

Hatsuo Ishida

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3636002/hatsuo-ishida-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

306
papers

18,196
citations

77
h-index

122
g-index

311
ext. papers

19,509
ext. citations

4.3
avg, IF

7.11
L-index

#	Paper	IF	Citations
306	Review on the Accelerated and Low-Temperature Polymerization of Benzoxazine Resins: Addition Polymerizable Sustainable Polymers. <i>Polymers</i> , 2021 , 13,	4.5	14
305	Synthesis of a smart bisbenzoxazine with combined advantages of bismaleimide and benzoxazine resins and its unexpected formation of very high performance cross-linked polybenzoxazole. <i>Polymer</i> , 2021 , 223, 123703	3.9	3
304	The first observation on polymerization of 1,3-benzothiazines: synthesis of mono- and bis-thiazine monomers and thermal properties of their polymers. <i>Polymer Chemistry</i> , 2021 , 12, 379-388	4.9	15
303	A truly bio-based benzoxazine derived from three natural reactants obtained under environmentally friendly conditions and its polymer properties. <i>Green Chemistry</i> , 2021 , 23, 4051-4064	10	18
302	Ultrahigh-surface-area activated biocarbon based on biomass residue as a supercapacitor electrode material: Tuning pore structure using alkalis with different atom sizes. <i>Microporous and Mesoporous Materials</i> , 2021 , 326, 111383	5.3	6
301	Towards the Development of Green Flame Retardancy by Polybenzoxazines. <i>Progress in Polymer Science</i> , 2021 , 121, 101435	29.6	10
300	Preparation and characterization of carbon fiber reinforced polybenzoxazine and polybenzoxazole composites from the same precursor: Use of a smart, ortho-substituted and amide-co-imide functional matrix. <i>Composites Science and Technology</i> , 2020 , 195, 108205	8.6	7
299	Intrinsically noncombustible polymers without flame retardant additives: Sulfur-containing and bio-based benzoxazines. <i>European Polymer Journal</i> , 2020 , 133, 109770	5.2	19
298	Electronic effects of asymmetric and meta-alkoxy substituents on the polymerization behavior of bis-benzoxazines. <i>Polymer Chemistry</i> , 2020 , 11, 800-809	4.9	16
297	Chitosan/polybenzoxazine/clay mixed matrix composite aerogels: preparation, physical properties, and water absorbency. <i>Applied Clay Science</i> , 2020 , 184, 105403	5.2	19
296	Structure and Performance of Benzoxazine Composites for Space Radiation Shielding. <i>Molecules</i> , 2020 , 25,	4.8	5
295	Nacre-Mimetic Green Flame Retardant: Ultra-High Nanofiller Content, Thin Nanocomposite as an Effective Flame Retardant. <i>Polymers</i> , 2020 , 12,	4.5	6
294	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
293	Developing Further Versatility in Benzoxazine Synthesis via Hydrolytic Ring-Opening. <i>Polymers</i> , 2020 , 12,	4.5	4
292	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	5.5	29
291	Synthesis and thermally induced structural transformation of phthalimide and nitrile-functionalized benzoxazine: toward smart -benzoxazine chemistry for low flammability thermosets.. <i>RSC Advances</i> , 2019 , 9, 1526-1535	3.7	22
290	Ablation behavior of boron-modified phenolic resin irradiated by high-energy continuous-wave laser and its evolution of carbon structure. <i>Materials and Design</i> , 2019 , 180, 107954	8.1	15

289	Zirconium carbide-modified polymer-matrix composites with improved reflectivity under high-energy laser ablation. <i>Ceramics International</i> , 2019 , 45, 17681-17687	5.1	5
288	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
287	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
286	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
285	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
284	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
283	Synthesis, polymerization kinetics and thermal properties of para-methylol functional benzoxazine. <i>Reactive and Functional Polymers</i> , 2018 , 129, 23-28	4.6	27
282	Laser ablation behavior of nano-copper particle-filled phenolic matrix nanocomposite coatings. <i>Composites Part B: Engineering</i> , 2018 , 155, 62-68	10	15
281	Quantitative studies on the p-substituent effect of the phenolic component on the polymerization of benzoxazines. <i>Polymer Chemistry</i> , 2018 , 9, 4194-4204	4.9	30
280	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
279	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	8.3	70
278	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
277	Benzoxazine Atropisomers: Intrinsic Atropisomerization Mechanism and Conversion to High Performance Thermosets. <i>Macromolecules</i> , 2018 , 51, 7574-7585	5.5	46
276	Development of Hydrogen-Rich Benzoxazine Resins with Low Polymerization Temperature for Space Radiation Shielding. <i>ACS Omega</i> , 2018 , 3, 11569-11581	3.9	14
275	Non-flammable thiazole-functional monobenzoxazines: Synthesis, polymerization, thermal and thermomechanical properties, and flammability studies. <i>Polymer</i> , 2018 , 157, 38-49	3.9	31
274	Examining the effect of hydroxyl groups on the thermal properties of polybenzoxazines: using molecular design and Monte Carlo simulation.. <i>RSC Advances</i> , 2018 , 8, 18038-18050	3.7	19
273	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
272	Microwave-assisted solvent-free synthesis of novel benzoxazines: A faster and environmentally friendly route to the development of bio-based thermosetting resins. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 3534-3544	2.5	31

271	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
270	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	64
269	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
268	Design, Synthesis, Characterization, and Polymerization of Fused-Ring Naphthoxazine Resins. <i>Macromolecules</i> , 2017 , 50, 9249-9256	5.5	16
267	Hydrogen-bonding characteristics and unique ring-opening polymerization behavior of Ortho-methylol functional benzoxazine. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 3635-3642	2.5	32
266	Benzoxazines with enhanced thermal stability from phenolated organosolv lignin. <i>RSC Advances</i> , 2016 , 6, 107689-107698	3.7	24
265	Synthesis and ring-opening polymerization of 2-substituted 1,3-benzoxazine: the first observation of the polymerization of oxazine ring-substituted benzoxazines. <i>Polymer Chemistry</i> , 2016 , 7, 7177-7184	4.9	26
264	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
263	Intramolecular Hydrogen Bonding in Benzoxazines: When Structural Design Becomes Functional. <i>Chemistry - A European Journal</i> , 2016 , 22, 2691-707	4.8	60
262	Examining the influence of bisphenol A on the polymerisation and network properties of an aromatic benzoxazine. <i>Polymer</i> , 2016 , 88, 52-62	3.9	17
261	Laponite/multigraphene hybrid-reinforced poly(vinyl alcohol) aerogels. <i>Polymer</i> , 2016 , 91, 180-186	3.9	21
260	Triggering effect caused by elemental sulfur as a mean to reduce the polymerization temperature of benzoxazine monomers. <i>RSC Advances</i> , 2016 , 6, 35144-35151	3.7	17
259	Simple and low energy consuming synthesis of cyanate ester functional naphthoxazines and their properties. <i>Polymer Chemistry</i> , 2016 , 7, 2245-2252	4.9	32
258	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	8.3	118
257	Latent Catalyst-Containing Naphthoxazine: Synthesis and Effects on Ring-Opening Polymerization. <i>Macromolecules</i> , 2016 , 49, 7129-7140	5.5	48
256	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
255	Smart, Sustainable, and Ecofriendly Chemical Design of Fully Bio-Based Thermally Stable Thermosets Based on Benzoxazine Chemistry. <i>ChemSusChem</i> , 2016 , 9, 1899-1899	8.3	6
254	Copolymers based on telechelic benzoxazine with a reactive main-chain and anhydride: monomer and polymer synthesis, and thermal and mechanical properties of carbon fiber composites. <i>RSC Advances</i> , 2015 , 5, 16785-16791	3.7	16

253	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
252	An anomalous trade-off effect on the properties of smart ortho-functional benzoxazines. <i>Polymer Chemistry</i> , 2015 , 6, 2541-2550	4.9	52
251	Thermally stable polybenzoxazines via ortho-norbornene functional benzoxazine monomers: Unique advantages in monomer synthesis, processing and polymer properties. <i>Polymer</i> , 2015 , 66, 240-248	2.9	56
250	Advanced and economical ambient drying method for controlled mesopore polybenzoxazine-based carbon xerogels: Effects of non-ionic and cationic surfactant on porous structure. <i>Journal of Colloid and Interface Science</i> , 2015 , 459, 241-249	9.3	17
249	Interactions, morphology and thermal stability of graphene-oxide reinforced polymer aerogels derived from star-like telechelic aldehyde-terminal benzoxazine resin. <i>RSC Advances</i> , 2015 , 5, 92719-92731	3.7	24
248	Synthesis and Characterization of Cyanate Ester Functional Benzoxazine and Its Polymer. <i>Macromolecules</i> , 2015 , 48, 8412-8417	5.5	84
247	Smart Synthesis of High-Performance Thermosets Based on ortho-Amide-imide Functional Benzoxazines. <i>Frontiers in Materials</i> , 2015 , 2,	4	15
246	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
245	A thermo-rheological study on the structure property relationships in the reinforcement of nylon 6âBOSS blends. <i>Polymer</i> , 2014 , 55, 860-870	3.9	12
244	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
243	Vinyl ester/clay based nanocomposites: a complementary study of vinyl ester polymerization by hyphenated rheo-Fourier transform infrared and separate rheology/Fourier transform infrared measurements. <i>Polymer International</i> , 2014 , 63, 521-528	3.3	4
242	Triggered Precision Benzoxazine Film Formation by Thermally Induced Destabilization of Benzoxazine Nanodroplets Using a LCST-Bearing Surfactant. <i>Macromolecules</i> , 2014 , 47, 3297-3305	5.5	13
241	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
240	Molecular dynamic simulations of self-assembly of amphiphilic comb-like anionic polybenzoxazines. <i>Langmuir</i> , 2014 , 30, 11858-65	4	7
239	Self-formation of 3D interconnected macroporous carbon xerogels derived from polybenzoxazine by selective solvent during the solâgel process. <i>Journal of Materials Science</i> , 2014 , 49, 4946-4961	4.3	19
238	Improvement in the pore structure of polybenzoxazine-based carbon xerogels through a silica templating method. <i>Journal of Porous Materials</i> , 2014 , 21, 401-411	2.4	11
237	Quantifying Dispersion in Graphene Oxide/Reactive Benzoxazine Monomer Nanocomposites.. <i>Macromolecules</i> , 2014 , 47, 3685-3692	5.5	29
236	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

- 235 An Ultrahigh Performance Cross-Linked Polybenzoxazole via Thermal Conversion from Poly(benzoxazine amic acid) Based on Smart o-Benzoxazine Chemistry. *Macromolecules*, **2014**, 47, 8674-8681 5.5 58
- 234 High performance crosslinked polyimide based on main-chain type polybenzoxazine. *RSC Advances*, **2014**, 4, 62550-62556 3.7 12
- 233 1,3-bis(benzoxazine) from cashew nut shell oil and diaminodiphenyl methane and its composites with wood flour. *Journal of Applied Polymer Science*, **2013**, 127, 2710-2714 2.9 33
- 232 Synthesis, characterization, and thermal properties of alkyl-functional naphthoxazines. *Journal of Applied Polymer Science*, **2013**, 127, 3114-3123 2.9 13
- 231 Use of allyl-functional benzoxazine monomers as replacement for styrene in vinyl ester resins. *Polymer International*, **2013**, 62, 71-78 3.3 15
- 230 Biobased chitosan hybrid aerogels with superior adsorption: Role of graphene oxide in CO₂ capture. *RSC Advances*, **2013**, 3, 16011 3.7 111
- 229 Synthesis and evaluation of novel anionic polymeric surfactants based on polybenzoxazines. *Journal of Colloid and Interface Science*, **2013**, 407, 339-47 9.3 26
- 228 Preparation and thermal properties of graphene oxide/main chain benzoxazine polymer. *European Polymer Journal*, **2013**, 49, 3825-3833 5.2 35
- 227 Polymerization behavior of methylol-functional benzoxazine monomer. *Reactive and Functional Polymers*, **2013**, 73, 360-368 4.6 24
- 226 Dielectric Properties at Microwave Frequency in Barium Strontium Titanate/Poly(benzoxazine/urethane) Composite Films. *Ferroelectrics*, **2013**, 452, 84-90 0.6 9
- 225 Multilayered confinement of iPP/TPOSS and nylon 6/APOSS blends. *Polymer*, **2013**, 54, 6992-7003 3.9 6
- 224 Biobased chitosan/polybenzoxazine cross-linked films: preparation in aqueous media and synergistic improvements in thermal and mechanical properties. *Biomacromolecules*, **2013**, 14, 1806-15 6.9 77
- 223 Interplay between rheological and structural evolution of benzoxazine resins during polymerization. *Polymer*, **2013**, 54, 1880-1886 3.9 20
- 222 Highly Improved Thermal Properties of Hydroxyl-Containing Polymers via Modification by Benzoxazine Groups. *Macromolecular Chemistry and Physics*, **2013**, 214, 1629-1635 2.6 21
- 221 Incorporation of Natural Renewable Components and Waste Byproducts to Benzoxazine Based High Performance Materials. *Current Organic Chemistry*, **2013**, 17, 913-925 1.7 30
- 220 Novel template confinement derived from polybenzoxazine-based carbon xerogels for synthesis of ZSM-5 nanoparticles via microwave irradiation. *Microporous and Mesoporous Materials*, **2012**, 156, 7-15 5.3 21
- 219 Benzoxazole Resin: A Novel Class of Thermoset Polymer via Smart Benzoxazine Resin. *Macromolecules*, **2012**, 45, 8991-8997 5.5 86
- 218 Structure Property Relationships and the Role of Processing in the Reinforcement of Nylon 6-POSS Blends. *Macromolecules*, **2012**, 45, 4650-4657 5.5 52

217	Mechanistic Pathways for the Polymerization of Methylol-Functional Benzoxazine Monomers. <i>Macromolecules</i> , 2012 , 45, 8119-8125	5.5	82
216	Investigation of polymerization of benzoxazines and thermal degradation characteristics of polybenzoxazines via direct pyrolysis mass spectrometry. <i>Polymer International</i> , 2012 , 61, 1532-1541	3.3	27
215	Methylol-functional benzoxazines as precursors for high-performance thermoset polymers: Unique simultaneous addition and condensation polymerization behavior. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 2275-2285	2.5	24
214	Side-chain type benzoxazine-functional cellulose via click chemistry. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 1346-1351	2.9	28
213	Overview and Historical Background of Polybenzoxazine Research 2011 , 3-81		127
212	Main-Chain Type Benzoxazine Oligomers 2011 , 355-362		3
211	Polymerization of p-cresol, formaldehyde, and piperazine and structure of monofunctional benzoxazine-derived oligomers. <i>Polymer</i> , 2011 , 52, 3897-3904	3.9	9
210	Methacryloyl-Functional Benzoxazine: Photopolymerization and Thermally Activated Polymerization. <i>Macromolecules</i> , 2011 , 44, 767-772	5.5	50
209	New thermo-oxidative protective coating for carbon/carbon composites in mid-temperature range using a combination of nano-filler and macro-filler with polybenzoxazine as a carbon-forming matrix. <i>Polymer Composites</i> , 2011 , 32, 1164-1173	3	6
208	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
207	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
206	Low-Viscosity Polyether-Based Main-Chain Benzoxazine Polymers: Precursors for Flexible Thermosetting Polymers. <i>Macromolecules</i> , 2010 , 43, 7122-7127	5.5	90
205	Primary Amine-Functional Benzoxazine Monomers and Their Use for Amide-Containing Monomeric Benzoxazines. <i>Macromolecules</i> , 2010 , 43, 2748-2758	5.5	107
204	Cationic Ring-Opening Polymerization of 1,3-Benzoxazines: Mechanistic Study Using Model Compounds. <i>Macromolecules</i> , 2010 , 43, 4562-4572	5.5	152
203	Highly processible maleimide and nitrile functionalized benzoxazines for advanced composites applications. <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	1
202	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
201	The use of pyrolysis mass spectrometry to investigate polymerization and degradation processes of methyl amine-based benzoxazine. <i>Polymer Testing</i> , 2010 , 29, 520-526	4.5	28
200	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

199	Development of a novel, ultra-performance polymer cement: In situ formation of benzoxazine monomer and subsequent formation of polybenzoxazine/cement composites. <i>Polymer Composites</i> , 2010 , 31, 1995-2006	3	2
198	Synthesis and characterization of highly fluorinated diamines and benzoxazines derived therefrom. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 573-580	2.1	29
197	The effects of processing variables on strength of carbon bonding between carbon/carbon composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 138-144	5.3	7
196	Low temperature polymerization of novel, monotropic liquid crystalline benzoxazines. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 5871-5881	2.5	44
195	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
194	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
193	Synthesis and properties of new crosslinkable telechelics with benzoxazine moiety at the chain end. <i>Polymer</i> , 2009 , 50, 2688-2695	3.9	57
192	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
191	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
190	³¹ P NMR spectroscopy in benzoxazine model compounds and benzoxazine chemistry –main chain and end group studies. <i>European Polymer Journal</i> , 2009 , 45, 1493-1505	5.2	9
189	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
188	Verification of Selective Adsorption of Polymer on Filler Surface in a Binary Immiscible Polymer Solution Blend Based on Nanoconfinement: Changing the Aggregate Structure and the Surface Character of Carbon Black. <i>Macromolecules</i> , 2009 , 42, 6175-6180	5.5	4
187	A New Concept for Nanoparticle Distribution in SBR/NBR Blend Solution and Films via Molecular Confinement. <i>Macromolecules</i> , 2008 , 41, 2931-2937	5.5	20
186	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
185	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
184	Polymerisation and degradation of an aromatic amine-based naphthoxazine. <i>Polymer Degradation and Stability</i> , 2008 , 93, 2096-2103	4.7	25
183	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
182	Surface Micro-Scale Semi-Heterogeneous Structures in Compatible Polystyrene and Poly(vinyl methyl ether) Blend Thin Films Investigated by Lateral-Force Microscopy. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 2222-2228	2.6	6

181	Polymerization of linear aliphatic diamine-based benzoxazine resins under inert and oxidative environments. <i>Polymer</i> , 2007 , 48, 6763-6772	3.9	91
180	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
179	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
178	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
177	The effect of addition of poly(propylene-g-acrylic acid) on the morphology of poly(vinyl methylether) and isotactic polypropylene blend. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 4098-4103	2.9	2
176	Effect of rubber reactivity on the morphology of polybenzoxazine blends investigated by atomic force microscopy and dynamic mechanical analysis. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 2443-2454	2.9	22
175	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
174	Probing friction and adhesion properties of poly(vinyl methylether) homopolymer and blend films under nano-confinement using atomic-force microscopy. <i>Comptes Rendus Chimie</i> , 2006 , 9, 90-98	2.7	11
173	Improved thermal stability of polybenzoxazines by transition metals. <i>Polymer Degradation and Stability</i> , 2006 , 91, 805-815	4.7	63
172	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
171	A Study of Morphology and Intercalation Kinetics of Polystyrene-Organoclay Nanocomposites. <i>Macromolecules</i> , 2005 , 38, 6513-6519	5.5	67
170	Synthesis and characterization of maleimide and norbornene functionalized benzoxazines. <i>Polymer</i> , 2005 , 46, 5588-5595	3.9	183
169	Surface study of hexagonal boron nitride powder by diffuse reflectance Fourier transform infrared spectroscopy. <i>Surface and Interface Analysis</i> , 2005 , 37, 621-627	1.5	30
168	Acceleration of silanol condensation of a methacryl-functional silane in the model sizing system. <i>Composite Interfaces</i> , 2005 , 12, 769-785	2.3	10
167	Probing the properties of particle-matrix interphase in reactive rubber-grafted polybenzoxazine resins by atomic force microscopy. <i>Composite Interfaces</i> , 2005 , 12, 481-499	2.3	13
166	A study on hydrogen bonding in controlled-structure benzoxazine model oligomers. <i>Macromolecular Symposia</i> , 2003 , 195, 123-140	0.8	58
165	Metal Ion Guest Responsive Benzoxazine Dimers and Inclusion Phenomena of Cyclic Derivatives. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003 , 47, 179-185		20
164	Effect of the miscibility between a silane and a sizing agent on silanol condensation. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 589-598	2.9	9

163	Solution intercalation of polystyrene and the comparison with poly(ethyl methacrylate). <i>Polymer</i> , 2003 , 44, 6571-6577	3.9	51
162	Mechanical property improvement of carbon fiber reinforced polybenzoxazine by rubber interlayer. <i>Polymer Composites</i> , 2003 , 24, 597-607	3	51
161	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
160	Concentration-Dependent Conformation of Alkyl Tail in the Nanoconfined Space: Hexadecylamine in the Silicate Galleries. <i>Langmuir</i> , 2003 , 19, 2479-2484	4	150
159	Model Compounds Study on the Network Structure of Polybenzoxazines. <i>Macromolecules</i> , 2003 , 36, 8326-8329	3.9	79
158	High Yield Synthesis of Fluorinated Benzoxazine Monomers and Their Molecular Characterization. <i>Polymers and Polymer Composites</i> , 2002 , 10, 191-204	0.8	20
157	Development of low-viscosity benzoxazine resins and their polymers. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 2953-2966	2.9	87
156	Study of exchange reaction in polycarbonate-modified polybenzoxazine via model compound. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1848-1855	2.9	22
155	Gelation study of high processability and high reliability ternary systems based on benzoxazine, epoxy, and phenolic resins for an application as electronic packaging materials. <i>Rheologica Acta</i> , 2002 , 41, 1-9	2.3	29
154	Resin transfer molding of natural fiber reinforced polybenzoxazine composites. <i>Polymer Composites</i> , 2002 , 23, 352-360	3	51
153	Thermal decomposition processes in polybenzoxazine model dimers investigated by TGA and GC-MS. <i>Polymer Degradation and Stability</i> , 2002 , 76, 1-15	4.7	97
152	Thermal decomposition processes in aromatic amine-based polybenzoxazines investigated by TGA and GC-MS. <i>Polymer</i> , 2002 , 43, 4391-4402	3.9	138
151	A Study on Hydrogen-Bonded Network Structure of Polybenzoxazines. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 3271-3280	2.8	178
150	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
149	Synthesis of spiro-silicates directly from silica and ethylene glycol/ethylene glycol derivatives. <i>Tetrahedron</i> , 2001 , 57, 3997-4003	2.4	21
148	Investigation of an N-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	2.1	46
147	Gelation behavior of near-zero shrinkage polybenzoxazines. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 406-417	2.9	63
146	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

145	Infrared and thermal analyses of polybenzoxazine and polycarbonate blends. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1021-1034	2.9	44
144	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	2.6	90
143	Effects of Phenolic Substitution on the Photooxidative Degradation of Polybenzoxazines. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 2351-2359	2.6	17
142	Silica surface modified with benzoxazine-functional silane. <i>Composite Interfaces</i> , 2001 , 8, 355-366	2.3	8
141	Asymmetric mono-oxazine: an inevitable product from Mannich reaction of benzoxazine dimers. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9947-55	16.4	111
140	Nondestructive Evaluation of the Three-Dimensional Morphology of Polyethylene/Polystyrene Blends by Thermal Conductivity. <i>Macromolecules</i> , 2001 , 34, 7392-7402	5.5	10
139	The Effect of Polymerization Conditions on the Density and Tg of Bisphenol-A and Hexafluoroisopropylidene-Containing Polybenzoxazines. <i>Polymers and Polymer Composites</i> , 2001 , 9, 367-376	0.8	18
138	Dynamic Mechanical and Thermal Analysis of Reactive Poly (Butadiene-Co-Acrylonitrile) Rubber-Modified Polybenzoxazine Resin. <i>Polymers and Polymer Composites</i> , 2001 , 9, 121-134	0.8	18
137	A novel ion extraction material using host-guest properties of oligobenzoxazine local structure and benzoxazine monomer molecular assembly. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2561-2568	2.9	25
136	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
135	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
134	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
133	Thermal properties of phthalonitrile functional polybenzoxazines. <i>Thermochimica Acta</i> , 2000 , 357-358, 195-203	2.9	139
132	Regioselectivity and Network Structure of Difunctional Alkyl-Substituted Aromatic Amine-Based Polybenzoxazines. <i>Macromolecules</i> , 2000 , 33, 8149-8157	5.5	137
131	General Approach to Nanocomposite Preparation. <i>Chemistry of Materials</i> , 2000 , 12, 1260-1267	9.6	317
130	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
129	Effect of degree of cure and fiber content on the mechanical and dynamic mechanical properties of carbon fiber reinforced PMR-15 polyimide composites. <i>Polymer Composites</i> , 1999 , 20, 515-523	3	14
128	Molecular characterization of the polymerization of acetylene-functional benzoxazine resins. <i>Polymer</i> , 1999 , 40, 1815-1822	3.9	201

127	Infrared and Raman spectroscopy of cyclohexa(p-phenylene sulfide) and the polymer obtained therefrom. <i>Polymer</i> , 1999 , 40, 4723-4731	3.9	7
126	Structural effects of phenols on the thermal and thermo-oxidative degradation of polybenzoxazines. <i>Polymer</i> , 1999 , 40, 4365-4376	3.9	213
125	A new theoretical equation for thermal conductivity of two-phase systems. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 1689-1697	2.9	31
124	Critical gel phenomena in the rheology of epoxide network formation. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 593-600	2.9	11
123	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
122	Thermal study on the copolymers of phthalonitrile and phenylnitrile-functional benzoxazines. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2937-2949	2.9	186
121	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
120	Polybenzoxazine resins: Aspects of interaction and adsorption behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 1441-1447	2.6	9
119	Investigation of the boron nitride/polybenzoxazine interphase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 2360-2372	2.6	57
118	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
117	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
116	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	2.6	125
115	Influence of Segmental Swelling Ratio of a Symmetric Block Copolymer on the Morphology of Melt-Mixed Immiscible Polymer Blends. <i>Macromolecules</i> , 1999 , 32, 4582-4587	5.5	17
114	Microphase and Macrophase Transitions in Binary Blends of Diblock Copolymers. <i>Macromolecules</i> , 1999 , 32, 1803-1808	5.5	12
113	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	16.4	179
112	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	2.6	154
111	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
110	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

109	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	2.9	40
108	Very high thermal conductivity obtained by boron nitride-filled polybenzoxazine. <i>Thermochemica Acta</i> , 1998 , 320, 177-186	2.9	368
107	Polymorphism on the cyclic hexamer of p-phenylene sulfide. <i>Polymer</i> , 1998 , 39, 4219-4223	3.9	2
106	Effect of CaCO ₃ on the mechanical and rheological properties of a ring-opening phenolic resin: Polybenzoxazine. <i>Polymer Composites</i> , 1998 , 19, 126-132	3	34
105	Influence of Exothermic Interaction on the Morphology and Droplet Coalescence of Melt-Mixed Immiscible Polymer Blends Containing a Block Copolymer. <i>Macromolecules</i> , 1998 , 31, 5383-5390	5.5	25
104	Synthesis and Characterization of Structurally Uniform Model Oligomers of Polybenzoxazine. <i>Macromolecules</i> , 1998 , 31, 2409-2418	5.5	52
103	Adsorption of tetrasulfide-functional silane on high surface area silica treated with aqueous and non-aqueous solutions. <i>Composite Interfaces</i> , 1998 , 6, 155-167	2.3	5
102	Dynamic mechanical characterization of PMR polyimide/carbon fiber composites modified by fiber coating with silicones. <i>Composite Interfaces</i> , 1997 , 5, 257-275	2.3	6
101	Effect of the silicone interlayer on mechanical properties of carbon fiber reinforced PMR-15 polyimide composites. <i>Composite Interfaces</i> , 1997 , 5, 87-116	2.3	5
100	A Study on the Volumetric Expansion of Benzoxazine-Based Phenolic Resin. <i>Macromolecules</i> , 1997 , 30, 1099-1106	5.5	422
99	Application of a New Quantitative Optical Depth Profiling Technique for the Diffusion of Polymers. <i>Applied Spectroscopy</i> , 1997 , 51, 461-465	3.1	17
98	Complex Refractive Index Determination for Uniaxial Anisotropy with the Use of Kramers-Kronig Analysis. <i>Applied Spectroscopy</i> , 1997 , 51, 1287-1293	3.1	4
97	New Optical Depth-Profiling Technique by Use of the Multiple-Frequency Approach with Single ATR FT-IR Spectrum: Theoretical Development. <i>Applied Spectroscopy</i> , 1997 , 51, 1488-1495	3.1	17
96	Application of differential absorption in infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 1997 , 13, 119-122		2
95	Kramers-Kronig analysis applied to reflection-absorption spectroscopy. <i>Vibrational Spectroscopy</i> , 1997 , 15, 27-36	2.1	18
94	Depth Profiling of Stratified Layers Using Variable-Angle ATR. <i>Applied Spectroscopy</i> , 1996 , 50, 1082-1088	3.1	18
93	Optical Depth Profiling by Attenuated Total Reflection Fourier Transform Infrared Spectroscopy: A New Approach. <i>Applied Spectroscopy</i> , 1996 , 50, 1187-1195	3.1	26
92	A review on the structure and characterization techniques of silane/matrix interphases. <i>Macromolecular Symposia</i> , 1996 , 108, 19-53	0.8	43

91	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	
90	Mechanical characterization of copolymers based on benzoxazine and epoxy. <i>Polymer</i> , 1996 , 37, 4487-4495	3.9	380
89	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
88	Synthesis and characterization of polyfunctional naphthoxazines and related polymers. <i>Journal of Applied Polymer Science</i> , 1996 , 61, 1595-1605	2.9	142
87	Optical depth profiling by attenuated total reflection Fourier transform infrared spectroscopy using an incident beam with arbitrary degree of polarization. <i>Vibrational Spectroscopy</i> , 1996 , 13, 1-9	2.1	8
86	Polymerization of poly(p-phenylene sulfide) from a cyclic precursor. <i>Polymer</i> , 1996 , 37, 3111-3116	3.9	20
85	Development and characterization of high-performance polybenzoxazine composites. <i>Polymer Composites</i> , 1996 , 17, 710-719	3	157
84	An investigation of the thermal stability of undecylimidazole on copper by FT-IR reflection-absorption spectroscopy. <i>Applied Surface Science</i> , 1995 , 89, 39-47	6.7	15
83	Infrared Mapping of Surface-Modified Kevlar Fiber-Reinforced Epoxy Systems. <i>Applied Spectroscopy</i> , 1995 , 49, 149-155	3.1	11
82	Quantitative Two-Dimensional Infrared (2D IR) Spectroscopy: Theoretical Development for General and Specific Cases. <i>Applied Spectroscopy</i> , 1995 , 49, 1243-1253	3.1	30
81	Toughening composites by fiber coating: a review. <i>Composite Interfaces</i> , 1994 , 2, 199-234	2.3	54
80	Optical theory applied to infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 1994 , 8, 1-36	2.1	96
79	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
78	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
77	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
76	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
75	Kramers-Kronig analysis of infrared reflection spectra with parallel polarization for isotropic materials. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994 , 50, 2079-2090		13
74	Silane-modified poly(vinylimidazole) corrosion inhibitors for copper. <i>Polymer</i> , 1994 , 35, 4780-4786	3.9	10

73	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
72	Kinetics of the Condensation Reaction of Epoxide with Phenol: Linear Chain Growth versus Branching. <i>Macromolecules</i> , 1994 , 27, 2701-2707	5.5	13
71	Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection. <i>Applied Spectroscopy</i> , 1994 , 48, 775-787	3.1	45
70	Effects of carbon fibers on the transcrystalline interphase in poly(phenylene sulfide) of different molecular weights. <i>Composite Interfaces</i> , 1994 , 2, 351-363	2.3	2
69	Silane-modified polyvinylimidazole(1) for corrosion protection on copper at elevated temperatures. <i>Journal of Applied Polymer Science</i> , 1993 , 49, 1957-1962	2.9	10
68	Theoretical Development for Depth Profiling of Stratified Layers Using Variable-Angle ATR. <i>Applied Spectroscopy</i> , 1993 , 47, 1237-1244	3.1	28
67	FT-IR External Reflection Spectroscopy at Brewster's Angle. <i>Applied Spectroscopy</i> , 1992 , 46, 504-509	3.1	17
66	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
65	Kinetic parameters of the thermoplastic/thermoset epoxy reaction by fourier transform infrared spectroscopy. <i>Polymer Engineering and Science</i> , 1992 , 32, 136-145	2.3	8
64	Interphase compatibilization of composites with immiscible blends as matrix: Glass beads filled nylon 6 / polypropylene blend-composite. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991 , 50, 157-170		12
63	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
62	Dynamic mechanical analysis of RIM nylon-6. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991 , 29, 1479-1492	2.6	17
61	RIM-pultrusion of nylon-6 and rubber-toughened nylon-6 composites. <i>Polymer Engineering and Science</i> , 1991 , 31, 632-637	2.3	12
60	Chemical Reactions of an Epoxy-Functional Silane in Aqueous Solutions. <i>Rubber Chemistry and Technology</i> , 1991 , 64, 162-171	1.7	22
59	Chemical Reactions of Resorcinol-Formaldehyde Latex and Coupling Agent. <i>Rubber Chemistry and Technology</i> , 1991 , 64, 172-180	1.7	4
58	Surface induced crystallization in ultrahigh-modulus polyethylene fiber-reinforced polyethylene composites. <i>Macromolecules</i> , 1991 , 24, 3569-3577	5.5	111
57	Silicon-29 solid-state nuclear magnetic resonance spectroscopy of composite interfaces. <i>Polymer Composites</i> , 1990 , 11, 121-125	3	48
56	Multi-Nuclear NMR spectroscopic and proton NMR imaging studies on the effect of water on the silane coupling agent/matrix resin interface in glass fiber-reinforced composites. <i>Polymer Composites</i> , 1990 , 11, 192-199	3	24

55	Rheology of phenylpropylsilsesquioxane in the fiber-spinning regime. <i>Macromolecules</i> , 1990 , 23, 5279-5285	2.8	2
54	Spectral simulation for infrared surface electromagnetic wave spectroscopy. <i>Surface Science</i> , 1990 , 230, 299-310	1.8	4
53	Cure behavior of very thin epoxy resin films on steel. <i>Journal of Applied Polymer Science</i> , 1989 , 38, 2191-2204	2.9	29
52	Controlling and monitoring interfacial reactions in composites of azidosilane modified glass filled polyethylene. <i>Polymer Composites</i> , 1988 , 9, 12-19	3	19
51	Evaluation of Space Radiator Performance by Simulation of Infrared Emission. <i>Applied Spectroscopy</i> , 1988 , 42, 114-120	3.1	3
50	Comparison among Several Numerical Integration Methods for Kramers-Kronig Transformation. <i>Applied Spectroscopy</i> , 1988 , 42, 952-957	3.1	182
49	Grazing Angle Metal-Overlayer Infrared ATR Spectroscopy. <i>Applied Spectroscopy</i> , 1988 , 42, 1296-1302	3.1	31
48	Spectral simulation of uniaxially oriented monolayers in the infrared. <i>Langmuir</i> , 1988 , 4, 1341-1346	4	30
47	Chemical Depth Profiling Analysis of Polyvinylimidazole Film on Copper. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 603-609	3.9	11
46	Role of the interface in multicomponent materials. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1988 , 22, 191-205		5
45	Interphase Engineering. <i>Journal of Fiber Science and Technology</i> , 1988 , 44, P56-P60	0	
44	Quantitative Surface FT-IR Spectroscopic Analysis of Polymers. <i>Rubber Chemistry and Technology</i> , 1987 , 60, 497-554	1.7	60
43	Quantitative analysis of covalent bonding between substituted silanes and inorganic surfaces. <i>Journal of Chemical Physics</i> , 1987 , 86, 1593-1600	3.9	23
42	Polarization-Modulation FT-IR Reflection Spectroscopy Using a Polarizing Michelson Interferometer. <i>Applied Spectroscopy</i> , 1987 , 41, 1288-1294	3.1	19
41	Poly(aryl-ether-ether-ketone) and its advanced composites: A review. <i>Polymer Composites</i> , 1987 , 8, 57-73	3.3	123
40	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
39	Molecular analysis of the interface of poly(ether-ether-ketone) and the basal plane of graphite single crystals. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1986 , 5, 135-149		8
38	Fourier transform infrared ellipsometry of thin polymer films. <i>Analytical Chemistry</i> , 1986 , 58, 64-68	7.8	22

37	Fourier transform infrared studies on the thermal degradation of polyvinylimidazoles: Part I. <i>Journal of Applied Polymer Science</i> , 1986 , 32, 5021-5034	2.9	16
36	Fourier transform infrared studies on the thermal degradation of polyvinylimidazoles. Part II. <i>Journal of Applied Polymer Science</i> , 1986 , 32, 5035-5055	2.9	9
35	Polymerization of styrene oxide with pyridine. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1986 , 7, 37-41		12
34	Molecular analysis of the melting behaviour of poly(aryl-ether-ether-ketone). <i>Polymer</i> , 1986 , 27, 1400-1405	5.9	90
33	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
32	The inhibition of copper corrosion by azole compounds in humid environments. <i>Corrosion Science</i> , 1986 , 26, 657-667	6.8	18
31	Quantitative intermolecular reaction of hydrolyzed trialkoxysilanes at submonolayer, monolayer, and multilayer surface coverages. <i>Langmuir</i> , 1986 , 2, 127-131	4	39
30	Fourier transform infrared surface electromagnetic wave spectroscopy of polymer thin films on metallic substrate. <i>Analytical Chemistry</i> , 1986 , 58, 2448-2453	7.8	20
29	Size-exclusion chromatography and size-exclusion chromatography/Fourier transform infrared spectrometry of reacting organofunctional trialkoxysilanes. <i>Analytical Chemistry</i> , 1985 , 57, 283-288	7.8	9
28	Structural changes of chlorinated paraffins at processing conditions of particulate filled polypropylene. <i>Polymer Composites</i> , 1985 , 6, 34-40	3	3
27	Cyclization of methacrylate-functional silane on particulate clay. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985 , 23, 2227-2242		26
26	The effect of chain length on the thermal stability of 2-alkylimidazoles on copper and 2-alkylimidazolato copper(II) complexes. <i>Applications of Surface Science</i> , 1985 , 20, 497-511		18
25	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
24	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
23	Substrate effects on the chemisorbed and physisorbed layers of methacryl silane-modified particulate minerals. <i>Macromolecules</i> , 1984 , 17, 1659-1666	5.5	76
22	Quantitative monomolecular coverage of inorganic particulates by methacryl-functional silanes. <i>Surface Science</i> , 1984 , 148, 601-622	1.8	82
21	Characterization of silane-treated glass fibers by diffuse reflectance Fourier transform spectrometry. <i>Analytical Chemistry</i> , 1984 , 56, 773-778	7.8	46
20	Reinforcement mechanism of polyester-fiber-reinforced rubber—a model study. <i>Journal of Applied Polymer Science</i> , 1983 , 28, 2633-2646	2.9	10

19	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
18	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
17	The structure of aminofunctional silane coupling agents: 1. γ -Aminopropyltriethoxysilane and its analogues. <i>Polymer</i> , 1982 , 23, 251-257	3.9	91
16	The structure of an aminosilane coupling agent in aqueous solutions and partially cured solids. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1982 , 20, 701-718		53
15	High-resolution carbon-13 nuclear magnetic resonance study of conjugation in solid polyimides. <i>Macromolecules</i> , 1981 , 14, 1327-1333	5.5	22
14	Application of uv resonance raman spectroscopy to the detection of monolayers of silane coupling agent on glass surfaces. <i>Polymer Composites</i> , 1981 , 2, 75-80	3	9
13	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
12	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
11	The structure of γ -aminopropyltriethoxysilane on glass surfaces. <i>Journal of Colloid and Interface Science</i> , 1980 , 74, 396-404	9.3	382
10	Epitaxial polymerization of (SN) _x : Chemical defects. <i>Journal of Applied Physics</i> , 1980 , 51, 5188	2.5	6
9	Epitaxial polymerization of (SN) _x : Lattice effects on structures and topochemistry. <i>Journal of Applied Physics</i> , 1980 , 51, 5194	2.5	13
8	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
7	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
6	Fourier transform infrared spectroscopic study of transitions above T _g in atactic polystyrene. <i>Polymer Engineering and Science</i> , 1979 , 19, 756-759	2.3	19
5	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
4	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
3	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
2	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

- 1 Very High-Char-Yielding Elastomers Based on the Copolymers of a Catechol/Furfurylamine Benzoxazine and Polydimethylsiloxane Oligomers. *ACS Sustainable Chemistry and Engineering*, 8.3 3