Hatsuo Ishida

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#	Paper	IF	Citations
306	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	811
305	Physical and mechanical characterization of near-zero shrinkage polybenzoxazines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996 , 34, 1019-1030	2.6	659
304	A Study on the Volumetric Expansion of Benzoxazine-Based Phenolic Resin. <i>Macromolecules</i> , 1997 , 30, 1099-1106	5.5	422
303	The structure of Eminopropyltriethoxysilane on glass surfaces. <i>Journal of Colloid and Interface Science</i> , 1980 , 74, 396-404	9.3	382
302	Mechanical characterization of copolymers based on benzoxazine and epoxy. <i>Polymer</i> , 1996 , 37, 4487-4	49,5	380
301	Very high thermal conductivity obtained by boron nitride-filled polybenzoxazine. <i>Thermochimica Acta</i> , 1998 , 320, 177-186	2.9	368
300	General Approach to Nanocomposite Preparation. <i>Chemistry of Materials</i> , 2000 , 12, 1260-1267	9.6	317
299	Spectroscopic Studies of Poly[N,NSbis(phenoxyphenyl)pyromellitimide]. 1. Structures of the Polyimide and Three Model Compounds. <i>Macromolecules</i> , 1980 , 13, 826-834	5.5	308
298	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	2.6	260
297	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	3	230
296	Structural effects of phenols on the thermal and thermo-oxidative degradation of polybenzoxazines. <i>Polymer</i> , 1999 , 40, 4365-4376	3.9	213
295	Molecular characterization of the polymerization of acetylene-functional benzoxazine resins. <i>Polymer</i> , 1999 , 40, 1815-1822	3.9	201
294	Synthesis and properties of a new crosslinkable polymer containing benzoxazine moiety in the main chain. <i>Polymer</i> , 2006 , 47, 7664-7669	3.9	189
293	Thermal study on the copolymers of phthalonitrile and phenylnitrile-functional benzoxazines. Journal of Applied Polymer Science, 1999 , 73, 2937-2949	2.9	186
292	Synthesis and characterization of maleimide and norbornene functionalized benzoxazines. <i>Polymer</i> , 2005 , 46, 5588-5595	3.9	183
291	Comparison among Several Numerical Integration Methods for Kramers-Kronig Transformation. <i>Applied Spectroscopy</i> , 1988 , 42, 952-957	3.1	182
29 0	An Investigation of Hydrogen Bonding in Benzoxazine Dimers by Fast Magic-Angle Spinning and Double-Quantum 1H NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11784-11	7 ¹⁶ 54	179

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289	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	179	
288	A Study on Hydrogen-Bonded Network Structure of Polybenzoxazinesâ <i>Journal of Physical Chemistry A</i> , 2002 , 106, 3271-3280	2.8	178	
287	Development and characterization of high-performance polybenzoxazine composites. <i>Polymer Composites</i> , 1996 , 17, 710-719	3	157	
286	Mechanistic study on the thermal decomposition of polybenzoxazines: Effects of aliphatic amines. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 1935-1946	2.6	154	
285	Cationic Ring-Opening Polymerization of 1,3-Benzoxazines: Mechanistic Study Using Model Compounds. <i>Macromolecules</i> , 2010 , 43, 4562-4572	5.5	152	
284	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	2.6	152	
283	Concentration-Dependent Conformation of Alkyl Tail in the Nanoconfined Space: Hexadecylamine in the Silicate Galleries. <i>Langmuir</i> , 2003 , 19, 2479-2484	4	150	
282	Oxazine Ring-Related Vibrational Modes of Benzoxazine Monomers Using Fully Aromatically Substituted, Deuterated, N Isotope Exchanged, and Oxazine-Ring-Substituted Compounds and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6269-6282	2.8	143	
281	Synthesis and Properties of New Thermoplastic Polymers from Substituted 3,4-Dihydro-2H-1,3-benzoxazines. <i>Macromolecules</i> , 2000 , 33, 2839-2847	5.5	143	
280	Synthesis and characterization of polyfunctional naphthoxazines and related polymers. <i>Journal of Applied Polymer Science</i> , 1996 , 61, 1595-1605	2.9	142	
279	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	140	
278	Synthesis and Characterization of Highly Fluorinated Polymer with the Benzoxazine Moiety in the Main Chain. <i>Macromolecules</i> , 2008 , 41, 9704-9714	5.5	139	
277	Thermal properties of phthalonitrile functional polybenzoxazines. <i>Thermochimica Acta</i> , 2000 , 357-358, 195-203	2.9	139	
276	Thermal decomposition processes in aromatic amine-based polybenzoxazines investigated by TGA and GCâMS. <i>Polymer</i> , 2002 , 43, 4391-4402	3.9	138	
275	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	2.9	137	
274	Regioselectivity and Network Structure of Difunctional Alkyl-Substituted Aromatic Amine-Based Polybenzoxazines. <i>Macromolecules</i> , 2000 , 33, 8149-8157	5.5	137	
273	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	9.3	134	
272	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	3.9	133	

271	Overview and Historical Background of Polybenzoxazine Research 2011, 3-81		127
270	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	9.3	127
269	1,3,5-Triphenylhexahydro-1,3,5-triazine âlactive intermediate and precursor in the novel synthesis of benzoxazine monomers and oligomers. <i>Macromolecular Chemistry and Physics</i> , 1999 , 200, 1745-1752	2.6	125
268	Poly(aryl-ether-ether-ketone) and its advanced composites: A review. <i>Polymer Composites</i> , 1987 , 8, 57-7	'33	123
267	Dynamic mechanical and thermal characterization of high-performance polybenzoxazines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 3257-3268	2.6	122
266	Carbon Aerogels with Excellent CO2 Adsorption Capacity Synthesized from Clay-Reinforced Biobased Chitosan-Polybenzoxazine Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1286-1295	8.3	118
265	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	3.9	118
264	A Smart Latent Catalyst Containing o-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	5.5	116
263	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	3.9	116
262	Biobased chitosan hybrid aerogels with superior adsorption: Role of graphene oxide in CO2 capture. <i>RSC Advances</i> , 2013 , 3, 16011	3.7	111
261	Asymmetric mono-oxazine: an inevitable product from Mannich reaction of benzoxazine dimers. Journal of the American Chemical Society, 2001 , 123, 9947-55	16.4	111
260	Surface induced crystallization in ultrahigh-modulus polyethylene fiber-reinforced polyethylene composites. <i>Macromolecules</i> , 1991 , 24, 3569-3577	5.5	111
259	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	2.9	110
258	Primary Amine-Functional Benzoxazine Monomers and Their Use for Amide-Containing Monomeric Benzoxazines. <i>Macromolecules</i> , 2010 , 43, 2748-2758	5.5	107
257	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, 5792-800	16.4	106
256	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	5.5	102
255	Bis(benzoxazine-maleimide)s as a novel class of high performance resin: Synthesis and properties. <i>European Polymer Journal</i> , 2010 , 46, 354-363	5.2	101
254	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	2.9	100

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253	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		100
252	Thermal decomposition processes in polybenzoxazine model dimers investigated by TGAâETIR and GCâMS. <i>Polymer Degradation and Stability</i> , 2002 , 76, 1-15	4.7	97
251	Optical theory applied to infrared spectroscopy. Vibrational Spectroscopy, 1994 , 8, 1-36	2.1	96
250	Study on the chemical stability of benzoxazine-based phenolic resins in carboxylic acids. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 1207-1219	2.9	94
249	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	29.6	93
248	Polymerization of linear aliphatic diamine-based benzoxazine resins under inert and oxidative environments. <i>Polymer</i> , 2007 , 48, 6763-6772	3.9	91
247	The structure of aminofunctional silane coupling agents: 1. EAminopropyltriethoxysilane and its analogues. <i>Polymer</i> , 1982 , 23, 251-257	3.9	91
246	Low-Viscosity Polyether-Based Main-Chain Benzoxazine Polymers: Precursors for Flexible Thermosetting Polymers. <i>Macromolecules</i> , 2010 , 43, 7122-7127	5.5	90
245	Study of hydrogen bonding and thermal properties of polybenzoxazine and poly-(Etaprolactone) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 736-749	2.6	90
244	Molecular analysis of the melting behaviour of poly(aryl-ether-ether-ketone). <i>Polymer</i> , 1986 , 27, 1400-	14905	90
243	Main-chain benzoxazine oligomers: A new approach for resin transfer moldable neat benzoxazines for high performance applications. <i>Polymer</i> , 2010 , 51, 5688-5694	3.9	89
242	Development of low-viscosity benzoxazine resins and their polymers. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 2953-2966	2.9	87
241	Benzoxazole Resin: A Novel Class of Thermoset Polymer via Smart Benzoxazine Resin. <i>Macromolecules</i> , 2012 , 45, 8991-8997	5.5	86
240	Synthesis and Characterization of Cyanate Ester Functional Benzoxazine and Its Polymer. <i>Macromolecules</i> , 2015 , 48, 8412-8417	5.5	84
239	Mechanistic Pathways for the Polymerization of Methylol-Functional Benzoxazine Monomers. <i>Macromolecules</i> , 2012 , 45, 8119-8125	5.5	82
238	Quantitative monomolecular coverage of inorganic particulates by methacryl-functional silanes. <i>Surface Science</i> , 1984 , 148, 601-622	1.8	82
237	Smart, Sustainable, and Ecofriendly Chemical Design of Fully Bio-Based Thermally Stable Thermosets Based on Benzoxazine Chemistry. <i>ChemSusChem</i> , 2016 , 9, 1921-8	8.3	82
236	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	3.9	80

235	Poly(benzoxazine-co-urethane)s: A new concept for phenolic/urethane copolymers via one-pot method. <i>Polymer</i> , 2011 , 52, 307-317	3.9	80
234	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		80
233	Effect of phenol substitution on the network structure and properties of linear aliphatic diamine-based benzoxazines. <i>Polymer</i> , 2009 , 50, 613-626	3.9	79
232	Model Compounds Study on the Network Structure of Polybenzoxazines. <i>Macromolecules</i> , 2003 , 36, 83	2 9. 8 32	.9 ₇₉
231	Development of Fully Biobased High-Performance Bis-Benzoxazine under Environmentally Friendly Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5485-5494	8.3	78
230	Biobased chitosan/polybenzoxazine cross-linked films: preparation in aqueous media and synergistic improvements in thermal and mechanical properties. <i>Biomacromolecules</i> , 2013 , 14, 1806-15	6.9	77
229	Substrate effects on the chemisorbed and physisorbed layers of methacryl silane-modified particulate minerals. <i>Macromolecules</i> , 1984 , 17, 1659-1666	5.5	76
228	Dynamic mechanical analysis on highly thermally stable polybenzoxazines with an acetylene functional group. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 857-862	2.9	74
227	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	2.9	72
226	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	- ⁸ 3³10€	; ⁷⁰
225	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	2.6	68
224	A Study of Morphology and Intercalation Kinetics of Polystyreneâ©rganoclay Nanocomposites. <i>Macromolecules</i> , 2005 , 38, 6513-6519	5.5	67
223	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	5.5	65
222	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	64
221	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		64
220	Improved thermal stability of polybenzoxazines by transition metals. <i>Polymer Degradation and Stability</i> , 2006 , 91, 805-815	4.7	63
219	Gelation behavior of near-zero shrinkage polybenzoxazines. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 406-417	2.9	63
218	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	29.6	62

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217	Synthesis, characterization and thermal degradation of functional benzoxazine monomers and polymers containing phenylphosphine oxide. <i>Polymer Degradation and Stability</i> , 2006 , 91, 1166-1178	4.7	61	
216	An investigation of the thermal and thermo-oxidative degradation of polybenzoxazines with a reactive functional group. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 647-659	2.6	61	
215	Intramolecular Hydrogen Bonding in Benzoxazines: When Structural Design Becomes Functional. <i>Chemistry - A European Journal</i> , 2016 , 22, 2691-707	4.8	60	
214	Quantitative Surface FTâIR Spectroscopic Analysis of Polymers. <i>Rubber Chemistry and Technology</i> , 1987 , 60, 497-554	1.7	60	
213	Synthesis of high thermal stability polybenzoxazoles via ortho-imide-functional benzoxazine monomers. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1330-1338	2.5	58	
212	An Ultrahigh Performance Cross-Linked Polybenzoxazole via Thermal Conversion from Poly(benzoxazine amic acid) Based on Smart o-Benzoxazine Chemistry. <i>Macromolecules</i> , 2014 , 47, 8674	-8681	58	
211	A study on hydrogen bonding in controlled-structure benzoxazine model oligomers. <i>Macromolecular Symposia</i> , 2003 , 195, 123-140	0.8	58	
210	Synthesis and properties of new crosslinkable telechelics with benzoxazine moiety at the chain end. <i>Polymer</i> , 2009 , 50, 2688-2695	3.9	57	
209	Investigation of the boron nitride/polybenzoxazine interphase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 2360-2372	2.6	57	
208	Thermally stable polybenzoxazines via ortho-norbornene functional benzoxazine monomers: Unique advantages in monomer synthesis, processing and polymer properties. <i>Polymer</i> , 2015 , 66, 240-2	4 8 9	56	
207	Studies of the simulation of silane coupling agent structures on particulate fillers; the pH effect. <i>Polymer Composites</i> , 1984 , 5, 18-28	3	56	
206	Resveratrol-based tri-functional benzoxazines: Synthesis, characterization, polymerization, and thermal and flame retardant properties. <i>European Polymer Journal</i> , 2019 , 116, 526-533	5.2	55	
205	A study on the orientation of imidazoles on copper as corrosion inhibitor and possible adhesion promoter for electric devices. <i>Journal of Chemical Physics</i> , 1983 , 78, 6960-6969	3.9	55	
204	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	9.6	54	
203	Toughening composites by fiber coating: a review. <i>Composite Interfaces</i> , 1994 , 2, 199-234	2.3	54	
202	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		53	
201	An anomalous trade-off effect on the properties of smart ortho-functional benzoxazines. <i>Polymer Chemistry</i> , 2015 , 6, 2541-2550	4.9	52	
200	Structure Property Relationships and the Role of Processing in the Reinforcement of Nylon 6-POSS Blends. <i>Macromolecules</i> , 2012 , 45, 4650-4657	5.5	52	

199	Synthesis and Characterization of Structurally Uniform Model Oligomers of Polybenzoxazine. <i>Macromolecules</i> , 1998 , 31, 2409-2418	5.5	52
198	Resin transfer molding of natural fiber reinforced polybenzoxazine composities. <i>Polymer Composites</i> , 2002 , 23, 352-360	3	51
197	Solution intercalation of polystyrene and the comparison with poly(ethyl methacrylate). <i>Polymer</i> , 2003 , 44, 6571-6577	3.9	51
196	Mechanical property improvement of carbon fiber reinforced polybenzoxazine by rubber interlayer. <i>Polymer Composites</i> , 2003 , 24, 597-607	3	51
195	Methacryloyl-Functional Benzoxazine: Photopolymerization and Thermally Activated Polymerization. <i>Macromolecules</i> , 2011 , 44, 767-772	5.5	50
194	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	2.9	50
193	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	9.3	49
192	Structure of cyclohexylsilanetriol: The first x-ray crystal structure of a silanetriol. <i>Journal of Chemical Physics</i> , 1982 , 77, 5748-5751	3.9	49
191	Silicon-29 solid-state nuclear magnetic resonance spectroscopy of composite interfaces. <i>Polymer Composites</i> , 1990 , 11, 121-125	3	48
190	Latent Catalyst-Containing Naphthoxazine: Synthesis and Effects on Ring-Opening Polymerization. <i>Macromolecules</i> , 2016 , 49, 7129-7140	5.5	48
189	Synthesis of Sulfonic Acid-Containing Polybenzoxazine for Proton Exchange Membrane in Direct Methanol Fuel Cells. <i>Macromolecules</i> , 2014 , 47, 1039-1045	5.5	47
188	Investigation of an NIIIH hydrogen bond in a solid benzoxazine dimer by 1HâII5N NMR correlation techniques under fast magic-angle spinning. <i>Magnetic Resonance in Chemistry</i> , 2001 , 39, S5-S17	2.1	46
187	Characterization of silane-treated glass fibers by diffuse reflectance Fourier transform spectrometry. <i>Analytical Chemistry</i> , 1984 , 56, 773-778	7.8	46
186	Benzoxazine Atropisomers: Intrinsic Atropisomerization Mechanism and Conversion to High Performance Thermosets. <i>Macromolecules</i> , 2018 , 51, 7574-7585	5.5	46
185	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	45
184	Thermal analysis and mechanical characterization of maleimide-functionalized benzoxazine/epoxy copolymers. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 1670-1677	2.9	45
183	Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection. <i>Applied Spectroscopy</i> , 1994 , 48, 775-787	3.1	45
182	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	2.6	45

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181	Low temperature polymerization of novel, monotropic liquid crystalline benzoxazines. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5871-5881	2.5	44	
180	Infrared and thermal analyses of polybenzoxazine and polycarbonate blends. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1021-1034	2.9	44	
179	A review on the structure and characterization techniques of silane/matrix interphases. <i>Macromolecular Symposia</i> , 1996 , 108, 19-53	0.8	43	
178	Unique self-catalyzed cationic ring-opening polymerization of a high performance deoxybenzoin-based 1,3-benzoxazine monomer. <i>Polymer</i> , 2019 , 168, 8-15	3.9	42	
177	Fourier transform ir reflection techniques for characterization of polyimide films on copper substrates. <i>Thin Solid Films</i> , 1987 , 154, 271-279	2.2	42	
176	Spectroscopic Studies of Poly[N,NSbis(phenoxyphenyl)pyromellitimide]. 2. Structural Changes of Polyimide upon Yielding. <i>Macromolecules</i> , 1980 , 13, 834-839	5.5	42	
175	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	2.6	41	
174	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	3.9	41	
173	Study of the characterization and curing of a phenyl benzoxazine using 15N solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 1401-1411	2.9	40	
172	Quantitative intermolecular reaction of hydrolyzed trialkoxysilanes at submonolayer, monolayer, and multilayer surface coverages. <i>Langmuir</i> , 1986 , 2, 127-131	4	39	
171	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	5.5	39	
170	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	2.9	38	
169	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	2.6	38	
168	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		37	
167	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	2.6	35	
166	Preparation and thermal properties of graphene oxide/main chain benzoxazine polymer. <i>European Polymer Journal</i> , 2013 , 49, 3825-3833	5.2	35	
165	Smart chemical design incorporating umbelliferone as natural renewable resource toward the preparation of thermally stable thermosets materials based on benzoxazine chemistry. <i>RSC Advances</i> , 2015 , 5, 97855-97861	3.7	35	
164	A study of corrosion protection on copper by new polymeric agents: silane-modified imidazoles. <i>Corrosion Science</i> , 1992 , 33, 1053-1066	6.8	35	

163	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	10.3	35
162	Tailor-made and chemically designed synthesis of coumarin-containing benzoxazines and their reactivity study toward their thermosets. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1428-1435	2.5	34
161	Effect of CaCO3 on the mechanical and rheological properties of a ring-opening phenolic resin: Polybenzoxazine. <i>Polymer Composites</i> , 1998 , 19, 126-132	3	34
160	1,3-bis(benzoxazine) from cashew nut shell oil and diaminodiphenyl methane and its composites with wood flour. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2710-2714	2.9	33
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3	Toward improving the reflectivity of ablative heat-insulating coating under high-energy laser irradiation. <i>Journal of Materials Science</i> , 2020 , 55, 15787-15796	4.3	1
2	Effect of surface treated fillers on the flow behavior and morphology of an immiscible blend. System: Polycarbonate/polypropylene. <i>Macromolecular Symposia</i> , 1996 , 104, 89-111	0.8	

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