Single-Component Resin. <i>Macromolecules</i> , 2019, 52, 7386-7395.	2.2	58
115	Adsorption behavior of a silane coupling agent on colloidal silica studied by gel permeation chromatography. <i>Journal of Colloid and Interface Science</i> , 1991, 143, 146-156.	5.0	57
116	A Differential Scanning Calorimetry Study of the Assembly of Hexadecylamine Molecules in the Nanoscale Confined Space of Silicate Galleries. <i>Chemistry of Materials</i> , 2002, 14, 1398-1404.	3.2	57
117	Methacryloyl-Functional Benzoxazine: Photopolymerization and Thermally Activated Polymerization. <i>Macromolecules</i> , 2011, 44, 767-772.	2.2	57
118	Enhanced Thermal Property and Flame Retardancy via Intramolecular 5-Membered Ring Hydrogen Bond-Forming Amide Functional Benzoxazine Resins. <i>Macromolecules</i> , 2018, 51, 9982-9991.	2.2	57
119	Mechanical property improvement of carbon fiber reinforced polybenzoxazine by rubber interlayer. <i>Polymer Composites</i> , 2003, 24, 597-607.	2.3	56
120	Latent Catalyst-Containing Naphthoxazine: Synthesis and Effects on Ring-Opening Polymerization. <i>Macromolecules</i> , 2016, 49, 7129-7140.	2.2	56
121	Unique self-catalyzed cationic ring-opening polymerization of a high performance deoxybenzoin-based 1,3-benzoxazine monomer. <i>Polymer</i> , 2019, 168, 8-15.	1.8	56
122	Synthesis and Characterization of Structurally Uniform Model Oligomers of Polybenzoxazine. <i>Macromolecules</i> , 1998, 31, 2409-2418.	2.2	55
123	Solution intercalation of polystyrene and the comparison with poly(ethyl methacrylate). <i>Polymer</i> , 2003, 44, 6571-6577.	1.8	54
124	Structure Property Relationships and the Role of Processing in the Reinforcement of Nylon 6-POSS Blends. <i>Macromolecules</i> , 2012, 45, 4650-4657.	2.2	54
125	Partially miscible blends of epoxy resin and epoxidized rubber: Structural characterization of the epoxidized rubber and mechanical properties of the blends. <i>Journal of Applied Polymer Science</i> , 1994, 53, 441-454.	1.3	53
126	A review on the structure and characterization techniques of silane/matrix interphases. <i>Macromolecular Symposia</i> , 1996, 108, 19-53.	0.4	52

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127	Resin transfer molding of natural fiber reinforced polybenzoxazine composites. <i>Polymer Composites</i> , 2002, 23, 352-360.	2.3	52
128	Poly(benzoxazine-f-chitosan) films: The role of aldehyde neighboring groups on chemical interaction of benzoxazine precursors with chitosan. <i>Carbohydrate Polymers</i> , 2019, 209, 122-129.	5.1	52
129	Fourier transform ir reflection techniques for characterization of polyimide films on copper substrates. <i>Thin Solid Films</i> , 1987, 154, 271-279.	0.8	51
130	Silicon-29 solid-state nuclear magnetic resonance spectroscopy of composite interfaces. <i>Polymer Composites</i> , 1990, 11, 121-125.	2.3	51
131	Investigation of an $Ni_{1/2}i_{1/2}H$ hydrogen bond in a solid benzoxazine dimer by $1H-15N$ NMR correlation techniques under fast magic-angle spinning. <i>Magnetic Resonance in Chemistry</i> , 2001, 39, S5-S17.	1.1	51
132	Thermal analysis and mechanical characterization of maleimide-functionalized benzoxazine/epoxy copolymers. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1670-1677.	1.3	51
133	Study of the Effects of Intramolecular and Intermolecular Hydrogen Bonding Systems on the Polymerization of Amide-Containing Benzoxazines. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600562.	1.1	51
134	Spectroscopic Studies of Poly[N,N'-bis(phenoxyphenyl)pyromellitimide]. 2. Structural Changes of Polyimide upon Yielding. <i>Macromolecules</i> , 1980, 13, 834-839.	2.2	50
135	Low temperature polymerization of novel, monotropic liquid crystalline benzoxazines. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5871-5881.	2.5	50
136	Crosslinked polyamide based on main-chain type polybenzoxazines derived from a primary amine-functionalized benzoxazine monomer. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4335-4342.	2.5	50
137	Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection. <i>Applied Spectroscopy</i> , 1994, 48, 775-787.	1.2	48
138	Infrared and thermal analyses of polybenzoxazine and polycarbonate blends. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1021-1034.	1.3	48
139	Quantitative intermolecular reaction of hydrolyzed trialkoxysilanes at submonolayer, monolayer, and multilayer surface coverages. <i>Langmuir</i> , 1986, 2, 127-131.	1.6	47
140	Non-flammable thiazole-functional monobenzoxazines: Synthesis, polymerization, thermal and thermomechanical properties, and flammability studies. <i>Polymer</i> , 2018, 157, 38-49.	1.8	47
141	Molecular organization of the coupling agent interphase of fiber-glass reinforced plastics. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1979, 17, 1807-1813.	1.0	45
142	Composition of the continuous phase in partially miscible blends of epoxy resin and epoxidized rubber by dynamic mechanical analysis. <i>Polymer</i> , 1994, 35, 956-966.	1.8	43
143	Behavior of a bisphenol-A-based polybenzoxazine exposed to ultraviolet radiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2687-2701.	2.4	42
144	Effect of fiber surface modification on the mechanical properties of sisal fiber-reinforced benzoxazine/epoxy composites based on aliphatic diamine benzoxazine. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2925-2935.	1.3	42

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145	Dynamic mechanical properties of epoxy resin/epoxidized rubber blends: Effect of phase separated rubber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 647-657.	2.4	41
146	Study of the characterization and curing of a phenyl benzoxazine using ¹⁵ N solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1401-1411.	1.3	41
147	Intrinsically noncombustible polymers without flame retardant additives: Sulfur-containing and bio-based benzoxazines. <i>European Polymer Journal</i> , 2020, 133, 109770.	2.6	41
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