

Serge Bourbigot

List of Publications by Year in descending order

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317
papers

18,426
citations

9234

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docs citations

326
times ranked

8800
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances for Intumescent Polymers. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 499-511.	1.7	642
2	Fire retardant polymers: recent developments and opportunities. <i>Journal of Materials Chemistry</i> , 2007, 17, 2283.	6.7	558
3	Intumescence: Tradition versus novelty. A comprehensive review. <i>Progress in Polymer Science</i> , 2015, 51, 28-73.	11.8	410
4	PA-6 clay nanocomposite hybrid as char forming agent in intumescent formulations. <i>Fire and Materials</i> , 2000, 24, 201-208.	0.9	315
5	Flammability properties of intumescent PLA including starch and lignin. <i>Polymers for Advanced Technologies</i> , 2008, 19, 628-635.	1.6	290
6	Intumescent fire protective coating: Toward a better understanding of their mechanism of action. <i>Thermochimica Acta</i> , 2006, 449, 16-26.	1.2	275
7	Carbonization mechanisms resulting from intumescence-part II. Association with an ethylene terpolymer and the ammonium polyphosphate-pentaerythritol fire retardant system. <i>Carbon</i> , 1995, 33, 283-294.	5.4	254
8	Lignin-derived bio-based flame retardants toward high-performance sustainable polymeric materials. <i>Green Chemistry</i> , 2020, 22, 2129-2161.	4.6	249
9	Flame retardancy of polylactide: an overview. <i>Polymer Chemistry</i> , 2010, 1, 1413.	1.9	247
10	The production and properties of polylactide composites filled with expanded graphite. <i>Polymer Degradation and Stability</i> , 2010, 95, 889-900.	2.7	244
11	Effect of fillers on the fire retardancy of intumescent polypropylene compounds. <i>Polymer Degradation and Stability</i> , 2003, 82, 325-331.	2.7	216
12	Preparation of Homogeneously Dispersed Multiwalled Carbon Nanotube/Polystyrene Nanocomposites via Melt Extrusion Using Trialkyl Imidazolium Compatibilizer. <i>Advanced Functional Materials</i> , 2005, 15, 910-916.	7.8	209
13	Characterization of the performance of an intumescent fire protective coating. <i>Surface and Coatings Technology</i> , 2006, 201, 979-987.	2.2	200
14	Kinetic analysis of the thermal degradation of polystyrene/montmorillonite nanocomposite. <i>Polymer Degradation and Stability</i> , 2004, 84, 483-492.	2.7	196
15	Recent advances in the use of zinc borates in flame retardancy of EVA. <i>Polymer Degradation and Stability</i> , 1999, 64, 419-425.	2.7	190
16	The facts and hypotheses relating to the phenomenological model of cellulose pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 84, 1-17.	2.6	185
17	The origin and nature of flame retardance in ethylene-vinyl acetate copolymers containing hostaflam AP 750. <i>Polymer International</i> , 1999, 48, 264-270.	1.6	183
18	Flammability of polyamide-6/clay hybrid nanocomposite textiles. <i>Polymer Degradation and Stability</i> , 2002, 75, 397-402.	2.7	174

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19	Thermal degradation of polyurethane and polyurethane/expandable graphite coatings. <i>Polymer Degradation and Stability</i> , 2001, 74, 493-499.	2.7	170
20	Starch-Based Layer by Layer Assembly: Efficient and Sustainable Approach to Cotton Fire Protection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12158-12167.	4.0	170
21	Carbonization mechanisms resulting from intumescence association with the ammonium polyphosphate-pentaerythritol fire retardant system. <i>Carbon</i> , 1993, 31, 1219-1230.	5.4	169
22	Mechanism of fire retardancy of polyurethanes using ammonium polyphosphate. <i>Journal of Applied Polymer Science</i> , 2001, 82, 3262-3274.	1.3	166
23	Synergistic effect of zeolite in an intumescence process: study of the carbonaceous structures using solid-state NMR. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 149.	1.7	163
24	XPS study of an intumescent coating. <i>Applied Surface Science</i> , 1997, 120, 15-29.	3.1	163
25	Expandable graphite: A fire retardant additive for polyurethane coatings. <i>Fire and Materials</i> , 2003, 27, 103-117.	0.9	163
26	Polyhedral oligomeric silsesquioxane as flame retardant for thermoplastic polyurethane. <i>Polymer Degradation and Stability</i> , 2009, 94, 1230-1237.	2.7	161
27	Kinetic analysis of the thermal decomposition of cellulose: The main step of mass loss. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 80, 151-165.	2.6	159
28	Charring of fire retarded ethylene vinyl acetate copolymer " magnesium hydroxide/zinc borate formulations. <i>Polymer Degradation and Stability</i> , 2000, 69, 83-92.	2.7	157
29	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. <i>Fire and Materials</i> , 1996, 20, 191-203.	0.9	153
30	New trends in polylactide (PLA)-based materials: "Green" PLA " Calcium sulfate (nano)composites tailored with flame retardant properties. <i>Polymer Degradation and Stability</i> , 2010, 95, 374-381.	2.7	153
31	Use of polyurethanes as char-forming agents in polypropylene intumescent formulations. <i>Polymer International</i> , 2000, 49, 1115-1124.	1.6	146
32	Synergistic effect of zeolite in an intumescence process. Study of the interactions between the polymer and the additives. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3435-3444.	1.7	142
33	Polymer Nanocomposites: How to Reach Low Flammability?. <i>Macromolecular Symposia</i> , 2006, 233, 180-190.	0.4	140
34	XPS study of an intumescent coating application to the ammonium polyphosphate/pentaerythritol fire-retardant system. <i>Applied Surface Science</i> , 1994, 81, 299-307.	3.1	139
35	Effect of zinc borate on the thermal degradation of ammonium polyphosphate. <i>Thermochimica Acta</i> , 2007, 456, 134-144.	1.2	139
36	The use of POSS as synergist in intumescent recycled poly(ethylene terephthalate). <i>Polymer Degradation and Stability</i> , 2008, 93, 818-826.	2.7	130

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37	Comprehensive study of the degradation of an intumescent EVA-based material during combustion. <i>Journal of Materials Science</i> , 1999, 34, 5777-5782.	1.7	129
38	Flame retarded polyurea with microencapsulated ammonium phosphate for textile coating. <i>Polymer Degradation and Stability</i> , 2005, 88, 106-113.	2.7	126
39	Investigation of nanodispersion in polystyrene-montmorillonite nanocomposites by solid-state NMR. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 3188-3213.	2.4	122
40	Thermoregulating response of cotton fabric containing microencapsulated phase change materials. <i>Thermochimica Acta</i> , 2010, 506, 82-93.	1.2	118
41	Polyallylamine- γ -montmorillonite as super flame retardant coating assemblies by layer-by layer deposition on polyamide. <i>Polymer Degradation and Stability</i> , 2013, 98, 627-634.	2.7	118
42	Preparation of a Novel Intumescent Flame Retardant Based on Supramolecular Interactions and Its Application in Polyamide 11. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24964-24975.	4.0	117
43	Influence of process parameters on microcapsules loaded with n-hexadecane prepared by in situ polymerization. <i>Chemical Engineering Journal</i> , 2009, 155, 457-465.	6.6	116
44	Microencapsulation of ammonium phosphate with a polyurethane shell part I: Coacervation technique. <i>Reactive and Functional Polymers</i> , 2005, 64, 127-138.	2.0	115
45	Microencapsulation of ammonium phosphate with a polyurethane shell. Part II. Interfacial polymerization technique. <i>Reactive and Functional Polymers</i> , 2006, 66, 1118-1125.	2.0	113
46	Crystallization behavior of PA-6 clay nanocomposite hybrid. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2416-2423.	1.3	111
47	Water-assisted extrusion as a novel processing route to prepare polypropylene/halloysite nanotube nanocomposites: Structure and properties. <i>Polymer</i> , 2011, 52, 4284-4295.	1.8	111
48	Structure and Properties of PHA/Clay Nano-Biocomposites Prepared by Melt Intercalation. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1473-1484.	1.1	110
49	Multiscale Experimental Approach for Developing High-Performance Intumescent Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4500-4508.	1.8	108
50	Characterization and Reaction to Fire of Polymer Nanocomposites with and without Conventional Flame Retardants. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 486, 325/[1367]-339/[1381].	0.4	108
51	The fire performance of polylactic acid containing a novel intumescent flame retardant and intercalated layered double hydroxides. <i>Journal of Materials Science</i> , 2017, 52, 12235-12250.	1.7	108
52	A comprehensive study of the synergistic flame retardant mechanisms of halloysite in intumescent polypropylene. <i>Polymer Degradation and Stability</i> , 2013, 98, 2268-2281.	2.7	106
53	Fire Degradation of an Intumescent Flame Retardant Polypropylene Using the Cone Calorimeter. <i>Journal of Fire Sciences</i> , 1995, 13, 3-22.	0.9	105
54	Thermal degradation of DNA, an all-in-one natural intumescent flame retardant. <i>Polymer Degradation and Stability</i> , 2015, 113, 110-118.	2.7	105

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55	Microencapsulation of phosphate. <i>Polymer Degradation and Stability</i> , 2002, 77, 285-297.	2.7	103
56	Reactive extrusion of PLA and of PLA/carbon nanotubes nanocomposite: processing, characterization and flame retardancy. <i>Polymers for Advanced Technologies</i> , 2011, 22, 30-37.	1.6	103
57	Influence of exfoliated graphene nanoplatelets on flame retardancy of kenaf flour polypropylene hybrid nanocomposites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 65-72.	2.6	102
58	Kinetic modelling of the thermal degradation. <i>European Polymer Journal</i> , 2000, 36, 273-284.	2.6	98
59	Nanomorphology and reaction to fire of polyurethane and polyamide nanocomposites containing flame retardants. <i>Polymer Degradation and Stability</i> , 2010, 95, 320-326.	2.7	98
60	Phosphorylation of lignin to flame retard acrylonitrile butadiene styrene (ABS). <i>Polymer Degradation and Stability</i> , 2016, 127, 32-43.	2.7	97
61	Solid state NMR characterization and flammability of styrene-acrylonitrile copolymer montmorillonite nanocomposite. <i>Polymer</i> , 2004, 45, 7627-7638.	1.8	96
62	Thermal decomposition of flame retarded formulations PA6/aluminum phosphinate/melamine polyphosphate/organomodified clay: Interactions between the constituents?. <i>Polymer Degradation and Stability</i> , 2012, 97, 2217-2230.	2.7	96
63	(Plasticized) Polylactide/clay nanocomposite textile: thermal, mechanical, shrinkage and fire properties. <i>Journal of Materials Science</i> , 2007, 42, 5105-5117.	1.7	95
64	Neutralized flame retardant phosphorus agent: Facile synthesis, reaction to fire in PP and synergy with zinc borate. <i>Polymer Degradation and Stability</i> , 2008, 93, 68-76.	2.7	94
65	Thermal oxidative degradation of epoxy resins: evaluation of their heat resistance using invariant kinetic parameters. <i>Polymer Degradation and Stability</i> , 1994, 45, 387-397.	2.7	92
66	Intumescent flame retardant systems of modified rheology. <i>Polymer Degradation and Stability</i> , 2002, 77, 243-247.	2.7	85
67	Effect of Nanoclay Hydration on Barrier Properties of PLA/Montmorillonite Based Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12117-12135.	1.5	85
68	Kinetic analysis of the thermal decomposition of a carbon fibre-reinforced epoxy resin laminate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 14-21.	2.6	84
69	Fire retardancy of polymer clay nanocomposites: Is there an influence of the nanomorphology?. <i>Polymer Degradation and Stability</i> , 2008, 93, 2019-2024.	2.7	83
70	Thermal degradation of DNA-treated cotton fabrics under different heating conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 108, 212-221.	2.6	82
71	Extreme Heat Shielding of Clay/Chitosan Nanobrick Wall on Flexible Foam. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31686-31696.	4.0	81
72	Zeolites: New Synergistic Agents for Intumescent Fire Retardant Thermoplastic Formulations? Criteria for the Choice of the Zeolite. <i>Fire and Materials</i> , 1996, 20, 145-154.	0.9	79

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73	Effects of nanoclay and fire retardants on fire retardancy of a polymer blend of EVA and LDPE. <i>Fire Safety Journal</i> , 2009, 44, 504-513.	1.4	79
74	The preparation of a bio-polyelectrolytes based core-shell structure and its application in flame retardant polylactic acid composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105485.	3.8	79
75	Intumescent polylactide: A nonflammable material. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3860-3865.	1.3	78
76	Designing polylactide/clay nanocomposites for textile applications: Effect of processing conditions, spinning, and characterization. <i>Journal of Applied Polymer Science</i> , 2008, 109, 841-851.	1.3	74
77	Melamine integrated metal phosphates as non-halogenated flame retardants: Synergism with aluminium phosphinate for flame retardancy in glass fiber reinforced polyamide 66. <i>Polymer Degradation and Stability</i> , 2013, 98, 2653-2662.	2.7	74
78	Using polyamide-6 as charring agent in intumescent polypropylene formulations I. Effect of the compatibilising agent on the fire retardancy performance. <i>Polymer Degradation and Stability</i> , 2002, 77, 305-313.	2.7	73
79	Modeling of Heat Transfer of a Polypropylene-Based Intumescent System during Combustion. <i>Journal of Fire Sciences</i> , 1999, 17, 42-56.	0.9	72
80	Modelling of nonisothermal kinetics in thermogravimetry. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4708-4716.	1.3	72
81	Study of the thermal degradation of high performance fibres – application to polybenzazole and p-aramid fibres. <i>Polymer Degradation and Stability</i> , 2001, 74, 283-290.	2.7	71
82	Using polyamide 6 as charring agent in intumescent polypropylene formulations II. Thermal degradation. <i>Polymer Degradation and Stability</i> , 2002, 77, 315-323.	2.7	69
83	Characterisation of the dispersion in polymer flame retarded nanocomposites. <i>European Polymer Journal</i> , 2008, 44, 1631-1641.	2.6	68
84	Effect of fillers on fire retardancy of intumescent polypropylene blends. <i>Macromolecular Symposia</i> , 2003, 198, 435-448.	0.4	65
85	Model-free method for evaluation of activation energies in modulated thermogravimetry and analysis of cellulose decomposition. <i>Chemical Engineering Science</i> , 2006, 61, 1276-1292.	1.9	65
86	Flame retardant formulations for cotton. <i>Polymer Degradation and Stability</i> , 2001, 74, 487-492.	2.7	64
87	Comprehensive Study of the Influence of Different Aging Scenarios on the Fire Protective Behavior of an Epoxy Based Intumescent Coating. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 729-743.	1.8	62
88	Effect of Highly Exfoliated and Oriented Organoclays on the Barrier Properties of Polyamide 6 Based Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4937-4947.	1.5	61
89	Reaction to fire of an intumescent epoxy resin: Protection mechanisms and synergy. <i>Polymer Degradation and Stability</i> , 2012, 97, 1366-1386.	2.7	60
90	Rheological investigations in fire retardancy: application to ethylene-vinyl-acetate copolymer-magnesium hydroxide/zinc borate formulations. <i>Polymer International</i> , 2000, 49, 1216-1221.	1.6	58

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91	The Use of Clay in an EVA-Based Intumescent Formulation. Comparison with the Intumescent Formulation Using Polyamide-6 Clay Nanocomposite As Carbonisation Agent. <i>Journal of Fire Sciences</i> , 2001, 19, 219-241.	0.9	58
92	Kinetic analysis of the thermal decomposition of cellulose: The change of the rate limitation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 80, 141-150.	2.6	58
93	Elaboration of poly(lactic acid)/halloysite nanocomposites by means of water assisted extrusion: structure, mechanical properties and fire performance. <i>RSC Advances</i> , 2014, 4, 57553-57563.	1.7	58
94	Mineral Fillers in Intumescent Fire Retardant Formulations ? Criteria for the Choice of a Natural Clay Filler for the Ammonium Polyphosphate/Pentaerythritol/Polypropylene System. <i>Fire and Materials</i> , 1996, 20, 39-49.	0.9	56
95	Thermal degradation and fire performance of intumescent silicone-based coatings. <i>Polymers for Advanced Technologies</i> , 2013, 24, 62-69.	1.6	56
96	Intumescent coating of (polyallylamine-polyphosphates) deposited on polyamide fabrics via layer-by-layer technique. <i>Polymer Degradation and Stability</i> , 2014, 106, 158-164.	2.7	56
97	Flammability and thermal properties of polycarbonate /acrylonitrile-butadiene-styrene nanocomposites reinforced with multilayer graphene. <i>Polymer Degradation and Stability</i> , 2015, 120, 88-97.	2.7	56
98	Analysis of Fire Gases Released from Polyurethane and Fire-Retarded Polyurethane Coatings. <i>Journal of Fire Sciences</i> , 2000, 18, 456-482.	0.9	55
99	Thermal degradation of poly(p-phenylenebenzobisoxazole) and poly(p-phenylenediamine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.6	55
100	Characterization of the carbonization process of expandable graphite/silicone formulations in a simulated fire. <i>Polymer Degradation and Stability</i> , 2013, 98, 1052-1063.	2.7	54
101	Microstructure and barrier properties of PHBV/organoclays bionanocomposites. <i>Journal of Membrane Science</i> , 2014, 467, 56-66.	4.1	54
102	Surface grafting of sepiolite with a phosphaphenanthrene derivative and its flame-retardant mechanism on PLA nanocomposites. <i>Polymer Degradation and Stability</i> , 2019, 165, 68-79.	2.7	54
103	Thermal and flammability properties of polyethersulfone/halloysite nanocomposites prepared by melt compounding. <i>Polymer Degradation and Stability</i> , 2013, 98, 1993-2004.	2.7	53
104	Fire behaviour of carbon fibre epoxy composite for aircraft: Novel test bench and experimental study. <i>Journal of Fire Sciences</i> , 2015, 33, 247-266.	0.9	53
105	The Preparation of an Intumescent Flame Retardant by Ion Exchange and Its Application in Polylactic Acid. <i>ACS Applied Polymer Materials</i> , 2019, 1, 755-764.	2.0	53
106	Characterization of a polyamide-6-based intumescent additive for thermoplastic formulations. <i>Polymer</i> , 2000, 41, 5283-5296.	1.8	52
107	High-Throughput Fire Testing for Intumescent Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7475-7481.	1.8	52
108	Experimental and numerical study of the effects of nanoparticles on pyrolysis of a polyamide 6 (PA6) nanocomposite in the cone calorimeter. <i>Combustion and Flame</i> , 2009, 156, 2056-2062.	2.8	52

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109	Phosphorylation of lignin: characterization and investigation of the thermal decomposition. RSC Advances, 2017, 7, 16866-16877.	1.7	52
110	New Trends in Reaction and Resistance to Fire of Fire-retardant Epoxies. Materials, 2010, 3, 4476-4499.	1.3	51
111	Title is missing!. Journal of Materials Science, 2003, 38, 4451-4460.	1.7	50
112	Processing and nanodispersion: A quantitative approach for polylactide nanocomposite. Polymer Testing, 2008, 27, 2-10.	2.3	50
113	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.	2.6	50
114	Layer-by-layer deposition of a TiO ₂ -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.	2.3	50
115	Thermal Degradation and Fire Behavior of High Performance Polymers. Polymer Reviews, 2019, 59, 55-123.	5.3	50
116	Influence of the solvent on the microencapsulation of an hydrated salt. Carbohydrate Polymers, 2010, 79, 964-974.	5.1	49
117	Progress in safety, flame retardant textiles and flexible fire barriers for seats in transportation. Polymer Degradation and Stability, 2005, 88, 98-105.	2.7	48
118	Kinetic analysis of the thermal degradation of an epoxy-based intumescent coating. Polymer Degradation and Stability, 2009, 94, 404-409.	2.7	48
119	Influence of talc on the fire retardant properties of highly filled intumescent polypropylene composites. Polymers for Advanced Technologies, 2008, 19, 620-627.	1.6	46
120	Synergistic and antagonistic effects in flame retardancy of an intumescent epoxy resin. Polymers for Advanced Technologies, 2011, 22, 1085-1090.	1.6	45
121	Investigation of the decomposition pathway of polyamide 6/ammonium sulfamate fibers. Polymer Degradation and Stability, 2014, 106, 150-157.	2.7	45
122	Thermal degradation and fire performance of polysilazane-based coatings. Thermochimica Acta, 2011, 519, 28-37.	1.2	43
123	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.	2.7	43
124	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.	0.9	42
125	New approach to flame retardancy using plasma assisted surface polymerisation techniques. Polymer Degradation and Stability, 1999, 66, 153-155.	2.7	42
126	Novel flame retardant flexible polyurethane foam: plasma induced graft-polymerization of phosphonates. RSC Advances, 2015, 5, 63853-63865.	1.7	42

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127	Crossing the Traditional Boundaries: Salen-Based Schiff Bases for Thermal Protective Applications. ACS Applied Materials & Interfaces, 2015, 7, 21208-21217.	4.0	42
128	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.	1.7	41
129	Resistance to fire of intumescent silicone based coating: The role of organoclay. Progress in Organic Coatings, 2013, 76, 1633-1641.	1.9	41
130	Mechanically robust and flame-retardant polylactide composites based on molecularly-engineered polyphosphoramides. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106317.	3.8	41
131	Heat Transfer Study of Polypropylene-Based Intumescent Systems during Combustion. Journal of Fire Sciences, 1997, 15, 358-374.	0.9	40
132	Combustion behaviour of ethylene vinyl acetate copolymer-based intumescent formulations using oxygen consumption calorimetry. Fire and Materials, 1998, 22, 119-128.	0.9	40
133	Influence of modified rheology on the efficiency of intumescent flame retardant systems. Polymer Degradation and Stability, 2001, 74, 423-426.	2.7	40
134	Investigation of the thermal degradation of PET, zinc phosphinate, OMPOSS and their blends – Identification of the formed species. Thermochemica Acta, 2009, 495, 155-166.	1.2	40
135	Chitosan-grafted nonwoven geotextile for heavy metals sorption in sediments. Reactive and Functional Polymers, 2013, 73, 53-59.	2.0	39
136	Influence of inorganic fillers on the fire protection of intumescent coatings. Journal of Fire Sciences, 2013, 31, 258-275.	0.9	39
137	New approach to the dynamic properties of an intumescent material. Fire and Materials, 1999, 23, 49-51.	0.9	38
138	Flame Behavior of Cotton Coated with Polyurethane Containing Microencapsulated Flame Retardant Agent. Journal of Industrial Textiles, 2001, 31, 11-26.	1.1	38
139	Mechanism of intumescence of a polyethylene/calcium carbonate/stearic acid system. Polymer Degradation and Stability, 2009, 94, 797-803.	2.7	38
140	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.	2.7	38
141	Improving the flame retardancy of polyamide 6 by incorporating hexachlorocyclotriphosphazene modified MWNT. Polymers for Advanced Technologies, 2014, 25, 1099-1107.	1.6	38
142	Flame Retardancy of PA6 Using a Guanidine Sulfamate/Melamine Polyphosphate Mixture. Polymers, 2015, 7, 316-332.	2.0	38
143	Synthesis of isosorbide based flame retardants: Application for polybutylene succinate. Polymer Degradation and Stability, 2019, 164, 9-17.	2.7	38
144	Fire behaviour related to the thermal degradation of unsaturated polyesters. Polymer Degradation and Stability, 1999, 64, 443-448.	2.7	37

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145	Thermal behaviour of cotton-modacrylic fibre blends: kinetic study using the invariant kinetic parameters method. <i>Thermochimica Acta</i> , 1996, 275, 37-49.	1.2	36
146	Thermal degradation of cotton under linear heating. <i>Polymer Degradation and Stability</i> , 2002, 78, 57-62.	2.7	36
147	Characterisation of poly(p-phenylenebenzobisoxazole) fibres by solid state NMR. <i>European Polymer Journal</i> , 2002, 38, 1645-1651.	2.6	36
148	Towards scalable production of polyamide 12/halloysite nanocomposites via water-assisted extrusion: mechanical modeling, thermal and fire properties. <i>Polymers for Advanced Technologies</i> , 2014, 25, 137-151.	1.6	36
149	Salen based Schiff bases to flame retard thermoplastic polyurethane mimicking operational strategies of thermosetting resin. <i>RSC Advances</i> , 2015, 5, 48224-48235.	1.7	36
150	Development and characterisation of flame-retardant fibres from isotactic polypropylene melt-compounded with melamine-formaldehyde microcapsules. <i>Polymer Degradation and Stability</i> , 2011, 96, 131-143.	2.7	35
151	Investigation of the synergy in intumescent polyurethane by 3D computed tomography. <i>Polymer Degradation and Stability</i> , 2013, 98, 1638-1647.	2.7	35
152	Flammability and thermal degradation of poly (lactic acid)/polycarbonate alloys containing a phosphazene derivative and trisilanolisobutyl POSS. <i>Polymer</i> , 2015, 79, 221-231.	1.8	35
153	Intumescent ethylene-vinyl acetate copolymer: Reaction to fire and mechanistic aspects. <i>Polymer Degradation and Stability</i> , 2019, 161, 235-244.	2.7	35
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