

# Yuanfang Luo

## List of Publications by Year in descending order

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100  
papers

2,739  
citations

186265

28  
h-index

233421

45  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial interaction between the epoxidized natural rubber and silica in natural rubber/silica composites. <i>Applied Surface Science</i> , 2015, 328, 306-313.	6.1	150
2	Reinforcing and Flame-Retardant Effects of Halloysite Nanotubes on LLDPE. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 607-613.	1.9	123
3	A comprehensive study on lignin as a green alternative of silica in natural rubber composites. <i>Polymer Testing</i> , 2016, 54, 176-185.	4.8	96
4	Novel functional silica nanoparticles for rubber vulcanization and reinforcement. <i>Composites Science and Technology</i> , 2017, 144, 11-17.	7.8	89
5	Constructing conductive titanium carbide nanosheet (MXene) network on polyurethane/polyacrylonitrile fibre framework for flexible strain sensor. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 1-10.	9.4	86
6	A method to improve the mechanical performance of styrene-butadiene rubber via vulcanization accelerator modified silica. <i>Composites Science and Technology</i> , 2015, 117, 46-53.	7.8	78
7	Preparation of halloysite nanotubes supported 2-mercaptobenzimidazole and its application in natural rubber. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 63-71.	7.6	62
8	Preparation and properties of natural rubber nanocomposites with solid-state organomodified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2786-2792.	2.6	61
9	Preparation, structure and properties of nitrile-butadiene rubber organoclay nanocomposites by reactive mixing intercalation method. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1905-1913.	2.6	58
10	Simultaneous reduction and functionalization of graphene oxide via antioxidant for highly aging resistant and thermal conductive elastomer composites. <i>Composites Science and Technology</i> , 2017, 151, 156-163.	7.8	58
11	Structure and mechanical properties of rare-earth complex La-GDTC modified silica/SBR composites. <i>Polymer</i> , 2011, 52, 2701-2710.	3.8	55
12	Enhancing interfacial interaction and mechanical properties of styrene-butadiene rubber composites via silica-supported vulcanization accelerator. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 96, 129-136.	7.6	55
13	Reinforcement of Natural Rubber: The Use of <i>in Situ</i> Regenerated Cellulose from Alkaline Urea Aqueous System. <i>Macromolecules</i> , 2017, 50, 7211-7221.	4.8	55
14	Preparation of silica-supported 2-mercaptobenzimidazole and its antioxidative behavior in styrene-butadiene rubber. <i>Polymer Degradation and Stability</i> , 2014, 110, 260-267.	5.8	52
15	One-step synthesis of metal nanoparticle decorated graphene by liquid phase exfoliation. <i>Journal of Materials Chemistry</i> , 2012, 22, 20342.	6.7	51
16	Reinforcement and reinforcing mechanism of styrene-butadiene rubber by antioxidant-modified silica. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 78, 303-310.	7.6	47
17	Rubber/clay nanocomposites by combined latex compounding and melt mixing: A masterbatch process. <i>Materials &amp; Design</i> , 2012, 34, 825-831.	5.1	46
18	Functionalized HNTs nanocluster vulcanized natural rubber with high filler-rubber interaction. <i>Chemical Engineering Journal</i> , 2018, 336, 748-756.	12.7	46

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19	Synthesis and characterization of solidâ€phase graft copolymer of polypropylene with styrene and maleic anhydride. <i>Journal of Applied Polymer Science</i> , 2000, 78, 2482-2487.	2.6	43
20	Facile, solvent-free fabrication of a robust 3-dimensional continuous superhydrophobic coating with wettability control and abrasion healing. <i>Chemical Engineering Journal</i> , 2019, 368, 18-28.	12.7	41
21	Surface modification of halloysite nanotubes by vulcanization accelerator and properties of styrene-butadiene rubber nanocomposites with modified halloysite nanotubes. <i>Applied Surface Science</i> , 2016, 366, 193-201.	6.1	40
22	In-situ fabrication of halloysite nanotubes/silica nano hybrid and its application in unsaturated polyester resin. <i>Applied Surface Science</i> , 2017, 407, 130-136.	6.1	38
23	One-step approach to reduce and modify graphene oxide via vulcanization accelerator and its application for elastomer reinforcement. <i>Chemical Engineering Journal</i> , 2017, 317, 51-59.	12.7	36
24	Influence of acetone extract from natural rubber on the structure and interface interaction in NR/silica composites. <i>Applied Surface Science</i> , 2017, 423, 43-52.	6.1	33
25	Elastomer Reinforced with Regenerated Chitin from Alkaline/Urea Aqueous System. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26460-26467.	8.0	33
26	Study on the dispersion of carbon black/silica in SBR/BR composites and its properties by adding epoxidized natural rubber as a compatilizer. <i>Polymer Composites</i> , 2018, 39, 377-385.	4.6	32
27	Enhanced interfacial interaction and antioxidative behavior of novel halloysite nanotubes/silica hybrid supported antioxidant in styrene-butadiene rubber. <i>Applied Surface Science</i> , 2018, 441, 798-806.	6.1	31
28	The Effect of Dy(III) Complex with 2-Mercaptobenzimidazole on the Thermo-Oxidation Aging Behavior of Natural Rubber Vulcanizates. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2010, 59, 663-679.	3.4	30
29	Use of precipitated silica with silanol groups as an inorganic chain extender in polyurethane. <i>Materials and Design</i> , 2015, 87, 324-330.	7.0	30
30	Enhancing mechanical properties of styreneâ€butadiene rubber/silica nanocomposites by in situ interfacial modification with a novel rare-earth complex. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 87, 297-309.	7.6	30
31	Preparation of halloysite nanotubes loaded antioxidant and its antioxidative behaviour in natural rubber. <i>Polymer Degradation and Stability</i> , 2017, 141, 19-25.	5.8	30
32	Understanding the effect of filler shape induced immobilized rubber on the interfacial and mechanical strength of rubber composites. <i>Polymer Testing</i> , 2017, 58, 31-39.	4.8	30
33	A high-performance, thermal and electrical conductive elastomer composite based on Ti3C2 MXene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106292.	7.6	28
34	Effect of Alkali Treatment on Structure and Mechanical Properties of Acrylonitrileâ€Butadieneâ€Styrene/Bamboo Fiber Composites. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 2232-2244.	1.0	27
35	Surface modification of silica with N-cyclohexyl-2-benzothiazole sulfenamide for styreneâ€butadiene rubber composites with dramatically improved mechanical property. <i>Materials Letters</i> , 2015, 145, 41-43.	2.6	27
36	Antioxidative behavior of a novel samarium complex in styrene-butadiene rubber/silica composites. <i>Polymer Degradation and Stability</i> , 2016, 133, 201-210.	5.8	27

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37	Self-crosslinkable epoxidized natural rubber-silica hybrids. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	27
38	Sustainable utilization of waste printed circuit boards powders in HDPE-wood composites: Synergistic effects of multicomponents on structure and properties. <i>Journal of Cleaner Production</i> , 2017, 164, 840-847.	9.3	27
39	Effect of novel supported vulcanizing agent on the interfacial interaction and strain-induced crystallization properties of natural rubber nanocomposites. <i>Polymer</i> , 2018, 148, 390-399.	3.8	26
40	Preparation of Halloysite Nanotubes-Silica Hybrid Supported Vulcanization Accelerator for Enhancing Interfacial and Mechanical Strength of Rubber Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 9135-9142.	3.7	25
41	Structure and Flame-Retardant Actions of Rigid Polyurethane Foams with Expandable Graphite. <i>Polymers</i> , 2019, 11, 686.	4.5	25
42	One-pot method to reduce and functionalize graphene oxide via vulcanization accelerator for robust elastomer composites with high thermal conductivity. <i>Composites Science and Technology</i> , 2018, 164, 267-273.	7.8	24
43	Immobilization of rubber additive on graphene for high-performance rubber composites. <i>Journal of Colloid and Interface Science</i> , 2019, 550, 190-198.	9.4	24
44	Effect of 3-Propionylthio-1-propyltrimethoxysilane on structure, mechanical, and dynamic mechanical properties of NR/silica composites. <i>Polymer Composites</i> , 2009, 30, 955-961.	4.6	23
45	A novel hybrid filler of halloysite nanotubes/silica fabricated by electrostatic self-assembly. <i>Materials Letters</i> , 2017, 188, 327-330.	2.6	23
46	Synthesis of mechanically durable superhydrophobic polymer materials with roughness-regeneration performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 133, 105861.	7.6	23
47	Hybrid of silver nanowire and pristine-graphene by liquid-phase exfoliation for synergetic effects on electrical conductive composites. <i>RSC Advances</i> , 2014, 4, 41876-41885.	3.6	22
48	The Synergistic Effect of Ionic Liquid-Modified Expandable Graphite and Intumescent Flame-Retardant on Flame-Retardant Rigid Polyurethane Foams. <i>Materials</i> , 2020, 13, 3095.	2.9	22
49	Preparation of a biodegradable poly(vinyl alcohol)-starch composite film and its application in pesticide controlled release. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45051.	2.6	21
50	Characterization of Waste Printed Circuit Boards Nonmetals and its Reutilization as Reinforcing Filler in Unsaturated Polyester Resin. <i>Journal of Polymers and the Environment</i> , 2018, 26, 1311-1319.	5.0	21
51	Styrene-Butadiene Rubber/Halloysite Nanotubes Composites Modified by Epoxidized Natural Rubber. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 10958-10962.	0.9	20
52	Influence of nanocrystalline cellulose on structure and properties of natural rubber/silica composites. <i>Polymer Composites</i> , 2015, 36, 861-868.	4.6	20
53	Interfacial mechano-chemical grafting in styrene-butadiene rubber/halloysite nanotubes composites. <i>Polymer Testing</i> , 2016, 54, 29-39.	4.8	20
54	Enhanced Mechanical Performance and Antioxidative Efficiency of Styrene-Butadiene Rubber via 4-Aminodiphenylamine Functionalized Mesoporous Silica. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4935-4940.	3.7	20

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55	Synthesis and characterization of a dimethacrylates monomer with low shrinkage and water sorption for dental application. <i>Journal of Applied Polymer Science</i> , 2012, 125, 114-120.	2.6	19
56	Effect of acetone extract from natural rubber on the structure and interface interaction in NR/CB composites. <i>RSC Advances</i> , 2017, 7, 26458-26467.	3.6	19
57	A Robust and Versatile Continuous Super-Repellent Polymeric Film for Easy Repair and Underwater Display. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6677-6687.	8.0	19
58	Synthesis and characterization of 3-benzothiazolthio-1-propyltriethoxysilane and its reinforcement for styrene-butadiene rubber/silica composites. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1967-1973.	2.6	18
59	Properties of 2,2-Bis[4-(2-hydroxyethylmethacryloxy propoxy)phenyl]propane/Isobornyl (Meth)acrylate copolymers. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1527-1531.	2.6	18
60	Structure and Properties of Poly(vinyl chloride)/Halloysite Nanotubes Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 968-981.	1.0	17
61	Functionalized Halloysite Nanotubes-Silica Hybrid for Enhanced Curing and Mechanical Properties of Elastomers. <i>Polymers</i> , 2019, 11, 883.	4.5	17
62	Preparation of highly conductive adhesives by in situ generated and sintered silver nanoparticles during curing process. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 22-30.	2.2	16
63	Characterization of effects of thermal-oxidative aging on styrene-butadiene rubber/silica composites with vitamin C-lanthanum complex. <i>International Journal of Polymer Analysis and Characterization</i> , 2016, 21, 1-10.	1.9	16
64	Biomass antioxidant silica supported tea polyphenols with green and high-efficiency free radical capturing activity for rubber composites. <i>Composites Science and Technology</i> , 2022, 220, 109290.	7.8	16
65	Facile synthesis of composite films featuring bulk superhydrophobicity, durability, and repairability for aquatic show. <i>Composites Science and Technology</i> , 2020, 197, 108231.	7.8	15
66	Enhanced oil resistance and mechanical properties of nitrile butadiene rubber/lignin composites modified by epoxy resin. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	14
67	A Comprehensive Study on The Accelerated Weathering Properties of Polypropylene-Wood Composites with Non-Metallic Materials of Waste-Printed Circuit Board Powders. <i>Materials</i> , 2019, 12, 876.	2.9	14
68	Fabrication of a versatile composite material with three-dimensional superhydrophobic for aquatic show. <i>Chemical Engineering Journal</i> , 2020, 398, 125362.	12.7	14
69	Morphology and performance of styrene butadiene rubber filled with modified graphite nanoplatelet and carbon black. <i>Polymers for Advanced Technologies</i> , 2016, 27, 830-840.	3.2	13
70	A facile and green preparation of nanosilica-supported antioxidant and its reinforcement and antioxidation effect on styrene-butadiene rubber. <i>International Journal of Polymer Analysis and Characterization</i> , 2016, 21, 185-197.	1.9	13
71	Polydimethylsiloxane-based superhydrophobic membranes: fabrication, durability, repairability, and applications. <i>Polymer Chemistry</i> , 2020, 11, 2370-2380.	3.9	13
72	Thermal degradation of the polyimide synthesized from 4,4'-(hexafluoroisopropylidene) diphthalic dianhydride and 4,4'-diaminodiphenylmethane. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2295-2301.	2.6	12

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73	Effect of multifunctional samarium lysine dithiocarbamate on curing properties, static and dynamic mechanical properties of SBR/silica composites. <i>RSC Advances</i> , 2016, 6, 269-280.	3.6	12
74	Robust and repairable bulk polymeric coatings with continuous superhydrophobicity for design control and underwater display. <i>Composites Part B: Engineering</i> , 2020, 186, 107799.	12.0	12
75	Structure and flammability properties of NR/organoclay nanocomposites. <i>Polymer Composites</i> , 2009, 30, 107-110.	4.6	11
76	Particle configuration and properties of poly(vinyl chloride)/halloysite nanotubes nanocomposites via in situ suspension polymerization. <i>Polymer Composites</i> , 2014, 35, 856-863.	4.6	11
77	Inorganic and Organic Hybrid Nanoparticles as Multifunctional Crosslinkers for Rubber Vulcanization with High-Filler Rubber Interaction. <i>Polymers</i> , 2018, 10, 1138.	4.5	11
78	Mesoporous silica as nanocarrier of antioxidant for highly anti-aging elastomer composites. <i>Polymer Degradation and Stability</i> , 2019, 169, 108987.	5.8	11
79	High reactive sulphide chemically supported on silica surface to prepare functional nanoparticle. <i>Applied Surface Science</i> , 2018, 442, 673-681.	6.1	10
80	Quantitative analysis of the higher fatty acids in acetone solutes (AS) from raw natural rubber and their impacts on the structure and properties of NR/silica composites. <i>Industrial Crops and Products</i> , 2018, 121, 80-89.	5.2	9
81	<i>In situ</i> fabrication of graphene oxide supported nano silica for the preparation of rubber composites with high mechanical strength and thermal conductivity. <i>Polymer Composites</i> , 2019, 40, E1633.	4.6	9
82	Photopolymerization and properties of fluorene-based dimethacrylate monomer used as a root canal sealer. <i>Advances in Polymer Technology</i> , 2008, 27, 108-116.	1.7	8
83	Rational design for enhancing mechanical and conductive properties of Ti3C2 MXene based elastomer composites. <i>Composites Communications</i> , 2021, 25, 100725.	6.3	8
84	Enhanced Mechanical and Processing Property of Styrene-butadiene Rubber Composites with Novel Silica-supported Reactive Processing Additive. <i>Fibers and Polymers</i> , 2019, 20, 1696-1704.	2.1	7
85	Enhancing interfacial and mechanical strength of styrene-butadiene rubber composites via <i>in situ</i> fabricated halloysite nanotubes/silica nano hybrid. <i>Polymer Composites</i> , 2019, 40, 677-684.	4.6	7
86	Effects of modified silica on the co-vulcanization kinetics and mechanical performances of natural rubber/styrene-butadiene rubber blends. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48838.	2.6	7
87	Novel Hybrid Biomass Anti-Aging Filler for Styrene-Butadiene Rubber Composites with Antioxidative and Reinforcing Properties. <i>Materials</i> , 2020, 13, 4045.	2.9	7
88	Solid-phase preparation method of silica-supported 2,2,6,6-tetramethyl-4-piperidinol and its antioxidative behavior in styrene-butadiene rubber. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	6
89	Method for improving the mechanical performance and thermal stability of unsaturated polyester resin/waste-printed circuit board nonmetals composites via isocyanate chemistry. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45129.	2.6	6
90	Three-dimensional self-similar super-repellent films for underwater display and wettability switching. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13548-13558.	5.5	6

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91	Styrene butadiene rubber/carbon black composites modified by imidazole derivatives. International Journal of Polymer Analysis and Characterization, 2016, 21, 447-457.	1.9	5
92	Reutilization of waste printed circuit boards nonmetallic powders in elastomer composites: Significant improvements of curing and mechanical properties. Polymer Composites, 2020, 41, 2224-2232.	4.6	5
93	Superhydrophobic surfaces with nanofibers or nanorods based on thiophene derivatives. Applied Physics Letters, 2010, 96, .	3.3	4
94	Effects of decoppering pretreatment on accelerated weathering behaviors of waste printed circuit boards powders reinforced polypropylene composites. Journal of Applied Polymer Science, 2019, 136, 48224.	2.6	4
95	Study on Crystallization Behavior of Solid-Phase Graft Copolymers of Polypropylene with Maleic Anhydride and Methyl Methacrylate. Polymer-Plastics Technology and Engineering, 2008, 47, 996-1001.	1.9	3
96	Miscibility and crystallization behavior of the solution-blended sulfonated poly(phenylene oxide)/poly(styrene-co-4-vinyl pyridine) blend. Journal of Applied Polymer Science, 2001, 81, 2843-2848.	2.6	2
97	Novel blocked mercaptosilane (3-propionylthio-1-propyltrimethoxysilane) for natural rubber/silica composite reinforcement in various curing systems. E-Polymers, 2008, 8, .	3.0	2
98	Determination of Molecular Structures of Acetone Solutes from Natural Rubber by Pyrolysis Gas Chromatography Coupled to Mass Spectrometry. Chromatographia, 2018, 81, 1085-1096.	1.3	2
99	Effect of unsaturated hydroxyl-fatty acid modified nano-CaCO <sub>3</sub> on the morphological and rheological behavior of PP. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2009, 4, 75-82.	0.4	0
100	Styrene-butadiene rubber/halloysite nanotubes composites modified by epoxidized natural rubber. , 2010, , .		0