

Li Gong

List of Publications by Year in descending order

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papers

2,116
citations

279701

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all docs

113
docs citations

113
times ranked

1480
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of a novel dual layered double hydroxide hybrid nanomaterial and its application in epoxy nanocomposites. <i>Chemical Engineering Journal</i> , 2020, 381, 122777.	6.6	106
2	Effects of metal oxides on intumescent flame-retardant polypropylene. <i>Polymers for Advanced Technologies</i> , 2011, 22, 495-501.	1.6	99
3	The rise of MOFs and their derivatives for flame retardant polymeric materials: A critical review. <i>Composites Part B: Engineering</i> , 2020, 199, 108265.	5.9	98
4	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.	3.3	75
5	Thermal Decomposition and Combustion of Ammonium Dinitramide (Review). <i>Combustion, Explosion and Shock Waves</i> , 2005, 41, 657-679.	0.3	73
6	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.	4.0	65
7	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.	6.6	59
8	Mechanical, thermal properties, and flame retardancy of PC/ultrafine octaphenyl-POSS composites. <i>Journal of Applied Polymer Science</i> , 2012, 124, 3807-3814.	1.3	57
9	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.	6.5	50
10	Fire-resistant, ultralight, superelastic and thermally insulated polybenzazole aerogels. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20769-20777.	5.2	49
11	Synergistic barrier effect of aluminum phosphate on flame retardant polypropylene based on ammonium polyphosphate/dipentaerythritol system. <i>Materials and Design</i> , 2019, 181, 107913.	3.3	46
12	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.	4.5	42
13	Blowing 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.	1.6	38
14	Mitigation the release of toxic PH ₃ and the fire hazard of PA6/AHP composite by MOFs. <i>Journal of Hazardous Materials</i> , 2020, 395, 122604.	6.5	33
15	Delamination and Engineered Interlayers of Ti ₃ C ₂ MXenes using Phosphorous Vapor toward Flame-Retardant Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48196-48207.	4.0	33
16	Precise Control of a Yolk-Double Shell Metal-Organic Framework-Based Nanostructure Provides Enhanced Fire Safety for Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14805-14816.	4.0	33
17	Sloughing of metal-organic framework retaining nanodots via step-by-step carving and its flame-retardant effect in epoxy resin. <i>Chemical Engineering Journal</i> , 2022, 448, 137666.	6.6	32
18	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.	1.7	29

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19	Interdigitated crystalline MMTâ€“MCA in polyamide 6. RSC Advances, 2017, 7, 861-869.	1.7	29
20	Aluminum composites with bismuth nanoparticles and graphene oxide and their application to hydrogen generation in water. International Journal of Hydrogen Energy, 2020, 45, 6082-6089.	3.8	29
21	Phenolic resin/polyhedral oligomeric silsesquioxane (POSS) composites: Mechanical, ablative, thermal, and flame retardant properties. Polymers for Advanced Technologies, 2019, 30, 2075-2085.	1.6	27
22	Investigations of Thermoplastic Poly(imide-urethanes) Flame-Retarded by Hydroxyl-Terminated Poly(dimethylsiloxane). Industrial & Engineering Chemistry Research, 2014, 53, 9714-9720.	1.8	25
23	Nickle nanocrystals decorated on graphitic nanotubes with broad channels for fire hazard reduction of epoxy resin. Journal of Hazardous Materials, 2021, 402, 123880.	6.5	25
24	Effect of carbon materials and bismuth particle size on hydrogen generation using aluminum-based composites. Journal of Alloys and Compounds, 2020, 817, 152800.	2.8	24
25	Enhanced fire safety and mechanical properties of epoxy resin composites based on submicrometer-sized rod-structured methyl macrocyclic silsesquioxane sodium salt. Chemical Engineering Journal, 2021, 425, 130566.	6.6	24
26	Ammonium polyphosphate/montmorillonite nanocompounds in polypropylene. Journal of Applied Polymer Science, 2010, 118, 834-840.	1.3	23
27	A novel, low surface charge density, anionically modified montmorillonite for polymer nanocomposites. RSC Advances, 2017, 7, 5980-5988.	1.7	23
28	An anti-melt dripping, high char yield and flame-retardant polyether rigid polyurethane foam. Polymer Degradation and Stability, 2019, 167, 189-200.	2.7	23
29	Preparation and growth mechanism of micro spherical ammonium dinitramide crystal based on ultrasound-assisted solvent-antisolvent method. Ultrasonics Sonochemistry, 2021, 78, 105716.	3.8	22
30	Effect of Organic Fluoride on Combustion Agglomerates of Aluminized HTPB Solid Propellant. Propellants, Explosives, Pyrotechnics, 2017, 42, 417-422.	1.0	21
31	Preparation and Characterization of Organicâ€“Inorganic Hybrid Macrocyclic Compounds: Cyclic Ladder-like Polyphenylsilsesquioxanes. Inorganic Chemistry, 2018, 57, 3883-3892.	1.9	21
32	Flame retardant synergism of GUP and boric acid by cone calorimetry. Journal of Applied Polymer Science, 2006, 102, 5522-5527.	1.3	20
33	Synthesis of incompletely caged silsesquioxane (T7-POSS) compounds via a versatile three-step approach. Research on Chemical Intermediates, 2018, 44, 4277-4294.	1.3	20
34	Enhanced mechanical properties and fire retardancy of polyamide 6 nanocomposites based on interdigitated crystalline montmorilloniteâ€“melamine cyanurate. Journal of Applied Polymer Science, 2018, 135, 46039.	1.3	20
35	Effects of an Organic-Inorganic Hybrid Containing Allyl Benzoxazine and POSS on Thermal Properties and Flame Retardancy of Epoxy Resin. Polymers, 2019, 11, 770.	2.0	20
36	Synthesis and characterization of inherently flameâ€“retardant and antiâ€“dripping thermoplastic poly(imidesâ€“urethane)s. Journal of Applied Polymer Science, 2014, 131, .	1.3	19

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37	Crystallization and flame-retardant properties of polylactic acid composites with polyhedral octaphenyl silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2019, 30, 648-665.	1.6	19
38	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.	1.3	19
39	Crystallization, flame-retardant, and mechanical behaviors of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (acid <i>Journal of Applied Polymer Science</i> , 2019, 136, 46982.	1.3	19
40	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> , 2022, 424, 127420.	6.5	19
41	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.	1.5	18
42	Photoinduced inverse Sonogashira coupling reaction. <i>Chemical Science</i> , 2022, 13, 7475-7481.	3.7	18
43	An Overview of the Flame Retardants for Poly(vinyl chloride): Recent States and Perspective. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1870-1896.	2.6	17
44	High-Performance Biobased Vinyl Ester Resin with Schiff Base Derived from Vanillin. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2604-2613.	2.0	17
45	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.	1.3	16
46	Layered double hydroxide "montmorillonite" a new nano-dimensional material. <i>Polymers for Advanced Technologies</i> , 2013, 24, 204-209.	1.6	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.	1.6	16
48	Flame retardant epoxy composites with epoxy-containing polyhedral oligomeric silsesquioxanes. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2058-2074.	1.6	16
49	Effect of polyhedral oligomeric silsesquioxanes with different structures on dielectric and mechanical properties of epoxy resin. <i>Polymer Composites</i> , 2021, 42, 3445-3457.	2.3	16
50	The influence of solution chemistry on the morphology of ammonium dinitramide crystals. <i>Journal of Materials Science</i> , 2015, 50, 4933-4939.	1.7	15
51	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.	1.6	15
52	Effect of Organic Fluoride on Combustion Performance of HTPB Propellants with Different Aluminum Content. <i>Combustion Science and Technology</i> , 2021, 193, 702-715.	1.2	15
53	Halogen-free and phosphorus-free flame-retarded polycarbonate using cyclic polyphenylsilsesquioxanes. <i>Journal of Materials Science</i> , 2020, 55, 10953-10967.	1.7	15
54	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.	1.1	14

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55	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.	2.7	13
56	Study on flame retardancy of APP/PEPA/MoO ₃ synergism in vinyl ester resins. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49026.	1.3	13
57	Flame retardant composites of ladder phenyl/vinyl polysilsesquioxane-reinforced vinyl ester. <i>Journal of Materials Science</i> , 2021, 56, 457-473.	1.7	13
58	Thermal decomposition of polyhedral oligomeric octaphenyl, octa(nitrophenyl), and octa(aminophenyl) silsesquioxanes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 349-357.	2.0	12
59	Multiscale Simulation on the Influence of Dimethyl Hydantoin on Mechanical Properties of GAP/RDX Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 18-23.	1.0	12
60	Combustion Properties of Composite Propellants Based on Two Kinds of Polyether Binders and Different Oxidizers. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 1634-1644.	1.0	12
61	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.	5.9	12
62	Dissociation Mechanism of HNIW Ions Investigated by Chemical Ionization and Electron Impact Mass Spectroscopy. <i>Propellants, Explosives, Pyrotechnics</i> , 2006, 31, 148-154.	1.0	11
63	Thermal kinetic study of 1-amino-1,2,3-triazolium nitrate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1195-1203.	2.0	11
64	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.	1.2	11
65	Study on the ablative properties of ethylene propylene diene terpolymer/silsesquioxane insulation materials. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48365.	1.3	11
66	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.	1.0	11
67	Curing Behaviors of Alkynyl-Terminated Copolyether with Glycidyl Azide Polymer in Energetic Plasticizers. <i>Polymers</i> , 2020, 12, 1199.	2.0	11
68	Characteristic rheological features of high concentration PVA solutions in water with different degrees of polymerization. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2734-2741.	1.3	10
69	The study of char forming on OPS/PC and DOPO-POSS/PC composites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	10
70	Rheological behavior of polycarbonate/ultrafine octaphenyl silsesquioxane (OPS) composites. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	10
71	The Effect of Glycidyl Azide Polymer Grafted Tetrafunctional Isocyanate on Polytriazole Polyethylene Oxide-Tetrahydrofuran Elastomer and its Propellant Properties. <i>Polymers</i> , 2020, 12, 278.	2.0	10
72	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.	1.0	9

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73	Interdigitated crystalline <sc>MMT&MCA</sc>: Preparation and characterization. <i>Polymers for Advanced Technologies</i> , 2018, 29, 22-29.	1.6	9
74	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.	0.3	9
75	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.	1.7	9
76	Thermal Decomposition Mechanism of Nitroglycerin by ReaxFF Reactive Molecular Dynamics Simulations. <i>Combustion Science and Technology</i> , 2021, 193, 470-484.	1.2	9
77	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.	1.3	9
78	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> , 2021, 193, 2856-2871.	1.2	8
79	KCl nanoparticles-loaded octaphenylsilsesquioxane as an efficient flame retardant for polycarbonate. <i>Reactive and Functional Polymers</i> , 2022, 177, 105284.	2.0	8
80	Iron-Containing Polyhedral Oligomeric Silsesquioxane Assembly Supported on Hexagonal Boron Nitride and Its Effect on Epoxy Resins. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5648-5659.	2.0	8
81	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.	1.0	7
82	Shock-induced consolidation of tungsten nanoparticles—A molecular dynamics approach. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	7
83	Effects of polymerization conditions on particle size distribution in styrene&graphite suspension polymerization process. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
84	Direct diazotization of graphite nanoplatelets with melamine and their favorable application in epoxy resins. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1300-1311.	1.6	6
85	Synthesis, characterization, and properties of a novel polyhedral oligomeric octamethyldiphenylsulfonylsilsesquioxane. <i>Journal of Materials Science</i> , 2015, 50, 697-703.	1.7	5
86	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.	1.6	5
87	Investigation on the thermal decomposition of the elastomer containing fluoroolefin segment by <sc>DSC&FTIR</sc>. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4880-4890.	1.6	5
88	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.	1.3	5
89	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.	1.3	4
90	Synthesis, characterization, and properties of a polyhedral oligomeric octadiphenylsulfonylsilsesquioxane. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	4

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91	Thermal kinetics and decomposition mechanism of 1-amino-1,2,3-triazolium nitrate. Chemical Research in Chinese Universities, 2014, 30, 130-136.	1.3	4
92	Effect of thermal-oxidative aging on the microstructure of thermoplastic poly(ether-urethane). Polymer Science - Series A, 2014, 56, 441-449.	0.4	4
93	Failure behavior of nylon products for red phosphorus flame retardant electrical connectors. RSC Advances, 2019, 9, 24935-24941.	1.7	4
94	Combustion of Composite Propargyl-Terminated Copolyether Propellant Containing Ammonium Dinitramide. Combustion Science and Technology, 2020, 192, 1707-1718.	1.2	4
95	A molecular dynamics study on the chemical reaction of Ni/Al reactive intermetallics. Journal of Applied Physics, 2020, 128, 185901.	1.1	4
96	Studies on multistep thermal decomposition behavior of polytriazole polyethylene oxide-tetrahydrofuran elastomer. Polymers for Advanced Technologies, 2020, 31, 749-758.	1.6	4
97	High thermal stability and low flammability for Ethylene-Vinyl acetate Monomer/Ethylene-Propylene-Diene Monomer by incorporating macromolecular charring agent. Polymers for Advanced Technologies, 2021, 32, 2444-2451.	1.6	4
98	Click Chemistry Reactions between Hydroxyl-Terminated or Alkynyl-Terminated Polybutadiene and Benzyl Azide. Propellants, Explosives, Pyrotechnics, 2021, 46, 975-980.	1.0	4
99	Preparation and performance of polyether elastomer with a combination of polyurethane and polytriazole. Journal of Applied Polymer Science, 2022, 139, 51842.	1.3	4
100	Micro-Nanometer Particle Composition and Functional Design of Surface Nano-Structured Ammonium Polyphosphate and Its Application in Intumescent Flame-Retardant Polypropylene. Nanomaterials, 2022, 12, 606.	1.9	4
101	Silver iodide free aerosol catalyst with high deicing efficiency for weather modifications. AIP Advances, 2021, 11, 025045.	0.6	3
102	Fabrication of Enhanced Mechanical Properties and Intrinsic Flame-Retardant Polyurethane Elastomer Containing 4-(Phenylethynyl) Di(Ethylene Glycol) Phthalate. Polymers, 2021, 13, 2388.	2.0	3
103	Shock Consolidation of Ni/Al Nanoparticles: A Molecular Dynamics Simulation. Journal of Materials Engineering and Performance, 0, , 1.	1.2	3
104	Facile Preparation and Characterization of Polystyrene/Triphenyl Phosphate Nanocomposite via Suspension Polymerization. Chemistry Letters, 2015, 44, 1762-1764.	0.7	2
105	Ag-KI aerosol catalysts with excellent combustion and nucleation performance for weather modification. Environmental Science Atmospheres, 2021, 1, 518-523.	0.9	2
106	Using twin screw extrusion reaction (TSER) to produce thermoplastic polyurethane (TPU): Tunable, stoichiometric and eco-friendly. Polymers for Advanced Technologies, 2021, 32, 3495-3504.	1.6	2
107	Effect of charring agents on solvent-free fireproof coatings. Polymers for Advanced Technologies, 2020, 31, 2038-2050.	1.6	1
108	Facile synthesis of three diazido compounds and their application in polyether polytriazido elastomers as solid propellant binders. Polymers for Advanced Technologies, 2021, 32, 4940-4950.	1.6	1

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109	Temperature-tuned dimensional transition of graphitic nanoparticles and its effect on the fire safety of epoxy nanocomposites. <i>Composites Communications</i> , 2020, 22, 100488.	3.3	1
110	Preparation and Characterization of TCPP-CaMMT Nanocompound and Its Composite with Polypropylene. <i>Nanomaterials</i> , 2022, 12, 1428.	1.9	1
111	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.	0.4	0
112	Numerical simulations on transmission lines deicing by detonative tube. , 2014, , .		0