Serge Bourbigot

List of Publications by Year in Descending Order

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	Co-pyrolysis characteristics and flammability of polylactic acid and acrylonitrile-butadiene-styrene plastic blend using TG, temperature-dependent FTIR, Py-GC/MS and cone calorimeter analyses. *Fire Safety Journal*, **2022**, 128, 103543	3.3	0
313	Advanced functional materials based on bamboo cellulose fibers with different crystal structures. *Composites Part A: Applied Science and Manufacturing*, **2022**, 154, 106758	8.4	2
312	Improvement of Flame Retardancy and Antidripping Properties of Intumescent Polybutylene Succinate Combining Piperazine Pyrophosphate and Zinc Borate. *ACS Applied Polymer Materials*, **2022**, 4, 1911-1921	4.3	0
311	Flammability properties of intumescent vinyl acetate-ethylene copolymer emulsion including natural carbonization agent. *Polymer*, **2022**, 245, 124709	3.9	1
310	An efficient bi-layer intumescent paint metal laminate fire barrier for various substrates: Extension to other application. *European Journal of Materials*, **2021**, 1, 19-33		
309	Advances and challenges in eco-benign fire-retardant polylactide. *Materials Today Physics*, **2021**, 21, 100568	8	7
308	Flame Retardancy of Lightweight Sandwich Composites. *Journal of Composites Science*, **2021**, 5, 274	3	0
307	Investigation of the thermal stability and fire behavior of high performance polymer: A case study of polyimide. *Fire Safety Journal*, **2021**, 120, 103060	3.3	6
306	Mechanically robust and flame-retardant polylactide composites based on molecularly-engineered polyphosphoramides. *Composites Part A: Applied Science and Manufacturing*, **2021**, 144, 106317	8.4	14
305	Thin coatings for fire protection: An overview of the existing strategies, with an emphasis on layer-by-layer surface treatments and promising new solutions. *Progress in Organic Coatings*, **2021**, 154, 106217	4.8	11
304	Intumescent polypropylene in extreme fire conditions. *Fire Safety Journal*, **2021**, 120, 103082	3.3	3
303	Anisotropy of expandable graphite to explain its behavior as a flame-retardant. *Journal of Fire Sciences*, **2021**, 39, 109-118	1.5	1
302	Pressure effects on morphology of isotropic char layer, shrinkage, cracking and reduced heat transfer of wooden material. *Proceedings of the Combustion Institute*, **2021**, 38, 5063-5071	5.9	5
301	Oxygen concentration and modeling thermal decomposition of a high-performance material: A case study of polyimide (Cirlex). *Polymers for Advanced Technologies*, **2021**, 32, 54-66	3.2	0
300	Intumescent polypropylene: Interactions between physical and chemical expansion. *Fire and Materials*, **2021**, 45, 387-395	1.8	3
299	Design of fire resistant, sound-absorbing and thermal-insulated expandable polystyrene based lightweight particleboard composites. *Construction and Building Materials*, **2021**, 305, 124773	6.7	0
298	Intumescent polybutylene succinate: Ethylenediamine phosphate and synergists. *Polymer Degradation and Stability*, **2021**, 192, 109707	4.7	4

297	Intumescence-Based Flame Retardant **2021**, 169-238		
296	Combining Low-Emissivity Thin Coating and 3D-Printed Original Designs for Superior Fire-Protective Performance. *ACS Omega*, **2020**, 5, 27857-27863	3.9	2
295	Low-Emissivity Metal/Dielectric Coatings as Radiative Barriers for the Fire Protection of Raw and Formulated Polymers. *ACS Applied Polymer Materials*, **2020**, 2, 2880-2889	4.3	5
294	Formulation of eco-friendly sol□gel coatings to flame-retard flexible polyurethane foam. *Green Materials*, **2020**, 8, 139-149	3.2	2
293	Improving the flame retardant properties of polyester-cotton blend fabrics by introducing an intumescent coating via layer by layer assembly. *Journal of Applied Polymer Science*, **2020**, 137, 49253	2.9	4
292	Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. *Green Chemistry*, **2020**, 22, 2129-2161	10	113
291	Bilayer Intumescent Paint Metal Laminates: A Novel Design for a High-Performance Fire Barrier. *Industrial & Engineering Chemistry Research*, **2020**, 59, 2988-2997	3.9	5
290	Simultaneously improving the thermal conductive and flame retardant performance for epoxy resins thermosets by constructing core-shell-brush structure and distributing of MWCNTs in brush intervals. *Polymers for Advanced Technologies*, **2020**, 31, 589-601	3.2	3
289	Influence of two kinds of low dimensional nano-sized silicate clay on the flame retardancy of polypropylene. *Materials Chemistry and Physics*, **2020**, 256, 123743	4.4	5
288	3D printed sandwich materials filled with hydrogels for extremely low heat release rate. *Polymer Degradation and Stability*, **2020**, 179, 109269	4.7	10
287	A Case Study of Polyetheretherketone (II): Playing with Oxygen Concentration and Modeling Thermal Decomposition of a High-Performance Material. *Polymers*, **2020**, 12,	4.5	4
286	A Case Study of Polyether Ether Ketone (I): Investigating the Thermal and Fire Behavior of a High-Performance Material. *Polymers*, **2020**, 12,	4.5	10
285	Fabrication of Fly Ash-Based Mesoporous Aluminosilicate Oxides Loaded with Zinc and its Synergistic Fire Resistancy in Polypropylene. *Journal of Vinyl and Additive Technology*, **2020**, 26, 135-143	2	5
284	Pyrolysis modeling, sensitivity analysis, and optimization techniques for combustible materials: A review. *Journal of Fire Sciences*, **2019**, 37, 377-433	1.5	14
283	Intumescent ethylene-vinyl acetate copolymer: Reaction to fire and mechanistic aspects. *Polymer Degradation and Stability*, **2019**, 161, 235-244	4.7	24
282	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
281	An effective flame retardant containing hypophosphorous acid for poly (lactic acid): Fire performance, thermal stability and mechanical properties. *Polymer Testing*, **2019**, 78, 105940	4.5	17
280	Eugenol-based thermally stable thermosets by Alder-ene reaction: From synthesis to thermal degradation. *European Polymer Journal*, **2019**, 117, 337-346	5.2	10

279	New approach for the efficient attainment of flame retardancy using multi component injection molding **2019**,		1
278	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
277	Additive manufacturing of fire-retardant ethylene-vinyl acetate. *Polymers for Advanced Technologies*, **2019**, 30, 1878-1890	3.2	12
276	Preparation of Glass Fabric/Poly(l-lactide) Composites by Thermoplastic Resin Transfer Molding. *Polymers*, **2019**, 11,	4.5	8
275	Intumescent polypropylene: Reaction to fire and mechanistic aspects. *Fire Safety Journal*, **2019**, 105, 261-269	3.3	14
274	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
273	A new approach on improving the fire resistance of polyamide 11 by incorporating sulfur-based flame retardant. *Polymers for Advanced Technologies*, **2019**, 30, 1605-1615	3.2	6
272	A Facile Technique to Extract the Cross-Sectional Structure of Brittle Porous Chars from Intumescent Coatings. *Polymers*, **2019**, 11,	4.5	5
271	Synthesis of isosorbide based flame retardants: Application for polybutylene succinate. *Polymer Degradation and Stability*, **2019**, 164, 9-17	4.7	25
270	Hexagonal Boron Nitride Platelet-Based Nanocoating for Fire Protection. *ACS Applied Nano Materials*, **2019**, 2, 5450-5459	5.6	17
269	Innovative 3D printed design to conceive highly fire-retardant multi-material. *Polymer Degradation and Stability*, **2019**, 169, 108992	4.7	7
268	Fractal conceptualization of intumescent fire barriers, toward simulations of virtual morphologies. *Scientific Reports*, **2019**, 9, 1872	4.9	8
267	Thermal Degradation and Fire Behavior of High Performance Polymers. *Polymer Reviews*, **2019**, 59, 55-123	13.4	26
266	Development of Bioepoxy Resin Microencapsulated Ammonium-Polyphosphate for Flame Retardancy of Polylactic Acid. *Molecules*, **2019**, 24,	4.8	10
265	Flame retardancy of microcellular poly(lactic acid) foams prepared by supercritical CO2-assisted extrusion. *Polymer Degradation and Stability*, **2018**, 153, 100-108	4.7	20
264	Impact of the formulation of biosourced phenolic foams on their fire properties. *Polymer Degradation and Stability*, **2018**, 153, 1-14	4.7	11
263	Getting a better insight into the chemistry of decomposition of complex flame retarded formulation: New insights using solid state NMR. *Polymer Degradation and Stability*, **2018**, 153, 145-154	4.7	15
262	Influence of model assumptions on charring polymer decomposition in the cone calorimeter. *Journal of Fire Sciences*, **2018**, 36, 181-201	1.5	5

261	In-situ investigation of temperature evolution of drippings via an optimized UL-94 instrumentation: Application to flame retarded polybutylene succinate. *Polymer Degradation and Stability*, **2018**, 155, 145-152	4.7	10
260	Characterization of in-flame soot from balsa composite combustion during mass loss cone calorimeter tests. *Polymer Degradation and Stability*, **2018**, 154, 304-311	4.7	3
259	Quantification of Thermal Barrier Efficiency of Intumescent Coatings on Glass Fibre-Reinforced Epoxy Composites. *Coatings*, **2018**, 8, 347	2.9	7
258	Intumescent Polymer Metal Laminates for Fire Protection. *Polymers*, **2018**, 10,	4.5	10
257	Extreme Heat Shielding of Clay/Chitosan Nanobrick Wall on Flexible Foam. *ACS Applied Materials & Interfaces*, **2018**, 10, 31686-31696	9.5	58
256	Salen Complexes as Fire Protective Agents for Thermoplastic Polyurethane: Deep Electron Paramagnetic Resonance Spectroscopy Investigation. *ACS Applied Materials & Interfaces*, **2018**, 10, 24860-24875	9.5	23
255	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
254	Measurement of kinetics and thermodynamics of the thermal degradation for flame retarded materials: Application to EVA/ATH/NC. *Journal of Analytical and Applied Pyrolysis*, **2017**, 124, 130-148	6	12
253	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
252	Fire behavior of simulated low voltage intumescent cables with and without electric current. *Journal of Fire Sciences*, **2017**, 35, 179-194	1.5	4
251	Phosphorylation of lignin: characterization and investigation of the thermal decomposition. *RSC Advances*, **2017**, 7, 16866-16877	3.7	33
250	Modelling Behaviour of a Carbon Epoxy Composite Exposed to Fire: Part I-Characterisation of Thermophysical Properties. *Materials*, **2017**, 10,	3.5	23
249	Thermal Stability and Fire Properties of Salen and Metallosalens as Fire Retardants in Thermoplastic Polyurethane (TPU). *Materials*, **2017**, 10,	3.5	22
248	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
247	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
246	Modelling Behaviour of a Carbon Epoxy Composite Exposed to Fire: Part II-Comparison with Experimental Results. *Materials*, **2017**, 10,	3.5	8
245	Topcoats versus Durability of an Intumescent Coating. *Industrial & Engineering Chemistry Research*, **2016**, 55, 9625-9632	3.9	18
244	Hydrocarbon time□temperature curve under airjet perturbation: An in situ method to probe char stability and integrity in reactive fire protection coatings. *Journal of Fire Sciences*, **2016**, 34, 385-397	1.5	16

243	Fire tests at reduced scale as powerful tool to fasten the development of flame-retarded material: Application to cables. *Journal of Fire Sciences*, **2016**, 34, 240-264	1.5	4
242	Phosphorylation of lignin to flame retard acrylonitrile butadiene styrene (ABS). *Polymer Degradation and Stability*, **2016**, 127, 32-43	4.7	69
241	Fire retardant sol–gel coatings for flexible polyurethane foams. *RSC Advances*, **2016**, 6, 28543-28554	3.7	15
240	A theoretical model for quantifying expansion of intumescent coating under different heating conditions. *Polymer Engineering and Science*, **2016**, 56, 798-809	2.3	17
239	Flame retardancy and thermal and mechanical performance of intercalated, layered double hydroxide composites of polyamide 11, aluminum phosphinate, and sulfamic acid. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	2
238	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
237	Novel flame retardant flexible polyurethane foam: plasma induced graft-polymerization of phosphonates. *RSC Advances*, **2015**, 5, 63853-63865	3.7	35
236	Characterization of a plasma polymer coating from an organophosphorus silane deposited at atmospheric pressure for fire-retardant purposes. *Progress in Organic Coatings*, **2015**, 88, 39-47	4.8	17
235	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
234	Intumescence: Tradition versus novelty. A comprehensive review. *Progress in Polymer Science*, **2015**, 51, 28-73	29.6	308
233	Smoke composition using MLC/FTIR/ELPI: Application to flame retarded ethylene vinyl acetate. *Polymer Degradation and Stability*, **2015**, 115, 89-109	4.7	11
232	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
231	Flame retardancy and mechanical properties of flax reinforced woven for composite applications. *Journal of Industrial Textiles*, **2015**, 44, 665-681	1.6	15
230	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
229	How much the fabric grammage may affect cotton combustion?. *Cellulose*, **2015**, 22, 3477-3489	5.5	20
228	Crossing the Traditional Boundaries: Salen-Based Schiff Bases for Thermal Protective Applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 21208-17	9.5	29
227	Thermal and flame retardant properties of ethylene vinyl acetate copolymers containing deoxyribose nucleic acid or ammonium polyphosphate. *Journal of Thermal Analysis and Calorimetry*, **2015**, 122, 705-715	4.1	13
226	Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) based nanocomposites: influence of the microstructure on the barrier properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 11313-23	3.6	13

225	Flame retardancy and degradation mechanism of poly(vinyl acetate) in combination with intumescent flame retardants: I. Ammonium poly(phosphate). *Polymer Degradation and Stability*, **2015**, 121, 321-330	4.7	23
224	Decomposition mechanism of fire retarded ethylene vinyl acetate elastomer (EVA) containing aluminum trihydroxide and melamine. *Polymer Degradation and Stability*, **2015**, 113, 168-179	4.7	23
223	Latest progresses in the preparation of tannin-based cellular solids. *Journal of Cellular Plastics*, **2015**, 51, 89-102	1.5	25
222	The electron microanalyzer (EPMA): a powerful device for the microanalysis of filled polymeric materials. *Polymers for Advanced Technologies*, **2015**, 26, 1020-1026	3.2	2
221	Instrumentation of UL-94 test: understanding of mechanisms involved in fire retardancy of polymers. *Polymers for Advanced Technologies*, **2015**, 26, 865-873	3.2	17
220	Characterization of Thermo-Physical Properties of EVA/ATH: Application to Gasification Experiments and Pyrolysis Modeling. *Materials*, **2015**, 8, 7837-7863	3.5	14
219	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
218	Continuous cyclo-polymerisation of L-lactide by reactive extrusion using atoxic metal-based catalysts: easy access to well-defined polylactide macrocycles. *RSC Advances*, **2015**, 5, 31303-31310	3.7	21
217	Bulk vs. surface flame retardancy of fully bio-based polyamide 10,10. *RSC Advances*, **2015**, 5, 39424-39432	3.7	24
216	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
215	Salen based Schiff bases to flame retard thermoplastic polyurethane mimicking operational strategies of thermosetting resin. *RSC Advances*, **2015**, 5, 48224-48235	3.7	26
214	Flame Retardancy of PA6 Using a Guanidine Sulfamate/Melamine Polyphosphate Mixture. *Polymers* , **2015**, 7, 316-332	4.5	31
213	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
212	Thermal degradation of DNA, an all-in-one natural intumescent flame retardant. *Polymer Degradation and Stability*, **2015**, 113, 110-118	4.7	74
211	Resistance to fire of silicone-based coatings: Fire protection of steel against cellulosic fire. *Journal of Fire Sciences*, **2014**, 32, 374-387	1.5	21
210	Mechanistic investigation of a flame retardant coating made by layer-by-layer assembly. *RSC Advances*, **2014**, 4, 43326-43334	3.7	21
209	Mapping the multimodal action of melamine-poly(aluminium phosphate) in the flame retardancy of polyamide 66. *RSC Advances*, **2014**, 4, 18406-18418	3.7	18
208	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

207	The fire retardant mechanism of ethylene vinyl acetate elastomer (EVM) containing aluminium trihydroxide and melamine phosphate. *RSC Advances*, **2014**, 4, 20185-20199	3.7	13
206	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
205	Microstructure and barrier properties of PHBV/organoclays bionanocomposites. *Journal of Membrane Science*, **2014**, 467, 56-66	9.6	49
204	Thermal degradation of DNA-treated cotton fabrics under different heating conditions. *Journal of Analytical and Applied Pyrolysis*, **2014**, 108, 212-221	6	72
203	Revisited investigation of fire behavior of ethylene vinyl acetate/aluminum trihydroxide using a combination of mass loss cone, Fourier transform infrared spectroscopy and electrical low pressure impactor. *Polymer Degradation and Stability*, **2014**, 106, 26-35	4.7	14
202	Investigation of the decomposition pathway of polyamide 6/ammonium sulfamate fibers. *Polymer Degradation and Stability*, **2014**, 106, 150-157	4.7	38
201	Decomposition mechanism of melamine borate in pyrolytic and thermo-oxidative conditions. *Thermochimica Acta*, **2014**, 590, 73-83	2.9	12
200	Aging of the flame-retardant properties of polycarbonate and polypropylene protected by an intumescent coating. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	15
199	Pathways to Biodegradable Flame Retardant Polymer (Nano)Composites **2014**, 709-773		7
198	Fire retardancy of a new polypropylene-grafted starch: Part II: investigation of mechanisms. *Journal of Fire Sciences*, **2014**, 32, 210-229	1.5	10
197	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
196	Improving the flame retardancy of polyamide 6 by incorporating hexachlorocyclotriphosphazene modified MWNT. *Polymers for Advanced Technologies*, **2014**, 25, 1099-1107	3.2	28
195	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
194	Effects of melamine polyphosphate and halloysite nanotubes on the flammability and thermal behavior of polyamide 6. *Polymers for Advanced Technologies*, **2014**, 25, 1552-1559	3.2	18
193	Protection mechanism of a flame-retarded polyamide 6 nanocomposite. *Journal of Fire Sciences*, **2014**, 32, 241-256	1.5	13
192	Highly loaded nanocomposite films as fire protective coating for polymeric substrates. *Journal of Fire Sciences*, **2014**, 32, 145-164	1.5	11
191	Intumescent silicone-based coatings for the fire protection of carbon fiber reinforced composites. *Fire Safety Science*, **2014**, 11, 781-793		3
190	Thermal degradation and fire performance of intumescent silicone-based coatings. *Polymers for Advanced Technologies*, **2013**, 24, 62-69	3.2	43

189	Reactive extrusion of intumescent stereocomplexed poly-L,D-lactide: characterization and reaction to fire. *Polymers for Advanced Technologies*, **2013**, 24, 130-133	3.2	11
188	Resistance to fire of intumescent silicone based coating: The role of organoclay. *Progress in Organic Coatings*, **2013**, 76, 1633-1641	4.8	36
187	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
186	Investigation of the synergy in intumescent polyurethane by 3D computed tomography. *Polymer Degradation and Stability*, **2013**, 98, 1638-1647	4.7	30
185	Resistance to fire of curable silicone/expandable graphite based coating: Effect of the catalyst. *European Polymer Journal*, **2013**, 49, 2031-2041	5.2	20
184	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
183	Chitosan-grafted nonwoven geotextile for heavy metals sorption in sediments. *Reactive and Functional Polymers*, **2013**, 73, 53-59	4.6	36
182	Reactive Extrusion of Stereocomplexed Poly-L,D-lactides: Processing, Characterization, and Properties. *Macromolecular Materials and Engineering*, **2013**, 298, 1016-1023	3.9	14
181	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
180	Flame retardancy of bio-based polyether-block-amide polymer (PEBAX). *Polymer Degradation and Stability*, **2013**, 98, 1247-1255	4.7	22
179	Thermal and flammability properties of polyethersulfone/halloysite nanocomposites prepared by melt compounding. *Polymer Degradation and Stability*, **2013**, 98, 1993-2004	4.7	46
178	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
177	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
176	Enhanced fire retardant properties of glass-fiber reinforced Polyamide 6,6 by combining bulk and surface treatments: Toward a better understanding of the fire-retardant mechanism. *Polymer Degradation and Stability*, **2013**, 98, 1378-1388	4.7	16
175	Effect of Nanoclay Hydration on Barrier Properties of PLA/Montmorillonite Based Nanocomposites. *Journal of Physical Chemistry C*, **2013**, 117, 12117-12135	3.8	66
174	Study of the thermal degradation of an aluminium phosphinate luminium trihydrate combination. *Thermochimica Acta*, **2013**, 551, 175-183	2.9	26
173	Fire retardancy of a new polypropylene-grafted starch. *Journal of Fire Sciences*, **2013**, 31, 563-575	1.5	7
172	Measurement and investigation of intumescent char strength: Application to polyurethanes. *Journal of Fire Sciences*, **2013**, 31, 293-308	1.5	19

171	Flame retardancy of bitumen: A calorimetry study. *Journal of Fire Sciences*, **2013**, 31, 112-130	1.5	10
170	Influence of inorganic fillers on the fire protection of intumescent coatings. *Journal of Fire Sciences*, **2013**, 31, 258-275	1.5	32
169	Characterization of the morphology of iPP/sPP blends with various compositions. *EXPRESS Polymer Letters*, **2013**, 7, 224-237	3.4	14
168	Intumescence as method for providing fire resistance to structural composites: application to poly(ethylene terephtalate) foam sandwich structured composite. *Composite Interfaces*, **2013**, 20, 269-277	2.3	13
167	Novel synergists for flame retarded glass-fiber reinforced poly(1,4-butylene terephthalate). *Polimery*, **2013**, 58, 403-412	3.4	7
166	Kinetics of the thermal and thermo-oxidative degradation of polypropylene/halloysite nanocomposites. *Polymer Degradation and Stability*, **2012**, 97, 1745-1754	4.7	28
165	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
164	Reaction to fire of an intumescent epoxy resin: Protection mechanisms and synergy. *Polymer Degradation and Stability*, **2012**, 97, 1366-1386	4.7	54
163	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
162	Fire Performance of Curable Silicone-Based Coatings. *ACS Symposium Series*, **2012**, 205-221	0.4	4
161	Fire protection of polypropylene and polycarbonate by intumescent coatings. *Polymers for Advanced Technologies*, **2012**, 23, 130-135	3.2	23
160	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
159	Burning behavior and thermal degradation kinetics of surface photografted polyamide 6.6 fabric. *Polymers for Advanced Technologies*, **2012**, 23, 1550-1554	3.2	15
158	New routes to flame retard polyamide 6,6 for electrical applications. *Journal of Fire Sciences*, **2012**, 30, 535-551	1.5	23
157	Thermally Stable and Flame Retardant Elastomeric Nanocomposites. *Advanced Structured Materials* , **2011**, 155-178	0.6	5
156	Thermal degradation of elastomeric vulcanized poly(ethylene-co-vinyl acetate) (EVM): Chemical and kinetic investigations. *Polymer Degradation and Stability*, **2011**, 96, 1812-1820	4.7	12
155	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
154	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

153	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
152	Synergistic and antagonistic effects in flame retardancy of an intumescent epoxy resin. *Polymers for Advanced Technologies*, **2011**, 22, 1085-1090	3.2	41
151	Influence of the Recycling Process on the Fire-Retardant Properties of PP/EPR Blends. *Macromolecular Materials and Engineering*, **2011**, 296, 494-505	3.9	8
150	Natural mineral fire retardant fillers for polyethylene. *Fire and Materials*, **2011**, 35, 183-192	1.8	7
149	Thermal degradation and fire performance of polysilazane-based coatings. *Thermochimica Acta*, **2011**, 519, 28-37	2.9	38
148	Reprocessed High Impact Polypropylene Containing Oil Pollutant Exhibiting Flame Retardant Properties. *Macromolecular Symposia*, **2011**, 301, 31-39	0.8	
147	New Trends in Reaction and Resistance to Fire of Fire-retardant Epoxies. *Materials*, **2010**, 3, 4476-4499	3.5	38
146	Flame retardancy of polylactide: an overview. *Polymer Chemistry*, **2010**, 1, 1413	4.9	206
145	Preparation of fire-resistant poly(styrene-co-acrylonitrile) foams using supercritical CO2 technology. *Journal of Materials Chemistry*, **2010**, 20, 1567		16
144	Quantitative analysis of automotive exhaust gas by Fourier Transform Infrared spectroscopy. *International Journal of Environmental Technology and Management*, **2010**, 13, 188	0.6	1
143	Influence of chemical shell structure on the thermal properties of microcapsules containing a flame retardant agent. *Polymer Degradation and Stability*, **2010**, 95, 315-319	4.7	24
142	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
141	Melt spinning of silane□water cross-linked polyethylene□octene through a reactive extrusion process. *Reactive and Functional Polymers*, **2010**, 70, 775-783	4.6	13
140	Nanomorphology and reaction to fire of polyurethane and polyamide nanocomposites containing flame retardants. *Polymer Degradation and Stability*, **2010**, 95, 320-326	4.7	89
139	New trends in polylactide (PLA)-based materials: □reen□PLA□alcium sulfate (nano)composites tailored with flame retardant properties. *Polymer Degradation and Stability*, **2010**, 95, 374-381	4.7	133
138	The production and properties of polylactide composites filled with expanded graphite. *Polymer Degradation and Stability*, **2010**, 95, 889-900	4.7	217
137	Improvement of heat resistance of high performance fibers using a cold plasma polymerization process. *Surface and Coatings Technology*, **2010**, 205, 745-758	4.4	17
136	Thermoregulating response of cotton fabric containing microencapsulated phase change materials. *Thermochimica Acta*, **2010**, 506, 82-93	2.9	101

135	Influence of the solvent on the microencapsulation of an hydrated salt. *Carbohydrate Polymers*, **2010**, 79, 964-974	10.3	39
134	Morphology and properties of SAN-clay nanocomposites prepared principally by water-assisted extrusion. *Polymer Engineering and Science*, **2010**, 50, 10-21	2.3	26
133	Thermal and fire degradation of recycled and polluted polypropylene-based materials. *Journal of Applied Polymer Science*, **2009**, 112, 2270-2279	2.9	5
132	Intumescent polylactide: A nonflammable material. *Journal of Applied Polymer Science*, **2009**, 113, 3860-3865	2.9	73
131	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
130	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
129	The facts and hypotheses relating to the phenomenological model of cellulose pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2009**, 84, 1-17	6	160
128	Non-isothermal crystallization kinetics of iPP/sPP blends. *Thermochimica Acta*, **2009**, 481, 32-45	2.9	14
127	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
126	Kinetic analysis of the thermal degradation of an epoxy-based intumescent coating. *Polymer Degradation and Stability*, **2009**, 94, 404-409	4.7	40
125	Mechanism of intumescence of a polyethylene/calcium carbonate/stearic acid system. *Polymer Degradation and Stability*, **2009**, 94, 797-803	4.7	38
124	Polyhedral oligomeric silsesquioxane as flame retardant for thermoplastic polyurethane. *Polymer Degradation and Stability*, **2009**, 94, 1230-1237	4.7	139
123	Supercritical CO2 as an efficient medium for layered silicate organomodification: Preparation of thermally stable organoclays and dispersion in polyamide 6. *Polymer*, **2009**, 50, 1438-1446	3.9	24
122	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
121	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
120	Functionalized-Carbon Multiwall Nanotube as Flame Retardant for Polylactic Acid. *ACS Symposium Series*, **2009**, 25-34	0.4	4
119	Effects of Fire Retardants and Nanofillers on the Fire Toxicity. *ACS Symposium Series*, **2009**, 342-366	0.4	4
118	Salen Copper Complexes: A Novel Flame Retardant for Thermoplastic Polyurethane. *ACS Symposium Series*, **2009**, 329-340	0.4	18

117	Poly(caprolactone)/clay masterbatches prepared in supercritical CO2 as efficient clay delamination promoters in poly(styrene-co-acrylonitrile). *Journal of Materials Chemistry*, **2008**, 18, 4623		15
116	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
115	Flame retardancy of textiles: new approaches **2008**, 9-40		13
114	PLA nanocomposites: quantification of clay nanodispersion and reaction to fire. *International Journal of Nanotechnology*, **2008**, 5, 683	1.5	26
113	Fire and Gas Barrier Properties of Poly(styrene-co-acrylonitrile) Nanocomposites Using Polycaprolactone/Clay Nanohybrid Based-Masterbatch. *Advances in Materials Science and Engineering*, **2008**, 2008, 1-11	1.5	12
112	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
111	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
110	Flammability properties of intumescent PLA including starch and lignin. *Polymers for Advanced Technologies*, **2008**, 19, 628-635	3.2	257
109	Structure and Properties of PHA/Clay Nano-Biocomposites Prepared by Melt Intercalation. *Macromolecular Chemistry and Physics*, **2008**, 209, 1473-1484	2.6	98
108	Preparation of multinuclear microparticles using a polymerization in emulsion process. *Journal of Applied Polymer Science*, **2008**, 107, 2444-2452	2.9	18
107	Nonwoven as heat barrier: Modeling of the efficiency of Carbtex fibers. *Journal of Applied Polymer Science*, **2008**, 108, 3245-3255	2.9	6
106	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
105	The use of POSS as synergist in intumescent recycled poly(ethylene terephthalate). *Polymer Degradation and Stability*, **2008**, 93, 818-826	4.7	118
104	Fire retardancy of polymer clay nanocomposites: Is there an influence of the nanomorphology?. *Polymer Degradation and Stability*, **2008**, 93, 2019-2024	4.7	79
103	Processing and nanodispersion: A quantitative approach for polylactide nanocomposite. *Polymer Testing*, **2008**, 27, 2-10	4.5	49
102	Development of a precipitation method intended for the entrapment of hydrated salt. *Carbohydrate Polymers*, **2008**, 73, 231-240	10.3	19
101	Characterisation of the dispersion in polymer flame retarded nanocomposites. *European Polymer Journal*, **2008**, 44, 1631-1641	5.2	67
100	Polymer nanoparticles to decrease thermal conductivity of phase change materials. *Thermochimica Acta*, **2008**, 477, 25-31	2.9	28

99	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
98	Fire retardant polymers: recent developments and opportunities. *Journal of Materials Chemistry*, **2007**, 17, 2283		490
97	Effect of zinc borate on the thermal degradation of ammonium polyphosphate. *Thermochimica Acta* , **2007**, 456, 134-144	2.9	120
96	Characterization of SWCNT and PAN/SWCNT films. *Carbon*, **2007**, 45, 2417-2423	10.4	13
95	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
94	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
93	(Plasticized) Polylactide/clay nanocomposite textile: thermal, mechanical, shrinkage and fire properties. *Journal of Materials Science*, **2007**, 42, 5105-5117	4.3	82
92	Interactions between chlorinated paraffins and melamine in intumescent paints: investing a way to suppress chlorinated paraffins from the formulations. *Progress in Organic Coatings*, **2006**, 57, 430-438	4.8	20
91	Rheological and thermogravimetric studies of the crosslinking process of functionalized acrylic latexes. *Journal of Applied Polymer Science*, **2006**, 99, 1117-1123	2.9	4
90	Effect of spin finish on fiber/binder adhesion in chemically bonded nonwovens. *Journal of Applied Polymer Science*, **2006**, 102, 4092-4100	2.9	2
89	Multiscale Experimental Approach for Developing High-Performance Intumescent Coatings. *Industrial & Engineering Chemistry Research*, **2006**, 45, 4500-4508	3.9	95
88	High-Throughput Fire Testing for Intumescent Coatings. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7475-7481	3.9	51
87	Polymer Nanocomposites: How to Reach Low Flammability?. *Macromolecular Symposia*, **2006**, 233, 180-190	3.8	137
86	Heat and fire resistance of polyurethane-polydimethylsiloxane hybrid material. *Polymers for Advanced Technologies*, **2006**, 17, 304-311	3.2	25
85	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
84	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
83	Microencapsulation of ammonium phosphate with a polyurethane shell. Part II. Interfacial polymerization technique. *Reactive and Functional Polymers*, **2006**, 66, 1118-1125	4.6	107
82	Characterization of the performance of an intumescent fire protective coating. *Surface and Coatings Technology*, **2006**, 201, 979-987	4.4	177

81	Intumescent fire protective coating: Toward a better understanding of their mechanism of action. *Thermochimica Acta*, **2006**, 449, 16-26	2.9	239
80	Microencapsulation of ammonium phosphate with a polyurethane shell part I: Coacervation technique. *Reactive and Functional Polymers*, **2005**, 64, 127-138	4.6	107
79	Flame retarded polyurea with microencapsulated ammonium phosphate for textile coating. *Polymer Degradation and Stability*, **2005**, 88, 106-113	4.7	110
78	Kinetic analysis of pyrolysis of cross-linked polymers. *Polymer Degradation and Stability*, **2005**, 88, 85-91	4.7	19
77	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
76	Modulated thermogravimetry in analysis of decomposition kinetics. *Chemical Engineering Science*, **2005**, 60, 747-766	4.4	28
75	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
74	Guanidine Hydrogen Phosphate-Based Flame-Retardant Formulations for Cotton. *Journal of Industrial Textiles*, **2004**, 34, 27-38	1.6	16
73	Structure and morphology of an intumescent polypropylene blend. *Journal of Applied Polymer Science*, **2004**, 93, 402-411	2.9	21
72	Recent Advances for Intumescent Polymers. *Macromolecular Materials and Engineering*, **2004**, 289, 499-511	3.9	583
71	Kinetic analysis of the thermal degradation of polystyrene□montmorillonite nanocomposite. *Polymer Degradation and Stability*, **2004**, 84, 483-492	4.7	184
70	Solid state NMR characterization and flammability of styrene□acrylonitrile copolymer montmorillonite nanocomposite. *Polymer*, **2004**, 45, 7627-7638	3.9	86
69	Kinetic analysis of the thermal degradation of polystyrene□montmorillonite nanocomposite. *Polymer Degradation and Stability*, **2004**, 84, 483-483	4.7	
68	Three model-Free methods for calculation of activation energy in TG **2004**, 78, 1009		3
67	Intumescent PP Blends. *Polymers and Polymer Composites*, **2003**, 11, 691-702	0.8	7
66	Characterisation and reaction to fire of M5□rigid rod polymer fibres. *Journal of Materials Science*, **2003**, 38, 2187-2194	4.3	10
65	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
64	Expandable graphite: A fire retardant additive for polyurethane coatings. *Fire and Materials*, **2003**, 27, 103-117	1.8	147

63	Effect of fillers on the fire retardancy of intumescent polypropylene compounds. *Polymer Degradation and Stability*, **2003**, 82, 325-331	4.7	197
62	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
61	Effect of fillers on fire retardancy of intumescent polypropylene blends. *Macromolecular Symposia*, **2003**, 198, 435-448	0.8	62
60	Crystallization behavior of PA-6 clay nanocomposite hybrid. *Journal of Applied Polymer Science*, **2002**, 86, 2416-2423	2.9	101
59	Flammability of polyamide-6/clay hybrid nanocomposite textiles. *Polymer Degradation and Stability*, **2002**, 75, 397-402	4.7	158
58	Intumescent flame retardant systems of modified rheology. *Polymer Degradation and Stability*, **2002**, 77, 243-247	4.7	79
57	Wool/para-aramid fibres blended in spun yarns as heat and fire resistant fabrics. *Polymer Degradation and Stability*, **2002**, 77, 279-284	4.7	13
56	Microencapsulation of phosphate. *Polymer Degradation and Stability*, **2002**, 77, 285-297	4.7	97
55	Using polyamide 6 as charring agent in intumescent polypropylene formulations II. Thermal degradation. *Polymer Degradation and Stability*, **2002**, 77, 315-323	4.7	62
54	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
53	Thermal degradation of cotton under linear heating. *Polymer Degradation and Stability*, **2002**, 78, 57-62	4.7	32
52	Characterisation of poly(p-phenylenebenzobisoxazole) fibres by solid state NMR. *European Polymer Journal*, **2002**, 38, 1645-1651	5.2	35
51	Calculation of activation energies using the sinusoidally modulated temperature. *Magyar Apród Kémiai Folyóirat*, **2002**, 70, 565-579	0	24
50	Blends of Wool with High Performance Fibers as Heat and Fire Resistant Fabrics. *Journal of Fire Sciences*, **2002**, 20, 3-22	1.5	18
49	Study of the thermal degradation of high performance fibres–application to polybenzazole and p-aramid fibres. *Polymer Degradation and Stability*, **2001**, 74, 283-290	4.7	62
48	Flame retardant formulations for cotton. *Polymer Degradation and Stability*, **2001**, 74, 487-492	4.7	57
47	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
46	Thermal degradation of polyurethane and polyurethane/expandable graphite coatings. *Polymer Degradation and Stability*, **2001**, 74, 493-499	4.7	151

45	Influence of modified rheology on the efficiency of intumescent flame retardant systems. *Polymer Degradation and Stability*, **2001**, 74, 423-426	4.7	39
44	Thermal degradation of poly(p-phenylenebenzobisoxazole) and poly(p-phenylenediamine terephthalamide) fibres. *Polymer International*, **2001**, 50, 157-164	3.3	50
43	Mechanism of fire retardancy of polyurethanes using ammonium polyphosphate. *Journal of Applied Polymer Science*, **2001**, 82, 3262-3274	2.9	138
42	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
41	Flame Behavior of Cotton Coated with Polyurethane Containing Microencapsulated Flame Retardant Agent. *Journal of Industrial Textiles*, **2001**, 31, 11-26	1.6	36
40	Use of polyurethanes as char-forming agents in polypropylene intumescent formulations. *Polymer International*, **2000**, 49, 1115-1124	3.3	134
39	Rheological investigations in fire retardancy: application to ethylene–vinyl-acetate copolymer–magnesium hydroxide/zinc borate formulations. *Polymer International*, **2000**, 49, 1216-1221	3.3	53
38	PA-6 clay nanocomposite hybrid as char forming agent in intumescent formulations. *Fire and Materials*, **2000**, 24, 201-208	1.8	287
37	Charring of fire retarded ethylene vinyl acetate copolymer–magnesium hydroxide/zinc borate formulations. *Polymer Degradation and Stability*, **2000**, 69, 83-92	4.7	139
36	Characterization of a polyamide-6-based intumescent additive for thermoplastic formulations. *Polymer*, **2000**, 41, 5283-5296	3.9	47
35	Kinetic modelling of the thermal degradation. *European Polymer Journal*, **2000**, 36, 273-284	5.2	88
34	Modelling of nonisothermal kinetics in thermogravimetry. *Physical Chemistry Chemical Physics*, **2000**, 2, 4708-4716	3.6	65
33	Analysis of Fire Gases Released from Polyurethane and Fire-Retarded Polyurethane Coatings. *Journal of Fire Sciences*, **2000**, 18, 456-482	1.5	50
32	Thermogravimetric analysis of multistage decomposition of materials. *Physical Chemistry Chemical Physics*, **2000**, 2, 4796-4803	3.6	19
31	Modeling of Heat Transfer of a Polypropylene-Based Intumescent System during Combustion. *Journal of Fire Sciences*, **1999**, 17, 42-56	1.5	57
30	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
29	Fire behaviour related to the thermal degradation of unsaturated polyesters. *Polymer Degradation and Stability*, **1999**, 64, 443-448	4.7	34
28	Recent advances in the use of zinc borates in flame retardancy of EVA. *Polymer Degradation and Stability*, **1999**, 64, 419-425	4.7	168

27	New approach to flame retardancy using plasma assisted surface polymerisation techniques. *Polymer Degradation and Stability*, **1999**, 66, 153-155	4.7	37
26	Comprehensive study of the degradation of an intumescent EVA-based material during combustion. *Journal of Materials Science*, **1999**, 34, 5777-5782	4.3	116
25	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
24	New approach to the dynamic properties of an intumescent material. *Fire and Materials*, **1999**, 23, 49-51	1.8	35
23	USE OF INORGANIC PHOSPHATES IN FIRE RETARDED THERMOPLASTICS-A REVIEW. *Phosphorus Research Bulletin*, **1999**, 10, 88-93	0.3	4
22	Combustion behaviour of ethylene vinyl acetate copolymer-based intumescent formulations using oxygen consumption calorimetry. *Fire and Materials*, **1998**, 22, 119-128	1.8	38
21	13C, 25Mg and 11B solid-state NMR study of a fire retarded ethylene-vinyl acetate copolymer. *Macromolecular Symposia*, **1997**, 119, 309-315	0.8	9
20	The Thermal Behaviour of a Blend of Cotton and Fire-retardant Polyester Fibres: A Kinetic Study. *Journal of the Textile Institute*, **1997**, 88, 64-75	1.5	8
19	Heat Transfer Study of Polypropylene-Based Intumescent Systems during Combustion. *Journal of Fire Sciences*, **1997**, 15, 358-374	1.5	33
18	XPS study of an intumescent coating. *Applied Surface Science*, **1997**, 120, 15-29	6.7	146
17	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
16	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
15	The Degradation Front Model- A Tool for the Chemical Study of the Degradation of Epoxy Resins in Fire. *Journal of Fire Sciences*, **1996**, 14, 199-234	1.5	22
14	Thermal behaviour of cotton-modacrylic fibre blends: kinetic study using the invariant kinetic parameters method. *Thermochimica Acta*, **1996**, 275, 37-49	2.9	33
13	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
12	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
11	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
10	Fire Degradation of an Intumescent Flame Retardant Polypropylene Using the Cone Calorimeter. *Journal of Fire Sciences*, **1995**, 13, 3-22	1.5	90

9	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
8	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
7	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
6	Carbonization mechanisms resulting from intumescence association with the ammonium polyphosphate-pentaerythritol fire retardant system. *Carbon*, **1993**, 31, 1219-1230	10.4	145
5	Intumescence and Nanocomposites: a Novel Route for Flame-Retarding Polymeric Materials131-162		10
4	Flame retardant nanocomposites with polymer blends186-209		
3	Fireproofing polymeric materials179-188		
2	Jetfire lab: Jetfire at reduced scale. *Journal of Fire Sciences*,073490412110371	1.5	
1	Reaction to fire of polymethylmethacrylate and polyvinylchloride under reduced oxygen concentrations in a controlled-atmospherecone calorimeter. *Journal of Fire Sciences*,073490412210929	1.5	