

Ian Hamerton

List of Publications by Year in descending order

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200
papers

5,690
citations

117625

34
h-index

102487

66
g-index

203
all docs

203
docs citations

203
times ranked

4252
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in the chemistry of halogen-free flame retardant polymers. <i>Progress in Polymer Science</i> , 2002, 27, 1661-1712.	24.7	1,377
2	Modern advances in bismaleimide resin technology: A 21st century perspective on the chemistry of addition polyimides. <i>Progress in Polymer Science</i> , 2017, 69, 1-21.	24.7	203
3	Recent developments in the chemistry of cyanate esters. <i>Polymer International</i> , 1998, 47, 465-473.	3.1	118
4	Recent Technological Developments in Cyanate Ester Resins. <i>High Performance Polymers</i> , 1998, 10, 163-174.	1.8	105
5	Octasilsesquioxane-reinforced DGEBA and TGDDM epoxy nanocomposites: Characterization of thermal, dielectric and morphological properties. <i>Acta Materialia</i> , 2010, 58, 3345-3356.	7.9	94
6	Studies of cure schedule and final property relationships of a commercial epoxy resin using modified imidazole curing agents. <i>Polymer</i> , 1998, 39, 1929-1937.	3.8	88
7	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> , 2014, 74, 319-328.	10.3	79
8	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> , 2020, 184, 107665.	12.0	79
9	Stability of various metalloporphyrin catalysts during hydrogen peroxide epoxidation of alkene. <i>Journal of Molecular Catalysis A</i> , 2002, 185, 25-31.	4.8	77
10	Characterisation of commercially CVD grown multi-walled carbon nanotubes for paint applications. <i>Progress in Organic Coatings</i> , 2016, 90, 44-53.	3.9	77
11	Multi-Functional Carbon Fibre Composites using Carbon Nanotubes as an Alternative to Polymer Sizing. <i>Scientific Reports</i> , 2016, 6, 37334.	3.3	76
12	High-Performance Thermosetâ€“Thermoset Polymer Blends: A Review of the Chemistry of Cyanate Esterâ€“Bismaleimide Blends. <i>High Performance Polymers</i> , 1996, 8, 83-95.	1.8	71
13	Fused Deposition Modelling of Fibre Reinforced Polymer Composites: A Parametric Review. <i>Journal of Composites Science</i> , 2021, 5, 29.	3.0	69
14	Electrocatalytic properties of monometallic and bimetallic nanoparticles-incorporated polypyrrole films for electro-oxidation of methanol. <i>Journal of Power Sources</i> , 2006, 160, 940-948.	7.8	68
15	Metals and coordination compounds as modifiers for epoxy resins. <i>Coordination Chemistry Reviews</i> , 2002, 224, 67-85.	18.8	66
16	Development of a closed-loop recycling process for discontinuous carbon fibre polypropylene composites. <i>Composites Part B: Engineering</i> , 2018, 146, 222-231.	12.0	66
17	Examining the Initiation of the Polymerization Mechanism and Network Development in Aromatic Polybenzoxazines. <i>Macromolecules</i> , 2013, 46, 5117-5132.	4.8	65
18	Nanocatalysts impregnated polythiophene electrodes for the electrooxidation of formic acid. <i>Applied Catalysis B: Environmental</i> , 2007, 73, 172-179.	20.2	63

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19	Preparation and characterization of imidazole-metal complexes and evaluation of cured epoxy networks. <i>Journal of Materials Chemistry</i> , 1994, 4, 379-384.	6.7	58
20	A Life Cycle Engineering Perspective on Biocomposites as a Solution for a Sustainable Recovery. <i>Sustainability</i> , 2021, 13, 1160.	3.2	56
21	The synthesis, characterisation and thermal behaviour of functionalised aryl cyanate ester monomers. <i>Polymer International</i> , 1992, 29, 145-156.	3.1	53
22	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> , 1991, , 1417-1423.	0.9	49
23	Investigating the mechanism through which ionic liquids initiate the polymerisation of epoxy resins. <i>Polymer</i> , 2018, 139, 163-176.	3.8	49
24	Characterisation of Natural Fibres for Sustainable Discontinuous Fibre Composite Materials. <i>Materials</i> , 2020, 13, 2129.	2.9	49
25	New Method To Predict the Thermal Degradation Behavior of Polybenzoxazines from Empirical Data Using Structure Property Relationships. <i>Macromolecules</i> , 2013, 46, 7605-7615.	4.8	44
26	A study of the thermal and dynamic mechanical properties of functionalized aryl cyanate esters and their polymers. <i>Polymer International</i> , 1993, 31, 95-106.	3.1	43
27	Development of Novel Functionalized Aryl Cyanate Ester Oligomers. 1. Synthesis and Thermal Characterization of the Monomers. <i>Macromolecules</i> , 1994, 27, 4927-4935.	4.8	43
28	Compatible poly(vinyl chloride)/chlorinated polyurethane blends: thermal characteristics. <i>European Polymer Journal</i> , 2000, 36, 171-181.	5.4	42
29	Low surface free energy cyanate ester-silica hybrid (CE-SiO ₂) nanomaterials for low k dielectric applications. <i>RSC Advances</i> , 2013, 3, 12915.	3.6	42
30	Solvation of gaseous non-electrolytes. <i>Faraday Discussions of the Chemical Society</i> , 1988, 85, 107.	2.2	41
31	A closed-loop recycling process for discontinuous carbon fibre polyamide 6 composites. <i>Composites Part B: Engineering</i> , 2019, 179, 107418.	12.0	41
32	Evidence for parallel destructive, and competitive epoxidation and dismutation pathways in metalloporphyrin-catalysed alkene oxidation by hydrogen peroxide. <i>Tetrahedron</i> , 2001, 57, 6847-6853.	1.9	40
33	Hydrogen bonding. <i>Journal of Chromatography A</i> , 1993, 646, 351-360.	3.7	35
34	Mechanical properties of tough, high temperature carbon fibre composites from novel functionalized aryl cyanate ester polymers. <i>Polymer</i> , 1996, 37, 4519-4528.	3.8	35
35	Molecular modelling of the physical and mechanical properties of two polycyanurate network polymers. <i>Journal of Materials Chemistry</i> , 1996, 6, 311.	6.7	34
36	Developing predictive models for polycyanurates through a comparative study of molecular simulation and empirical thermo-mechanical data. <i>Polymer</i> , 2006, 47, 690-698.	3.8	34

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37	Multivariate analysis of spectra of cyanate ester/bismaleimide blends and correlations with properties. <i>Polymer</i> , 2002, 43, 3381-3386.	3.8	33
38	Reclaimed Carbon and Flax Fibre Composites: Manufacturing and Mechanical Properties. <i>Recycling</i> , 2018, 3, 52.	5.0	33
39	Atomic oxygen degradation mechanisms of epoxy composites for space applications. <i>Polymer Degradation and Stability</i> , 2019, 166, 108-120.	5.8	32
40	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> , 1996, 6, 305.	6.7	31
41	Development of sizing-free multi-functional carbon fibre nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 306-319.	7.6	31
42	Preparation, characterization, and thermal properties of controllable metal-imidazole complex curing agents for epoxy resins. <i>Journal of Applied Polymer Science</i> , 2000, 75, 201-217.	2.6	30
43	Water uptake effects in resins based on alkenyl-modified cyanate ester-bismaleimide blends. <i>Polymer International</i> , 2001, 50, 475-483.	3.1	30
44	Systematic examination of thermal, mechanical and dielectrical properties of aromatic polybenzoxazines. <i>Reactive and Functional Polymers</i> , 2012, 72, 736-744.	4.1	30
45	Toughening Mechanisms in Aromatic Polybenzoxazines Using Thermoplastic Oligomers and Telechelics. <i>Macromolecules</i> , 2014, 47, 1946-1958.	4.8	30
46	Cycloaliphatic epoxy-based hybrid nanocomposites reinforced with POSS or nanosilica for improved environmental stability in low Earth orbit. <i>Composites Part B: Engineering</i> , 2018, 138, 66-76.	12.0	30
47	High temperature ¹ H NMR studies of epoxy cure: A neglected technique. <i>Polymer Bulletin</i> , 1994, 33, 215-219.	3.3	29
48	Comparative kinetic analyses for epoxy resins cured with imidazole-metal complexes. <i>Journal of Materials Chemistry</i> , 1994, 4, 1793-1797.	6.7	29
49	The development of novel functionalised aryl cyanate esters. Part 2. Mechanical properties of the polymers and composites. <i>Polymer</i> , 2001, 42, 2307-2319.	3.8	29
50	The ene reaction between maleimides and allyl-substituted aromatics. <i>Tetrahedron</i> , 1997, 53, 13473-13494.	1.9	28
51	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> , 1998, 29, 1283-1290.	7.6	28
52	Synthesis and Characterization of a POSS-Maleimide Precursor for Hybrid Nanocomposites. <i>High Performance Polymers</i> , 2008, 20, 67-85.	1.8	28
53	The development of controllable metal-chelate curing agents with improved storage stability. <i>Polymer Bulletin</i> , 1994, 33, 347-353.	3.3	27
54	Quasi-Isotropic and Pseudo-Ductile Highly Aligned Discontinuous Fibre Composites Manufactured with the HiPerDiF (High Performance Discontinuous Fibre) Technology. <i>Materials</i> , 2019, 12, 1794.	2.9	27

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55	A study of the cyclotrimerisation and polymerisation of aryl cyanates using ¹³ C and ¹⁵ N nuclear magnetic resonance spectroscopy, fourier transform infra-red spectroscopy and differential scanning calorimetry. <i>Polymer Bulletin</i> , 1991, 25, 475-482.	3.3	26
56	A study of the polymerization of novel cyanate ester/acrylate blends. <i>Polymer</i> , 2000, 41, 1647-1656.	3.8	26
57	Double cantilever beam testing of repaired carbon fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2000, 31, 603-608.	7.6	26
58	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> , 1991, 32, 2482-2490.	3.8	24
59	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> , 2001, 80, 1489-1503.	2.6	23
60	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> , 2006, 66, 21-39.	4.1	23
61	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> , 2012, 7, e42928.	2.5	23
62	Ductility potential of brittle epoxies: Thermomechanical behaviour of plastically-deformed fully-cured composite resins. <i>Polymer</i> , 2017, 120, 43-51.	3.8	23
63	Studies on a series of bisarylimides containing four phenylene rings and their polymers: 1. Synthesis and characterization of the monomers. <i>Polymer</i> , 1991, 32, 358-363.	3.8	22
64	Conformational studies of polycyanurates: a study of internal stress versus molecular structure. <i>Polymer</i> , 2002, 43, 4599-4604.	3.8	22
65	Developing improved models of oxidatively treated carbon fibre surfaces, using molecular simulation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 1161-1173.	7.6	22
66	Analytical detection and biological assay of antileukemic drug using gold nanoparticles. <i>Electrochimica Acta</i> , 2006, 52, 1152-1160.	5.2	22
67	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> , 1994, 35, 336-338.	3.8	21
68	Development of quantitative structure property relationships for poly(arylene ether)s. <i>Journal of Molecular Graphics</i> , 1995, 13, 14-17.	1.1	21
69	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> , 1996, 5, 305-320.	1.4	21
70	Studies of Temperature and Time-dependent Network Formation in Commercial Epoxy Resins using Modified Imidazole Curing Agents. <i>Polymer International</i> , 1996, 41, 159-168.	3.1	21
71	Covalent Incorporation of 2,5-Diphenyloxazole in Sol-gel Matrices and Their Application in Radioanalytical Chemistry. <i>Chemistry of Materials</i> , 2000, 12, 568-572.	6.7	21
72	Examination of the Thermal and Thermomechanical Behavior of Novel Cyanate Ester Homopolymers and Blends with Low Coefficients of Thermal Expansion. <i>Macromolecules</i> , 2009, 42, 7718-7735.	4.8	21

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73	Using Molecular Simulation to Predict the Physical and Mechanical Properties of Polybenzoxazines. , 2011, , 127-142.		21
74	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. Polymer, 1998, 39, 241-244.	3.8	20
75	The development of controllable complex curing agents for epoxy resins. II. Examining the dissociation and thermal behavior of transition metal-diamine complex-epoxy blends. Journal of Applied Polymer Science, 2002, 84, 2411-2424.	2.6	20
76	Remanufacturing of Woven Carbon Fibre Fabric Production Waste into High Performance Aligned Discontinuous Fibre Composites. Journal of Composites Science, 2020, 4, 68.	3.0	20
77	Introduction to cyanate ester resins. , 1994, , 1-6.		19
78	Theoretical studies of conducting polymers based on substituted polypyrroles. Computational and Theoretical Polymer Science, 1998, 8, 265-271.	1.1	19
79	Antimicrobial and Anticancer Efficacy of Antineoplastic Agent Capped Gold Nanoparticles. Journal of Biomedical Nanotechnology, 2010, 6, 129-137.	1.1	19
80	The use of thermosets in aerospace applications. , 2012, , 189-227.		19
81	Examining the influence of bisphenol A on the polymerisation and network properties of an aromatic benzoxazine. Polymer, 2016, 88, 52-62.	3.8	19
82	Examining the effects of storage on the initiation behaviour of ionic liquids towards the cure of epoxy resins. Reactive and Functional Polymers, 2018, 133, 9-20.	4.1	19
83	Development of epoxyâ€œcyanate esterâ€œclay nanocomposites offering enhanced thermally stability. Journal of Applied Polymer Science, 2019, 136, 47754.	2.6	19
84	Studies on a dicyanate containing four phenylene rings and polycyanurate blends. 2. Application of mathematical models to the catalysed polymerization process. Polymer, 2003, 44, 4839-4852.	3.8	18
85	Examining the thermo-mechanical properties of novel cyanate ester blends through empirical measurement and simulation. Reactive and Functional Polymers, 2012, 72, 596-605.	4.1	18
86	Analysis of atomic oxygen and ultraviolet exposure effects on cycloaliphatic epoxy resins reinforced with octa-functional POSS. Acta Astronautica, 2018, 142, 103-111.	3.2	18
87	Development of Cycloaliphatic Epoxy-POSS Nanocomposite Matrices with Enhanced Resistance to Atomic Oxygen. Molecules, 2020, 25, 1483.	3.8	18
88	The synthesis, characterization and polymerization kinetic study of a series of related addition polyimides. High Performance Polymers, 1994, 6, 21-34.	1.8	17
89	Molecular Modelling of High Performance Polymers. Polymer International, 1996, 41, 151-157.	3.1	17
90	Molecular modelling of a polyarylethersulfone under bulk conditions. Modelling and Simulation in Materials Science and Engineering, 1996, 4, 151-159.	2.0	17

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91	A Route to Sustainable Aviation: A Roadmap for the Realization of Aircraft Components With Electrical and Structural Multifunctionality. IEEE Transactions on Transportation Electrification, 2021, 7, 3032-3049.	7.8	16
92	A comparative study of the relative reactivity of alkenyl-functionalized toughening modifiers for bis-maleimides. Polymer Bulletin, 1991, 27, 163-170.	3.3	15
93	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. Polymer, 2002, 43, 5737-5748.	3.8	15
94	Reactive Molecular Dynamics Study of the Thermal Decomposition of Phenolic Resins. Journal of Composites Science, 2019, 3, 32.	3.0	15
95	Matrix-graded and fibre-steered composites to tackle stress concentrations. Composite Structures, 2019, 207, 72-80.	5.8	15
96	Using Combined Computational Techniques to Predict the Glass Transition Temperatures of Aromatic Polybenzoxazines. PLoS ONE, 2013, 8, e53367.	2.5	15
97	Molecular modelling of interactions at the composite interfaces between electrolytically surface-treated carbon fibre and epoxy resin. Journal of Materials Chemistry, 1997, 7, 169-174.	6.7	14
98	New force-field parameters for molecular simulations of s-triazine and cyanurate-containing systems. 2â€™Application and comparison with different simulation methods. Polymer, 2003, 44, 793-799.	3.8	14
99	Using POSS reagents to reduce hydrophobic character in polypropylene nanocomposites. Journal of Materials Chemistry A, 2013, 1, 12971.	10.3	14
100	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. Reactive and Functional Polymers, 2014, 74, 1-15.	4.1	14
101	Kinetics and Cure Mechanism in Aromatic Polybenzoxazines Modified Using Thermoplastic Oligomers and Telechelics. Macromolecules, 2014, 47, 1935-1945.	4.8	14
102	Examining the kinetics of the thermal polymerisation behaviour of epoxy resins initiated with a series of 1-ethyl-3-methylimidazolium based ionic liquids. Thermochimica Acta, 2018, 663, 19-26.	2.7	14
103	Radiation-grafted cation-exchange membranes: an initial <i>ex situ</i> feasibility study into their potential use in reverse electrodialysis. Sustainable Energy and Fuels, 2019, 3, 1682-1692.	4.9	14
104	The application of molecular simulation to the rational design of new materials: 1. Structure and modelling studies of linear epoxy systems. Polymer, 1994, 35, 4326-4333.	3.8	13
105	Properties of unreinforced cyanate ester matrix resins. , 1994, , 193-229.		13
106	Kinetics and mechanism of the titanium tetrachloride-catalysed cyclotrimerisation of aryl cyanates. Journal of the Chemical Society Perkin Transactions II, 1994, , 1937.	0.9	13
107	The application of molecular simulation to the rational design of new materials: 2. Prediction of the physico-mechanical properties of linear epoxy systems. Polymer, 1997, 38, 4305-4310.	3.8	13
108	Synthesis and characterization of functionalized thermoplastics as reactive modifiers for bismaleimide resins. Polymer International, 2001, 50, 1309-1317.	3.1	13

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109	Validating software and force fields for predicting the mechanical and physical properties of poly(bisbenzoxazine)s. <i>Molecular Simulation</i> , 2008, 34, 1259-1266.	2.0	13
110	Studying the co-reaction of propenyl-substituted cyanate ester-bismaleimide blends using model compounds. <i>Reactive and Functional Polymers</i> , 2012, 72, 279-286.	4.1	13
111	The use of thermosets in modern aerospace applications. , 2018, , 303-340.		13
112	Studies on a series of bis-arylimides containing four phenylene rings and their polymers: 3. Kinetic analysis of the thermal polymerizations. <i>Polymer</i> , 1992, 33, 3664-3669.	3.8	12
113	ToF SIMS and XPS Studies of Carbon Fiber Surface during Electrolytic Oxidation in 17O/18O Enriched Aqueous Electrolytes. <i>Chemistry of Materials</i> , 1997, 9, 1972-1977.	6.7	12
114	A new synthetic route for the preparation of alkenyl functionalized aryl cyanate ester monomers. <i>Polymer</i> , 1999, 40, 5421-5427.	3.8	12
115	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> , 2004, 45, 2193-2199.	3.8	12
116	Natural Fibres as a Sustainable Reinforcement Constituent in Aligned Discontinuous Polymer Composites Produced by the HiPerDiF Method. <i>Materials</i> , 2021, 14, 1885.	2.9	12
117	Kinetic and simulation studies of linear epoxy systems. <i>Journal of Materials Chemistry</i> , 1994, 4, 385.	6.7	11
118	Synthesis and characterisation of novel methyl methacrylate-2-(dimethylamino)ethyl methacrylate copolymer salts containing polymerisable anions. <i>Polymer</i> , 2003, 44, 3775-3784.	3.8	11
119	The development of controllable complex curing agents for epoxy resins : Part 3. An investigation of the shelf life and thermal dissociation behaviour of bis(acetanilido)-tris(acetato)docuprate(ii). <i>Journal of Materials Chemistry</i> , 2006, 16, 255-265.	6.7	11
120	Examining the nature of network formation during epoxy polymerisation initiated with ionic liquids. <i>Polymer</i> , 2018, 150, 318-325.	3.8	11
121	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> , 2018, 4, 48-55.	0.4	11
122	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> , 2012, 97, 679-689.	5.8	10
123	Examining the Influence of Anion Nucleophilicity on the Polymerisation Initiation Mechanism of Phenyl Glycidyl Ether. <i>Polymers</i> , 2019, 11, 657.	4.5	10
124	Structure of 2,2'-bis(4-cyanatophenyl)isopropylidene. <i>Journal of Crystallographic and Spectroscopic Research</i> , 1990, 20, 285-289.	0.2	9
125	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> , 2001, 11, 467-473.	1.1	9
126	Modification of stress-strain behaviour in aromatic polybenzoxazines using core shell rubbers. <i>Reactive and Functional Polymers</i> , 2016, 103, 117-130.	4.1	9

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127	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> , 2017, 508, 28-38.	9.4	9
128	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> , 2018, 129, 95-102.	4.1	9
129	Developing toughened bismaleimide-clay nanocomposites: Comparing the use of platelet and rod-like nanoclays. <i>Reactive and Functional Polymers</i> , 2019, 134, 10-21.	4.1	9
130	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> , 1998, 8, 1333-1337.	6.7	8
131	N-(2-biphenylenyl)-4-[2-phenylethynyl]phthalimide: new monomer synthesis, cure and thermal properties of resulting high temperature polymer. <i>Polymer</i> , 2002, 43, 1717-1725.	3.8	8
132	Quantifying the Effect of Polymer Blending through Molecular Modelling of Cyanurate Polymers. <i>PLoS ONE</i> , 2012, 7, e44487.	2.5	8
133	Using QSPR techniques to predict char yield arising from the thermal degradation of polybenzoxazines. <i>Polymer Degradation and Stability</i> , 2013, 98, 446-452.	5.8	8
134	Studying the effect of the chloral group on the thermal and physical properties of aromatic cyanate esters. <i>Polymer Degradation and Stability</i> , 2014, 110, 435-446.	5.8	8
135	Investigation of structure property relationships in liquid processible, solvent free, thermally stable bismaleimide-triazine (BT) resins. <i>Reactive and Functional Polymers</i> , 2016, 102, 110-118.	4.1	8
136	Liquid Processable, Thermally Stable, Hydrophobic Phenolic Triazine Resins for Advanced Composite Applications. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1458-1465.	4.4	8
137	Methods for process-related resin selection and optimisation in high-pressure resin transfer moulding. <i>Materials Science and Technology</i> , 2019, 35, 327-335.	1.6	8
138	Improving Dispersion of Recycled Discontinuous Carbon Fibres to Increase Fibre Throughput in the HiPerDiF Process. <i>Materials</i> , 2020, 13, 1544.	2.9	8
139	A Systematic Examination of Colour Development in Synthetic Ultramarine According to Historical Methods. <i>PLoS ONE</i> , 2013, 8, e50364.	2.5	7
140	Examining the kinetics of the thermal polymerization of commercial aromatic bis-benzoxazines. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2068-2081.	2.3	7
141	On the use of benzaldehyde to improve the storage stability of one-pot, epoxy ionic liquid formulations. <i>European Polymer Journal</i> , 2019, 112, 126-136.	5.4	7
142	Measurement of the glass transition temperature of an epoxy resin using principal components of Raman spectra. <i>Composites Part B: Engineering</i> , 2020, 200, 108210.	12.0	7
143	Pseudo-ductile behaviour in fibre reinforced thermoplastic angle-ply composites. <i>Composites Science and Technology</i> , 2020, 197, 108261.	7.8	7
144	Validation of a smoothed particle hydrodynamics model for a highly aligned discontinuous fibre composites manufacturing process. <i>Composites Science and Technology</i> , 2020, 196, 108152.	7.8	7

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145	Prediction of Selected Physical and Mechanical Properties of a Telechelic Polybenzoxazine by Molecular Simulation. PLoS ONE, 2013, 8, e61179.	2.5	7
146	Preparation of metal-aromatic diamine complexes and their influence on the cure of a commercial epoxy resin. Polymer Bulletin, 1996, 36, 295-302.	3.3	6
147	Effects of thermal history on the polymerisation mechanism and network development in aromatic polybenzoxazines. Reactive and Functional Polymers, 2013, 73, 1612-1624.	4.1	6
148	Dramatic reductions in water uptake observed in novel POSS nanocomposites based on anhydride-cured epoxy matrix resins. Materials Today Communications, 2015, 4, 186-198.	1.9	6
149	Exploring Structure-Property Relationships in Aromatic Polybenzoxazines Through Molecular Simulation. Polymers, 2018, 10, 1250.	4.5	6
150	Recycling of fiber reinforced thermosetting composites. , 2021, , 561-595.		6
151	On the natural selection of high performance polymers. Arkivoc, 2022, 2021, 45-58.	0.5	6
152	Predicting Glass Transition Temperatures of Polyarylethersulphones Using QSPR Methods. PLoS ONE, 2012, 7, e38424.	2.5	6
153	Probing the cure of ¹³ C labelled bisphenol A dicyanate ester in carbon fibre reinforced composites using solid state ¹³ C NMR, SEM and FTIR. Polymer Bulletin, 1997, 38, 433-438.	3.3	5
154	The computer modelling and the chemical kinetics of the rate of cure of epoxy resins. Journal of Coatings Technology and Research, 1998, 81, 68-71.	0.2	5
155	Modelling the structural and physicomechanical properties of substituted poly(p-phenylene)s using molecular mechanical and molecular orbital methods. Polymer, 2002, 43, 4103-4110.	3.8	5
156	Simulation of the free energy of mixing for blend components in a new family of flexible polycyanurates. Polymer, 2010, 51, 5857-5868.	3.8	5
157	Developing toughened aromatic polybenzoxazines using thermoplastic oligomers and telechelics, part 1: Preparation and characterization of the functionalized oligomers. Journal of Applied Polymer Science, 2014, 131, .	2.6	5
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