

# Ian Hamerton

## List of Publications by Citations

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197  
papers

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31  
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60  
g-index

203  
ext. papers

5,110  
ext. citations

4.7  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
197	Recent developments in the chemistry of halogen-free flame retardant polymers. <i>Progress in Polymer Science</i> , <b>2002</b> , 27, 1661-1712	29.6	1226
196	Modern advances in bismaleimide resin technology: A 21st century perspective on the chemistry of addition polyimides. <i>Progress in Polymer Science</i> , <b>2017</b> , 69, 1-21	29.6	132
195	Recent developments in the chemistry of cyanate esters $\square$ <i>Polymer International</i> , <b>1998</b> , 47, 465-473	3.3	107
194	Recent Technological Developments in Cyanate Ester Resins. <i>High Performance Polymers</i> , <b>1998</b> , 10, 163-174		97
193	Octasilsesquioxane-reinforced DGEBA and TGDDM epoxy nanocomposites: Characterization of thermal, dielectric and morphological properties. <i>Acta Materialia</i> , <b>2010</b> , 58, 3345-3356	8.4	86
192	Studies of cure schedule and final property relationships of a commercial epoxy resin using modified imidazole curing agents. <i>Polymer</i> , <b>1998</b> , 39, 1929-1937	3.9	73
191	Stability of various metalloporphyrin catalysts during hydrogen peroxide epoxidation of alkene. <i>Journal of Molecular Catalysis A</i> , <b>2002</b> , 185, 25-31		69
190	Electrocatalytic properties of monometallic and bimetallic nanoparticles-incorporated polypyrrole films for electro-oxidation of methanol. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 940-948	8.9	66
189	High-Performance Thermoset $\square$ Thermoset Polymer Blends: A Review of the Chemistry of Cyanate Ester Bismaleimide Blends. <i>High Performance Polymers</i> , <b>1996</b> , 8, 83-95	1.6	62
188	Low temperature growth of carbon nanotubes on carbon fibre to create a highly networked fuzzy fibre reinforced composite with superior electrical conductivity. <i>Carbon</i> , <b>2014</b> , 74, 319-328	10.4	60
187	Characterisation of commercially CVD grown multi-walled carbon nanotubes for paint applications. <i>Progress in Organic Coatings</i> , <b>2016</b> , 90, 44-53	4.8	59
186	Nanocatalysts impregnated polythiophene electrodes for the electrooxidation of formic acid. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 73, 172-179	21.8	56
185	Metals and coordination compounds as modifiers for epoxy resins. <i>Coordination Chemistry Reviews</i> , <b>2002</b> , 224, 67-85	23.2	55
184	Multi-Functional Carbon Fibre Composites using Carbon Nanotubes as an Alternative to Polymer Sizing. <i>Scientific Reports</i> , <b>2016</b> , 6, 37334	4.9	53
183	Examining the Initiation of the Polymerization Mechanism and Network Development in Aromatic Polybenzoxazines. <i>Macromolecules</i> , <b>2013</b> , 46, 5117-5132	5.5	52
182	The synthesis, characterisation and thermal behaviour of functionalised aryl cyanate ester monomers. <i>Polymer International</i> , <b>1992</b> , 29, 145-156	3.3	52
181	Preparation and characterization of imidazole $\square$ metal complexes and evaluation of cured epoxy networks. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 379-384		51

180	Development of a closed-loop recycling process for discontinuous carbon fibre polypropylene composites. <i>Composites Part B: Engineering</i> , <b>2018</b> , 146, 222-231	10	50
179	Hydrogen bonding. Part 18. Gas/Liquid chromatographic measurements for the design and selection of some hydrogen bond acidic phases suitable for use as coatings on piezoelectric sorption detectors. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1991</b> , 1417-1423		43
178	Development of Novel Functionalized Aryl Cyanate Ester Oligomers. 1. Synthesis and Thermal Characterization of the Monomers. <i>Macromolecules</i> , <b>1994</b> , 27, 4927-4935	5.5	42
177	A study of the thermal and dynamic mechanical properties of functionalized aryl cyanate esters and their polymers. <i>Polymer International</i> , <b>1993</b> , 31, 95-106	3.3	42
176	An evaluation of life cycle assessment and its application to the closed-loop recycling of carbon fibre reinforced polymers. <i>Composites Part B: Engineering</i> , <b>2020</b> , 184, 107665	10	40
175	Low surface free energy cyanate ester/silica hybrid (CE/SiO <sub>2</sub> ) nanomaterials for low k dielectric applications. <i>RSC Advances</i> , <b>2013</b> , 3, 12915	3.7	39
174	Compatible poly(vinyl chloride)/chlorinated polyurethane blends: thermal characteristics. <i>European Polymer Journal</i> , <b>2000</b> , 36, 171-181	5.2	39
173	Evidence for parallel destructive, and competitive epoxidation and dismutation pathways in metalloporphyrin-catalysed alkene oxidation by hydrogen peroxide. <i>Tetrahedron</i> , <b>2001</b> , 57, 6847-6853	2.4	38
172	New Method To Predict the Thermal Degradation Behavior of Polybenzoxazines from Empirical Data Using Structure Property Relationships. <i>Macromolecules</i> , <b>2013</b> , 46, 7605-7615	5.5	36
171	Solvation of gaseous non-electrolytes. <i>Faraday Discussions of the Chemical Society</i> , <b>1988</b> , 85, 107		36
170	Investigating the mechanism through which ionic liquids initiate the polymerisation of epoxy resins. <i>Polymer</i> , <b>2018</b> , 139, 163-176	3.9	34
169	Mechanical properties of tough, high temperature carbon fibre composites from novel functionalized aryl cyanate ester polymers. <i>Polymer</i> , <b>1996</b> , 37, 4519-4528	3.9	33
168	Developing predictive models for polycyanurates through a comparative study of molecular simulation and empirical thermo-mechanical data. <i>Polymer</i> , <b>2006</b> , 47, 690-698	3.9	32
167	Multivariate analysis of spectra of cyanate ester/bismaleimide blends and correlations with properties. <i>Polymer</i> , <b>2002</b> , 43, 3381-3386	3.9	32
166	Molecular modelling of the physical and mechanical properties of two polycyanurate network polymers. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 311		31
165	Hydrogen bonding. <i>Journal of Chromatography A</i> , <b>1993</b> , 646, 351-360	4.5	30
164	Water uptake effects in resins based on alkenyl-modified cyanate ester/bismaleimide blends. <i>Polymer International</i> , <b>2001</b> , 50, 475-483	3.3	29
163	A closed-loop recycling process for discontinuous carbon fibre polyamide 6 composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 179, 107418	10	27

162	The ene reaction between maleimides and allyl-substituted aromatics. <i>Tetrahedron</i> , <b>1997</b> , 53, 13473-13494	27
161	The development of novel functionalised aryl cyanate esters. Part 2. Mechanical properties of the polymers and composites. <i>Polymer</i> , <b>2001</b> , 42, 2307-2319	3.9 26
160	High temperature 1H NMR studies of epoxy cure: A neglected technique. <i>Polymer Bulletin</i> , <b>1994</b> , 33, 215-219	2.4 26
159	Toughening Mechanisms in Aromatic Polybenzoxazines Using Thermoplastic Oligomers and Telechelics. <i>Macromolecules</i> , <b>2014</b> , 47, 1946-1958	5.5 25
158	Preparation, characterization, and thermal properties of controllable metal-imidazole complex curing agents for epoxy resins. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 75, 201-217	2.9 25
157	A study of the polymerization of novel cyanate ester/acrylate blends. <i>Polymer</i> , <b>2000</b> , 41, 1647-1656	3.9 25
156	Effect of complexation with copper (II) on cured neat resin properties of a commercial epoxy resin using modified imidazole curing agents. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 305	25
155	Reclaimed Carbon and Flax Fibre Composites: Manufacturing and Mechanical Properties. <i>Recycling</i> , <b>2018</b> , 3, 52	3.2 25
154	Systematic examination of thermal, mechanical and dielectrical properties of aromatic polybenzoxazines. <i>Reactive and Functional Polymers</i> , <b>2012</b> , 72, 736-744	4.6 24
153	Synthesis and Characterization of a POSS-Maleimide Precursor for Hybrid Nanocomposites. <i>High Performance Polymers</i> , <b>2008</b> , 20, 67-85	1.6 23
152	Developing poly(bis-benzoxazines) with improved fracture toughness. 1: Using molecular simulation to determine and predict structure-property relationships. <i>Reactive and Functional Polymers</i> , <b>2006</b> , 66, 21-39	4.6 23
151	Double cantilever beam testing of repaired carbon fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2000</b> , 31, 603-608	8.4 23
150	Comparative kinetic analyses for epoxy resins cured with imidazole-metal complexes. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1793-1797	23
149	Studies on a series of bis-arylimides containing four phenylene rings and their polymers: 2. Polymerization of monomers and thermal analysis of the polymers. <i>Polymer</i> , <b>1991</b> , 32, 2482-2490	3.9 23
148	Characterisation of Natural Fibres for Sustainable Discontinuous Fibre Composite Materials. <i>Materials</i> , <b>2020</b> , 13,	3.5 22
147	Development of sizing-free multi-functional carbon fibre nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 90, 306-319	8.4 22
146	A model of the surface of oxidatively treated carbon fibre based on calculations of adsorption interactions with small molecules. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>1998</b> , 29, 1283-1290	8.4 22
145	Conformational studies of polycyanurates: a study of internal stress versus molecular structure. <i>Polymer</i> , <b>2002</b> , 43, 4599-4604	3.9 22

144	A study of the cyclotrimerisation and polymerisation of aryl cyanates using <sup>13</sup> C and <sup>15</sup> N nuclear magnetic resonance spectroscopy, fourier transform infra-red spectroscopy and differential scanning calorimetry. <i>Polymer Bulletin</i> , <b>1991</b> , 25, 475-482	2.4	22
143	The development of controllable complex curing agents for epoxy resins. I. Preparation, characterization, and storage behavior of transition metal-diamine complexes. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 1489-1503	2.9	21
142	The development of controllable metal-chelate curing agents with improved storage stability. <i>Polymer Bulletin</i> , <b>1994</b> , 33, 347-353	2.4	21
141	A Life Cycle Engineering Perspective on Biocomposites as a Solution for a Sustainable Recovery. <i>Sustainability</i> , <b>2021</b> , 13, 1160	3.6	21
140	Cycloaliphatic epoxy-based hybrid nanocomposites reinforced with POSS or nanosilica for improved environmental stability in low Earth orbit. <i>Composites Part B: Engineering</i> , <b>2018</b> , 138, 66-76	10	21
139	Solving the problem of building models of crosslinked polymers: an example focussing on validation of the properties of crosslinked epoxy resins. <i>PLoS ONE</i> , <b>2012</b> , 7, e42928	3.7	20
138	Studies on a series of bisarylimides containing four phenylene rings and their polymers: 1. Synthesis and characterization of the monomers. <i>Polymer</i> , <b>1991</b> , 32, 358-363	3.9	20
137	Fused Deposition Modelling of Fibre Reinforced Polymer Composites: A Parametric Review. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 29	3	20
136	Theoretical studies of conducting polymers based on substituted polypyrroles. <i>Computational and Theoretical Polymer Science</i> , <b>1998</b> , 8, 265-271		19
135	Developing improved models of oxidatively treated carbon fibre surfaces, using molecular simulation. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2004</b> , 35, 1161-1173	8.4	19
134	Covalent Incorporation of 2,5-Diphenyloxazole in Sol-Gel Matrices and Their Application in Radioanalytical Chemistry. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 568-572	9.6	19
133	Molecular simulation of the comparative flexibility of bridging linkages in poly(aryl ether sulfone)s and poly(aryl ether ketone)s from a study of isolated oligomers. <i>Macromolecular Theory and Simulations</i> , <b>1996</b> , 5, 305-320	1.5	19
132	A study of the thermal degradation of poly(vinyl chloride) in the presence of carbazole and potassium carbazole using t.g.a./FTi.r.. <i>Polymer</i> , <b>1994</b> , 35, 336-338	3.9	19
131	Examination of the Thermal and Thermomechanical Behavior of Novel Cyanate Ester Homopolymers and Blends with Low Coefficients of Thermal Expansion. <i>Macromolecules</i> , <b>2009</b> , 42, 7718-7735	5.5	18
130	The development of controllable complex curing agents for epoxy resins. II. Examining the dissociation and thermal behavior of transition metal-diamine complex-epoxy blends. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 84, 2411-2424	2.9	18
129	Studies on a dicyanate containing four phenylene rings and polycyanurate blends. 2. Application of mathematical models to the catalysed polymerization process. <i>Polymer</i> , <b>2003</b> , 44, 4839-4852	3.9	18
128	Development of quantitative structure property relationships for poly(arylene ether)s. <i>Journal of Molecular Graphics</i> , <b>1995</b> , 13, 14-7, 51		18
127	Studies of temperature and time-dependent network formation in commercial epoxy resins using modified imidazole curing agents. <i>Polymer International</i> , <b>1996</b> , 41, 159-168	3.3	18

126	Examining the influence of bisphenol A on the polymerisation and network properties of an aromatic benzoxazine. <i>Polymer</i> , <b>2016</b> , 88, 52-62	3.9	17
125	Quasi-Isotropic and Pseudo-Ductile Highly Aligned Discontinuous Fibre Composites Manufactured with the HiPerDiF (High Performance Discontinuous Fibre) Technology. <i>Materials</i> , <b>2019</b> , 12,	3.5	17
124	Antimicrobial and anticancer efficacy of antineoplastic agent capped gold nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , <b>2010</b> , 6, 129-37	4	17
123	Molecular modelling of a polyarylethersulfone under bulk conditions. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>1996</b> , 4, 151-159	2	17
122	Analytical detection and biological assay of antileukemic drug using gold nanoparticles. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1152-1160	6.7	17
121	Atomic oxygen degradation mechanisms of epoxy composites for space applications. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 166, 108-120	4.7	16
120	Ductility potential of brittle epoxies: Thermomechanical behaviour of plastically-deformed fully-cured composite resins. <i>Polymer</i> , <b>2017</b> , 120, 43-51	3.9	16
119	Examining the thermo-mechanical properties of novel cyanate ester blends through empirical measurement and simulation. <i>Reactive and Functional Polymers</i> , <b>2012</b> , 72, 596-605	4.6	16
118	TGA/FTi.r. studies on the thermal stability of poly(vinyl chloride) blends with a novel colourant and stabilizer: 3-(2,4-dichlorophenylazo)-9-(2,3-epoxypropane)carbazole. <i>Polymer</i> , <b>1998</b> , 39, 241-244	3.9	16
117	Introduction to cyanate ester resins <b>1994</b> , 1-6		16
116	Molecular modelling of high performance polymers. <i>Polymer International</i> , <b>1996</b> , 41, 151-157	3.3	15
115	The synthesis, characterization and polymerization kinetic study of a series of related addition polyimides. <i>High Performance Polymers</i> , <b>1994</b> , 6, 21-34	1.6	15
114	Development of epoxy-cyanate ester-clay nanocomposites offering enhanced thermally stability. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47754	2.9	14
113	Remanufacturing of Woven Carbon Fibre Fabric Production Waste into High Performance Aligned Discontinuous Fibre Composites. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 68	3	13
112	Kinetics and Cure Mechanism in Aromatic Polybenzoxazines Modified Using Thermoplastic Oligomers and Telechelics. <i>Macromolecules</i> , <b>2014</b> , 47, 1935-1945	5.5	13
111	Using POSS reagents to reduce hydrophobic character in polypropylene nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12971	13	13
110	Molecular modelling of interactions at the composite interfaces between electrolytically surface-treated carbon fibre and epoxyresin. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 169-174		13
109	The application of molecular simulation to the rational design of new materials: 2. Prediction of the physico-mechanical properties of linear epoxy systems. <i>Polymer</i> , <b>1997</b> , 38, 4305-4310	3.9	13

108	Studies on a dicyanate containing four phenylene rings and polycyanurate blends. 1. Synthesis and polymerization of the monomers and characterization of the polymer blends using thermal and mechanical methods. <i>Polymer</i> , <b>2002</b> , 43, 5737-5748	3.9	13
107	New force-field parameters for molecular simulations of s-triazine and cyanurate-containing systems. 2. Application and comparison with different simulation methods. <i>Polymer</i> , <b>2003</b> , 44, 793-799	3.9	13
106	Synthesis and characterization of functionalized thermoplastics as reactive modifiers for bismaleimide resins. <i>Polymer International</i> , <b>2001</b> , 50, 1309-1317	3.3	13
105	Using combined computational techniques to predict the glass transition temperatures of aromatic polybenzoxazines. <i>PLoS ONE</i> , <b>2013</b> , 8, e53367	3.7	13
104	Examining the effects of storage on the initiation behaviour of ionic liquids towards the cure of epoxy resins. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 133, 9-20	4.6	13
103	Towards the rational design of polymers using molecular simulation: Predicting the effect of cure schedule on thermo-mechanical properties for a cycloaliphatic amine-cured epoxy resin. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 74, 1-15	4.6	12
102	Studying the co-reaction of propenyl-substituted cyanate ester-bismaleimide blends using model compounds. <i>Reactive and Functional Polymers</i> , <b>2012</b> , 72, 279-286	4.6	12
101	The use of thermosets in aerospace applications <b>2012</b> , 189-227		12
100	Validating software and force fields for predicting the mechanical and physical properties of poly(bisbenzoxazine)s. <i>Molecular Simulation</i> , <b>2008</b> , 34, 1259-1266	2	12
99	Kinetics and mechanism of the titanium tetrachloride-catalysed cyclotrimerisation of aryl cyanates. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1994</b> , 1937		12
98	A comparative study of the relative reactivity of alkenyl-functionalized toughening modifiers for bis-maleimides. <i>Polymer Bulletin</i> , <b>1991</b> , 27, 163-170	2.4	12
97	Development and application of a quality control and property assurance methodology for reclaimed carbon fibers based on the HiPerDiF (High Performance Discontinuous Fibre) method and interlaminated hybrid specimens. <i>Advanced Manufacturing: Polymer and Composites Science</i> , <b>2009</b> , 1, 13-25	0.6	11
96	Studies on a dicyanate containing four phenylene rings and polycyanurate copolymers. 3. Application of mathematical models to determine the kinetics of the thermal degradation processes. <i>Polymer</i> , <b>2004</b> , 45, 2193-2199	3.9	11
95	A new synthetic route for the preparation of alkenyl functionalized aryl cyanate ester monomers. <i>Polymer</i> , <b>1999</b> , 40, 5421-5427	3.9	11
94	Properties of unreinforced cyanate ester matrix resins <b>1994</b> , 193-229		11
93	Studies on a series of bis-arylimides containing four phenylene rings and their polymers: 3. Kinetic analysis of the thermal polymerizations. <i>Polymer</i> , <b>1992</b> , 33, 3664-3669	3.9	11
92	Matrix-graded and fibre-steered composites to tackle stress concentrations. <i>Composite Structures</i> , <b>2019</b> , 207, 72-80	5.3	11
91	Radiation-grafted cation-exchange membranes: an initial ex situ feasibility study into their potential use in reverse electrodialysis. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 1682-1692	5.8	10

90	Analysis of atomic oxygen and ultraviolet exposure effects on cycloaliphatic epoxy resins reinforced with octa-functional POSS. <i>Acta Astronautica</i> , <b>2018</b> , 142, 103-111	2.9	10
89	Studies of polycyanurates based on phenoxy-substituted cyclic phosphazenes: Synthesis of the monomer and a preliminary study of its thermal properties in binary blends. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 679-689	4.7	10
88	ToF SIMS and XPS Studies of Carbon Fiber Surface during Electrolytic Oxidation in 17O/18O Enriched Aqueous Electrolytes. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1972-1977	9.6	10
87	Synthesis and characterisation of novel methyl methacrylate-2-(dimethylamino)ethyl methacrylate copolymer salts containing polymerisable anions. <i>Polymer</i> , <b>2003</b> , 44, 3775-3784	3.9	10
86	Kinetic and simulation studies of linear epoxy systems. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 385		10
85	Reactive Molecular Dynamics Study of the Thermal Decomposition of Phenolic Resins. <i>Journal of Composites Science</i> , <b>2019</b> , 3, 32	3	9
84	The development of controllable complex curing agents for epoxy resins. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 255-265		9
83	New force-field parameters for use in molecular simulations of s-triazine and cyanurate-containing systems. 1 Derivation and molecular structure synopsis. <i>Computational and Theoretical Polymer Science</i> , <b>2001</b> , 11, 467-473		9
82	Development of Cycloaliphatic Epoxy-POSS Nanocomposite Matrices with Lambas Enhanced Resistance to Atomic Oxygen. <i>Molecules</i> , <b>2020</b> , 25,	4.8	9
81	Examining the nature of network formation during epoxy polymerisation initiated with ionic liquids. <i>Polymer</i> , <b>2018</b> , 150, 318-325	3.9	8
80	Studying the effect of the chloral group on the thermal and physical properties of aromatic cyanate esters. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 110, 435-446	4.7	8
79	Molecular modelling of interactions at the composite interface between surface-treated carbon fibre and polymer matrices: the influence of surface functional groups. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 1333-1337		8
78	N-(2-biphenylenyl)-4-[2'-phenylethynyl]phthalimide New monomer synthesis, cure and thermal properties of resulting high temperature polymer. <i>Polymer</i> , <b>2002</b> , 43, 1717-1725	3.9	8
77	The application of molecular simulation to the rational design of new materials: 1. Structure and modelling studies of linear epoxy systems. <i>Polymer</i> , <b>1994</b> , 35, 4326-4333	3.9	8
76	Developing toughened bismaleimide-clay nanocomposites: Comparing the use of platelet and rod-like nanoclays. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 134, 10-21	4.6	8
75	Tuning the properties for the self-extinguishing epoxy-amine composites containing copper-coordinated curing agent: Flame tests and physical/mechanical measurements. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 129, 95-102	4.6	8
74	Using QSPR techniques to predict char yield arising from the thermal degradation of polybenzoxazines. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 446-452	4.7	7
73	Structure of 2,2'-bis(4-cyanatophenyl)isopropylidene. <i>Journal of Crystallographic and Spectroscopic Research</i> , <b>1990</b> , 20, 285-289		7



72	Prediction of selected physical and mechanical properties of a telechelic polybenzoxazine by molecular simulation. <i>PLoS ONE</i> , <b>2013</b> , 8, e61179	3.7	7
71	Liquid Processable, Thermally Stable, Hydrophobic Phenolic Triazine Resins for Advanced Composite Applications. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 1458-1465	4.3	6
70	Improving Dispersion of Recycled Discontinuous Carbon Fibres to Increase Fibre Throughput in the HiPerDiF Process. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
69	Validation of a smoothed particle hydrodynamics model for a highly aligned discontinuous fibre composites manufacturing process. <i>Composites Science and Technology</i> , <b>2020</b> , 196, 108152	8.6	6
68	Examining the kinetics of the thermal polymerisation behaviour of epoxy resins initiated with a series of 1-ethyl-3-methylimidazolium based ionic liquids. <i>Thermochimica Acta</i> , <b>2018</b> , 663, 19-26	2.9	6
67	Water-based fractionation of a commercial humic acid. Solid-state and colloidal characterization of the solubility fractions. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 508, 28-38	9.3	6
66	Dramatic reductions in water uptake observed in novel POSS nanocomposites based on anhydride-cured epoxy matrix resins. <i>Materials Today Communications</i> , <b>2015</b> , 4, 186-198	2.5	6
65	Using Molecular Simulation to Predict the Physical and Mechanical Properties of Polybenzoxazines <b>2011</b> , 127-142		6
64	Methods for process-related resin selection and optimisation in high-pressure resin transfer moulding. <i>Materials Science and Technology</i> , <b>2019</b> , 35, 327-335	1.5	6
63	Investigation of structure property relationships in liquid processible, solvent free, thermally stable bismaleimide-triazine (BT) resins. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 102, 110-118	4.6	5
62	Effects of thermal history on the polymerisation mechanism and network development in aromatic polybenzoxazines. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 1612-1624	4.6	5
61	Quantifying the effect of polymer blending through molecular modelling of cyanurate polymers. <i>PLoS ONE</i> , <b>2012</b> , 7, e44487	3.7	5
60	Probing the cure of <sup>13</sup> C labelled bisphenol A dicyanate ester in carbon fibre reinforced composites using solid state <sup>13</sup> C NMR, SEM and FTIR. <i>Polymer Bulletin</i> , <b>1997</b> , 38, 433-438	2.4	5
59	The computer modelling and the chemical kinetics of the rate of cure of epoxy resins. <i>Journal of Coatings Technology and Research</i> , <b>1998</b> , 81, 68-71		5
58	Modelling the structural and physicochemical properties of substituted poly(p-phenylene)s using molecular mechanical and molecular orbital methods. <i>Polymer</i> , <b>2002</b> , 43, 4103-4110	3.9	5
57	Predicting glass transition temperatures of polyarylethersulphones using QSPR methods. <i>PLoS ONE</i> , <b>2012</b> , 7, e38424	3.7	5
56	Modification of stress-strain behaviour in aromatic polybenzoxazines using core shell rubbers. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 103, 117-130	4.6	5
55	Examining the influence of carboxylic anhydride structures on the reaction kinetics and processing characteristics of an epoxy resin for wind turbine applications. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 144, 104353	4.6	4

54	Examining the Influence of Anion Nucleophilicity on the Polymerisation Initiation Mechanism of Phenyl Glycidyl Ether. <i>Polymers</i> , <b>2019</b> , 11,	4.5	4
53	What are we going to do about a problem like polymer chemistry? Develop new methods of delivery to improve understanding of a demanding interdisciplinary topic. <i>Chemistry Education Research and Practice</i> , <b>2015</b> , 16, 293-301	2.1	4
52	Examining the thermal degradation behaviour of a series of cyanate ester homopolymers. <i>Polymer International</i> , <b>2019</b> , 68, 1666-1672	3.3	4
51	Designing thermoplastic oligomers with programmed degradation mechanisms using a combined empirical and simulation approach. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 829-838	4.7	4
50	Examining the kinetics of the thermal polymerization of commercial aromatic bis-benzoxazines. <i>Journal of Polymer Science Part A</i> , <b>2014</b> , 52, 2068-2081	2.5	4
49	A systematic examination of colour development in synthetic ultramarine according to historical methods. <i>PLoS ONE</i> , <b>2013</b> , 8, e50364	3.7	4
48	Simulation of the free energy of mixing for blend components in a new family of flexible polycyanurates. <i>Polymer</i> , <b>2010</b> , 51, 5857-5868	3.9	4
47	Preparation of metal-aromatic diamine complexes and their influence on the cure of a commercial epoxy resin. <i>Polymer Bulletin</i> , <b>1996</b> , 36, 295-302	2.4	4
46	Structure of 2,2'-bis(3-allyl-4-cyanatophenyl)isopropylidene. <i>Journal of Crystallographic and Spectroscopic Research</i> , <b>1992</b> , 22, 101-108		4
45	On the use of benzaldehyde to improve the storage stability of one-pot, epoxy ionic liquid formulations. <i>European Polymer Journal</i> , <b>2019</b> , 112, 126-136	5.2	4
44	The use of thermosets in modern aerospace applications <b>2018</b> , 303-340		4
43	Pseudo-ductile behaviour in fibre reinforced thermoplastic angle-ply composites. <i>Composites Science and Technology</i> , <b>2020</b> , 197, 108261	8.6	3
42	Prediction of the char formation of polybenzoxazines: The effect of heterogeneities in the crosslinked network to the prediction accuracy in quantitative structure-properties relationship (QSPR) model. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 129, 129-137	4.6	3
41	Improving the hydrolytic stability of aryl cyanate esters by examining the effects of extreme environments on polycyanurate copolymers. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 109, 104-111	4.6	3
40	Examining structure property relationships in coatings based on substituted linear aromatic polycyanurates. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 1046-1057	4.6	3
39	The effect of pH on the functionalization of nylon fabric with carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 84-90	1.3	3
38	Inverse Gas Chromatography Characterization of Carbon Fiber Surfaces - Effects of Applied Surface Treatment. <i>High Performance Polymers</i> , <b>2005</b> , 17, 561-574	1.6	3
37	Computer modelling and chemical kinetics of the cure of aerospace resin systems. <i>Aircraft Engineering and Aerospace Technology</i> , <b>1999</b> , 71, 470-478	5	3

36	Development and application of radio-size-exclusion chromatography. <i>Journal of Chromatography A</i> , <b>1996</b> , 727, 61-70	4.5	3
35	A study of the polymerization behaviour of N-(4-phenoxy)-phenylmaleimide using DSC analysis. <i>Polymer Bulletin</i> , <b>1993</b> , 30, 521-527	2.4	3
34	Natural Fibres as a Sustainable Reinforcement Constituent in Aligned Discontinuous Polymer Composites Produced by the HiPerDiF Method. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
33	Developing (Quantitative Structure Property Relationships) QSPR Techniques to Predict the Char Formation of Polybenzoxazines. <i>Polymers</i> , <b>2016</b> , 8,	4.5	3
32	Examining the thermal behaviour of novel aromatic polybenzoxazine blends containing an organophosphorous compound and polyhedral oligomeric silsesquioxane reagents. <i>Polymer International</i> , <b>2016</b> , 65, 1015-1023	3.3	3
31	Positioning and aligning CNTs by external magnetic field to assist localised epoxy cure. <i>Open Physics</i> , <b>2016</b> , 14, 508-516	1.3	3
30	Exploring Structure?Property Relationships in Aromatic Polybenzoxazines Through Molecular Simulation. <i>Polymers</i> , <b>2018</b> , 10,	4.5	3
29	A Novel Approach to Atomistic Molecular Dynamics Simulation of Phenolic Resins Using Symthons. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
28	Developing toughened aromatic polybenzoxazines using thermoplastic oligomers and telechelics, part 1: Preparation and characterization of the functionalized oligomers. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	2
27	At the Limits of Simulation: A New Method to Predict Thermal Degradation Behavior in Cyanate Esters and Nanocomposites Using Molecular Dynamics Simulation. <i>Macromolecular Theory and Simulations</i> , <b>2014</b> , 23, 369-372	1.5	2
26	Studying structure-property relationships in oligomeric engineering thermoplastics by controlled preparation of low molecular weight polymers. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 81, 22-32	4.6	2
25	A Tritium-Hydrogen Exchange Procedure for Determining the Concentration of Exchangeable Sites on PAN Based Carbon Fibres. <i>High Performance Polymers</i> , <b>1997</b> , 9, 281-290	1.6	2
24	Assessment of two methods for application in the prediction of the infrared spectra of polymers. <i>Computational and Theoretical Polymer Science</i> , <b>2001</b> , 11, 287-302		2
23	Examining the Influence of Organophosphorus Flame Retardants on the Thermal Behavior of Aromatic Polybenzoxazines. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1800282	2.6	2
22	SPH Simulation for Short Fibre Recycling Using Water Jet Alignment. <i>International Journal of Computational Fluid Dynamics</i> , <b>2021</b> , 35, 129-142	1.2	2
21	Delivering interlaminar reinforcement in composites through electrospun nanofibres. <i>Advanced Manufacturing: Polymer and Composites Science</i> , <b>2019</b> , 5, 155-171	0.6	1
20	Examining thermal stability and structure property relationships in coatings based on linear aromatic poly(methoxy-thiocyanurate)s. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 2201-2207	4.7	1
19	A Novel Phenylethynyl-terminated Siloxane: Synthesis and Electron Beam Cure. <i>High Performance Polymers</i> , <b>2003</b> , 15, 143-154	1.6	1

18	Life Cycle Assessment of the High Performance Discontinuous Fibre (HiPerDiF) Technology and Its Operation in Various Countries. <i>Sustainability</i> , <b>2022</b> , 14, 1922	3.6	1
17	Experimental characterisation and micromechanical models for luminescent phosphors incorporated with nonwoven veil-polymer composites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 202, 108444 <sup>10</sup>		1
16	Measurement of the glass transition temperature of an epoxy resin using principal components of Raman spectra. <i>Composites Part B: Engineering</i> , <b>2020</b> , 200, 108210	10	1
15	An automated in-situ polymerisation procedure for multi-functional cyanate ester resins via ring formation. <i>Polymer</i> , <b>2021</b> , 228, 123938	3.9	1
14	Phoenix polymers fire induced nanohardness in fibril-forming aromatic cyanate esters.. <i>RSC Advances</i> , <b>2018</b> , 8, 36264-36271	3.7	1
13	A Route to Sustainable Aviation: A Roadmap for the Realization of Aircraft Components With Electrical and Structural Multifunctionality. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 3032-3049	7.6	1
12	AutoMapper: A python tool for accelerating the polymer bonding workflow in LAMMPS. <i>Computational Materials Science</i> , <b>2022</b> , 205, 111204	3.2	0
11	Recycling of fiber reinforced thermosetting composites <b>2021</b> , 561-595		0
10	Batch production and fused filament fabrication of highly aligned discontinuous fibre thermoplastic filaments. <i>Additive Manufacturing</i> , <b>2021</b> , 102359	6.1	0
9	Modern Developments Using Molecular Simulation to Predict the Physical and Mechanical Properties of Polybenzoxazines <b>2017</b> , 111-129		
8	Predictive Methodology and Properties of Polybenzoxazines <b>2017</b> , 131-145		
7	Synthesis and characterization of organosoluble radiation-resistant composite materials from octa(maleimidophenyl)silsesquioxane and aryldiamines. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 1261-1270	3.2	
6	Examining the preparation and characterization of coatings based on linear aromatic terpoly(methoxy-cyanurate-thiocyanurate)s. <i>Polymer International</i> , <b>2014</b> , 63, 60-71	3.3	
5	N-(2-biphenylenyl)-4-[2-phenylethynyl] phthalimide: 2. Detailed study of the monomer cure and properties of the resulting polymer. <i>Polymer International</i> , <b>2004</b> , 53, 877-884	3.3	
4	Hydrotreating Catalysts and Processes <b>2005</b> , 1357-1365		
3	Radiochemical studies of the leaching of primary scintillator molecules from within sol-gel glasses. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1761-1764		
2	Using Molecular Simulation to Explore Unusually Low Moisture Uptake in Amine-Cured Epoxy Carbon Fiber Reinforced Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 1282-1292 <sup>2.6</sup>		
1	Exploring the thermal degradation mechanisms of some polybenzoxazines under ballistic heating conditions in helium and air. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 156, 180-192	4.7	

