

Xiaodong Qian

List of Publications by Year in descending order

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33
papers

1,626
citations

394421

19
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ preparation of functionalized graphene oxide/epoxy nanocomposites with effective reinforcements. <i>Journal of Materials Chemistry</i> , 2011, 21, 13290.	6.7	362
2	Self-assembly of exfoliated molybdenum disulfide (MoS ₂) nanosheets and layered double hydroxide (LDH): Towards reducing fire hazards of epoxy. <i>Journal of Hazardous Materials</i> , 2017, 338, 343-355.	12.4	186
3	Organic/inorganic flame retardants containing phosphorus, nitrogen and silicon: Preparation and their performance on the flame retardancy of epoxy resins as a novel intumescent flame retardant system. <i>Materials Chemistry and Physics</i> , 2014, 143, 1243-1252.	4.0	168
4	Novel organic/inorganic flame retardants containing exfoliated graphene: preparation and their performance on the flame retardancy of epoxy resins. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6822.	10.3	163
5	Combustion and Thermal Degradation Mechanism of a Novel Intumescent Flame Retardant for Epoxy Acrylate Containing Phosphorus and Nitrogen. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 1881-1892.	3.7	117
6	Silicon nanoparticle decorated graphene composites: preparation and their reinforcement on the fire safety and mechanical properties of polyurea. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9827.	10.3	65
7	Novel Flame Retardants Containing 9,10-Dihydro-9-oxa-10-phosphaphenanthrene-10-oxide and Unsaturated Bonds: Synthesis, Characterization, and Application in the Flame Retardancy of Epoxy Acrylates. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7307-7315.	3.7	65
8	CuO/Graphene Nanohybrids: Preparation and Enhancement on Thermal Stability and Smoke Suppression of Polypropylene. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13654-13660.	3.7	58
9	Graphite oxide/polyurea and graphene/polyurea nanocomposites: A comparative investigation on properties reinforcements and mechanism. <i>Composites Science and Technology</i> , 2013, 74, 228-234.	7.8	58
10	Thermal Properties of Novel 9,10-Dihydro-9-oxa-10-phosphaphenanthrene 10-Oxide-based Organic/Inorganic Hybrid Materials Prepared by Sol-gel and UV-Curing Processes. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 85-94.	3.7	56
11	Novel DOPO-based epoxy curing agents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 1339-1348.	3.6	34
12	Thermal degradation and combustion behavior of intumescent flame-retardant polypropylene with novel phosphorus-based flame retardants. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45962.	2.6	33
13	Phosphorylated chitosan-cobalt complex: A novel green flame retardant for polylactic acid. <i>Polymers for Advanced Technologies</i> , 2018, 29, 860-866.	3.2	31
14	Thermal degradation and combustion behavior of flame-retardant epoxy resins with novel phosphorus-based flame retardants and silicon particles. <i>Polymer Bulletin</i> , 2019, 76, 3607-3619.	3.3	25
15	Estimating the feasibility of using industrial solid wastes as raw material for polyurethane composites with low fire hazards. <i>Journal of Cleaner Production</i> , 2020, 257, 120606.	9.3	23
16	Green, tough and highly efficient flame-retardant rigid polyurethane foam enabled by double network hydrogel coatings. <i>Soft Matter</i> , 2021, 17, 10555-10565.	2.7	22
17	Synthesis of organophosphorus modified nanoparticles and their reinforcements on the fire safety and mechanical properties of polyurea. <i>Materials Chemistry and Physics</i> , 2013, 139, 443-449.	4.0	21
18	Synergistic effects of ferric pyrophosphate (FePP) in intumescent flame-retardant polypropylene. <i>Polymers for Advanced Technologies</i> , 2011, 22, 870-876.	3.2	20

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19	Mussel-inspired decoration of Ni(OH) ₂ nanosheets on 2D MoS ₂ towards enhancing thermal and flame retardancy properties of poly(lactic acid). <i>Polymers for Advanced Technologies</i> , 2019, 30, 879-888.	3.2	19
20	A novel flame retardant containing calixarene and DOPO structures: Preparation and its application on the fire safety of polystyrene. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2715-2723.	3.2	13
21	Novel phosphorus-based flame retardants containing 4-tert-butylcalix[4]arene: Preparation and application for the fire safety of epoxy resins. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45105.	2.6	12
22	The effect of OCoAl-LDH and OCoFe-LDH on the combustion behaviors of polyvinyl chloride. <i>Polymers for Advanced Technologies</i> , 2020, 31, 675-685.	3.2	12
23	Functionalized CNTs with DOPO and Silicon Containing Agents: Effective Reinforcer for Thermal and Flame Retardant Properties of Polystyrene Nanocomposites. <i>Frontiers in Chemistry</i> , 2020, 8, 627642.	3.6	10
24	CNT modified layered MnO ₂ hybrid flame retardants: preparation and their performance in the flame retardancy of epoxy resins. <i>RSC Advances</i> , 2020, 10, 27408-27417.	3.6	8
25	Preparation of poly(methyl methacrylate)/silicon particle composites and the study of the properties improvement. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	7
26	Phosphorylated cellulose/Fe ³⁺ complex: A novel flame retardant for epoxy resins. <i>Polymers for Advanced Technologies</i> , 2021, 32, 183-189.	3.2	7
27	Functionalized graphene with DOPO based organic/inorganic flame retardants: Preparation and its reinforcements on the flame retardancy of polyurea composites. <i>Polymer Composites</i> , 2018, 39, 4637-4645.	4.6	6
28	The study of coupling effects of humidity&heat on the protection performance of protective clothing for fire fighting. <i>Fire and Materials</i> , 2020, 44, 923-934.	2.0	6
29	Research on the influence of wollastonite fibers on the stability of foam extinguishment agent and its effect on the extinguishing efficiency of pool fire. <i>Fire and Materials</i> , 2020, 44, 1053-1063.	2.0	5
30	Effect of Phosphorus-Based Flame Retardants and PA6 on the Flame Retardancy and Thermal Degradation of Polypropylene. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 1567-1575.	1.9	4
31	The study of ZnAl and ZnFe layered double hydroxide on the catalytic dechlorination and fire safety of polyvinyl chloride. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 115-123.	3.6	4
32	Influence of Fe ²⁺ -FeOOH nanorods and ammonium polyphosphate on reducing the fire hazard of epoxy resins composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3599-3607.	3.6	4
33	Research on the influence of driving gas types in compound jet on extinguishing the pool fire. <i>Journal of Hazardous Materials</i> , 2019, 363, 152-160.	12.4	2