

Li Gong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
101	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
100	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
99	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
98	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
97	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
96	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
95	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
94	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
93	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
92	Flame retardant composites of ladder phenyl/vinyl polysilsesquioxane-reinforced vinyl ester. <i>Journal of Materials Science</i> , 2021 , 56, 457-473	4.3	4
91	Thermal Decomposition Mechanism of Nitroglycerin by ReaxFF Reactive Molecular Dynamics Simulations. <i>Combustion Science and Technology</i> , 2021 , 193, 470-484	1.5	5
90	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
89	Silver iodide free aerosol catalyst with high deicing efficiency for weather modifications. <i>AIP Advances</i> , 2021 , 11, 025045	1.5	2
88	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
87	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
86	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

85	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
84	Effect of charring agents on solvent-free fireproof coatings. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 2038-2050	3.2	
83	Flame retardant epoxy composites with epoxy-containing polyhedral oligomeric silsesquioxanes. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 2058-2074	3.2	6
82	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
81	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
80	Curing Behaviors of Alkynyl-Terminated Copolyether with Glycidyl Azide Polymer in Energetic Plasticizers. <i>Polymers</i> , 2020 , 12,	4.5	2
79	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
78	Shock-induced consolidation of tungsten nanoparticles a molecular dynamics approach. <i>Journal of Applied Physics</i> , 2020 , 127, 025901	2.5	5
77	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
76	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
75	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
74	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
73	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
72	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
71	Halogen-free and phosphorus-free flame-retarded polycarbonate using cyclic polyphenylsilsesquioxanes. <i>Journal of Materials Science</i> , 2020 , 55, 10953-10967	4.3	5
70	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
69	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
68	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

67	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
66	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
65	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
64	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
63	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
62	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
61	An Overview of the Flame Retardants for Poly(vinyl chloride): Recent States and Perspectives. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1870-1896	4.9	3
60	Combustion of Composite Propargyl-Terminated Copolyether Propellant Containing Ammonium Dinitramide. <i>Combustion Science and Technology</i> , 2020 , 192, 1707-1718	1.5	3
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	Failure behavior of nylon products for red phosphorus flame retardant electrical connectors.. <i>RSC Advances</i> , 2019 , 9, 24935-24941	3.7	2

49	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
48	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
47	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
46	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
45	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
44	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
43	Preparation and Characterization of Organic-Inorganic Hybrid Macrocyclic Compounds: Cyclic Ladder-like Polyphenylsilsesquioxanes. <i>Inorganic Chemistry</i> , 2018 , 57, 3883-3892	5.1	13
42	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
41	Interdigitated crystalline MMT-MCA: Preparation and characterization. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 22-29	3.2	7
40	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
39	Enhanced mechanical properties and fire retardancy of polyamide 6 nanocomposites based on interdigitated crystalline montmorillonite/helamine cyanurate. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46039	2.9	16
38	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
37	Fire-resistant, ultralight, superelastic and thermally insulated polybenzazole aerogels. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20769-20777	13	27
36	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 ³	4.3	23
35	A novel, low surface charge density, anionically modified montmorillonite for polymer nanocomposites. <i>RSC Advances</i> , 2017 , 7, 5980-5988	3.7	20
34	Effect of Organic Fluoride on Combustion Agglomerates of Aluminized HTPB Solid Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2017 , 42, 417-422	1.7	13
33	Interdigitated crystalline MMT/MCA in polyamide 6. <i>RSC Advances</i> , 2017 , 7, 861-869	3.7	21
32	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

31	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
30	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
29	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
28	Rheological behavior of polycarbonate/ultrafine octaphenyl silsesquioxane (OPS) composites. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	5
27	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
26	Synthesis, characterization, and properties of a novel polyhedral oligomeric octamethyldiphenylsulfonylsilsesquioxane. <i>Journal of Materials Science</i> , 2015 , 50, 697-703	4.3	5
25	Facile Preparation and Characterization of Polystyrene/Triphenyl Phosphate Nanocomposite via Suspension Polymerization. <i>Chemistry Letters</i> , 2015 , 44, 1762-1764	1.7	2
24	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
23	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
22	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
21	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
20	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
19	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
18	Synthesis, characterization, and properties of a polyhedral oligomeric octadiphenylsulfonylsilsesquioxane. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	2
17	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
16	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
15	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, 951-961	3.2	35
14	Layered double hydroxide [montmorillonite] a new nano-dimensional material. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 204-209	3.2	12

13	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
12	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
11	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
10	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	
9	Effects of metal oxides on intumescent flame-retardant polypropylene. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 495-501	3.2	87
8	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
7	Ammonium polyphosphate/montmorillonite nanocompounds in polypropylene. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	7
6	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
5	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
4	Thermal Decomposition and Combustion of Ammonium Dinitramide (Review). <i>Combustion, Explosion and Shock Waves</i> , 2005 , 41, 657-679	1	63
3	Shock Consolidation of Ni/Al Nanoparticles: A Molecular Dynamics Simulation. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	1
2	Preparation and performance of polyether elastomer with a combination of polyurethane and polytriazole. <i>Journal of Applied Polymer Science</i> , 51842	2.9	0
1	AgI aerosol catalysts with excellent combustion and nucleation performance for weather modification. <i>Environmental Science Atmospheres</i> ,		1