Serge Bourbigot

List of Publications by Citations

314 papers	15,428 citations	69 h-index	109 g-index
326 ext. papers	16,840 ext. citations	4 avg, IF	6.72 L-index

#	Paper	IF	Citations
314	Recent Advances for Intumescent Polymers. *Macromolecular Materials and Engineering*, **2004**, 289, 499-511	3.9	583
313	Fire retardant polymers: recent developments and opportunities. *Journal of Materials Chemistry*, **2007**, 17, 2283		490
312	Intumescence: Tradition versus novelty. A comprehensive review. *Progress in Polymer Science*, **2015**, 51, 28-73	29.6	308
311	PA-6 clay nanocomposite hybrid as char forming agent in intumescent formulations. *Fire and Materials*, **2000**, 24, 201-208	1.8	287
310	Flammability properties of intumescent PLA including starch and lignin. *Polymers for Advanced Technologies*, **2008**, 19, 628-635	3.2	257
309	Intumescent fire protective coating: Toward a better understanding of their mechanism of action. *Thermochimica Acta*, **2006**, 449, 16-26	2.9	239
308	Carbonization mechanisms resulting from intumescence-part II. Association with an ethylene terpolymer and the ammonium polyphosphate-pentaerythritol fire retardant system. *Carbon*, **1995**, 33, 283-294	10.4	221
307	The production and properties of polylactide composites filled with expanded graphite. *Polymer Degradation and Stability*, **2010**, 95, 889-900	4.7	217
306	Flame retardancy of polylactide: an overview. *Polymer Chemistry*, **2010**, 1, 1413	4.9	206
305	Preparation of Homogeneously Dispersed Multiwalled Carbon Nanotube/Polystyrene Nanocomposites via Melt Extrusion Using Trialkyl Imidazolium Compatibilizer. *Advanced Functional Materials*, **2005**, 15, 910-916	15.6	198
304	Effect of fillers on the fire retardancy of intumescent polypropylene compounds. *Polymer Degradation and Stability*, **2003**, 82, 325-331	4.7	197
303	Kinetic analysis of the thermal degradation of polystyrene–montmorillonite nanocomposite. *Polymer Degradation and Stability*, **2004**, 84, 483-492	4.7	184
302	Characterization of the performance of an intumescent fire protective coating. *Surface and Coatings Technology*, **2006**, 201, 979-987	4.4	177
301	The origin and nature of flame retardance in ethylene-vinyl acetate copolymers containing hostaflam AP 750. *Polymer International*, **1999**, 48, 264-270	3.3	176
300	Recent advances in the use of zinc borates in flame retardancy of EVA. *Polymer Degradation and Stability*, **1999**, 64, 419-425	4.7	168
299	The facts and hypotheses relating to the phenomenological model of cellulose pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2009**, 84, 1-17	6	160
298	Flammability of polyamide-6/clay hybrid nanocomposite textiles. *Polymer Degradation and Stability*, **2002**, 75, 397-402	4.7	158

297	Thermal degradation of polyurethane and polyurethane/expandable graphite coatings. *Polymer Degradation and Stability*, **2001**, 74, 493-499	4.7	151
296	Expandable graphite: A fire retardant additive for polyurethane coatings. *Fire and Materials*, **2003**, 27, 103-117	1.8	147
295	XPS study of an intumescent coating. *Applied Surface Science*, **1997**, 120, 15-29	6.7	146
294	Carbonization mechanisms resulting from intumescence association with the ammonium polyphosphate-pentaerythritol fire retardant system. *Carbon*, **1993**, 31, 1219-1230	10.4	145
293	Synergistic effect of zeolite in an intumescence process: study of the carbonaceous structures using solid-state NMR. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 149		143
292	New Intumescent Formulations of Fire-retardant Polypropylene□Discussion of the Free Radical Mechanism of the Formation of Carbonaceous Protective Material During the Thermo-oxidative Treatment of the Additives. *Fire and Materials*, **1996**, 20, 191-203	1.8	143
291	Kinetic analysis of the thermal decomposition of cellulose: The main step of mass loss. *Journal of Analytical and Applied Pyrolysis*, **2007**, 80, 151-165	6	142
290	Polyhedral oligomeric silsesquioxane as flame retardant for thermoplastic polyurethane. *Polymer Degradation and Stability*, **2009**, 94, 1230-1237	4.7	139
289	Charring of fire retarded ethylene vinyl acetate copolymer□magnesium hydroxide/zinc borate formulations. *Polymer Degradation and Stability*, **2000**, 69, 83-92	4.7	139
288	Mechanism of fire retardancy of polyurethanes using ammonium polyphosphate. *Journal of Applied Polymer Science*, **2001**, 82, 3262-3274	2.9	138
287	Polymer Nanocomposites: How to Reach Low Flammability?. *Macromolecular Symposia*, **2006**, 233, 180-190	0.8	137
286	Synergistic effect of zeolite in an intumescence process. Study of the interactions between the polymer and the additives. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 3435-3444		136
285	Starch-Based Layer by Layer Assembly: Efficient and Sustainable Approach to Cotton Fire Protection. *ACS Applied Materials & Interfaces*, **2015**, 7, 12158-67	9.5	134
284	Use of polyurethanes as char-forming agents in polypropylene intumescent formulations. *Polymer International*, **2000**, 49, 1115-1124	3.3	134
283	New trends in polylactide (PLA)-based materials: □reen□PLA□Calcium sulfate (nano)composites tailored with flame retardant properties. *Polymer Degradation and Stability*, **2010**, 95, 374-381	4.7	133
282	Effect of zinc borate on the thermal degradation of ammonium polyphosphate. *Thermochimica Acta* , **2007**, 456, 134-144	2.9	120
281	The use of POSS as synergist in intumescent recycled poly(ethylene terephthalate). *Polymer Degradation and Stability*, **2008**, 93, 818-826	4.7	118
280	XPS study of an intumescent coating application to the ammonium polyphosphate/pentaerythritol fire-retardant system. *Applied Surface Science*, **1994**, 81, 299-307	6.7	117

279	Comprehensive study of the degradation of an intumescent EVA-based material during combustion. *Journal of Materials Science*, **1999**, 34, 5777-5782	4.3	116
278	Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. *Green Chemistry*, **2020**, 22, 2129-2161	10	113
277	Flame retarded polyurea with microencapsulated ammonium phosphate for textile coating. *Polymer Degradation and Stability*, **2005**, 88, 106-113	4.7	110
276	Investigation of nanodispersion in polystyrene–montmorillonite nanocomposites by solid-state NMR. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 3188-3213	2.6	108
275	Microencapsulation of ammonium phosphate with a polyurethane shell. Part II. Interfacial polymerization technique. *Reactive and Functional Polymers*, **2006**, 66, 1118-1125	4.6	107
274	Microencapsulation of ammonium phosphate with a polyurethane shell part I: Coacervation technique. *Reactive and Functional Polymers*, **2005**, 64, 127-138	4.6	107
273	Polyallylamine–montmorillonite as super flame retardant coating assemblies by layer-by layer deposition on polyamide. *Polymer Degradation and Stability*, **2013**, 98, 627-634	4.7	105
272	Thermoregulating response of cotton fabric containing microencapsulated phase change materials. *Thermochimica Acta*, **2010**, 506, 82-93	2.9	101
271	Crystallization behavior of PA-6 clay nanocomposite hybrid. *Journal of Applied Polymer Science*, **2002**, 86, 2416-2423	2.9	101
270	Water-assisted extrusion as a novel processing route to prepare polypropylene/halloysite nanotube nanocomposites: Structure and properties. *Polymer*, **2011**, 52, 4284-4295	3.9	99
269	Characterization and Reaction to Fire of Polymer Nanocomposites with and without Conventional Flame Retardants. *Molecular Crystals and Liquid Crystals*, **2008**, 486, 325/[1367]-339/[1381]	0.5	99
268	Structure and Properties of PHA/Clay Nano-Biocomposites Prepared by Melt Intercalation. *Macromolecular Chemistry and Physics*, **2008**, 209, 1473-1484	2.6	98
267	Microencapsulation of phosphate. *Polymer Degradation and Stability*, **2002**, 77, 285-297	4.7	97
266	Influence of process parameters on microcapsules loaded with n-hexadecane prepared by in situ polymerization. *Chemical Engineering Journal*, **2009**, 155, 457-465	14.7	96
265	Multiscale Experimental Approach for Developing High-Performance Intumescent Coatings. *Industrial & Engineering Chemistry Research*, **2006**, 45, 4500-4508	3.9	95
264	Reactive extrusion of PLA and of PLA/carbon nanotubes nanocomposite: processing, characterization and flame retardancy. *Polymers for Advanced Technologies*, **2011**, 22, 30-37	3.2	92
263	Fire Degradation of an Intumescent Flame Retardant Polypropylene Using the Cone Calorimeter. *Journal of Fire Sciences*, **1995**, 13, 3-22	1.5	90
262	Nanomorphology and reaction to fire of polyurethane and polyamide nanocomposites containing flame retardants. *Polymer Degradation and Stability*, **2010**, 95, 320-326	4.7	89

261	Neutralized flame retardant phosphorus agent: Facile synthesis, reaction to fire in PP and synergy with zinc borate. *Polymer Degradation and Stability*, **2008**, 93, 68-76	4.7	88
260	Kinetic modelling of the thermal degradation. *European Polymer Journal*, **2000**, 36, 273-284	5.2	88
259	A comprehensive study of the synergistic flame retardant mechanisms of halloysite in intumescent polypropylene. *Polymer Degradation and Stability*, **2013**, 98, 2268-2281	4.7	87
258	Solid state NMR characterization and flammability of styrene□acrylonitrile copolymer montmorillonite nanocomposite. *Polymer*, **2004**, 45, 7627-7638	3.9	86
257	Thermal oxidative degradation of epoxy resins: evaluation of their heat resistance using invariant kinetic parameters. *Polymer Degradation and Stability*, **1994**, 45, 387-397	4.7	84
256	(Plasticized) Polylactide/clay nanocomposite textile: thermal, mechanical, shrinkage and fire properties. *Journal of Materials Science*, **2007**, 42, 5105-5117	4.3	82
255	Preparation of a Novel Intumescent Flame Retardant Based on Supramolecular Interactions and Its Application in Polyamide 11. *ACS Applied Materials & Interfaces*, **2017**, 9, 24964-24975	9.5	79
254	Fire retardancy of polymer clay nanocomposites: Is there an influence of the nanomorphology?. *Polymer Degradation and Stability*, **2008**, 93, 2019-2024	4.7	79
253	Intumescent flame retardant systems of modified rheology. *Polymer Degradation and Stability*, **2002**, 77, 243-247	4.7	79
252	Thermal decomposition of flame retarded formulations PA6/aluminum phosphinate/melamine polyphosphate/organomodified clay: Interactions between the constituents?. *Polymer Degradation and Stability*, **2012**, 97, 2217-2230	4.7	77
251	The fire performance of polylactic acid containing a novel intumescent flame retardant and intercalated layered double hydroxides. *Journal of Materials Science*, **2017**, 52, 12235-12250	4.3	74
250	Thermal degradation of DNA, an all-in-one natural intumescent flame retardant. *Polymer Degradation and Stability*, **2015**, 113, 110-118	4.7	74
249	Intumescent polylactide: A nonflammable material. *Journal of Applied Polymer Science*, **2009**, 113, 3860-3865	2.9	73
248	Thermal degradation of DNA-treated cotton fabrics under different heating conditions. *Journal of Analytical and Applied Pyrolysis*, **2014**, 108, 212-221	6	72
247	Effects of nanoclay and fire retardants on fire retardancy of a polymer blend of EVA and LDPE. *Fire Safety Journal*, **2009**, 44, 504-513	3.3	70
246	Phosphorylation of lignin to flame retard acrylonitrile butadiene styrene (ABS). *Polymer Degradation and Stability*, **2016**, 127, 32-43	4.7	69
245	Designing polylactide/clay nanocomposites for textile applications: Effect of processing conditions, spinning, and characterization. *Journal of Applied Polymer Science*, **2008**, 109, 841-851	2.9	69
244	Zeolites: New Synergistic Agents for Intumescent Fire Retardant Thermoplastic Formulations□Criteria for the Choice of the Zeolite. *Fire and Materials*, **1996**, 20, 145-154	1.8	69

243	Characterisation of the dispersion in polymer flame retarded nanocomposites. *European Polymer Journal*, **2008**, 44, 1631-1641	5.2	67
242	Effect of Nanoclay Hydration on Barrier Properties of PLA/Montmorillonite Based Nanocomposites. *Journal of Physical Chemistry C*, **2013**, 117, 12117-12135	3.8	66
241	Melamine integrated metal phosphates as non-halogenated flame retardants: Synergism with aluminium phosphinate for flame retardancy in glass fiber reinforced polyamide 66. *Polymer Degradation and Stability*, **2013**, 98, 2653-2662	4.7	65
240	Modelling of nonisothermal kinetics in thermogravimetry. *Physical Chemistry Chemical Physics*, **2000**, 2, 4708-4716	3.6	65
239	Influence of exfoliated graphene nanoplatelets on flame retardancy of kenaf flour polypropylene hybrid nanocomposites. *Journal of Analytical and Applied Pyrolysis*, **2017**, 123, 65-72	6	64
238	Using polyamide 6 as charring agent in intumescent polypropylene formulations II. Thermal degradation. *Polymer Degradation and Stability*, **2002**, 77, 315-323	4.7	62
237	Using polyamide-6 as charring agent in intumescent polypropylene formulationsI. Effect of the compatibilising agent on the fire retardancy performance. *Polymer Degradation and Stability*, **2002**, 77, 305-313	4.7	62
236	Effect of fillers on fire retardancy of intumescent polypropylene blends. *Macromolecular Symposia*, **2003**, 198, 435-448	0.8	62
235	Study of the thermal degradation of high performance fibres□pplication to polybenzazole and p-aramid fibres. *Polymer Degradation and Stability*, **2001**, 74, 283-290	4.7	62
234	Extreme Heat Shielding of Clay/Chitosan Nanobrick Wall on Flexible Foam. *ACS Applied Materials & Interfaces*, **2018**, 10, 31686-31696	9.5	58
233	Flame retardant formulations for cotton. *Polymer Degradation and Stability*, **2001**, 74, 487-492	4.7	57
232	Modeling of Heat Transfer of a Polypropylene-Based Intumescent System during Combustion. *Journal of Fire Sciences*, **1999**, 17, 42-56	1.5	57
231	Kinetic analysis of the thermal decomposition of a carbon fibre-reinforced epoxy resin laminate. *Journal of Analytical and Applied Pyrolysis*, **2017**, 126, 14-21	6	56
230	Model-free method for evaluation of activation energies in modulated thermogravimetry and analysis of cellulose decomposition. *Chemical Engineering Science*, **2006**, 61, 1276-1292	4.4	56
229	Reaction to fire of an intumescent epoxy resin: Protection mechanisms and synergy. *Polymer Degradation and Stability*, **2012**, 97, 1366-1386	4.7	54
228	Effect of Highly Exfoliated and Oriented Organoclays on the Barrier Properties of Polyamide 6 Based Nanocomposites. *Journal of Physical Chemistry C*, **2012**, 116, 4937-4947	3.8	53
227	Kinetic analysis of the thermal decomposition of cellulose: The change of the rate limitation. *Journal of Analytical and Applied Pyrolysis*, **2007**, 80, 141-150	6	53
226	Rheological investigations in fire retardancy: application to ethylene□inyl-acetate copolymer□agnesium hydroxide/zinc borate formulations. *Polymer International*, **2000**, 49, 1216-1221	3.3	53

225	Comprehensive Study of the Influence of Different Aging Scenarios on the Fire Protective Behavior of an Epoxy Based Intumescent Coating. *Industrial & Engineering Chemistry Research*, **2013**, 52, 729-743	3.9	51
224	High-Throughput Fire Testing for Intumescent Coatings. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7475-7481	3.9	51
223	The Use of Clay in an EVA-Based Intumescent Formulation. Comparison with the Intumescent Formulation Using Polyamide-6 Clay Nanocomposite As Carbonisation Agent. *Journal of Fire Sciences*, **2001**, 19, 219-241	1.5	51
222	Thermal degradation of poly(p-phenylenebenzobisoxazole) and poly(p-phenylenediamine terephthalamide) fibres. *Polymer International*, **2001**, 50, 157-164	3.3	50
221	Analysis of Fire Gases Released from Polyurethane and Fire-Retarded Polyurethane Coatings. *Journal of Fire Sciences*, **2000**, 18, 456-482	1.5	50
220	Microstructure and barrier properties of PHBV/organoclays bionanocomposites. *Journal of Membrane Science*, **2014**, 467, 56-66	9.6	49
219	Elaboration of poly(lactic acid)/halloysite nanocomposites by means of water assisted extrusion: structure, mechanical properties and fire performance. *RSC Advances*, **2014**, 4, 57553-57563	3.7	49
218	Processing and nanodispersion: A quantitative approach for polylactide nanocomposite. *Polymer Testing*, **2008**, 27, 2-10	4.5	49
217	Mineral Fillers in Intumescent Fire Retardant Formulations Criteria for the Choice of a Natural Clay Filler for the Ammonium Polyphosphate/Pentaerythritol/Polypropylene System. *Fire and Materials*, **1996**, 20, 39-49	1.8	49
216	Intumescent coating of (polyallylamine-polyphosphates) deposited on polyamide fabrics via layer-by-layer technique. *Polymer Degradation and Stability*, **2014**, 106, 158-164	4.7	48
215	Experimental and numerical study of the effects of nanoparticles on pyrolysis of a polyamide 6 (PA6) nanocomposite in the cone calorimeter. *Combustion and Flame*, **2009**, 156, 2056-2062	5.3	48
214	High throughput methods for polymer nanocomposites research: Extrusion, NMR characterization and flammability property screening. *Journal of Materials Science*, **2003**, 38, 4451-4460	4.3	48
213	Characterization of a polyamide-6-based intumescent additive for thermoplastic formulations. *Polymer*, **2000**, 41, 5283-5296	3.9	47
212	Thermal and flammability properties of polyethersulfone/halloysite nanocomposites prepared by melt compounding. *Polymer Degradation and Stability*, **2013**, 98, 1993-2004	4.7	46
211	Flammability and thermal properties of polycarbonate /acrylonitrile-butadiene-styrene nanocomposites reinforced with multilayer graphene. *Polymer Degradation and Stability*, **2015**, 120, 88-97	4.7	45
210	Fire behaviour of carbon fibre epoxy composite for aircraft: Novel test bench and experimental study. *Journal of Fire Sciences*, **2015**, 33, 247-266	1.5	45
209	Crossed characterisation of polymer-layered silicate (PLS) nanocomposite morphology: TEM, X-ray diffraction, rheology and solid-state nuclear magnetic resonance measurements. *European Polymer Journal*, **2008**, 44, 1642-1653	5.2	44
208	Thermal degradation and fire performance of intumescent silicone-based coatings. *Polymers for Advanced Technologies*, **2013**, 24, 62-69	3.2	43

207	Influence of talc on the fire retardant properties of highly filled intumescent polypropylene composites. *Polymers for Advanced Technologies*, **2008**, 19, 620-627	3.2	42
206	Progress in safety, flame retardant textiles and flexible fire barriers for seats in transportation. *Polymer Degradation and Stability*, **2005**, 88, 98-105	4.7	42
205	Characterization of the carbonization process of expandable graphite/silicone formulations in a simulated fire. *Polymer Degradation and Stability*, **2013**, 98, 1052-1063	4.7	41
204	Synergistic and antagonistic effects in flame retardancy of an intumescent epoxy resin. *Polymers for Advanced Technologies*, **2011**, 22, 1085-1090	3.2	41
203	Kinetic analysis of the thermal degradation of an epoxy-based intumescent coating. *Polymer Degradation and Stability*, **2009**, 94, 404-409	4.7	40
202	Layer-by-layer deposition of a TiO2-filled intumescent coating and its effect on the flame retardancy of polyamide and polyester fabrics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 469, 1-10	5.1	39
201	Influence of the solvent on the microencapsulation of an hydrated salt. *Carbohydrate Polymers*, **2010**, 79, 964-974	10.3	39
200	Influence of modified rheology on the efficiency of intumescent flame retardant systems. *Polymer Degradation and Stability*, **2001**, 74, 423-426	4.7	39
199	Investigation of the decomposition pathway of polyamide 6/ammonium sulfamate fibers. *Polymer Degradation and Stability*, **2014**, 106, 150-157	4.7	38
198	New Trends in Reaction and Resistance to Fire of Fire-retardant Epoxies. *Materials*, **2010**, 3, 4476-4499	3.5	38
197	Mechanism of intumescence of a polyethylene/calcium carbonate/stearic acid system. *Polymer Degradation and Stability*, **2009**, 94, 797-803	4.7	38
196	Thermal degradation and fire performance of polysilazane-based coatings. *Thermochimica Acta*, **2011**, 519, 28-37	2.9	38
195	Combustion behaviour of ethylene vinyl acetate copolymer-based intumescent formulations using oxygen consumption calorimetry. *Fire and Materials*, **1998**, 22, 119-128	1.8	38
194	The preparation of a bio-polyelectrolytes based core-shell structure and its application in flame retardant polylactic acid composites. *Composites Part A: Applied Science and Manufacturing*, **2019**, 124, 105485	8.4	37
193	Mechanical and Optical Properties of Polyamide 6/Clay Nanocomposite Cast Films: Influence of the Degree of Exfoliation. *Macromolecular Materials and Engineering*, **2012**, 297, 444-454	3.9	37
192	Investigation of the thermal degradation of PET, zinc phosphinate, OMPOSS and their blends□dentification of the formed species. *Thermochimica Acta*, **2009**, 495, 155-166	2.9	37
191	New approach to flame retardancy using plasma assisted surface polymerisation techniques. *Polymer Degradation and Stability*, **1999**, 66, 153-155	4.7	37
190	Resistance to fire of intumescent silicone based coating: The role of organoclay. *Progress in Organic Coatings*, **2013**, 76, 1633-1641	4.8	36

189	Chitosan-grafted nonwoven geotextile for heavy metals sorption in sediments. *Reactive and Functional Polymers*, **2013**, 73, 53-59	4.6	36
188	Flame Behavior of Cotton Coated with Polyurethane Containing Microencapsulated Flame Retardant Agent. *Journal of Industrial Textiles*, **2001**, 31, 11-26	1.6	36
187	Novel flame retardant flexible polyurethane foam: plasma induced graft-polymerization of phosphonates. *RSC Advances*, **2015**, 5, 63853-63865	3.7	35
186	Characterisation of poly(p-phenylenebenzobisoxazole) fibres by solid state NMR. *European Polymer Journal*, **2002**, 38, 1645-1651	5.2	35
185	Thermoplastic Polyurethanes as Carbonization Agents in Intumescent Blends. Part 1: Fire Retardancy of Polypropylene/Thermoplastic Polyurethane/Ammonium Polyphosphate Blends. *Journal of Fire Sciences*, **1999**, 17, 494-513	1.5	35
184	New approach to the dynamic properties of an intumescent material. *Fire and Materials*, **1999**, 23, 49-51	1.8	35
183	Fire behaviour related to the thermal degradation of unsaturated polyesters. *Polymer Degradation and Stability*, **1999**, 64, 443-448	4.7	34
182	Phosphorylation of lignin: characterization and investigation of the thermal decomposition. *RSC Advances*, **2017**, 7, 16866-16877	3.7	33
181	Heat Transfer Study of Polypropylene-Based Intumescent Systems during Combustion. *Journal of Fire Sciences*, **1997**, 15, 358-374	1.5	33
180	Thermal behaviour of cotton-modacrylic fibre blends: kinetic study using the invariant kinetic parameters method. *Thermochimica Acta*, **1996**, 275, 37-49	2.9	33
179	The combination of aluminum trihydroxide (ATH) and melamine borate (MB) as fire retardant additives for elastomeric ethylene vinyl acetate (EVA). *Polymer Degradation and Stability*, **2015**, 115, 77-88	4.7	32
178	Influence of inorganic fillers on the fire protection of intumescent coatings. *Journal of Fire Sciences*, **2013**, 31, 258-275	1.5	32
177	Thermal degradation of cotton under linear heating. *Polymer Degradation and Stability*, **2002**, 78, 57-62	4.7	32
176	Flame Retardancy of PA6 Using a Guanidine Sulfamate/Melamine Polyphosphate Mixture. *Polymers* , **2015**, 7, 316-332	4.5	31
175	Polypropylene fabrics padded with microencapsulated ammonium phosphate: Effect of the shell structure on the thermal stability and fire performance. *Polymer Degradation and Stability*, **2010**, 95, 1716-1720	4.7	31
174	Investigation of the synergy in intumescent polyurethane by□3D□computed tomography. *Polymer Degradation and Stability*, **2013**, 98, 1638-1647	4.7	30
173	The Preparation of an Intumescent Flame Retardant by Ion Exchange and Its Application in Polylactic Acid. *ACS Applied Polymer Materials*, **2019**, 1, 755-764	4.3	29
172	Crossing the Traditional Boundaries: Salen-Based Schiff Bases for Thermal Protective Applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 21208-17	9.5	29

171	Towards scalable production of polyamide 12/halloysite nanocomposites via water-assisted extrusion: mechanical modeling, thermal and fire properties. *Polymers for Advanced Technologies*, **2014**, 25, 137-151	3.2	29
170	Development and characterisation of flame-retardant fibres from isotactic polypropylene melt-compounded with melamine-formaldehyde microcapsules. *Polymer Degradation and Stability*, **2011**, 96, 131-143	4.7	29
169	Effect of manganese nanoparticles on the mechanical, thermal and fire properties of polypropylene multifilament yarn. *Polymer Degradation and Stability*, **2009**, 94, 955-964	4.7	29
168	Improving the flame retardancy of polyamide 6 by incorporating hexachlorocyclotriphosphazene modified MWNT. *Polymers for Advanced Technologies*, **2014**, 25, 1099-1107	3.2	28
167	Kinetics of the thermal and thermo-oxidative degradation of polypropylene/halloysite nanocomposites. *Polymer Degradation and Stability*, **2012**, 97, 1745-1754	4.7	28
166	Polymer nanoparticles to decrease thermal conductivity of phase change materials. *Thermochimica Acta*, **2008**, 477, 25-31	2.9	28
165	Modulated thermogravimetry in analysis of decomposition kinetics. *Chemical Engineering Science*, **2005**, 60, 747-766	4.4	28
164	Outlining the mechanism of flame retardancy in polyamide 66 blended with melamine-poly(zinc phosphate). *Fire Safety Journal*, **2014**, 70, 46-60	3.3	27
163	Flammability and thermal degradation of poly (lactic acid)/polycarbonate alloys containing a phosphazene derivative and trisilanollsobutyl POSS. *Polymer*, **2015**, 79, 221-231	3.9	26
162	The Effects of Thermophysical Properties and Environmental Conditions on Fire Performance of Intumescent Coatings on Glass Fibre-Reinforced Epoxy Composites. *Materials*, **2015**, 8, 5216-5237	3.5	26
161	Salen based Schiff bases to flame retard thermoplastic polyurethane mimicking operational strategies of thermosetting resin. *RSC Advances*, **2015**, 5, 48224-48235	3.7	26
160	Study of the thermal degradation of an aluminium phosphinate–aluminium trihydrate combination. *Thermochimica Acta*, **2013**, 551, 175-183	2.9	26
159	Morphology and properties of SAN-clay nanocomposites prepared principally by water-assisted extrusion. *Polymer Engineering and Science*, **2010**, 50, 10-21	2.3	26
158	PLA nanocomposites: quantification of clay nanodispersion and reaction to fire. *International Journal of Nanotechnology*, **2008**, 5, 683	1.5	26
157	Cone calorimeter study of high performance fibres–application to polybenzazole and p-aramid fibres. *Polymer Degradation and Stability*, **2001**, 74, 481-486	4.7	26
156	Thermal Degradation and Fire Behavior of High Performance Polymers. *Polymer Reviews*, **2019**, 59, 55-123	13.4	26
155	Synthesis of isosorbide based flame retardants: Application for polybutylene succinate. *Polymer Degradation and Stability*, **2019**, 164, 9-17	4.7	25
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153	Heat and fire resistance of polyurethane-polydimethylsiloxane hybrid material. *Polymers for Advanced Technologies*, **2006**, 17, 304-311	3.2	25
152	Optimization of monoguanidine dihydrogen phosphate and amino propylethoxysilane based flame retardant formulations for cotton. *Polymer Degradation and Stability*, **2006**, 91, 1909-1914	4.7	25
151	Intumescent ethylene-vinyl acetate copolymer: Reaction to fire and mechanistic aspects. *Polymer Degradation and Stability*, **2019**, 161, 235-244	4.7	24
150	Surface grafting of sepiolite with a phosphaphenanthrene derivative and its flame-retardant mechanism on PLA nanocomposites. *Polymer Degradation and Stability*, **2019**, 165, 68-79	4.7	24
149	Bulk vs. surface flame retardancy of fully bio-based polyamide 10,10. *RSC Advances*, **2015**, 5, 39424-39432	3.7	24
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