

# Wang Liao

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,784  
citations

279798

23  
h-index

552781

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Layered Double Hydroxides@carboxymethyl Cellulose Composite Aerogel Towards Co(II) Absorption. <i>Journal of Polymers and the Environment</i> , 2022, 30, 3779-3790.	5.0	1
2	Ultrahigh-Temperature Insulating and Fire-Resistant Aerogels from Cationic Amylopectin and Clay via a Facile Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11582-11592.	6.7	62
3	Rheological premonitory of nanoclay morphology on the mechanical characteristics of composite aerogels. <i>Composites Part B: Engineering</i> , 2019, 173, 106889.	12.0	11
4	On controlling aerogel microstructure by freeze casting. <i>Composites Part B: Engineering</i> , 2019, 173, 107036.	12.0	56
5	Ultra-strong mechanical property and force-driven malleability of water-poor hydrogels. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 281-288.	9.4	9
6	Polyurethane foams with functionalized graphene towards high fire-resistance, low smoke release, superior thermal insulation. <i>Chemical Engineering Journal</i> , 2019, 361, 1245-1254.	12.7	83
7	Persistently flame-retardant flexible polyurethane foams by a novel phosphorus-containing polyol. <i>Chemical Engineering Journal</i> , 2018, 343, 198-206.	12.7	143
8	Latent curing epoxy system with excellent thermal stability, flame retardance and dielectric property. <i>Chemical Engineering Journal</i> , 2018, 347, 223-232.	12.7	181
9	Thermally stable and flame-retardant poly(vinyl alcohol)/montmorillonite aerogel via a facile heat treatment. <i>Chinese Chemical Letters</i> , 2018, 29, 433-436.	9.0	31
10	Inherently flame-retardant rigid polyurethane foams with excellent thermal insulation and mechanical properties. <i>Polymer</i> , 2018, 153, 616-625.	3.8	113
11	A reactive phosphorus-containing polyol incorporated into flexible polyurethane foam: Self-extinguishing behavior and mechanism. <i>Polymer Degradation and Stability</i> , 2018, 153, 192-200.	5.8	59
12	Highly effective flame retarded polystyrene by synergistic effects between expandable graphite and aluminum hypophosphite. <i>Polymer Degradation and Stability</i> , 2018, 154, 1-9.	5.8	69
13	Flame-retardant and smoke-suppressant flexible polyurethane foams based on reactive phosphorus-containing polyol and expandable graphite. <i>Journal of Hazardous Materials</i> , 2018, 360, 651-660.	12.4	139
14	Highly Flame Retardant Expanded Polystyrene Foams from Phosphorus-Nitrogen-Silicon Synergistic Adhesives. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 4649-4658.	3.7	87
15	Novel Polymer Aerogel toward High Dimensional Stability, Mechanical Property, and Fire Safety. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22985-22993.	8.0	72
16	Flame-Retardant Flexible Polyurethane Foams with Highly Efficient Melamine Salt. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 7112-7119.	3.7	75
17	Coated vs. naked red phosphorus: A comparative study on their fire retardancy and smoke suppression for rigid polyurethane foams. <i>Polymer Degradation and Stability</i> , 2017, 136, 103-111.	5.8	68
18	Robust and fire retardant borate-crosslinked poly (vinyl alcohol)/montmorillonite aerogel via melt-crosslink. <i>Polymer</i> , 2017, 131, 111-119.	3.8	55

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19	Rejuvenated fly ash in poly(vinyl alcohol)-based composite aerogels with high fire safety and smoke suppression. <i>Chemical Engineering Journal</i> , 2017, 327, 992-999.	12.7	48
20	Flame-Retardant and Smoke-Suppressed Silicone Foams with Chitosan-Based Nanocoatings. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 7239-7248.	3.7	61
21	Ultrasoft gelatin aerogels for oil contaminant removal. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9381-9389.	10.3	73
22	Flame retardation of cellulose-rich fabrics via a simplified layer-by-layer assembly. <i>Carbohydrate Polymers</i> , 2016, 151, 434-440.	10.2	41
23	Nonflammable Alginate Nanocomposite Aerogels Prepared by a Simple Freeze-Drying and Post-Cross-Linking Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 643-650.	8.0	134
24	Improvement of the flame retardancy of wood-fibre/polypropylene composites with ideal mechanical properties by a novel intumescent flame retardant system. <i>RSC Advances</i> , 2015, 5, 59865-59873.	3.6	32
25	In situ generation of fluorescent silver nanoclusters in layer-by-layer assembled films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2036.	5.5	11
26	Fractal Structures of the Hydrogels Formed in Situ from Poly(N-isopropylacrylamide) Microgel Dispersions. <i>Langmuir</i> , 2012, 28, 10873-10880.	3.5	30
27	Gelation Kinetics of Thermosensitive PNIPAM Microgel Dispersions. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2052-2060.	2.2	40