

Yankun Xie

List of Publications by Year in descending order

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81
papers

1,491
citations

279487

23
h-index

395343

33
g-index

81
all docs

81
docs citations

81
times ranked

1392
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of superhydrophobic cotton fabric with fluorinated TiO ₂ sol by a green and one-step sol-gel process. <i>Carbohydrate Polymers</i> , 2018, 197, 75-82.	5.1	130
2	Facile construction of robust superhydrophobic cotton textiles for effective UV protection, self-cleaning and oil-water separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 172-181.	2.3	74
3	A novel approach to fabricate polyacrylate modified graphene oxide for improving the corrosion resistance of epoxy coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 593, 124627.	2.3	47
4	The effect of functional graphene oxide nanoparticles on corrosion resistance of waterborne polyurethane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 591, 124565.	2.3	46
5	A novel and feasible approach for polymer amine modified graphene oxide to improve water resistance, thermal, and mechanical ability of waterborne polyurethane. <i>Applied Surface Science</i> , 2019, 491, 301-312.	3.1	44
6	Robust fabrication of superhydrophobic and photocatalytic self-cleaning cotton textile based on TiO ₂ and fluoroalkylsilane. <i>Journal of Materials Science</i> , 2019, 54, 2079-2092.	1.7	40
7	Synthesis and properties of a novel UV-cured fluorinated siloxane graft copolymer for improved surface, dielectric and tribological properties of epoxy acrylate coating. <i>Applied Surface Science</i> , 2013, 284, 683-691.	3.1	38
8	Facile Preparation of Robust Superhydrophobic Cotton Textile for Self-Cleaning and Oil-Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 187-194.	1.8	38
9	Modification of epoxy resin with polyether-grafted-polysiloxane and epoxy-miscible polysiloxane particles. <i>Macromolecular Research</i> , 2010, 18, 22-28.	1.0	36
10	Surface functionalization of Ti ₃ C ₂ T _x and its application in aqueous polymer nanocomposites for reinforcing corrosion protection. <i>Composites Part B: Engineering</i> , 2021, 217, 108900.	5.9	34
11	Toughening of epoxy resin system using a novel dendritic polysiloxane. <i>Macromolecular Research</i> , 2010, 18, 392-398.	1.0	33
12	A mild strategy to construct superhydrophobic cotton with dual self-cleaning and oil-water separation abilities based on TiO ₂ and POSS via thiol-ene click reaction. <i>Cellulose</i> , 2020, 27, 2847-2857.	2.4	33
13	Synthesis of carboxymethyl chitosan-functionalized graphene nanomaterial for anticorrosive reinforcement of waterborne epoxy coating. <i>Carbohydrate Polymers</i> , 2021, 252, 117249.	5.1	33
14	Morphologies and mechanical and thermal properties of highly epoxidized polysiloxane toughened epoxy resin composites. <i>Macromolecular Research</i> , 2010, 18, 853-861.	1.0	31
15	Cycloaliphatic epoxy resin modified by two kinds of oligo-fluorosiloxanes for potential application in light-emitting diode (LED) encapsulation. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	30
16	Hydrophobic epoxy resins modified by low concentrations of comb-shaped fluorinated reactive modifier. <i>Progress in Organic Coatings</i> , 2017, 105, 353-361.	1.9	29
17	Robust fabrication of superhydrophobic and photocatalytic self-cleaning cotton textiles for oil-water separation via thiol-ene click reaction. <i>Journal of Materials Science</i> , 2019, 54, 7369-7382.	1.7	29
18	A water-rich system of constructing durable and fluorine-free superhydrophobic surfaces for oil/water separation. <i>Applied Surface Science</i> , 2020, 507, 145165.	3.1	29

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19	Synthesis and characterization of a novel difunctional fluorinated acrylic oligomer used for UV-cured coatings. <i>Journal of Fluorine Chemistry</i> , 2013, 147, 49-55.	0.9	27
20	Studies on the Thermal Properties and Flame Retardancy of Epoxy Resins Modified with Polysiloxane Containing Organophosphorus and Epoxide Groups. <i>Polymer Journal</i> , 2007, 39, 696-702.	1.3	26
21	Mechanical and Thermal Properties and Morphology of Epoxy Resins Modified by a Silicon Compound. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 1084-1090.	1.2	26
22	Preparation and properties of UV-curable waterborne comb-like (meth)acrylate copolymers with long fluorinated side chains. <i>Progress in Organic Coatings</i> , 2016, 94, 62-72.	1.9	25
23	A less harmful system of preparing robust fabrics for integrated self-cleaning, oil-water separation and water purification. <i>Environmental Pollution</i> , 2019, 255, 113277.	3.7	25
24	Engineering MXenes (Ti ₃ C ₂ T _x) surface with TiO ₂ for enhancing anti-corrosion performance of coatings. <i>Polymer</i> , 2021, 230, 124086.	1.8	24
25	Synthesis and characterization of a new fluorinated macroinitiator and its diblock copolymer by AGET ATRP. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 9-14.	0.9	22
26	Investigation of covalently grafted polyacrylate chains onto graphene oxide for epoxy composites with reinforced mechanical performance. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47842.	1.3	22
27	Application of polyether amine intercalated graphene oxide as filler for enhancing hydrophobicity, thermal stability, mechanical and anti-corrosion properties of waterborne polyurethane. <i>Diamond and Related Materials</i> , 2020, 109, 108077.	1.8	22
28	Synthesis and properties of LED-packaging epoxy resin toughened by a novel polysiloxane from hydrolysis and condensation. <i>Macromolecular Research</i> , 2011, 19, 972-979.	1.0	21
29	Synthesis of superhydrophobic fluoro-containing silica sol coatings for cotton textile by one-step sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 87, 455-463.	1.1	21
30	Applications of hydrophobic 1,1'-bis(amino)-terminated polydimethylsiloxane-graphene oxide in enhancement of anti-corrosion ability of waterborne polyurethane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 600, 124981.	2.3	19
31	Preparation and characterization of soybean oil-based waterborne polyurethane/acrylate hybrid emulsions for self-matting coatings. <i>New Journal of Chemistry</i> , 2019, 43, 19193-19199.	1.4	18
32	Design on the corrosion protection of eco-friendly and multifunctional polyhedral oligomeric silsesquioxane functionalized graphene oxide reinforced waterborne polyurethane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 127718.	2.3	18
33	Sol-gel composite coatings from methyltriethoxysilane and polymethylhydrosiloxane. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 261-268.	1.1	16
34	Facile fabrication of robust fluorine-free superhydrophobic cellulosic fabric for self-cleaning, photocatalysis and UV shielding. <i>Cellulose</i> , 2019, 26, 8153-8164.	2.4	15
35	Incorporation of silica network and modified graphene oxide into epoxy resin for improving thermal and anticorrosion properties. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49405.	1.3	15
36	Studies on the Thermal Properties of Epoxy Resins Modified with Two Kinds of Silanes. <i>Journal of Macromolecular Science - Physics</i> , 2010, 49, 43-56.	0.4	14

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37	Morphologies and Mechanical and Thermal Properties of Epoxy Resins Modified by a Novel Polysiloxane Capped with Silane Coupling Agent, Epoxide, and Imino Groups. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 975-987.	0.4	14
38	Synthesis and properties of fluorine-containing polyurethane based on long chain fluorinated polyacrylate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016, 53, 41-48.	1.2	14
39	Waterborne UV-curable comb-shaped (meth)acrylate graft copolymer containing long fluorinated and/or polysiloxane side chains. <i>RSC Advances</i> , 2016, 6, 34364-34375.	1.7	13
40	Preparation and performance of waterborne UV-curable polyurethane containing long fluorinated side chains. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	13
41	UV-curable waterborne epoxy acrylate coating modified by monomethacryloyloxy-terminated fluorinated oligomer. <i>Journal of Coatings Technology Research</i> , 2019, 16, 1305-1316.	1.2	13
42	Surface properties of the epoxy resin modified by a novel functional fluorinated oligomer. <i>Iranian Polymer Journal (English Edition)</i> , 2012, 21, 721-730.	1.3	12
43	Synthesis and characterization of UV-curable acrylate films modified by functional methacrylate terminated polysiloxane hybrid oligomers. <i>RSC Advances</i> , 2015, 5, 81838-81846.	1.7	12
44	Rational design of non-hazardous phytic acid-functionalized graphene oxide for polymer nanocomposites toward reinforcing corrosion resistance performance applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126390.	2.3	12
45	Simultaneously Increasing Impact Resistance and Thermal Properties of Epoxy Resins Modified by Polyether-Grafted-EpoxidePolysiloxane. <i>Polymer-Plastics Technology and Engineering</i> , 2010, 49, 467-473.	1.9	11
46	Curing Behavior and Thermal Properties of Autocatalytic Cycloaliphatic Epoxy. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 81-84.	1.2	11
47	Synthesis and properties of triblock copolymers containing PDMS via AGET ATRP. <i>Polymer Bulletin</i> , 2012, 68, 1815-1829.	1.7	11
48	Synthesis of cationic UV-curable methacrylate copolymers and properties of the cured films of their composites with alicyclic epoxy resin. <i>Journal of Applied Polymer Science</i> , 2012, 123, 1724-1731.	1.3	11
49	Preparation and properties of an organic-inorganic hybrid materials based on fluorinated block copolymer. <i>Journal of Materials Science</i> , 2012, 47, 1803-1810.	1.7	11
50	Nano- and micro-structured random copolymer modified cycloaliphatic epoxy resins for use as light-emitting diode encapsulation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016, 53, 201-209.	1.2	11
51	Aggregates of amphiphilic fluorinated copolymers and their encapsulating and unloading homopolymer behaviors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1000-1006.	2.4	10
52	Study on the modification of epoxy resin by a phosphorus and silica-containing hybrid. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2213-2219.	1.3	10
53	Properties of (meth)acrylate copolymer grafted with long fluorinated side chain prepared by graft onto strategy. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45894.	1.3	10
54	Syntheses of novel photosensitive polysiloxanes and their effects on properties of UV-cured epoxy methacrylate coatings. <i>Journal of Coatings Technology Research</i> , 2010, 7, 651-658.	1.2	9

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55	Hydrophobic Waterborne Epoxy Coating Modified by Low Concentrations of Fluorinated Reactive Modifier. <i>Macromolecular Research</i> , 2019, 27, 412-420.	1.0	9
56	Synthesis and properties of cross-linkable block copolymer end-capped with 2, 2, 3, 4, 4, 4-hexafluorobutyl methacrylate. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	8
57	Fluorinated polyacrylates containing amino side chains for the surface modification of waterborne epoxy resin. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47091.	1.3	8
58	A self-supported electrode for supercapacitors based on nanocellulose/multi-walled carbon nanotubes/polypyrrole composite. <i>RSC Advances</i> , 2021, 11, 1109-1114.	1.7	8
59	Synthesis of epoxy-terminated fluoropolymer via ATRP and the properties of epoxy thermosets modified with it. <i>Polymer Bulletin</i> , 2013, 70, 1531-1542.	1.7	7
60	Waterborne epoxy resins modified by reactive polyacrylate modifier with fluorinated side chains. <i>Journal of Coatings Technology Research</i> , 2020, 17, 427-437.	1.2	7
61	Synthesis of associating poly(acrylic acid) in supercritical carbon dioxide and its solution properties. <i>Colloid and Polymer Science</i> , 2004, 282, 1228-1235.	1.0	6
62	Silicone/silica nanocomposites as culture-resistant protective materials. <i>Journal of Applied Polymer Science</i> , 2012, 125, E282.	1.3	6
63	Synthesis and characterization of novel acrylic comb-shaped copolymer containing long fluorinated side chains. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	6
64	A novel mono-methacryloyloxy terminated fluorinated macromonomer used for the modification of UV curable acrylic copolymers. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
65	Synthesis and characterization of novel UV-curable fluorinated polyurethane-acrylate copolymer. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 311-317.	1.3	6
66	Preparation of a Dmap-Catalysis Lignin Epoxide and the Study of Its High Mechanical-Strength Epoxy Resins with High-Biomass Content. <i>Polymers</i> , 2021, 13, 750.	2.0	6
67	Synthesis, thermal properties, and flame retardance of phosphorus-containing epoxy-silica hybrid resins. <i>Polymer Composites</i> , 2010, 31, 334-339.	2.3	5
68	Investigation on properties of new fluorine- and silicon-modified UV-cured epoxy methacrylate resin. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1859-1866.	1.3	5
69	Synthesis of small-molecule initiators derived from fluorinated acrylates and their application in atom transfer radical polymerization (ATRP). <i>Polymer Bulletin</i> , 2012, 68, 15-26.	1.7	5
70	Synthesis and surface properties of a new fluorinated acrylic diblock copolymer via AGET ATRP. <i>Polymer Science - Series B</i> , 2016, 58, 313-320.	0.3	5
71	Highly exfoliated epoxy/clay nanocomposites filled with novel cationic fluorinated polyacrylate modified montmorillonite: Morphology and mechanical properties. <i>Polymer Composites</i> , 2019, 40, 4266-4280.	2.3	5
72	Synthesis and Characterization of Fluorinated Acrylic Polymer and the Properties of Epoxy Thermosets Modified With It. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015, 52, 838-846.	1.2	4

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73	Preparation and properties of waterborne epoxy resin modified by poly(meth)acrylates containing long fluorinated side chains. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2018, 55, 618-629.	1.2	4
74	Synthesis and Properties of Polyurethanes Graft Modified by Long Polydimethylsiloxane Side Chain. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 966-975.	1.2	3
75	Oligo-fluoropolymer Modified Cycloaliphatic Epoxy Resins with Excellent Compatibility, Waterproof and Mechanical Properties for LED Encapsulation. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 326-332.	1.3	3
76	Insight into anticorrosion/thermal stability behavior of protection system composed of waterborne polyurethane containing SiO _x /TiO ₂ @Ti ₃ C ₂ . <i>Journal of Materials Science</i> , 2021, 56, 19840-19856.	1.7	3
77	Controlled Synthesis, Characterization and Application of Novel Functional Fluorinated Polymer By Metal-Free Anionic Polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 764-771.	1.2	2
78	Preparation and self-assembly of pH-sensitive amphiphilic comb-shaped copolymer containing long fluorinated side chains. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016, 53, 716-724.	1.2	2
79	A Versatile Method to Construct Superhydrophobic Fabrics with Good Durability and Self-cleaning Performance. <i>Fibers and Polymers</i> , 2020, 21, 1678-1684.	1.1	2
80	An amino-terminated polyether-grafted graphene oxide for mechanical and thermal properties reinforcement of waterborne epoxy composites. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2021, 58, 448-460.	1.2	2
81	UV-cured Epoxy Methacrylate Composite Containing Fluorine and Siloxane. <i>Polymers and Polymer Composites</i> , 2010, 18, 405-410.	1.0	0