

Biqiong Chen

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100
papers

4,223
citations

40
h-index

62
g-index

102
ext. papers

4,699
ext. citations

5.6
avg, IF

6.2
L-index

#	Paper	IF	Citations
100	A critical appraisal of polymer-clay nanocomposites. <i>Chemical Society Reviews</i> , 2008 , 37, 568-94	58.5	324
99	Thermoplastic starch/clay nanocomposites and their characteristics. <i>Carbohydrate Polymers</i> , 2005 , 61, 455-463	10.3	272
98	Reinforcement and interphase of polymer/graphene oxide nanocomposites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3637		188
97	Characterisation and drug release performance of biodegradable chitosan-graphene oxide nanocomposites. <i>Carbohydrate Polymers</i> , 2014 , 103, 70-80	10.3	156
96	Poly(ϵ -caprolactone)/graphene oxide biocomposites: mechanical properties and bioactivity. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 055010	3.5	153
95	Poly(ϵ -caprolactone)/clay Nanocomposites: Structure and Mechanical Properties. <i>Macromolecules</i> , 2006 , 39, 747-754	5.5	144
94	Strong and bioactive gelatin/graphene oxide nanocomposites. <i>Soft Matter</i> , 2011 , 7, 6159	3.6	131
93	Elastic moduli of clay platelets. <i>Scripta Materialia</i> , 2006 , 54, 1581-1585	5.6	115
92	Polymer/clay nanocomposites: an overview with emphasis on interaction mechanisms. <i>Advances in Applied Ceramics</i> , 2004 , 103, 241-249		101
91	Poly(glycerol sebacate urethane)-cellulose nanocomposites with water-active shape-memory effects. <i>Biomacromolecules</i> , 2014 , 15, 2663-71	6.9	91
90	Strong and conductive chitosan-reduced graphene oxide nanocomposites for transdermal drug delivery. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3759-3770	7.3	85
89	Preferential Intercalation in Polymer-Clay Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14986-14990	3.4	85
88	Photoluminescent and superparamagnetic reduced graphene oxide/iron oxide quantum dots for dual-modality imaging, drug delivery and photothermal therapy. <i>Carbon</i> , 2016 , 97, 54-70	10.4	79
87	Biomimetic poly(glycerol sebacate)/poly(L-lactic acid) blend scaffolds for adipose tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 18, 40-9	10.8	77
86	Impact strength of polymer-clay nanocomposites. <i>Soft Matter</i> , 2009 , 5, 3572	3.6	76
85	Mechanical behavior of transparent nanofibrillar cellulose-chitosan nanocomposite films in dry and wet conditions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 32, 279-286	4.1	73
84	Structure and mechanical properties of gelatin/sepiolite nanocomposite foams. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9103		67

83	Morphology, rheology and mechanical properties of polypropylene/ethyleneoctene copolymer/clay nanocomposites: Effects of the compatibilizer. <i>Composites Science and Technology</i> , 2012 , 72, 1697-1704	8.6	65
82	Synthesis of Multiwalled Carbon Nanotube-Reinforced Polyborosiloxane Nanocomposites with Mechanically Adaptive and Self-Healing Capabilities for Flexible Conductors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24071-8	9.5	64
81	Poly (ε-caprolactone)/hydroxyapatite composites: effects of particle size, molecular weight distribution and irradiation on interfacial interaction and properties. <i>Polymer Testing</i> , 2005 , 24, 64-70	4.5	59
80	Synthesis and characterization of biomimetic hydroxyapatite/sepiolite nanocomposites. <i>Nanoscale</i> , 2011 , 3, 693-700	7.7	57
79	One-pot synthesis and characterization of reduced graphene oxide/gelatin nanocomposite hydrogels. <i>RSC Advances</i> , 2016 , 6, 6171-6181	3.7	56
78	Synthesis and mechanical properties of double cross-linked gelatin-graphene oxide hydrogels. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 791-798	7.9	55
77	Mechanical and dynamic viscoelastic properties of hydroxyapatite reinforced poly(ε-caprolactone). <i>Polymer Testing</i> , 2005 , 24, 978-982	4.5	54
76	Nominal and Effective Volume Fractions in Polymer/clay Nanocomposites. <i>Macromolecules</i> , 2006 , 39, 1790-1796	5.5	53
75	Self-assembled graphene oxide/gelatin nanocomposite hydrogels: Characterization, formation mechanisms, and pH-sensitive drug release behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 356-367	2.6	52
74	Novel thermoplastic starch-clay nanocomposite foams. <i>Nanotechnology</i> , 2005 , 16, 2334-7	3.4	50
73	Surface modification of aramid fibres by graphene oxide nano-sheets for multiscale polymer composites. <i>Surface and Coatings Technology</i> , 2014 , 258, 458-466	4.4	48
72	Mechanical and viscoelastic properties of chitin fiber reinforced poly(ε-caprolactone). <i>European Polymer Journal</i> , 2005 , 41, 453-457	5.2	48
71	Biodegradable and conductive chitosan/graphene quantum dot nanocomposite microneedles for delivery of both small and large molecular weight therapeutics. <i>RSC Advances</i> , 2015 , 5, 51934-51946	3.7	46
70	Porous poly(vinyl alcohol)/sepiolite bone scaffolds: Preparation, structure and mechanical properties. <i>Materials Science and Engineering C</i> , 2012 , 32, 749-757	8.3	44
69	Efficacy Dependence of Photodynamic Therapy Mediated by Upconversion Nanoparticles: Subcellular Positioning and Irradiation Productivity. <i>Small</i> , 2017 , 13, 1602053	11	43
68	A self-healing, adaptive and conductive polymer composite ink for 3D printing of gas sensors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6200-6207	7.1	43
67	Relative modulus/relative density relationships in low density polymer/clay nanocomposite foams. <i>Soft Matter</i> , 2011 , 7, 1840-1848	3.6	43
66	Microstructure and antibacterial efficacy of graphene oxide nanocomposite fibres. <i>Journal of Colloid and Interface Science</i> , 2020 , 571, 239-252	9.3	42

65	Intercalation and in situ polymerization of poly(alkylene oxide) derivatives within M+-montmorillonite (M = Li, Na, K). <i>Journal of Materials Chemistry</i> , 2006 , 16, 1082		42
64	A mechanically and electrically self-healing graphite composite dough for stencil-printable stretchable conductors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4150-4154	7.1	42
63	Highly Stretchable and Highly Resilient Polymer-Clay Nanocomposite Hydrogels with Low Hysteresis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22223-22234	9.5	41
62	Tough, resilient and pH-sensitive interpenetrating polyacrylamide/alginate/montmorillonite nanocomposite hydrogels. <i>Carbohydrate Polymers</i> , 2018 , 197, 497-507	10.3	41
61	Large three-dimensional poly(glycerol sebacate)-based scaffolds - a freeze-drying preparation approach. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 6650-6661	7.3	40
60	Body temperature reduction of graphene oxide through chitosan functionalisation and its application in drug delivery. <i>Materials Science and Engineering C</i> , 2014 , 34, 50-3	8.3	37
59	Synergistic Targeting and Efficient Photodynamic Therapy Based on Graphene Oxide Quantum Dot-Upconversion Nanocrystal Hybrid Nanoparticles. <i>Small</i> , 2018 , 14, e1800293	11	36
58	Impact and tensile energies of fracture in polymer/clay nanocomposites. <i>Polymer</i> , 2008 , 49, 5113-5118	3.9	35
57	Poly(vinyl alcohol) particle-reinforced elastomer composites with water-active shape-memory effects. <i>European Polymer Journal</i> , 2014 , 53, 230-237	5.2	33
56	Rheological properties of chitin/lithium chloride, N,N-dimethyl acetamide solutions. <i>Carbohydrate Polymers</i> , 2004 , 58, 65-69	10.3	33
55	X-ray diffraction studies and phase volume determinations in poly(ethylene glycol)/montmorillonite nanocomposites. <i>Polymer International</i> , 2005 , 54, 807-813	3.3	33
54	Thermoresponsive, stretchable, biodegradable and biocompatible poly(glycerol sebacate)-based polyurethane hydrogels. <i>Polymer Chemistry</i> , 2015 , 6, 7974-7987	4.9	30
53	Reinforcement of biodegradable poly(butylene succinate) with low loadings of graphene oxide. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 5094-5099	2.9	29
52	Photocontrolled Release of Doxorubicin Conjugated through a Thioacetal Photocage in Folate-Targeted Nanodelivery Systems. <i>Bioconjugate Chemistry</i> , 2017 , 28, 3016-3028	6.3	29
51	Multifunctional chitosan-magnetic graphene quantum dot nanocomposites for the release of therapeutics from detachable and non-detachable biodegradable microneedle arrays. <i>Interface Focus</i> , 2018 , 8, 20170055	3.9	26
50	Ordered assemblies of clay nano-platelets. <i>Bioinspiration and Biomimetics</i> , 2008 , 3, 016005	2.6	26
49	Comparative study on the deformation behavior, structural evolution, and properties of biaxially stretched high-density polyethylene/carbon nanofiller (carbon nanotubes, graphene nanoplatelets, and carbon black) composites. <i>Polymer Composites</i> , 2018 , 39, E909-E923	3	24
48	Tailoring conductive network nanostructures of ZIF-derived cobalt-decorated N-doped graphene/carbon nanotubes for microwave absorption applications. <i>Journal of Colloid and Interface Science</i> , 2021 , 591, 463-473	9.3	24

47	One-Step Synthesis of Graphene Oxide/Polyamidoamine Dendrimer Nanocomposite Hydrogels by Self-Assembly. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6113-6121	3.9	23
46	Facile Fabrication of Porous Conductive Thermoplastic Polyurethane Nanocomposite Films via Solution Casting. <i>Scientific Reports</i> , 2017 , 7, 17470	4.9	22
45	Mechanical properties of polymer-blend nanocomposites with organoclays: Polystyrene/ABS and high impact polystyrene/ABS. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 443-454	2.6	22
44	Preparation of poly(glycerol sebacate) fibers for tissue engineering applications. <i>European Polymer Journal</i> , 2019 , 121, 109297	5.2	21
43	Surface interactions and viability of coronaviruses. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200798	4.9	21
42	Viral Filtration Using Carbon-Based Materials. <i>Medical Devices & Sensors</i> , 2020 , 3, e10107	1.6	19
41	Poly(methacrylic acid)-grafted clay/thermoplastic elastomer composites with water-induced shape-memory effects. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 1513-1522	2.6	19
40	Elastomeric and pH-responsive hydrogels based on direct crosslinking of the poly(glycerol sebacate) pre-polymer and gelatin. <i>Polymer Chemistry</i> , 2018 , 9, 3727-3740	4.9	19
39	Porous exfoliated poly(ε-caprolactone)/clay nanocomposites: Preparation, structure, and properties. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E102	2.9	18
38	On the thermodynamic driving force for polymer intercalation in smectite clays. <i>Philosophical Magazine</i> , 2005 , 85, 1519-1538	1.6	18
37	Fabrication, structure and properties of three-dimensional biodegradable poly(glycerol sebacate urethane) scaffolds. <i>Polymer</i> , 2017 , 122, 159-168	3.9	17
36	Decomposition of poly(ethylene glycol) in nanocomposites. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 548-552	2.9	17
35	The effect of porous structure on the cell proliferation, tissue ingrowth and angiogenic properties of poly(glycerol sebacate urethane) scaffolds. <i>Materials Science and Engineering C</i> , 2020 , 108, 110384	8.3	17
34	Wholly Biobased, Highly Stretchable, Hydrophobic, and Self-healing Thermoplastic Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6720-6730	9.5	17
33	Autonomous self-healing multiwalled carbon nanotube nanocomposites with piezoresistive effect. <i>RSC Advances</i> , 2017 , 7, 20422-20429	3.7	16
32	Transparent, UV-proof and mechanically strong montmorillonite/alginate/Ca ²⁺ nanocomposite hydrogel films with solvent sensitivity. <i>Applied Clay Science</i> , 2018 , 165, 223-233	5.2	16
31	Lysine-derived, pH-sensitive and biodegradable poly(beta-aminoester urethane) networks and their local drug delivery behaviour. <i>Soft Matter</i> , 2018 , 14, 1195-1209	3.6	13
30	Structure-property relationships of polymer blend/clay nanocomposites: Compatibilized and noncompatibilized polystyrene/propylene/clay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 431-441	2.6	13

29	Structure and properties of clay/recycled plastic composites. <i>Applied Clay Science</i> , 2018 , 156, 144-151	5.2	12
28	Highly Stretchable Conductors Based on Expanded Graphite Macroconfined in Tubular Rubber. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43239-43249	9.5	12
27	Enhancements of clay exfoliation in polymer nanocomposites using a chemical blowing agent. <i>Polymer International</i> , 2014 , 63, 2008-2016	3.3	11
26	Polymeric thermal actuation using laminates based on polymer/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 1480-1483	2.9	11
25	Magnetically recoverable Ni@C composites: The synthesis by carbonization and adsorption for Fe ³⁺ . <i>Journal of Alloys and Compounds</i> , 2017 , 718, 15-21	5.7	10
24	Mechanically adaptive and shape-memory behaviour of chitosan-modified cellulose whisker/elastomer composites in different pH environments. <i>ChemPhysChem</i> , 2014 , 15, 2794-800	3.2	10
23	The effect of dispersion condition on the structure and properties of polystyrene/graphene oxide nanocomposites. <i>Polymer Composites</i> , 2021 , 42, 320-328	3	10
22	Morphology and elastic modulus of novel poly[oligo(ethylene glycol) diacrylate]-montmorillonite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 1785-1793	2.6	9
21	Reinforcement effect and synergy of carbon nanofillers with different dimensions in high density polyethylene based nanocomposites. <i>International Journal of Materials Research</i> , 2017 , 108, 322-334	0.5	7
20	Nanofibrous Bacterial Cellulose/Chitosan Scaffolds: Preparation, Structure and Mechanical Properties. <i>Journal of Biomaterials and Tissue Engineering</i> , 2011 , 1, 60-67	0.3	7
19	Preparation and characterisation of poly(ethylene glycol)-adsorbed graphene oxide nanosheets. <i>Polymer International</i> , 2021 , 70, 341-351	3.3	7
18	Graphene-based nanomaterials for healthcare applications 2020 , 45-81		6
17	Photodynamic Therapy: Efficacy Dependence of Photodynamic Therapy Mediated by Upconversion Nanoparticles: Subcellular Positioning and Irradiation Productivity (Small 13/2017). <i>Small</i> , 2017 , 13,	11	5
16	Biomimetic chitosan-treated clay/elastomer composites with water-responsive mechanically dynamic properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 55-62	2.6	5
15	Effect of processing conditions on the structure, electrical and mechanical properties of melt mixed high density polyethylene/multi-walled CNT composites in compression molding. <i>Materialprüfung/Materials Testing</i> , 2017 , 59, 136-147	1.9	5
14	Strategies for the preparation of polymer composites with complex alignment of the dispersed phase. <i>Nanocomposites</i> , 2018 , 4, 137-155	3.4	5
13	The effect of the mixing routes of biodegradable polylactic acid and polyhydroxybutyrate nanocomposites and compatibilised nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2016 , 29, 538-557	1.9	4
12	Evaluation of toughening mechanisms of polypropylene/ethylene-butene copolymer/maleic anhydride-grafted poly(ethylene-co-octene)/clay nanocomposite. <i>Polymer International</i> , 2013 , 62, 566-572	3.3	4

11	Superparamagnetic graphene quantum dot as a dual-modality contrast agent for confocal fluorescence microscopy and magnetomotive optical coherence tomography. <i>Journal of Biophotonics</i> , 2019 , 12, e201800219	3.1	4
10	Microstructure of fibres pressure-spun from polyacrylonitrile-graphene oxide composite mixtures. <i>Composites Science and Technology</i> , 2020 , 197, 108214	8.6	3
9	Morphology and properties of polypropylene/ethylene-butene copolymer/clay nanocomposites with double compatibilizers. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1116-1121	3.2	3
8	Mechanical Properties of Natural Biopolymer Nanocomposites 2017 , 235-256		1
7	The effect of maleic anhydride grafting efficiency on the flexural properties of polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2011 , 124, n/a-n/a	2.9	1
6	Novel Biobased Polyamide Thermoplastic Elastomer with Medium Hardness. <i>Macromolecular Chemistry and Physics</i> , 2100218	2.6	1
5	On the mechanical properties of melt-blended nylon 6/ethylene-octene copolymer/graphene nanoplatelet nanocomposites. <i>Polymer</i> , 2022 , 243, 124619	3.9	0
4	Fabrication of Hierarchical Multilayer Poly(Glycerol Sebacate urethane) Scaffolds Based on Ice-Templating. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5004	2.6	0
3	Wholly Biobased Polyamide Thermoplastic Elastomer-Cellulose Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2200120	3.9	0
2	Bio-Nano Interfacial Interactions for Drug Delivery Systems 2019 , 53-73		
1	Effect of the Compatibilizer on Clay Dispersion in Polypropylene/Clay Nanocomposites. <i>Advanced Materials Research</i> , 2012 , 622-623, 847-850	0.5	