

Xin Wen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

2,546
citations

31
h-index

46
g-index

91
ext. papers

3,041
ext. citations

6.6
avg, IF

5.11
L-index

#	Paper	IF	Citations
85	Converting real-world mixed waste plastics into porous carbon nanosheets with excellent performance in the adsorption of an organic dye from wastewater. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 341-351	13	117
84	Thermal and flammability properties of polypropylene/carbon black nanocomposites. <i>Polymer Degradation and Stability</i> , 2012 , 97, 793-801	4.7	106
83	Effect of carbon black on improving thermal stability, flame retardancy and electrical conductivity of polypropylene/carbon fiber composites. <i>Composites Science and Technology</i> , 2015 , 113, 31-37	8.6	90
82	Catalytic carbonization of polypropylene by the combined catalysis of activated carbon with Ni ₂ O ₃ into carbon nanotubes and its mechanism. <i>Applied Catalysis A: General</i> , 2012 , 449, 112-120	5.1	86
81	Thermomechanical and optical properties of biodegradable poly(L-lactide)/silica nanocomposites by melt compounding. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3379-3388	2.9	80
80	Sustainable Conversion of Mixed Plastics into Porous Carbon Nanosheets with High Performances in Uptake of Carbon Dioxide and Storage of Hydrogen. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2837-2844	8.3	73
79	Flammability properties and electromagnetic interference shielding of PVC/graphene composites containing Fe ₃ O ₄ nanoparticles. <i>RSC Advances</i> , 2015 , 5, 31910-31919	3.7	72
78	Catalyzing carbonization of poly(L-lactide) by nanosized carbon black combined with Ni ₂ O ₃ for improving flame retardancy. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19974		70
77	Charing polymer wrapped carbon nanotubes for simultaneously improving the flame retardancy and mechanical properties of epoxy resin. <i>Polymer</i> , 2011 , 52, 4891-4898	3.9	64
76	Effect of Cl/Ni molar ratio on the catalytic conversion of polypropylene into Cu ₂ Ni/C composites and their application in catalyzing Click reaction. <i>Applied Catalysis B: Environmental</i> , 2012 , 117-118, 185-193	21.8	61
75	A facile approach to prepare porous cup-stacked carbon nanotube with high performance in adsorption of methylene blue. <i>Journal of Colloid and Interface Science</i> , 2015 , 445, 195-204	9.3	60
74	Nanosized carbon black combined with Ni ₂ O ₃ as "universal" catalysts for synergistically catalyzing carbonization of polyolefin wastes to synthesize carbon nanotubes and application for supercapacitors. <i>Environmental Science & Technology</i> , 2014 , 48, 4048-55	10.3	60
73	Striking influence of Fe ₂ O ₃ on the catalytic carbonization of chlorinated poly(vinyl chloride) into carbon microspheres with high performance in the photo-degradation of Congo red. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5247	13	59
72	Study of the thermal stabilization mechanism of biodegradable poly(L-lactide)/silica nanocomposites. <i>Polymer International</i> , 2011 , 60, 202-210	3.3	58
71	Upcycling Waste Polypropylene into Graphene Flakes on Organically Modified Montmorillonite. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4173-4181	3.9	57
70	Catalytic carbonization of polypropylene into cup-stacked carbon nanotubes with high performances in adsorption of heavy metallic ions and organic dyes. <i>Chemical Engineering Journal</i> , 2014 , 248, 27-40	14.7	56
69	Effect of the added amount of organically-modified montmorillonite on the catalytic carbonization of polypropylene into cup-stacked carbon nanotubes. <i>Chemical Engineering Journal</i> , 2013 , 225, 798-808	14.7	56

68	Constructing multifunctional nanofiller with reactive interface in PLA/CB-g-DOPO composites for simultaneously improving flame retardancy, electrical conductivity and mechanical properties. <i>Composites Science and Technology</i> , 2020 , 188, 107988	8.6	56
67	Catalytic conversion of linear low density polyethylene into carbon nanomaterials under the combined catalysis of Ni ₂ O ₃ and poly(vinyl chloride). <i>Chemical Engineering Journal</i> , 2013 , 215-216, 339-347	14.7	53
66	Striking influence of chain structure of polyethylene on the formation of cup-stacked carbon nanotubes/carbon nanofibers under the combined catalysis of CuBr and NiO. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 592-601	21.8	47
65	Synthesis and characterization of a novel organophosphorus oligomer and its application in improving flame retardancy of epoxy resin. <i>RSC Advances</i> , 2014 , 4, 17607-17614	3.7	46
64	Converting mixed plastics into mesoporous hollow carbon spheres with controllable diameter. <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 289-299	21.8	44
63	Improvement in toughness and crystallization of poly(L-lactic acid) by melt blending with poly(epichlorohydrin-co-ethylene oxide). <i>Polymer Engineering and Science</i> , 2011 , 51, 2370-2380	2.3	43
62	Synthesis, characterization and growth mechanism of mesoporous hollow carbon nanospheres by catalytic carbonization of polystyrene. <i>Microporous and Mesoporous Materials</i> , 2013 , 176, 31-40	5.3	41
61	From polystyrene waste to porous carbon flake and potential application in supercapacitor. <i>Waste Management</i> , 2019 , 85, 333-340	8.6	41
60	Large-scale converting waste coffee grounds into functional carbon materials as high-efficient adsorbent for organic dyes. <i>Bioresource Technology</i> , 2019 , 272, 92-98	11	41
59	Synergistic Effect between a Novel Char Forming Agent and Ammonium Polyphosphate on Flame Retardancy and Thermal Properties of Polypropylene. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 10905-10915	3.9	38
58	Synergetic effect of epoxy resin and maleic anhydride grafted polypropylene on improving mechanical properties of polypropylene/short carbon fiber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 67, 212-220	8.4	36
57	One-pot synthesis of core/shell Co@C spheres by catalytic carbonization of mixed plastics and their application in the photo-degradation of Congo red. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7461-7470	13	33
56	Combination of fumed silica with carbon black for simultaneously improving the thermal stability, flame retardancy and mechanical properties of polyethylene. <i>Polymer</i> , 2014 , 55, 2998-3007	3.9	33
55	Effect of nanosized carbon black on thermal stability and flame retardancy of polypropylene/carbon nanotubes nanocomposites. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 971-977	7.2	31
54	Synergistic effect of fumed silica with Ni ₂ O ₃ on improving flame retardancy of poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2014 , 104, 18-27	4.7	29
53	Flame retardant effect and mechanism of nanosized NiO as synergist in PLA/APP/CSi-MCA composites. <i>Composites Communications</i> , 2020 , 17, 170-176	6.7	28
52	Expanded graphite assistant construction of gradient-structured char layer in PBS/Mg(OH) ₂ composites for improving flame retardancy, thermal stability and mechanical properties. <i>Composites Part B: Engineering</i> , 2019 , 177, 107402	10	27
51	Synergistic effect of activated carbon and Ni ₂ O ₃ in promoting the thermal stability and flame retardancy of polypropylene. <i>Polymer Degradation and Stability</i> , 2014 , 99, 18-26	4.7	27

50	High yield conversion of biowaste coffee grounds into hierarchical porous carbon for superior capacitive energy storage. <i>Scientific Reports</i> , 2020 , 10, 3518	4.9	24
49	Hierarchical porous carbon sheets derived on a MgO template for high-performance supercapacitor applications. <i>Nanotechnology</i> , 2019 , 30, 295703	3.4	23
48	Simultaneously improving the mechanical properties and flame retardancy of polypropylene using functionalized carbon nanotubes by covalently wrapping flame retardants followed by linking polypropylene. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 716-726	7.8	23
47	Sustainable recycling of waste polystyrene into hierarchical porous carbon nanosheets with potential applications in supercapacitors. <i>Nanotechnology</i> , 2020 , 31, 035402	3.4	23
46	Striking influence of NiO catalyst diameter on the carbonization of polypropylene into carbon nanomaterials and their high performance in the adsorption of oils. <i>RSC Advances</i> , 2014 , 4, 33806-33814	3.7	22
45	Synthesis and characterization of a novel organophosphorus flame retardant and its application in polypropylene. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 653-659	3.2	22
44	Porous carbon nanosheet with high surface area derived from waste poly(ethylene terephthalate) for supercapacitor applications. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48338	2.9	22
43	A novel stiffener skeleton strategy in catalytic carbonization system with enhanced carbon layer structure and improved fire retardancy. <i>Composites Science and Technology</i> , 2018 , 164, 82-91	8.6	22
42	Catalytic Carbonization of Chlorinated Poly(vinyl chloride) Microfibers into Carbon Microfibers with High Performance in the Photodegradation of Congo Red. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17016-17023	3.8	21
41	A general approach towards carbonization of plastic waste into a well-designed 3D porous carbon framework for super lithium-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 9142-9145	5.8	20
40	Simultaneously improving the thermal stability, flame retardancy and mechanical properties of polyethylene by the combination of graphene with carbon black. <i>RSC Advances</i> , 2014 , 4, 33776-33784	3.7	20
39	Thermomechanical and surface properties of novel poly(ether urethane)/polyhedral oligomeric silsesquioxane nanohybrid elastomers. <i>Polymer Engineering and Science</i> , 2011 , 51, 795-803	2.3	18
38	Synergistic effect of nanoscale carbon black and ammonium polyphosphate on improving thermal stability and flame retardancy of polypropylene: A reactive network for strengthening carbon layer. <i>Composites Part B: Engineering</i> , 2019 , 174, 107038	10	17
37	Novel strategy for preparation of highly porous carbon sheets derived from polystyrene for supercapacitors. <i>Diamond and Related Materials</i> , 2019 , 95, 5-13	3.5	17
36	Study of the effect of nanosized carbon black on flammability and mechanical properties of poly(butylene succinate). <i>Polymers for Advanced Technologies</i> , 2015 , 26, 128-135	3.2	17
35	Electrochemical characteristics of discrete, uniform, and monodispersed hollow mesoporous carbon spheres in double-layered supercapacitors. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2627-33	4.5	17
34	Interconnected nanoporous carbon structure delivering enhanced mass transport and conductivity toward exceptional performance in supercapacitor. <i>Journal of Power Sources</i> , 2019 , 435, 226811	8.9	16
33	One-pot synthesis of crosslinked silicone-containing macromolecular charring agent and its synergistic flame retardant poly(L-lactic acid) with ammonium polyphosphate. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 1409-1417	3.2	15

32	Effect of particle size on the flame retardancy of poly(butylene succinate)/Mg(OH) ₂ composites. <i>Fire and Materials</i> , 2016 , 40, 1090-1096	1.8	15
31	Na ₃ PO ₄ assistant dispersion of nano-CaCO ₃ template to enhance electrochemical interface: N/O/P co-doped porous carbon hybrids towards high-performance flexible supercapacitors. <i>Composites Part B: Engineering</i> , 2020 , 199, 108256	10	14
30	Electrospun submicron NiO fibers combined with nanosized carbon black as reinforcement for multi-functional poly(lactic acid) composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105662	8.4	13
29	A green and high-yield route to recycle waste masks into CNTs/Ni hybrids via catalytic carbonization and their application for superior microwave absorption. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120544	21.8	13
28	One-Step Synergistic Effect to Produce Two-Dimensional N-Doped Hierarchical Porous Carbon Nanosheets for High-Performance Flexible Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8562-8572	6.1	12
27	Nitrogen-doped porous carbon embedded with cobalt nanoparticles for excellent oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2019 , 546, 344-350	9.3	11
26	Synergistic effect of carbon fibers and carbon nanotubes on improving thermal stability and flame retardancy of polypropylene: a combination of a physical network and chemical crosslinking. <i>RSC Advances</i> , 2015 , 5, 5484-5493	3.7	11
25	Sustainable polylysine conversion to nitrogen-containing porous carbon flakes: Potential application in supercapacitors. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48214	2.9	11
24	Reactive construction of catalytic carbonization system in PP/C ₆₀ /Ni(OH) ₂ nanocomposites for simultaneously improving thermal stability, flame retardancy and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105722	8.4	11
23	One-pot route to graft long-chain polymer onto silica nanoparticles and its application for high-performance poly(l-lactide) nanocomposites.. <i>RSC Advances</i> , 2019 , 9, 13908-13915	3.7	10
22	Upcycle waste plastics to magnetic carbon materials for dye adsorption from polluted water. <i>RSC Advances</i> , 2014 , 4, 26817	3.7	10
21	Striking Influence about HZSM-5 Content and Nickel Catalyst on Catalytic Carbonization of Polypropylene and Polyethylene into Carbon Nanomaterials. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15578-15588	3.9	10
20	Eucalyptus derived heteroatom-doped hierarchical porous carbons as electrode materials in supercapacitors. <i>Scientific Reports</i> , 2020 , 10, 14631	4.9	10
19	Nanosized carbon black as synergist in PP/POE-MA/IFR system for simultaneously improving thermal, electrical and mechanical properties. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 1091-1098	4.1	10
18	Study of nanocarbon black as synergist on improving flame retardancy of ethylene-vinyl acetate/brucite composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 601-608	4.1	9
17	Insight on the striking influence of the chain architecture on promoting the exfoliation of clay in a polylactide matrix during the annealing process. <i>Soft Matter</i> , 2013 , 9, 10891	3.6	9
16	The rheological, thermostable, and mechanical properties of polypropylene/fullerene C ₆₀ nanocomposites with improved interfacial interaction. <i>Polymer Engineering and Science</i> , 2012 , 52, 1457-1463	2.3	9
15	A Geometry Effect of Carbon Nanomaterials on Flame Retardancy and Mechanical Properties of Ethylene-Vinyl Acetate/Magnesium Hydroxide Composites. <i>Polymers</i> , 2018 , 10,	4.5	9

14	Striking effect of epoxy resin on improving mechanical properties of poly(butylene terephthalate)/recycled carbon fibre composites. <i>Composites Science and Technology</i> , 2016 , 125, 9-16	8.6	8
13	Three-dimensional porous carbon with big cavities and hierarchical pores derived from leek for superior electrochemical capacitive energy storage. <i>Diamond and Related Materials</i> , 2019 , 98, 107522	3.5	7
12	Branched Poly(l-lysine)-Derived Nitrogen-Containing Porous Carbon Flake as the Metal-Free Electrocatalyst toward Efficient Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3317-3326	6.1	7
11	New insights into the role of lattice oxygen in the catalytic carbonization of polypropylene into high value-added carbon nanomaterials. <i>New Journal of Chemistry</i> , 2015 , 39, 962-971	3.6	6
10	Striking effect of nanosized carbon black modified by grafting sodium sulfonate on improving the flame retardancy of polycarbonate. <i>Composites Communications</i> , 2020 , 20, 100359	6.7	6
9	Nitrogen/Oxygen Enriched Hierarchical Porous Carbons Derived from Waste Peanut Shells Boosting Performance of Supercapacitors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000450	6.4	6
8	Synthesis of Polylysine/Silica Hybrids through Branched-Polylysine-Mediated Biosilicification. <i>ACS Omega</i> , 2018 , 3, 17573-17580	3.9	6
7	Promoting the responsive ability of carbon nanotubes to an external stress field in a polypropylene matrix: A synergistic effect of the physical interaction and chemical linking. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3930		4
6	Dramatic Improvements in Mechanical Properties of Poly(L-lactide)/Silica Nanocomposites by Addition of Hyperbranched Poly(ester amide). <i>Macromolecular Materials and Engineering</i> , 2010 , 295, NA-NA	3.9	4
5	One-step converting biowaste wolfberry fruits into hierarchical porous carbon and its application for high-performance supercapacitors. <i>Renewable Energy</i> , 2022 , 185, 187-195	8.1	4
4	Insight into the influence of polymer topological structure on the exfoliation of clay in polystyrene matrix via annealing process. <i>Applied Clay Science</i> , 2020 , 194, 105708	5.2	3
3	Nonisothermal crystallization behavior and mechanical properties of poly(butylene succinate)/silica nanocomposites. <i>Journal of Applied Polymer Science</i> , 2009 , 116, n/a-n/a	2.9	2
2	Intumescent flame retardants inspired template-assistant synthesis of N/P dual-doped three-dimensional porous carbons for high-performance supercapacitors.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 35-46	9.3	2
1	Bioinspired growth of iron derivatives on mesoporous silica: effect on thermal degradation and fire behavior of polystyrene. <i>Nanotechnology</i> , 2020 , 31, 065601	3.4	2