

Li Gong

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102
papers

1,109
citations

17
h-index

27
g-index

113
ext. papers

1,567
ext. citations

4.5
avg, IF

5.26
L-index

#	Paper	IF	Citations
102	Effects of metal oxides on intumescent flame-retardant polypropylene. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 495-501	3.2	87
101	Thermal Decomposition and Combustion of Ammonium Dinitramide (Review). <i>Combustion, Explosion and Shock Waves</i> , 2005 , 41, 657-679	1	63
100	Synthesis of a novel dual layered double hydroxide hybrid nanomaterial and its application in epoxy nanocomposites. <i>Chemical Engineering Journal</i> , 2020 , 381, 122777	14.7	57
99	Effect of nano-aluminum hydroxide on mechanical properties, flame retardancy and combustion behavior of intumescent flame retarded polypropylene. <i>Materials and Design</i> , 2016 , 89, 988-995	8.1	48
98	Mechanical, thermal properties, and flame retardancy of PC/ultrafine octaphenyl-POSS composites. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 3807-3814	2.9	44
97	Blowing-out effect and temperature profile in condensed phase in flame retarding epoxy resins by phosphorus-containing oligomeric silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 951-964	3.2	35
96	The rise of MOFs and their derivatives for flame retardant polymeric materials: A critical review. <i>Composites Part B: Engineering</i> , 2020 , 199, 108265	10	33
95	Confined Dispersion of Zinc Hydroxystannate Nanoparticles into Layered Bimetallic Hydroxide Nanocapsules and Its Application in Flame-Retardant Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40951-40960	9.5	32
94	Synergistic barrier effect of aluminum phosphate on flame retardant polypropylene based on ammonium polyphosphate/dipentaerythritol system. <i>Materials and Design</i> , 2019 , 181, 107913	8.1	30
93	Dry synthesis of mesoporous nanosheet assembly constructed by cyclomatrix polyphosphazene frameworks and its application in flame retardant polypropylene. <i>Chemical Engineering Journal</i> , 2020 , 395, 125076	14.7	30
92	Fire-resistant, ultralight, superelastic and thermally insulated polybenzazole aerogels. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20769-20777	13	27
91	Hydrogen generation from hydrolysis of activated aluminum/organic fluoride/bismuth composites with high hydrogen generation rate and good aging resistance in air. <i>Energy</i> , 2019 , 170, 159-169	7.9	26
90	The synthesis of melamine-based polyether polyol and its effects on the flame retardancy and physical/mechanical property of rigid polyurethane foam. <i>Journal of Materials Science</i> , 2017 , 52, 4700-4712	4.3	23
89	Interdigitated crystalline MMT/MCA in polyamide 6. <i>RSC Advances</i> , 2017 , 7, 861-869	3.7	21
88	A novel, low surface charge density, anionically modified montmorillonite for polymer nanocomposites. <i>RSC Advances</i> , 2017 , 7, 5980-5988	3.7	20
87	Investigations of Thermoplastic Poly(imide-urethanes) Flame-Retarded by Hydroxyl-Terminated Poly(dimethylsiloxane). <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9714-9720	3.9	18
86	Facile synthesis of transition metal containing polyhedral oligomeric silsesquioxane complexes with mesoporous structures and their applications in reducing fire hazards, enhancing mechanical and dielectric properties of epoxy composites. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123439	12.8	17

85	Phenolic resin/polyhedral oligomeric silsesquioxane (POSS) composites: Mechanical, ablative, thermal, and flame retardant properties. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 2075-2085	3.2	16
84	An anti-melt dripping, high char yield and flame-retardant polyether rigid polyurethane foam. <i>Polymer Degradation and Stability</i> , 2019 , 167, 189-200	4.7	16
83	Flame retardant synergism of GUP and boric acid by cone calorimetry. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5522-5527	2.9	16
82	Enhanced mechanical properties and fire retardancy of polyamide 6 nanocomposites based on interdigitated crystalline montmorillonite/hexamine cyanurate. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46039	2.9	16
81	Nickle nanocrystals decorated on graphitic nanotubes with broad channels for fire hazard reduction of epoxy resin. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123880	12.8	15
80	Crystallization, flame-retardant, and mechanical behaviors of poly(lactic acid)/9,10-dihydro-9-oxa-10-phosphaphenanthrene-10-oxide/calcium montmorillonite nanocomposite. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 46982	2.9	14
79	Effect of Organic Fluoride on Combustion Agglomerates of Aluminized HTPB Solid Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2017 , 42, 417-422	1.7	13
78	Preparation and Characterization of Organic-Inorganic Hybrid Macrocyclic Compounds: Cyclic Ladder-like Polyphenylsilsesquioxanes. <i>Inorganic Chemistry</i> , 2018 , 57, 3883-3892	5.1	13
77	Properties of a novel inherently flame-retardant rigid polyurethane foam composite bearing imide and oxazolidinone. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47943	2.9	12
76	Synthesis of incompletely caged silsesquioxane (T7-POSS) compounds via a versatile three-step approach. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4277-4294	2.8	12
75	Layered double hydroxide [montmorillonite] a new nano-dimensional material. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 204-209	3.2	12
74	Mitigation the release of toxic PH and the fire hazard of PA6/AHP composite by MOFs. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122604	12.8	12
73	Effects of an Organic-Inorganic Hybrid Containing Allyl Benzoxazine and POSS on Thermal Properties and Flame Retardancy of Epoxy Resin. <i>Polymers</i> , 2019 , 11,	4.5	10
72	Aluminum composites with bismuth nanoparticles and graphene oxide and their application to hydrogen generation in water. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6082-6089	6.7	10
71	Multiscale Simulation on the Influence of Dimethyl Hydantoin on Mechanical Properties of GAP/RDX Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2014 , 39, 18-23	1.7	10
70	Synthesis and characterization of inherently flame-retardant and anti-dripping thermoplastic poly(imides-urethane)s. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
69	The study of char forming on OPS/PC and DOPO-POSS/PC composites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
68	Effect of carbon materials and bismuth particle size on hydrogen generation using aluminum-based composites. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152800	5.7	10

67	Effects of triphenyl phosphate on styrene suspension polymerization process and flame retardance properties of polystyrene/triphenyl phosphate nanocomposite. <i>Colloid and Polymer Science</i> , 2016 , 294, 1153-1163	2.4	9
66	Reactive extrusion of sol-gel silica as fire retardant synergistic additive in ethylene-vinyl acetate copolymer (EVA) composites. <i>Polymer Degradation and Stability</i> , 2019 , 167, 259-268	4.7	9
65	Thermal kinetic study of 1-amino-1,2,3-triazolium nitrate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 1195-1203	4.1	9
64	Thermal decomposition of polyhedral oligomeric octaphenyl, octa(nitrophenyl), and octa(aminophenyl) silsesquioxanes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 349-357	4.1	9
63	Dissociation Mechanism of HNIW Ions Investigated by Chemical Ionization and Electron Impact Mass Spectroscopy. <i>Propellants, Explosives, Pyrotechnics</i> , 2006 , 31, 148-154	1.7	9
62	Preparation of mechanically activated aluminum-rich Al-Co ₃ O ₄ powders and their thermal properties and reactivity with water steam at high temperature. <i>Combustion Science and Technology</i> , 2018 , 190, 1935-1949	1.5	8
61	Flame retardant and mechanism of vinyl ester resin modified by octaphenyl polyhedral oligomeric silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 3061-3072	3.2	8
60	Enhanced fire safety and mechanical properties of epoxy resin composites based on submicrometer-sized rod-structured methyl macrocyclic silsesquioxane sodium salt. <i>Chemical Engineering Journal</i> , 2021 , 425, 130566	14.7	8
59	The influence of solution chemistry on the morphology of ammonium dinitramide crystals. <i>Journal of Materials Science</i> , 2015 , 50, 4933-4939	4.3	7
58	Study on flame retardancy of APP/PEPA/MoO ₃ synergism in vinyl ester resins. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49026	2.9	7
57	Interdigitated crystalline MMT-MCA: Preparation and characterization. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 22-29	3.2	7
56	Ammonium polyphosphate/montmorillonite nanocompounds in polypropylene. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	7
55	Delamination and Engineered Interlayers of TiC MXenes using Phosphorous Vapor toward Flame-Retardant Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48196-48207	9.5	7
54	Flame retardant epoxy composites with epoxy-containing polyhedral oligomeric silsesquioxanes. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 2058-2074	3.2	6
53	The Effect of Different Smoke Suppressants with APP for Enhancing the Flame Retardancy and Smoke Suppression on Vinyl Ester Resin. <i>Polymer Engineering and Science</i> , 2020 , 60, 314-322	2.3	6
52	Polytriazole polyether elastomers with widely tunable mechanical properties: The role of network structure and crystallization behavior. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45298	2.9	6
51	Study on Interaction between Propargyl-Terminated Polybutadiene and Plasticizers Based on Simulation and Experiments. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6370-6377	2.8	5
50	Synthesis, characterization, and properties of a novel polyhedral oligomeric octamethyldiphenylsulfonylsilsesquioxane. <i>Journal of Materials Science</i> , 2015 , 50, 697-703	4.3	5

49	Shock-induced consolidation of tungsten nanoparticles a molecular dynamics approach. <i>Journal of Applied Physics</i> , 2020 , 127, 025901	2.5	5
48	The Effect of Glycidyl Azide Polymer Grafted Tetrafunctional Isocyanate on Polytriazole Polyethylene Oxide-Tetrahydrofuran Elastomer and its Propellant Properties. <i>Polymers</i> , 2020 , 12,	4.5	5
47	Study of the synthesis and bonding properties of reactive hot-melt polyurethane adhesive. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	2.9	5
46	Halogen-free and phosphorus-free flame-retarded polycarbonate using cyclic polyphenylsilsesquioxanes. <i>Journal of Materials Science</i> , 2020 , 55, 10953-10967	4.3	5
45	Combustion Properties of Composite Propellants Based on Two Kinds of Polyether Binders and Different Oxidizers. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 1634-1644	1.7	5
44	Rheological behavior of polycarbonate/ultrafine octaphenyl silsesquioxane (OPS) composites. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	5
43	Thermal Decomposition Mechanism of Nitroglycerin by ReaxFF Reactive Molecular Dynamics Simulations. <i>Combustion Science and Technology</i> , 2021 , 193, 470-484	1.5	5
42	Crystallization and flame-retardant properties of polylactic acid composites with polyhedral octaphenyl silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2018 , 30, 648	3.2	5
41	Effect of Morphology for Ammonium Dinitramide on the Mechanical and Combustion Properties of Composite Propargyl-terminated Copolyether Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 864-870	1.7	4
40	Enhanced mechanical and flame retardancy properties of vinyl ester resin systems with the synthesis of two flame retardants with vinyl group. <i>Polymer International</i> , 2020 , 69, 1196-1206	3.3	4
39	Effects of polymerization conditions on particle size distribution in styrene-graphite suspension polymerization process. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	4
38	Characteristic rheological features of high concentration PVA solutions in water with different degrees of polymerization. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	4
37	A cross-linked charring strategy for mitigating the hazards of smoke and heat of aluminum diethylphosphonate/polyamide 6 by caged octaphenyl polyhedral oligomeric silsesquioxanes. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127420	12.8	4
36	Melamine-based polyol containing phosphonate and alkynyl groups and its application in rigid polyurethane foam. <i>Journal of Materials Science</i> , 2021 , 56, 870-885	4.3	4
35	Flame retardant composites of ladder phenyl/vinyl polysilsesquioxane-reinforced vinyl ester. <i>Journal of Materials Science</i> , 2021 , 56, 457-473	4.3	4
34	Preparation and growth mechanism of micro spherical ammonium dinitramide crystal based on ultrasound-assisted solvent-antisolvent method. <i>Ultrasonics Sonochemistry</i> , 2021 , 78, 105716	8.9	4
33	Direct diazotization of graphite nanoplatelets with melamine and their favorable application in epoxy resins. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1300-1311	3.2	3
32	Mechanical and flame-retardant properties and thermal decomposition of vinyl ester resin modified by different phenyl silsesquioxanes. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 1836-1846	3.2	3

31	Thermal kinetics and decomposition mechanism of 1-amino-1,2,3-triazolium nitrate. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 130-136	2.2	3
30	Effect of thermal-oxidative aging on the microstructure of thermoplastic poly(ether-urethane). <i>Polymer Science - Series A</i> , 2014 , 56, 441-449	1.2	3
29	Study on the ablative properties of ethylene propylene diene terpolymer/silsesquioxane insulation materials. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48365	2.9	3
28	An Overview of the Flame Retardants for Poly(vinyl chloride): Recent States and Perspective. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1870-1896	4.9	3
27	Combustion of Composite Propargyl-Terminated Copolyether Propellant Containing Ammonium Dinitramide. <i>Combustion Science and Technology</i> , 2020 , 192, 1707-1718	1.5	3
26	Effect of Organic Fluoride on Combustion Performance of HTPB Propellants with Different Aluminum Content. <i>Combustion Science and Technology</i> , 2021 , 193, 702-715	1.5	3
25	Thermal degradation and aging behavior of polytriazole polyethylene oxide-tetrahydrofuran elastomer based on click-chemistry. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48974	2.9	3
24	High-Performance Biobased Vinyl Ester Resin with Schiff Base Derived from Vanillin. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2604-2613	4.3	3
23	Curing Behaviors of Alkynyl-Terminated Copolyether with Glycidyl Azide Polymer in Energetic Plasticizers. <i>Polymers</i> , 2020 , 12,	4.5	2
22	Failure behavior of nylon products for red phosphorus flame retardant electrical connectors.. <i>RSC Advances</i> , 2019 , 9, 24935-24941	3.7	2
21	Facile Preparation and Characterization of Polystyrene/Triphenyl Phosphate Nanocomposite via Suspension Polymerization. <i>Chemistry Letters</i> , 2015 , 44, 1762-1764	1.7	2
20	Synthesis, characterization, and properties of a polyhedral oligomeric octadiphenylsulfonysilsesquioxane. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	2
19	Curing and thermal behaviors of inorganic/organic hybrid polyarylacetylene resins with polyhedral oligomeric octa(propargylaminophenyl)silsesquioxane. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 4361-4367	2.9	2
18	Controllable dimensions and regular geometric architectures from self-assembly of lithium-containing polyhedral oligomeric silsesquioxane: Build for enhancing the fire safety of epoxy resin. <i>Composites Part B: Engineering</i> , 2022 , 229, 109483	10	2
17	Effect of the Aluminum Particle Size, Solid Content, and Aluminum/Oxygen Ratio on the Underwater Explosion Performance of Aluminum-Based Explosives. <i>Combustion, Explosion and Shock Waves</i> , 2020 , 56, 576-584	1	2
16	A molecular dynamics study on the chemical reaction of Ni/Al reactive intermetallics. <i>Journal of Applied Physics</i> , 2020 , 128, 185901	2.5	2
15	Click Chemistry Reactions between Hydroxyl-Terminated or Alkynyl-Terminated Polybutadiene and Benzyl Azide. <i>Propellants, Explosives, Pyrotechnics</i> , 2021 , 46, 975-980	1.7	2
14	Effect of polyhedral oligomeric silsesquioxanes with different structures on dielectric and mechanical properties of epoxy resin. <i>Polymer Composites</i> , 2021 , 42, 3445-3457	3	2

13	Silver iodide free aerosol catalyst with high deicing efficiency for weather modifications. <i>AIP Advances</i> , 2021 , 11, 025045	1.5	2
12	Kinetics Model Reconstruction for Multistep Overlapping Thermal Decomposition of Ammonium Perchlorate with and without the Copper Oxide Compound Catalyst. <i>Combustion Science and Technology</i> , 2020 , 1-16	1.5	1
11	Studies on multistep thermal decomposition behavior of polytriazole polyethylene oxide-tetrahydrofuran elastomer. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 749-758	3.2	1
10	Shock Consolidation of Ni/Al Nanoparticles: A Molecular Dynamics Simulation. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	1
9	Temperature-tuned dimensional transition of graphitic nanoparticles and its effect on the fire safety of epoxy nanocomposites. <i>Composites Communications</i> , 2020 , 22, 100488	6.7	1
8	Reactive Molecular Dynamics Study on the Effect of H ₂ O on the Thermal Decomposition of Ammonium Dinitramide. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 1590-1599	1.7	1
7	AgI/Al aerosol catalysts with excellent combustion and nucleation performance for weather modification. <i>Environmental Science Atmospheres</i> ,		1
6	Investigation on the thermal decomposition of the elastomer containing fluoroolefin segment by DSC-TG-MS-FTIR. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 4880	3.2	1
5	Preparation and performance of polyether elastomer with a combination of polyurethane and polytriazole. <i>Journal of Applied Polymer Science</i> , 51842	2.9	0
4	Using twin screw extrusion reaction (TSER) to produce thermoplastic polyurethane (TPU): Tunable, stoichiometric and eco-friendly. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 3495-3504	3.2	0
3	High thermal stability and low flammability for Ethylene-Vinyl acetate Monomer/Ethylene-Propylene-Diene Monomer by incorporating macromolecular charring agent. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 2444-2451	3.2	0
2	Effect of charring agents on solvent-free fireproof coatings. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 2038-2050	3.2	
1	Effects of aluminum trichloride and magnesium chloride on the synthesis of ladder polyphenylsilsesquioxane. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2012 , 18, 421-430	0.7	