

# Ming Wang

## List of Publications by Year in descending order

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68  
papers

3,029  
citations

126907

33  
h-index

161849

54  
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69  
all docs

69  
docs citations

69  
times ranked

2771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional cotton non-woven fabrics coated with silver nanoparticles and polymers for antibacterial, superhydrophobic and high performance microwave shielding. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 112-123.	9.4	189
2	Enhanced electrical conductivity and piezoresistive sensing in multi-wall carbon nanotubes/polydimethylsiloxane nanocomposites via the construction of a self-segregated structure. <i>Nanoscale</i> , 2017, 9, 11017-11026.	5.6	179
3	A facile approach to fabricating silver-coated cotton fiber non-woven fabrics for ultrahigh electromagnetic interference shielding. <i>Applied Surface Science</i> , 2018, 458, 236-244.	6.1	155
4	Multifunctional polydimethylsiloxane foam with multi-walled carbon nanotube and thermo-expandable microsphere for temperature sensing, microwave shielding and piezoresistive sensor. <i>Chemical Engineering Journal</i> , 2020, 393, 124805.	12.7	151
5	A facile approach to constructing efficiently segregated conductive networks in poly(lactic acid)/poly(ethylene glycol) nanocomposites for electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2018, 156, 136-143.	7.8	131
6	Percolation behavior of electromagnetic interference shielding in polymer/multi-walled carbon nanotube nanocomposites. <i>Composites Science and Technology</i> , 2019, 170, 70-76.	7.8	118
7	Structure and properties of electrically conducting composites consisting of alternating layers of pure polypropylene and polypropylene with a carbon black filler. <i>Polymer</i> , 2008, 49, 4861-4870.	3.8	100
8	All Plant Oil Derived Epoxy Thermosets with Excellent Comprehensive Properties. <i>Macromolecules</i> , 2017, 50, 5729-5738.	4.8	84
9	Effect of pentaerythritol and organic tin with calcium/zinc stearates on the stabilization of poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2006, 91, 2101-2109.	5.8	83
10	Ultralow Percolation Threshold in Poly(lactide)/Poly( $\mu$ -caprolactone)/Multiwall Carbon Nanotubes Composites with a Segregated Electrically Conductive Network. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3087-3098.	3.1	83
11	Segregated polypropylene/cross-linked poly(ethylene-co-1-octene)/multi-walled carbon nanotube nanocomposites with low percolation threshold and dominated negative temperature coefficient effect: Towards electromagnetic interference shielding and thermistors. <i>Composites Science and Technology</i> , 2018, 159, 152-161.	7.8	83
12	Constructing multiple interfaces in polydimethylsiloxane/multi-walled carbon nanotubes nanocomposites by the incorporation of cotton fibers for high-performance electromagnetic interference shielding and mechanical enhancement. <i>Applied Surface Science</i> , 2019, 466, 657-665.	6.1	82
13	Achieving high electrical conductivity and excellent electromagnetic interference shielding in poly(lactic acid)/silver nanocomposites by constructing large-area silver nanoplates in polymer matrix. <i>Composites Part B: Engineering</i> , 2019, 171, 204-213.	12.0	80
14	Functionalized graphene sheets filled isotactic polypropylene nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 71, 175-183.	12.0	79
15	Controlled Folding of 2D "Polymer Brush Composites into 3D Microstructures. <i>Advanced Functional Materials</i> , 2011, 21, 652-657.	14.9	76
16	Curing behavior of epoxidized soybean oil with biobased dicarboxylic acids. <i>Polymer Testing</i> , 2017, 57, 281-287.	4.8	74
17	Achieving highly electrical conductivity and piezoresistive sensitivity in polydimethylsiloxane/multi-walled carbon nanotube composites via the incorporation of silicon dioxide micro-particles. <i>Composites Science and Technology</i> , 2019, 177, 41-48.	7.8	68
18	Comparative study on solid and hollow glass microspheres for enhanced electromagnetic interference shielding in polydimethylsiloxane/multi-walled carbon nanotube composites. <i>Composites Part B: Engineering</i> , 2019, 177, 107378.	12.0	67

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19	Constructing nanopores in poly(oxymethylene)/multi-wall carbon nanotube nanocomposites via poly(l-lactide) assisting for improving electromagnetic interference shielding. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 536-545.	9.4	64
20	Low magnetic field-induced alignment of nickel particles in segregated poly(l-lactide)/poly( $\mu$ -caprolactone)/multi-walled carbon nanotube nanocomposites: Towards remarkable and tunable conductive anisotropy. <i>Chemical Engineering Journal</i> , 2018, 347, 472-482.	12.7	61
21	Morphology, crystallization and rheological behavior in poly(butylene succinate)/cellulose nanocrystal nanocomposites fabricated by solution coagulation. <i>Carbohydrate Polymers</i> , 2017, 164, 75-82.	10.2	59
22	In situ fibrillation of polyamide 6 in isotactic polypropylene occurring in the laminating a multiplying die. <i>Polymers for Advanced Technologies</i> , 2011, 22, 237-245.	3.2	56
23	Morphology, rheological and crystallization behavior in non-covalently functionalized carbon nanotube reinforced poly(butylene succinate) nanocomposites with low percolation threshold. <i>Polymer Testing</i> , 2016, 50, 182-190.	4.8	56
24	The effect of talc orientation and transcrystallization on mechanical properties and thermal stability of the polypropylene/talc composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 58, 7-15.	7.6	54
25	Simulation of mechanical properties of multilayered propylene ethylene copolymer/ethylene 1-octene copolymer composites by equivalent box model and its experimental verification. <i>European Polymer Journal</i> , 2009, 45, 3269-3281.	5.4	52
26	Effect of phase morphology and distribution of multi-walled carbon nanotubes on microwave shielding of poly(l-lactide)/poly( $\mu$ -caprolactone) composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 106008.	7.6	52
27	Achieve high performance microwave shielding in poly( $\mu$ -caprolactone)/multi-wall carbon nanotube composites via balancing absorption in conductive domains and multiple scattering at interfaces. <i>Applied Surface Science</i> , 2020, 508, 145178.	6.1	46
28	Graphene oxide-assisted dispersion of multi-walled carbon nanotubes in biodegradable Poly( $\mu$ -caprolactone) for mechanical and electrically conductive enhancement. <i>Polymer Testing</i> , 2018, 65, 387-397.	4.8	42
29	Enhancement of the interfacial interaction between poly(vinyl chloride) and zinc oxide modified reduced graphene oxide. <i>RSC Advances</i> , 2016, 6, 5784-5791.	3.6	37
30	Migration mechanism of carbon nanotubes and matching viscosity-dependent morphology in Co-continuous Poly(lactic acid)/Poly( $\mu$ -caprolactone) blend: Towards electromagnetic shielding enhancement. <i>Polymer</i> , 2022, 252, 124963.	3.8	37
31	Improving dispersion and delamination of graphite in biodegradable starch materials via constructing cation- $\pi$ interaction: Towards microwave shielding enhancement. <i>Journal of Materials Science and Technology</i> , 2022, 129, 196-205.	10.7	37
32	Formation of Hierarchically Structured Thin Films. <i>Advanced Functional Materials</i> , 2009, 19, 2236-2243.	14.9	35
33	Shear-induced orientation of functional graphene oxide sheets in isotactic polypropylene. <i>Journal of Materials Science</i> , 2016, 51, 5185-5195.	3.7	34
34	Asymmetric deformation in poly(ethylene-co-1-octene)/multi-walled carbon nanotube composites with glass micro-beads for highly piezoresistive sensitivity. <i>Chemical Engineering Journal</i> , 2019, 370, 176-184.	12.7	34
35	Morphology, rheological and crystallization behavior in thermoplastic polyurethane toughed poly(l-lactide) with stereocomplex crystallites. <i>Polymer Testing</i> , 2017, 62, 1-12.	4.8	30
36	Morphological, rheological, crystalline and mechanical properties of ethylene-vinyl acetate copolymer/linear low-density polyethylene/amphiphilic graphene oxide nanocomposites. <i>Polymer Testing</i> , 2017, 63, 289-297.	4.8	30

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37	Processing <scp>temperatureâ€‘dependent</scp> distribution of <scp>multiwall</scp> carbon nanotube in poly(ethyleneâ€‘co</i>â€‘1â€‘octene)/high density polyethylene for electrical conductivity and microwave shielding enhancement. <i>Polymer Composites</i> , 2021, 42, 1396-1406.	4.6	27
38	Poly(sodium 4-styrenesulfonate) modified graphene for reinforced biodegradable poly(Îµ-caprolactone) nanocomposites. <i>RSC Advances</i> , 2015, 5, 73146-73154.	3.6	24
39	Effects of endophytic fungi diversity in different coniferous species on the colonization of <i>Sirex noctilio</i> (Hymenoptera: Siricidae). <i>Scientific Reports</i> , 2019, 9, 5077.	3.3	23
40	Adjusting Distribution of Multiwall Carbon Nanotubes in Poly(<scp>L</scp>-lactide)/Poly(oxymethylene) Blends via Constructing Stereocomplex Crystallites: Toward Conductive and Microwave Shielding Enhancement. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27884-27895.	3.1	22
41	New approach to morphological control for polypropylene/polyethylene blends via magnetic self-organization. <i>Materials and Design</i> , 2017, 117, 24-36.	7.0	21
42	Pattern-oriented modelling as a novel way to verify and validate functionalâ€‘structural plant models: a demonstration with the annual growth module of avocado. <i>Annals of Botany</i> , 2018, 121, 941-959.	2.9	20
43	Gut Structure and Microbial Communities in <i>Sirex noctilio</i> (Hymenoptera: Siricidae) and Their Predicted Contribution to Larval Nutrition. <i>Frontiers in Microbiology</i> , 2021, 12, 641141.	3.5	12
44	Effect of calcium stearates and zinc stearates on polyene formation of poly(vinyl chloride) under degradation. <i>Journal of Elastomers and Plastics</i> , 2013, 45, 173-186.	1.5	11
45	Crystallization kinetics and morphology of biodegradable Poly(Îµ-caprolactone) with chain-like distribution of ferroferric oxide nanoparticles: Toward mechanical enhancements. <i>Polymer</i> , 2017, 117, 84-95.	3.8	11
46	Negative liquid sensing effect and tunable piezoresistive sensitivity in polydimethylsiloxane/carbon nanotubes/water-absorbing-expansion particles nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 126, 105608.	7.6	11
47	Genome Sequencing and Analysis of the Fungal Symbiont of <i>Sirex noctilio</i> , <i>Amylostereum areolatum</i> : Revealing the Biology of Fungus-Insect Mutualism. <i>MSphere</i> , 2020, 5, .	2.9	11
48	Controllable construction of <scp>crossâ€‘linking</scp> network for regulating on the mechanical properties of polydimethylsiloxane and polydimethylsiloxane/carbon nanotubes composites. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	11
49	Effect of baseâ€‘deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). <i>Polymer International</i> , 2016, 65, 125-132.	3.1	10
50	Gentle crosslinking to enhance interfacial interaction in thermoplastic polyurethane/poly(ethylene-co-1-octene)/multi-walled carbon nanotube composites for conductive improvement and piezoresistive stability. <i>Polymer Testing</i> , 2019, 75, 142-150.	4.8	10
51	Crystallization and mechanical properties of isotactic polypropylene/calcium carbonate nanocomposites with a stratified distribution of calcium carbonate. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	9
52	Achieving highly crystalline rate and crystallinity in Poly(l-lactide) via in-situ melting reaction with diisocyanate and benzohydrazine to form nucleating agents. <i>Polymer Testing</i> , 2020, 81, 106216.	4.8	9
53	Genes Identification, Molecular Docking and Dynamics Simulation Analysis of Laccases from <i>Amylostereum areolatum</i> Provides Molecular Basis of Laccase Bound to Lignin. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8845.	4.1	9
54	A Generic Individual-Based Spatially Explicit Model as a Novel Tool for Investigating Insect-Plant Interactions: A Case Study of the Behavioural Ecology of Frugivorous Tephritidae. <i>PLoS ONE</i> , 2016, 11, e0151777.	2.5	8

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55	Uniform fiber orientation and transcrystallization formed in isotactic polypropylene/short glass fiber composites via a shear-induced orientation extrusion. <i>Polymer Composites</i> , 2018, 39, 3168-3177.	4.6	8
56	A general trait-based modelling framework for revealing patterns of airborne fungal dispersal threats to agriculture and native flora. <i>New Phytologist</i> , 2021, 232, 1506-1518.	7.3	8
57	Poly(cetyl trimethylammonium 4-styrenesulfonate)-wrapped carbon nanotubes filled in polylactide nanocomposites: Fabrication and properties. <i>Polymer Testing</i> , 2017, 63, 323-333.	4.8	7
58	Proteo-Transcriptomic Characterization of <i>Sirex nitobei</i> (Hymenoptera: Siricidae) Venom. <i>Toxins</i> , 2021, 13, 562.	3.4	7
59	Network alteration theory on Mullins effect in semicrystalline polymers. <i>Polymer International</i> , 2015, 64, 105-112.	3.1	6
60	Fabrication of hierarchically crystallographic morphologies in isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	6
61	Effect of zinc maleate/zinc oxide complex on thermal stability of poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	6
62	Effect of morphology on the interfacial slip of immiscible polypropylene/polystyrene blends. <i>Rheologica Acta</i> , 2013, 52, 963-972.	2.4	5
63	Identification and Validation of Reference Genes for Gene Expression Analysis in Different Development Stages of <i>Amylostereum areolatum</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 827241.	3.5	5
64	Comparison of Wing, Ovipositor, and Cornus Morphologies between <i>Sirex noctilio</i> and <i>Sirex nitobei</i> Using Geometric Morphometrics. <i>Insects</i> , 2020, 11, 84.	2.2	4
65	Full-Length Transcriptome Sequencing-Based Analysis of <i>Pinus sylvestris</i> var. <i>mongolica</i> in Response to <i>Sirex noctilio</i> Venom. <i>Insects</i> , 2022, 13, 338.	2.2	4
66	Parameter estimation for functional-structural plant models when data are scarce: using multiple patterns for rejecting unsuitable parameter sets. <i>Annals of Botany</i> , 2020, 126, 559-570.	2.9	3
67	Multilocus Genotyping and Intergenic Spacer Single Nucleotide Polymorphisms of <i>Amylostereum areolatum</i> (Russulales: Amylostereaceae) Symbionts of Native and Non-Native <i>Sirex</i> Species. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 1065.	3.5	2
68	Pattern-oriented modelling of plant architecture: A new approach for constructing functional-structural plant models. , 2016, , .		1