

# Aijuan Gu

## List of Publications by Citations

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271  
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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
271	The production of carbon nanotube/epoxy composites with a very high dielectric constant and low dielectric loss by microwave curing. <i>Carbon</i> , <b>2012</b> , 50, 689-698	10.4	146
270	Effect of the surface roughness on interfacial properties of carbon fibers reinforced epoxy resin composites. <i>Applied Surface Science</i> , <b>2011</b> , 257, 4069-4074	6.7	138
269	Thermal degradation behaviour and kinetic analysis of epoxy/montmorillonite nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2003</b> , 80, 383-391	4.7	130
268	Multifunctional cyclotriphosphazene/hexagonal boron nitride hybrids and their flame retarding bismaleimide resins with high thermal conductivity and thermal stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 14931-44	9.5	125
267	Biobased Heat Resistant Epoxy Resin with Extremely High Biomass Content from 2,5-Furandicarboxylic Acid and Eugenol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7003-7011	8.3	125
266	Effect of amino-functionalization of multi-walled carbon nanotubes on the dispersion with epoxy resin matrix. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 97-104	2.9	105
265	Flame retardancy materials based on a novel fully end-capped hyperbranched polysiloxane and bismaleimide/diallylbisphenol A resin with simultaneously improved integrated performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6584		101
264	Preparation and properties of poly(urea-formaldehyde) microcapsules filled with epoxy resins. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 110, 417-425	4.4	101
263	Thermo-oxygen degradation mechanisms of POSS/epoxy nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2007</b> , 92, 1986-1993	4.7	100
262	Two-layer materials of polyethylene and a carbon nanotube/cyanate ester composite with high dielectric constant and extremely low dielectric loss. <i>Carbon</i> , <b>2013</b> , 54, 224-233	10.4	96
261	The effect of oxygen-plasma treatment on Kevlar fibers and the properties of Kevlar fibers/bismaleimide composites. <i>Applied Surface Science</i> , <b>2011</b> , 257, 3158-3167	6.7	90
260	The origin of the electric and dielectric behavior of expanded graphite-carbon nanotube/cyanate ester composites with very high dielectric constant and low dielectric loss. <i>Carbon</i> , <b>2012</b> , 50, 4995-5007	10.4	87
259	A novel inorganic-organic hybridized intumescent flame retardant and its super flame retarding cyanate ester resins. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2169-2182	13	84
258	Fabrication and origin of high-k carbon nanotube/epoxy composites with low dielectric loss through layer-by-layer casting technique. <i>Carbon</i> , <b>2015</b> , 85, 28-37	10.4	77
257	Thermal degradation behavior of multi-walled carbon nanotubes/polyamide 6 composites. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 2046-2052	4.7	74
256	Novel phosphorus-containing hyperbranched polysiloxane and its high performance flame retardant cyanate ester resins. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 597-608	4.7	73
255	Carbon nanotubes/cyanate ester composites with low percolation threshold, high dielectric constant and outstanding thermal property. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2010</b> , 41, 1321-1328	8.4	70

254	Effect of multi-walled carbon nanotubes on non-isothermal crystallization kinetics of polyamide 6. <i>European Polymer Journal</i> , <b>2006</b> , 42, 3230-3235	5.2	67
253	Heat-resistant polyurethane films with great electrostatic dissipation capacity and very high thermally reversible self-healing efficiency based on multi-furan and liquid multi-maleimide polymers. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4232-4241	13	66
252	A novel strategy of fabricating high performance UV-resistant aramid fibers with simultaneously improved surface activity, thermal and mechanical properties through building polydopamine and graphene oxide bi-layer coatings. <i>Chemical Engineering Journal</i> , <b>2017</b> , 310, 134-147	14.7	63
251	High-performance hexagonal boron nitride/bismaleimide composites with high thermal conductivity, low coefficient of thermal expansion, and low dielectric loss. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 919-928	3.2	61
250	High performance CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /cyanate ester composites with excellent dielectric properties and thermal resistance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2010</b> , 41, 1668-1676	8.4	60
249	New composites with high thermal conductivity and low dielectric constant for microelectronic packaging. <i>Polymer Composites</i> , <b>2010</b> , 31, 307-313	3	58
248	Novel preparation and mechanical properties of rigid polyurethane foam/organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 439-447	2.9	58
247	The effects of the variations of carbon nanotubes on the micro-tribological behavior of carbon nanotubes/bismaleimide nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2007</b> , 38, 1957-1964	8.4	56
246	Isothermal crystallization kinetics and melting behavior of multiwalled carbon nanotubes/polyamide-6 composites. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 3531-3542	2.9	55
245	Novel toughened cyanate ester resin with good dielectric properties and thermal stability by copolymerizing with hyperbranched polysiloxane and epoxy resin. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 710-717	3.2	53
244	Polymorphism of nylon-6 in multiwalled carbon nanotubes/nylon-6 composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 1499-1512	2.6	51
243	Novel low phosphorus-content bismaleimide resin system with outstanding flame retardancy and low dielectric loss. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 698-706	4.7	50
242	Unique hybridized graphene and its high dielectric constant composites with enhanced frequency stability, low dielectric loss and percolation threshold. <i>Carbon</i> , <b>2014</b> , 77, 920-932	10.4	49
241	Preparation and properties of novel high performance UV-curable epoxy acrylate/hyperbranched polysiloxane coatings. <i>Progress in Organic Coatings</i> , <b>2012</b> , 74, 142-150	4.8	49
240	Flame retardancy and flame retarding mechanism of high performance hyperbranched polysiloxane modified bismaleimide/cyanate ester resin. <i>Polymer Degradation and Stability</i> , <b>2011</b> , 96, 505-514	4.7	49
239	Facile Preparation of Hyperbranched Polysiloxane-Grafted Aramid Fibers with Simultaneously Improved UV Resistance, Surface Activity, and Thermal and Mechanical Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 2684-2696	3.9	48
238	Thermally Conductive Aluminum Nitride/Multiwalled Carbon Nanotube/Cyanate Ester Composites with High Flame Retardancy and Low Dielectric Loss. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3342-3353	3.9	48
237	New high performance transparent UV-curable poly(methyl methacrylate) grafted ZnO/silicone-acrylate resin composites with simultaneously improved integrated performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 396, 74-82	5.1	46

236	Surface functionalization of hexagonal boron nitride and its effect on the structure and performance of composites. <i>Applied Surface Science</i> , <b>2013</b> , 270, 561-571	6.7	46
235	Multi-functional ladderlike polysiloxane: synthesis, characterization and its high performance flame retarding bismaleimide resins with simultaneously improved thermal resistance, dimensional stability and dielectric properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7491-7501	13	45
234	Unique hybridized carbon nanotubes and their high performance flame retarding composites with high smoke suppression, good toughness and low curing temperature. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 4975-4988	13	44
233	Novel permittivity gradient carbon nanotubes/cyanate ester composites with high permittivity and extremely low dielectric loss. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14838		44
232	Lubrication Effect of the Paraffin Oil Filled with Functionalized Multiwalled Carbon Nanotubes for Bismaleimide Resin. <i>Tribology Letters</i> , <b>2011</b> , 42, 59-65	2.8	44
231	Improving the mechanical, thermal, dielectric and flame retardancy properties of cyanate ester with the encapsulated epoxy resin-penetrated aligned carbon nanotube bundle. <i>Composites Part B: Engineering</i> , <b>2017</b> , 123, 81-91	10	42
230	Developing Reversible Self-Healing and Malleable Epoxy Resins with High Performance and Fast Recycling through Building Cross-Linked Network with New Disulfide-Containing Hardener. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 12397-12406	3.9	42
229	A cyanate ester/microcapsule system with low cure temperature and self-healing capacity. <i>Composites Science and Technology</i> , <b>2013</b> , 87, 111-117	8.6	42
228	Developing high performance cyanate ester resin with significantly reduced postcuring temperature while improved toughness, rigidity, thermal and dielectric properties based on manganese-Schiff base hybridized graphene oxide. <i>Chemical Engineering Journal</i> , <b>2016</b> , 298, 214-224	14.7	42
227	Water-Phase Synthesis of a Biobased Allyl Compound for Building UV-Curable Flexible ThiolEne Polymer Networks with High Mechanical Strength and Transparency. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7902-7909	8.3	41
226	Building unique surface structure on aramid fibers through a green layer-by-layer self-assembly technique to develop new high performance fibers with greatly improved surface activity, thermal resistance, mechanical properties and UV resistance. <i>Applied Surface Science</i> , <b>2017</b> , 411, 34-45	6.7	40
225	Novel modification of bismaleimide triazine resin by reactive hyperbranched polysiloxane. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1859-1865	4.3	40
224	Biobased epoxy resin derived from eugenol with excellent integrated performance and high renewable carbon content. <i>Polymer International</i> , <b>2018</b> , 67, 1194-1202	3.3	39
223	Dielectric properties and mechanism of composites by superposing expanded graphite/cyanate ester layer with carbon nanotube/cyanate ester layer. <i>Composites Science and Technology</i> , <b>2014</b> , 91, 8-15	8.6	39
222	Developing self-healable and antibacterial polyacrylate coatings with high mechanical strength through crosslinking by multi-amine hyperbranched polysiloxane via dynamic vinylogous urethane. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16889-16897	13	39
221	Effect of morphology on the electric conductivity of binary polymer blends filled with carbon black. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 2008-2017	2.9	39
220	Characterization of hydroxyapatite-coated bacterial cellulose scaffold for bone tissue engineering. <i>Biotechnology and Bioprocess Engineering</i> , <b>2015</b> , 20, 948-955	3.1	38
219	Toughening of cyanate ester resin by carboxyl terminated nitrile rubber. <i>Polymers for Advanced Technologies</i> , <b>2004</b> , 15, 628-631	3.2	38

218	Flame Retarding Cyanate Ester Resin with Low Curing Temperature, High Thermal Resistance, Outstanding Dielectric Property, and Low Water Absorption for High Frequency and High Speed Printed Circuit Boards. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 1806-1815	3.9	36
217	The dielectric behavior and origin of high-k composites with very low percolation threshold based on unique multi-branched polyaniline/carbon nanotube hybrids and epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2014</b> , 64, 1-10	8.4	36
216	Bismaleimide/carbon nanotube hybrids for potential aerospace application: I. Static and dynamic mechanical properties. <i>Polymers for Advanced Technologies</i> , <b>2007</b> , 18, 835-840	3.2	36
215	High-k 3D-barium titanate foam/phenolphthalein poly(ether sulfone)/cyanate ester composites with frequency-stable dielectric properties and extremely low dielectric loss under reduced concentration of ceramics. <i>Applied Surface Science</i> , <b>2018</b> , 427, 1046-1054	6.7	35
214	A reconfiguring and self-healing thermoset epoxy/chain-extended bismaleimide resin system with thermally dynamic covalent bonds. <i>Polymer</i> , <b>2018</b> , 147, 170-182	3.9	35
213	Synergistically building flame retarding thermosetting composites with high toughness and thermal stability through unique phosphorus and silicone hybridized graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 98, 174-183	8.4	34
212	The effect of morphology on the optical properties of transparent epoxy/montmorillonite composites. <i>Polymer International</i> , <b>2004</b> , 53, 85-91	3.3	34
211	Greatly improving energy storage density and reducing dielectric loss of carbon nanotube/cyanate ester composites through building a unique tri-layered structure with mica paper. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21909-21918	13	33
210	Flame Retardancy and Mechanism of Bismaleimide Resins Based on a Unique Inorganic/Organic Hybridized Intumescent Flame Retardant. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 15075-15087	3.9	33
209	Unique surface modified aramid fibers with improved flame retardancy, tensile properties, surface activity and UV-resistance through in situ formation of hyperbranched polysiloxane/Fe <sub>0.8</sub> Ca <sub>0.2</sub> O <sub>1.8</sub> hybrids. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12515-12529	13	32
208	Improving dispersion of multiwalled carbon nanotubes in polyamide 6 composites through amino-functionalization. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 2898-2906	2.9	32
207	Synthesis of TiO <sub>2</sub> pillared montmorillonite with ordered interlayer mesoporous structure and high photocatalytic activity by an intra-gallery templating method. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 3948-3954	5.1	31
206	Building a poly(epoxy propylimidazolium ionic liquid)/graphene hybrid through $\pi$ - $\pi$ interaction for fabricating high-k polymer composites with low dielectric loss and percolation threshold. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3175-3184	7.1	31
205	Thermally resistant thermadappt shape memory crosslinked polymers based on silyl ether dynamic covalent linkages for self-folding and self-deployable smart 3D structures. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9736-9747	13	30
204	High-k Materials with Low Dielectric Loss Based on Two Superposed Gradient Carbon Nanotube/Cyanate Ester Composites. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 15487-15495	3.8	30
203	The influence of the short-term ultraviolet radiation on the structure and properties of poly(p-phenylene terephthalamide) fibers. <i>Applied Surface Science</i> , <b>2013</b> , 265, 519-526	6.7	30
202	Polyaniline coated carbon nanotube/graphene sandwich hybrid and its high-k epoxy composites with low dielectric loss and percolation threshold. <i>Applied Surface Science</i> , <b>2015</b> , 359, 754-765	6.7	29
201	Properties and origins of high-performance poly(phenylene oxide)/cyanate ester resins for high-frequency copper-clad laminates. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 1675-1684	2.9	29

200	Facile Preparation and Origin of High-k Carbon Nanotube/Poly(Ether Imide)/Bismaleimide Composites through Controlling the Location and Distribution of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24091-24101	3.8	28
199	Preparation of hydrogel by radiation for the healing of diabetic ulcer. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 94, 176-180	2.5	28
198	Green flame retarding bismaleimide resin with simultaneously good processing characteristics, high toughness and outstanding thermal stability based on a multi-functional organic boron compound. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 118, 33-44	4.7	27
197	Boost up dielectric constant and push down dielectric loss of carbon nanotube/cyanate ester composites via gradient and layered structure design. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23162-23169	13.1	27
196	Development and mechanism of ultralow dielectric loss and toughened bismaleimide resins with high heat and moisture resistance based on unique amino-functionalized metal-organic frameworks. <i>Composites Part B: Engineering</i> , <b>2018</b> , 132, 28-34	10	27
195	Chestnut Honey Impregnated Carboxymethyl Cellulose Hydrogel for Diabetic Ulcer Healing. <i>Polymers</i> , <b>2017</b> , 9,	4.5	27
194	Liquid crystalline epoxy resin modified cyanate ester for high performance electronic packaging. <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 1441-1450	2.7	27
193	Fabrication and origin of new flame retarding bismaleimide resin system with low dielectric constant and loss based on microencapsulated hexaphenoxycyclotriphosphazene in low phosphorus content. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 157-170	4.7	26
192	Dispersing carbon nanotubes in the unfavorable phase of an immiscible reverse-phase blend with Haake instrument to fabricate high- k nanocomposites with extremely low dielectric loss and percolation threshold. <i>Chemical Engineering Journal</i> , <b>2016</b> , 285, 650-659	14.7	26
191	The thermal and dielectric properties of high performance cyanate ester resins/microcapsules composites. <i>Polymer Degradation and Stability</i> , <b>2011</b> , 96, 84-90	4.7	26
190	New glass fiber/bismaleimide composites with significantly improved flame retardancy, higher mechanical strength and lower dielectric loss. <i>Composites Part B: Engineering</i> , <b>2015</b> , 71, 96-102	10	25
189	Unique UV-resistant and surface active aramid fibers with simultaneously enhanced mechanical and thermal properties by chemically coating Ce <sub>0.8</sub> Ca <sub>0.2</sub> O <sub>1.8</sub> having low photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11286	13	25
188	Preparation and properties of hollow silica tubes/cyanate ester hybrids for high-frequency copper-clad laminates. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 1571-1580	4.3	25
187	Novel modification of cyanate ester by epoxidized polysiloxane. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 2020-2026	2.9	25
186	Novel high performance RTM bismaleimide resin with low cure temperature for advanced composites. <i>Polymers for Advanced Technologies</i> , <b>2005</b> , 16, 563-566	3.2	25
185	Biobased bismaleimide resins with high renewable carbon content, heat resistance and flame retardancy via a multi-functional phosphate from clove oil. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 78-85	7.8	24
184	Preparation and mechanism of shape memory bismaleimide resins with high transition temperature, high toughness and good processability. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 10798-10811	11.3	24
183	High Performance Miscible Polyetherimide/Bismaleimide Resins with Simultaneously Improved Integrated Properties Based on a Novel Hyperbranched Polysiloxane Having a High Degree of Branching. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5054-5065	3.9	24

182	Novel hyperbranched polyphenylsilsesquioxane-modified cyanate ester resins with improved toughness and stiffness. <i>Polymer International</i> , <b>2011</b> , 60, 1277-1286	3.3	24
181	High performance hybrids based on a novel incompletely condensed polyhedral oligomeric silsesquioxane and bismaleimide resin with improved thermal and dielectric properties. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 2548-2558	4.3	23
180	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> electrospun fibre: A new form of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> and its dielectric property. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 549, 11-17	5.7	23
179	Preparation and Characterization of Resorbable Bacterial Cellulose Membranes Treated by Electron Beam Irradiation for Guided Bone Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	23
178	A facile and green preparation of poly(glycidyl methacrylate) coated aramide fibers. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8960		23
177	Optimizing Ply Pattern and Composition of Layered Composites based on Cyanate Ester, Carbon Nanotube, and Boron Nitride: Toward Ultralow Dielectric Loss and High Energy Storage. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5238-5247	3.8	22
176	Interface and its effect on the interlaminar shear strength of novel glass fiber/hyperbranched polysiloxane modified maleimide-triazine resin composites. <i>Applied Surface Science</i> , <b>2011</b> , 258, 572-579	6.7	22
175	The Effect of Thickness of Resorbable Bacterial Cellulose Membrane on Guided Bone Regeneration. <i>Materials</i> , <b>2017</b> , 10,	3.5	21
174	Tough epoxy/cyanate ester resins with improved thermal stability, lower dielectric constant and loss based on unique hyperbranched polysiloxane liquid crystalline. <i>Polymers for Advanced Technologies</i> , <b>2015</b> , 26, 1608-1618	3.2	21
173	Dielectric properties and their dependence of polyetherimide/bismaleimide blends for high performance copper clad laminates. <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 1459-1467	2.7	21
172	Surface-modifiers of clay on mechanical properties of rigid polyurethane foams/organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 2988-2995	2.9	21
171	Simultaneously achieving superior foldability, mechanical strength and toughness for transparent healable polysiloxane films through building hierarchical crosslinked networks and dual dynamic bonds. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23425-23434	1.3	21
170	High performance cyanate ester resins/reactive porous polymeric microsphere systems with low-temperature processability. <i>Composites Science and Technology</i> , <b>2013</b> , 85, 148-155	8.6	20
169	Preparation and properties of cyanate ester/polyorganosiloxane blends with lower dielectric loss and improved toughness. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 262-269	3.2	20
168	Preparation and properties of transparent zinc oxide/silicone nanocomposites for the packaging of high-power light-emitting diodes. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 2018-2028	2.9	20
167	Curing behavior and dielectric properties of hyperbranched poly(phenylene oxide)/cyanate ester resins. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 2113-2122	2.9	20
166	Novel tough and thermally stable cyanate ester resins with high flame retardancy, low dielectric loss and constant based on a phenolphthalein type polyarylether sulfone. <i>RSC Advances</i> , <b>2015</b> , 5, 58989-59002	3.7	19
165	Unique liquid multi-maleimide terminated branched polysiloxane and its flame retarding bismaleimide resin with outstanding thermal and mechanical properties. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 30-41	4.7	19

164	Unique pure barium titanate foams with three-dimensional interconnecting pore channels and their high-k cyanate ester resin composites at very low barium titanate loading. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 10654-10663	7.1	19
163	Low-cost and facile fabrication of titanium dioxide coated oxidized titanium diboride/epoxy resin composites with high dielectric constant and extremely low dielectric loss. <i>RSC Advances</i> , <b>2013</b> , 3, 7071	3.7	19
162	Preparation and properties of novel resins based on cyanate ester and hyperbranched polysiloxane. <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 139-149	2.7	19
161	Toughening Bismaleimide Resins by N-Allyl Aromatic Amine. <i>Polymer Journal</i> , <b>1997</b> , 29, 553-556	2.7	19
160	Preparation of End-Capped Hyperbranched Polyaniline@Carbon Nanotube Hybrids for High-k Composites with Extremely Low Percolation Threshold and Dielectric Loss. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4726-4731	3.9	18
159	The interaction between unique hyperbranched polyaniline and carbon nanotubes, and its influence on the dielectric behavior of hyperbranched polyaniline/carbon nanotube/epoxy resin composites. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	18
158	Low-Cost Preparation of High-k Expanded Graphite/Carbon Nanotube/Cyanate Ester Composites with Low Dielectric Loss and Low Percolation Threshold. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 2661-2672	3.9	18
157	The origin of the curing behavior, mechanical and thermal properties of surface functionalized attapulgite/bismaleimide/diallylbisphenol composites. <i>Applied Surface Science</i> , <b>2014</b> , 288, 435-443	6.7	18
156	A facile method to prepare zirconia electrospun fibers with different morphologies and their novel composites based on cyanate ester resin. <i>RSC Advances</i> , <b>2012</b> , 2, 1364-1372	3.7	18
155	Gamma Ray-Induced Polymerization and Cross-Linking for Optimization of PPy/PVP Hydrogel as Biomaterial. <i>Polymers</i> , <b>2020</b> , 12,	4.5	18
154	Percolative polymer composites for dielectric capacitors: a brief history, materials, and multilayer interface design. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18515-18537	13	18
153	Mechanically durable and self-healing super-hydrophobic coating with hierarchically structured KH570 modified SiO <sub>2</sub> -decorated aligned carbon nanotube bundles. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127263	14.7	18
152	Preparation of high performance bio-based benzoxazine resin through a green solvent-free strategy for shape memory application. <i>Polymer</i> , <b>2020</b> , 202, 122673	3.9	17
151	Synthesis and characterization of novel epoxy resins-filled microcapsules with organic/inorganic hybrid shell for the self-healing of high performance resins. <i>Polymers for Advanced Technologies</i> , <b>2016</b> , 27, 1544-1556	3.2	17
150	Fabrication and origin of flame retarding glass fiber/bismaleimide resin composites with high thermal stability, good mechanical properties, and a low dielectric constant and loss for high frequency copper clad laminates. <i>RSC Advances</i> , <b>2016</b> , 6, 19638-19646	3.7	17
149	Hyperbranched polyaniline: A new conductive polyaniline with simultaneously good solubility and super high thermal stability. <i>Materials Letters</i> , <b>2014</b> , 115, 159-161	3.3	17
148	Promotion of human mesenchymal stem cell differentiation on bioresorbable polycaprolactone/biphasic calcium phosphate composite scaffolds for bone tissue engineering. <i>Biotechnology and Bioprocess Engineering</i> , <b>2014</b> , 19, 341-349	3.1	17
147	Synthesis of epoxy-functionalized hyperbranched poly(phenylene oxide) and its modification of cyanate ester resin. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 2351-2359	2.9	17



146	Synthesis and characterization of zinc chloride containing poly(acrylic acid) hydrogel by gamma irradiation. <i>Radiation Physics and Chemistry</i> , <b>2013</b> , 88, 60-64	2.5	17
145	Carboxyl-terminated butadiene-acrylonitrile rubber modified cyanate ester resin. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 3098-3104	2.9	17
144	Flame-retardant cyanate ester resin with suppressed toxic volatiles based on environmentally friendly halloysite nanotube/graphene oxide hybrid. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46587-9	7.9	16
143	Preparation and origin of thermally resistant biobased epoxy resin with low internal stress and good UV resistance based on SiO <sub>2</sub> hybridized cellulose for light emitting diode encapsulation. <i>Applied Surface Science</i> , <b>2018</b> , 447, 315-324	6.7	16
142	Poly(phenylene oxide) modified cyanate resin for self-healing. <i>Polymers for Advanced Technologies</i> , <b>2014</b> , 25, 752-759	3.2	16
141	Improving thermal stability and mechanical performance of polypropylene/polyurethane blend prepared by radiation-based techniques. <i>European Polymer Journal</i> , <b>2017</b> , 94, 366-375	5.2	16
140	Preparation of high thermal conductive aluminum nitride/cyanate ester nanocomposite using a new macromolecular coupling agent. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1503-1510	3.2	16
139	Effect of multi-walled carbon nanotubes dispersity on the light transmittancy of multi-walled carbon nanotubes/epoxy composites. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 635-642	2.3	16
138	Preparation and properties of a novel high-performance resin system with low injection temperature for resin transfer moulding. <i>Polymer International</i> , <b>2004</b> , 53, 1388-1393	3.3	16
137	Study on the structure and properties of cyanate ester/bentonite nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 96, 632-637	2.9	16
136	Unique Li <sub>0.3</sub> Ti <sub>0.02</sub> Ni <sub>0.68</sub> O-carbon nanotube hybrids: Synthesis and their epoxy resin composites with remarkably higher dielectric constant and lower dielectric loss. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 602, 16-25	5.7	15
135	Preparation of high k expanded graphite/CaCuTi <sub>4</sub> O <sub>12</sub> /cyanate ester composites with low dielectric loss through controlling the interfacial action between conductors and ceramics. <i>Composites Part B: Engineering</i> , <b>2014</b> , 58, 66-75	10	15
134	Novel high-performance wave-transparent aluminum phosphate/cyanate ester composites. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 1576-1583	2.9	15
133	A novel hybrid catalyst system and its effects on the curing, thermal, and dielectric properties of cyanate ester. <i>Polymer Engineering and Science</i> , <b>2011</b> , 51, 2236-2244	2.3	15
132	Curing kinetics and mechanism of novel high performance hyperbranched polysiloxane/bismaleimide/cyanate ester resins for resin transfer molding. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 304-312	2.9	15
131	A novel organic rectorite modified bismaleimide/diallylbisphenol A system. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 20, 826-833	3.2	15
130	Structure and properties of multiwalled carbon nanotubes/cyanate ester composites. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 670-679	2.3	15
129	Thermal stability and kinetics analysis of rubber-modified epoxy resin by high-resolution thermogravimetric analysis. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 3594-3600	2.9	15

128	High thermal conductivity and flame-retardant phosphorus-free bismaleimide resin composites based on 3D porous boron nitride framework. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 7651-7664	4.3	14
127	High performance low-k cyanate ester resins with a thermally stable cyclodextrin microsphere. <i>RSC Advances</i> , <b>2014</b> , 4, 16136-16145	3.7	14
126	Novel polyphenylene oxide microcapsules filled with epoxy resins. <i>Polymers for Advanced Technologies</i> , <b>2013</b> , 24, 81-89	3.2	14
125	A Novel Hyperbranched Polysiloxane Containing Epoxy and Phosphaphenanthrene Groups and its Multi-Functional Modification of Cyanate Ester Resin. <i>Soft Materials</i> , <b>2013</b> , 11, 346-352	1.7	14
124	Synthesis of mesoporous silica and its modification of bismaleimide/cyanate ester resin with improved thermal and dielectric properties. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 454-462	3.2	14
123	High performance self-healing bismaleimide/diallylbisphenol a/poly(phenylene oxide) microcapsules composites with low temperature processability. <i>Polymer Composites</i> , <b>2013</b> , 34, 335-342	3	14
122	Origin of Increasing Dielectric Constant at Lower Percolation Threshold through Controlling Spatial Distribution of Carbon Nanotubes in Epoxy Resin with Microwave-Assisted Thermal Curing Technique. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 28875-28885	3.8	14
121	Developing thermally resistant polydopamine@nano turbostratic BN@CeO <sub>2</sub> double core-shell ultraviolet absorber with low light-catalysis activity and its grafted high performance aramid fibers. <i>Applied Surface Science</i> , <b>2018</b> , 452, 389-399	6.7	14
120	Preparation and Mechanism of High Energy Density Cyanate Ester Composites with Ultralow Loss Tangent and Higher Permittivity through Building a Multilayered Structure with Conductive, Dielectric, and Insulating Layers. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13482-13490	3.8	13
119	A strategy and mechanism of fabricating flame retarding glass fiber fabric reinforced vinyl ester composites with simultaneously improved thermal stability, impact and interlaminar shear strengths. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 125, 49-58	4.7	13
118	Synthesis of poly(urea-formaldehyde) encapsulated dibutyltin dilaurate through the self-catalysis of core materials. <i>Polymer Bulletin</i> , <b>2014</b> , 71, 261-273	2.4	13
117	Radiation-induced biomimetic modification of dual-layered nano/microfibrous scaffolds for vascular tissue engineering. <i>Biotechnology and Bioprocess Engineering</i> , <b>2014</b> , 19, 118-125	3.1	13
116	Synthesis of mesoporous iron-incorporated silica-pillared clay and catalytic performance for phenol hydroxylation. <i>Applied Surface Science</i> , <b>2013</b> , 285, 721-726	6.7	13
115	Facile Synthesis and Catalytic Performance of Fe-Containing Silica-Pillared Clay Derivatives with Ordered Interlayer Mesoporous Structure. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 15593-15600	3.9	13
114	Preparation and properties of hollow silica tubes/bismaleimide/diallylbisphenol A composites with improved toughness, dielectric properties, and flame retardancy. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 326-335	3.2	13
113	Modified cyanate ester resins with lower dielectric loss, improved thermal stability, and flame retardancy. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2617-2625	3.2	13
112	Characterization of silver nanoparticle in the carboxymethyl cellulose hydrogel prepared by a gamma ray irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 743-7	1.3	13
111	Effect of bentonite on the structure and mechanical properties of CE/CTBN system. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 4603-4608	4.3	13

110	Orientating carbon nanotube bundles and barium titanate nanofibers in tri-layer structure to develop high energy density epoxy resin composites with greatly improved dielectric constant and breakdown strength. <i>Composites Part B: Engineering</i> , <b>2019</b> , 173, 107030	10	12
109	Development and Mechanism of High-Performance Fully Biobased Shape Memory Benzoxazine Resins with a Green Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 18696-18705	8.3	12
108	Preparation and properties of addition curable silicone resins with excellent dielectric properties and thermal resistance. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 259-267	2.3	12
107	High efficiency synthesis of octavinylsilsesquioxanes and its high performance hybrids based on bismaleimide-triazine resin. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1219-1228	3.2	12
106	Characterization and structure analysis of PLGA/collagen nanofibrous membranes by electrospinning. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E595-E603	2.9	12
105	Preparation of high performance foams with excellent dielectric property based on toughened bismaleimide resin. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1731-1737	3.2	12
104	Improved microhardness and microtribological properties of bismaleimide nanocomposites obtained by enhancing interfacial interaction through carbon nanotube functionalization. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 20, 849-856	3.2	12
103	Fabrication of In Situ Nanofiber-Reinforced Molecular Composites by Nonequilibrium Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39293-39306	9.5	12
102	Mechanism of greatly increasing dielectric constant at lower percolation thresholds for epoxy resin composites through building three-dimensional framework from polyvinylidene fluoride and carbon nanotubes. <i>Composites Part B: Engineering</i> , <b>2019</b> , 171, 146-153	10	11
101	Flame Retarding High-k Composites with Low Dielectric Loss Based on Unique Multifunctional Coated Multiwalled Carbon Nanotubes and Cyanate Ester. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 938-948	3.9	11
100	Effect and origin of the structure of hyperbranched polysiloxane on the surface and integrated performances of grafted Kevlar fibers. <i>Applied Surface Science</i> , <b>2014</b> , 320, 883-894	6.7	11
99	Preparation and properties of high-performance polysilsesquioxanes/bismaleimide-triazine hybrids. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 360-367	2.9	11
98	Aminofunctionalization effect on the microtribological behavior of carbon nanotube/bismaleimide nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 3484-3491	2.9	11
97	Novel preparation of glass fiber reinforced polytetrafluoroethylene composites for application as structural materials. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 20, 39-42	3.2	11
96	Novel high performance copper clad laminates based on bismaleimide/aluminium borate whisker hybrid matrix. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 103, 1325-1331	2.9	11
95	Structure and properties of CE/CTBN/EP blends: II. Effect of EP on the mechanical properties and thermostability of the CE/CTBN system. <i>Polymer International</i> , <b>2005</b> , 54, 369-373	3.3	11
94	High-Temperature Triple-Shape Memory Polymer with Full Recovery through Cross-Linking All-Aromatic Liquid Crystalline Poly(ester imide) under Reduced Molding Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> ,	3.9	10
93	Tough Silica-Hybridized Epoxy Resin/Anhydride System with Good Corona Resistance and Thermal Stability for Permanent Magnet Synchronous Wind-Driven Generators through Vacuum Pressure Impregnation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7102-7112	3.9	10

92	Synthesis of a fully capped mesoporous silica and its hybrids with extremely low dielectric constant and loss. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 176, 199-208	5.3	10
91	Synthesis and properties of hyaluronic acid containing copolymers crosslinked by $\gamma$ irradiation. <i>Macromolecular Research</i> , <b>2011</b> , 19, 436-441	1.9	10
90	Facile strategy and mechanism of greatly toughening epoxy resin using polyethersulfone through controlling phase separation with microwave-assisted thermal curing technique. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48394	2.9	10
89	Progress of heat resistant dielectric polymer nanocomposites with high dielectric constant. <i>IET Nanodielectrics</i> , <b>2018</b> , 1, 67-79	2.8	10
88	Phosphorus-free boron nitride/cerium oxide hybrid: A synergistic flame retardant and smoke suppressant for thermally resistant cyanate ester resin. <i>Polymers for Advanced Technologies</i> , <b>2019</b> , 30, 2340-2352	3.2	9
87	Tailoring the structure of aligned carbon nanotube bundle by reactive polymer for strengthening its surface interaction with thermosets and the excellent properties of the hybrid thermosets. <i>Applied Surface Science</i> , <b>2018</b> , 439, 638-648	6.7	9
86	Low-temperature cure high-performance cyanate ester resins/microencapsulated catalyst systems. <i>Polymer Engineering and Science</i> , <b>2013</b> , 53, 1871-1877	2.3	9
85	Preparation and properties of maleimide-functionalized hyperbranched polysiloxane and its hybrids based on cyanate ester resin. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 126, 205-215	2.9	9
84	Preparation and properties of new high performance maleimide-triazine resins for resin transfer molding. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1572-1580	3.2	9
83	High-performance hyperbranched poly(phenylene oxide) modified bismaleimide resin with high thermal stability, low dielectric constant and loss. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 451-457	2.9	9
82	Significantly improving mechanical, thermal and dielectric properties of cyanate ester resin through building a new crosslinked network with unique polysiloxane@polyimide core-shell microspheres. <i>RSC Advances</i> , <b>2016</b> , 6, 40962-40969	3.7	9
81	Simultaneously toughening and strengthening cyanate ester resin with better dielectric properties by building nanostructures in its crosslinked network using polyimide-block-polysiloxane rod-coil block copolymers. <i>RSC Advances</i> , <b>2016</b> , 6, 49436-49447	3.7	9
80	Building and origin of bio-based bismaleimide resins with good processability, high thermal, and mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45947	2.9	9
79	Construction of nickel-doped cobalt hydroxides hexagonal nanoplates for advanced oxygen evolution electrocatalysis. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 553, 713-719	9.3	8
78	Preparation of High Density Polyethylene/Waste Polyurethane Blends Compatibilized with Polyethylene-Graft-Maleic Anhydride by Radiation. <i>Materials</i> , <b>2015</b> , 8, 1626-1635	3.5	8
77	Achieving ultrahigh glass transition temperature, halogen-free and phosphorus-free intrinsic flame retardancy for bismaleimide resin through building network with diallyloxydiphenyldisulfide. <i>Polymer</i> , <b>2020</b> , 203, 122769	3.9	8
76	Tough and thermally resistant cyanate ester resin with significantly reduced curing temperature and low dielectric loss based on developing an efficient graphene oxide/Mn ion metal-organic framework hybrid. <i>RSC Advances</i> , <b>2016</b> , 6, 3290-3300	3.7	8
75	Preparation and evaluation of $\beta$ -glucan hydrogel prepared by the radiation technique for drug carrier applications. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 118, 333-339	7.9	8

74	Self-constructed nanodomain structure in thermosetting blend based on the dynamic reactions of cyanate ester and epoxy resins and its related property. <i>Composites Part B: Engineering</i> , <b>2019</b> , 177, 107438	10	8
73	Fabrication and origin of asymmetric polyvinylidene fluoride-carbon nanotube/cyanate ester materials with high dielectric constant and low dielectric loss through building double-layered structure. <i>High Voltage</i> , <b>2017</b> , 2, 32-38	4.1	8
72	Vocal Fold Augmentation with Beta Glucan Hydrogel Cross-Linked by $\gamma$ Irradiation for Enhanced Duration of Effect: In Vivo Animal Study. <i>BioMed Research International</i> , <b>2015</b> , 2015, 592372	3	8
71	Investigation of correlation between microstructure and dielectric properties of cyanate ester/silicate tube hybrids by positron annihilation lifetime spectroscopy. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1121-1128	3.2	8
70	Biodegradable polycaprolactone/cuttlebone scaffold composite using salt leaching process. <i>Korean Journal of Chemical Engineering</i> , <b>2012</b> , 29, 931-934	2.8	8
69	Characterization of an antibacterial silver chloride/poly(acrylic acid) deodorant prepared by a gamma-ray irradiation. <i>Macromolecular Research</i> , <b>2009</b> , 17, 813-816	1.9	8
68	Curing behavior and kinetic analysis of epoxy resin/multi-walled carbon nanotubes composites. <i>Frontiers of Materials Science in China</i> , <b>2007</b> , 1, 415-422		8
67	Simultaneously achieving high strength, thermal resistance and high self-healing efficiency for polyacrylate coating by constructing a Diels-Alder reversible covalent structure with multi-maleimide terminated hyperbranched polysiloxane. <i>Polymer International</i> , <b>2020</b> , 69, 110-120	3.3	8
66	Heat-resistant and robust biobased benzoxazine resins developed with a green synthesis strategy. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 432-438	4.9	8
65	Development of high performance dental resin composites with outstanding antibacterial activity, high mechanical properties and low polymerization shrinkage based on a SiO <sub>2</sub> hybridized tetrapod-like zinc oxide whisker with CC bonds. <i>RSC Advances</i> , <b>2016</b> , 6, 56353-56364	3.7	7
64	Cure kinetics of cyanate ester resin using microencapsulated dibutyltin dilaurate as catalyst. <i>Polymer Bulletin</i> , <b>2017</b> , 74, 1011-1030	2.4	7
63	Novel high performance functionalized ladderlike polyphenylsilsesquioxane/bismaleimide hybrids with very good flame retardancy, thermal, and dimensional stability. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7649-7659	4.3	7
62	Superhydrophobic and self-healable tri-layered composites with great thermal resistance and electrothermal ability. <i>Composites Communications</i> , <b>2020</b> , 21, 100397	6.7	6
61	Aramid fibre-based wearable electrochemical capacitors with high energy density and mechanical properties through chemical synergistic combination of multi-coatings. <i>Electrochimica Acta</i> , <b>2018</b> , 284, 149-158	6.7	6
60	Facile Synthesizing Ethynyl Terminated All-Aromatic Liquid Crystalline Poly(esterimide)s with Good Processability and Thermal Resistance under Medium-Low Temperature via Direct Esterification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 7090-7098	3.9	6
59	New Bismaleimide Resin Toughened by In Situ Ring-Opening Polymer of Cyclic Butylene Terephthalate Oligomer with Unique Organotin Initiator. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 5948-5958	3.9	6
58	Fabrication of SiO <sub>2</sub> covered ZrO <sub>2</sub> electrospun fibres with controllable structure and their novel high-performance composites with outstanding thermal, mechanical and dielectric properties. <i>Journal of Composite Materials</i> , <b>2014</b> , 48, 3201-3214	2.7	6
57	Properties and structures of novel cyanate ester/organic rectorite nanocomposites. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 2443-2453	2.3	6

56	Improving tribological properties of bismaleimide nanocomposite filled with carbon nanotubes treated by atmospheric pressure filamentary dielectric barrier discharge. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 2117-2122	10	6
55	Solventless silicone hybrids based on polyhedral oligomeric silsesquioxane and hyperbranched polysiloxane for vacuum pressure impregnation process. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2415-2423	3.2	6
54	Preparation and characterization of novel cyanate ester/epoxy resin microspheres. <i>Colloid and Polymer Science</i> , <b>2010</b> , 288, 719-729	2.4	6
53	Study of ultrafiltration membrane made from polyvinyl chloride/polyacrylonitrile blend. <i>Polymer-Plastics Technology and Engineering</i> , <b>2001</b> , 40, 615-625		6
52	Facile strategy and mechanism of preparing high performance intrinsic flame retarding foams based on reactive end-capped liquid crystalline all-aromatic polyester without incorporating additional flame retardants. <i>Composites Part B: Engineering</i> , <b>2020</b> , 181, 107554	10	6
51	Preparation and property of epoxy resins-penetrated aligned carbon nanotube bundle hybrid microcapsules for self-healing polymers. <i>High Performance Polymers</i> , <b>2017</b> , 29, 396-410	1.6	5
50	Multifunctional epoxy resin/polyacrylonitrile-lithium trifluoromethanesulfonate composites films with very high transparency, high dielectric permittivity, breakdown strength and mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45218	2.9	5
49	Enhanced thermal and dielectric properties of hybrid organic/inorganic shell microcapsule/thermosetting resin nanocomposites. <i>Polymer International</i> , <b>2017</b> , 66, 1940-1948	3.3	5
48	Significantly enhanced dielectric properties and energy storage density for high-k cyanate ester nanocomposites through building good dispersion of pristine carbon nanotubes in a matrix based on in situ non-covalent interaction with phenolphthalein poly(ether sulfone). <i>RSC Advances</i> , <b>2015</b> , 5, 94635-94644	3.7	5
47	High-performance wearable asymmetric electrochemical capacitors based on composite aramid nonwovens with unique surface architecture. <i>Applied Surface Science</i> , <b>2020</b> , 517, 146222	6.7	5
46	The relationship between the compatibility and thermodegradation stability of modified polyetherimide/bismaleimide resins by hyperbranched polysiloxane with high degree of branching. <i>Polymers for Advanced Technologies</i> , <b>2013</b> , 24, 1051-1061	3.2	5
45	Effects of a radiation crosslinking on a drawn microporous HDPE film with a nucleating agent. <i>Macromolecular Research</i> , <b>2009</b> , 17, 580-584	1.9	5
44	Thermal and Mechanical Performances of Diallyl Phthalate/Clay Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , <b>2006</b> , 45, 957-961		5
43	Structure-Property Correlation for Optically Transparent Epoxy/Montmorillonite Hybrids. I. Synthesis and Optical/Thermal Properties. <i>Polymer-Plastics Technology and Engineering</i> , <b>2003</b> , 42, 899-910		5
42	Radiation-Induced Grafting with One-Step Process of Waste Polyurethane onto High-Density Polyethylene. <i>Materials</i> , <b>2015</b> , 9,	3.5	5
41	Development of Styrene-Grafted Polyurethane by Radiation-Based Techniques. <i>Materials</i> , <b>2016</b> , 9,	3.5	5
40	Surface-covalent functionalized graphene oxide sheets with hyperbranched polysiloxane and Mn ion for cyanate ester resin: Towards lower curing temperature and higher performance. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 234, 67-74	4.4	4
39	An in situ (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> -doped barium titanate foam framework and its cyanate ester resin composites with temperature-stable dielectric properties and low dielectric loss. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 726-736	7.8	4



20	Thermally resistant and strong remoldable triple-shape memory thermosets based on bismaleimide with transesterification. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 3623-3637	4.3	2
19	Modulation and mechanism of spatial structure for multi-layer cyanate ester resin composites to achieve remarkably increased energy storage density and decreased dielectric loss. <i>Journal of Composite Materials</i> , <b>2021</b> , 55, 465-474	2.7	2
18	Radiation-Based Crosslinking Technique for Enhanced Thermal and Mechanical Properties of HDPE/EVA/PU Blends. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
17	Reactive Polymer-Functionalized Aligned Multiwalled Carbon Nanotube Bundles-Induced Porous Poly(ethylene terephthalate) Fibers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 10328-10340	3.9	1
16	In situ vacuum exfoliation plus microwave curing: A facile and green technique for preparing polymeric composites with very good dispersion based on expanded graphite. <i>Polymer Composites</i> , <b>2015</b> , 36, 385-388	3	1
15	Dielectric Polymer Materials with High Thermal Stability <b>2018</b> , 383-427		1
14	Modulating topological structure of carbon nanotube/cyanate ester-boron nitride/cyanate ester multi-layered composites for enhancing dielectric properties, breakdown strength and energy density. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 15952-15963	2.1	1
13	???. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 11, 64-71	4.5	1
12	The synthesis of porous crosslinked poly(phenylene oxide)-epoxy polymer microspheres. <i>Materials Letters</i> , <b>2013</b> , 95, 114-116	3.3	1
11	Poly(acrylic acid)/polyethylene glycol hydrogel prepared by using gamma-ray irradiation for mucosa adhesion. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 66, 17-21	0.6	1
10	Flame retardance and origin of bismaleimide resin composites with green and efficient aluminum phosphates. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	1
9	Novel fiber reinforced bismaleimide/diallyl bisphenol A/microcapsules composites. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2264-2272	3.2	1
8	New approach to fabricate densificated continuous fiber reinforced polytetrafluoroethylene composites with significantly improved interfacial bonding and mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 3588-3591	2.9	1
7	Getting self-healing ability and ultra-low dielectric loss for high-k epoxy resin composites through building networks based on Li <sub>0.3</sub> Ti <sub>0.02</sub> Ni <sub>0.68</sub> O grafted carbon nanotube bundles with unique surface architecture. <i>Applied Surface Science</i> , <b>2021</b> , 536, 147955	6.7	1
6	Preparation and Characterization of Ionic Conductive Poly(acrylic Acid)-Based Silicone Hydrogels for Smart Drug Delivery System. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
5	Developing thermally resistant and strong biobased resin from benzoxazine synthesized using green solvents. <i>European Polymer Journal</i> , <b>2022</b> , 173, 111320	5.2	1
4	Flexible, transparent, strong and high dielectric constant composite film based on polyionic liquid coated silver nanowire hybrid. <i>Applied Surface Science</i> , <b>2022</b> , 576, 151827	6.7	0
3	Reprocessible Triple-Shape-Memory Liquid Crystalline Polyester Amide with Ultrahigh Thermal Resistance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 14015-14024	3.9	0



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| 2 | Achieving superiorly high heat-dimensional stability, high strength, and good electrochemical performance for electrospun separators in power lithium-ion battery through building unique condensed structure based on polyimide and poly (m-phenylene isophthalamide). <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51233 | 2.9 | 0 |
| 1 | Interface reaction-induced separated phase structure in compatible epoxy thermosetting blending for unexpected mechanical properties and multi-thermosensitive devices. <i>Polymer Composites</i> , <b>2021</b> , 42, 5541   | 3   | 0 |