

Hua Deng

List of Publications by Year in Descending Order

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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.

84
papers

4,978
citations

37
h-index

70
g-index

87
ext. papers

5,654
ext. citations

7.1
avg, IF

5.71
L-index

#	Paper	IF	Citations
84	Composite Membrane of Poly(vinylidene fluoride) and 2D Ni(OH) ₂ Nanosheets for High-Performance Lithium-Ion Battery. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 960-970	4.3	5
83	The preparation of high performance Multi-functional porous sponge through a biomimic coating strategy based on polyurethane dendritic colloids. <i>Chemical Engineering Journal</i> , 2022 , 438, 135659	14.7	2
82	Fabricating high performance multi-functional hygroelectric generator through a biomimic approach. <i>Nano Energy</i> , 2022 , 98, 107241	17.1	2
81	Stretchable and Healable Conductive Elastomer Based on PEDOT:PSS/Natural Rubber for Self-Powered Temperature and Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14599-14611	9.5	31
80	A novel method to incorporate functional filler into TPSiV for balanced physical properties. <i>Composites Science and Technology</i> , 2021 , 213, 108925	8.6	3
79	A novel interpenetrating segregated functional filler network structure for ultra-high electrical conductivity and efficient EMI shielding in CPCs containing carbon nanotubes. <i>Materials Today Physics</i> , 2021 , 21, 100483	8	9
78	"Toolbox" for the Processing of Functional Polymer Composites.. <i>Nano-Micro Letters</i> , 2021 , 14, 35	19.5	8
77	Biomimetic Approach to Facilitate the High Filler Content in Free-Standing and Flexible Thermoelectric Polymer Composite Films Based on PVDF and AgSe Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51506-51516	9.5	15
76	Balanced physical properties for thermoplastic silicone vulcanizate-based polymer composites containing functional filler. <i>Polymer Composites</i> , 2020 , 41, 4307-4317	3	1
75	Shear induced formation and destruction behavior of conductive networks in nickel/polyurethane composites during strain sensing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 130, 105757	8.4	11
74	Flexible and Giant Terahertz Modulation Based on Ultra-Strain-Sensitive Conductive Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9790-9796	9.5	10
73	An unusual decrease in dielectric constant due to the addition of nickel hydroxide into silicone rubber. <i>Composites Part B: Engineering</i> , 2020 , 193, 108006	10	13
72	Ultrasensitive Thin-Film Pressure Sensors with a Broad Dynamic Response Range and Excellent Versatility Toward Pressure, Vibration, Bending, and Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20998-21008	9.5	19
71	Recent progress on PEDOT:PSS based polymer blends and composites for flexible electronics and thermoelectric devices. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3130-3152	7.8	48
70	Nickel hydroxide as novel filler for high energy density dielectric polymer composites. <i>Composites Science and Technology</i> , 2019 , 172, 117-124	8.6	32
69	Enhanced fracture energy during deformation through the construction of an alternating multilayered structure for polyolefin blends. <i>Polymer International</i> , 2018 , 67, 1094-1102	3.3	2
68	Recent progress on thermal conductive and electrical insulating polymer composites. <i>Composites Communications</i> , 2018 , 8, 74-82	6.7	81

67	Enhanced dielectric properties through using mixed fillers consisting of nano-barium titanate/nickel hydroxide for polyvinylidene fluoride based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 104, 24-31	8.4	24
66	Fabrication of Highly Stretchable, Washable, Wearable, Water-Repellent Strain Sensors with Multi-Stimuli Sensing Ability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31655-31663	9.5	61
65	The influence of blend composition and filler on the microstructure, crystallization, and mechanical behavior of polymer blends with multilayered structures. <i>Nanocomposites</i> , 2018 , 4, 178-189	3.4	1
64	Enhanced thermal conductivity and electrical insulation properties of polymer composites via constructing Pglass/CNTs confined hybrid fillers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 115, 1-7	8.4	30
63	A novel route towards tunable piezoresistive behavior in conductive polymer composites: Addition of insulating filler with different size and surface characteristics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 96, 99-109	8.4	26
62	Morphology Evolution of Polymer Blends under Intense Shear During High Speed Thin-Wall Injection Molding. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 6257-6270	3.4	12
61	Recent Progress on the Confinement, Assembly, and Relaxation of Inorganic Functional Fillers in Polymer Matrix during Processing. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700444	4.8	13
60	Significant Enhancement of Thermal Conductivity in Polymer Composite via Constructing Macroscopic Segregated Filler Networks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29071-29081	9.5	55
59	Toward multi-functional polymer composites through selectively distributing functional fillers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 82, 20-33	8.4	8
58	Strain sensing conductive polymer composites: Sensitivity and stability 2016 ,		3
57	The effect of DBP of carbon black on the dynamic self-assembly in a polymer melt. <i>RSC Advances</i> , 2016 , 6, 24843-24852	3.7	10
56	Processing condition induced structural evolution in the alternating multi-layer structure during high speed thin-wall injection molding. <i>Polymer</i> , 2016 , 99, 49-58	3.9	8
55	Confine Clay in an Alternating Multilayered Structure through Injection Molding: A Simple and Efficient Route to Improve Barrier Performance of Polymeric Materials. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10178-89	9.5	26
54	The optimization of thermoelectric properties in a PEDOT:PSS thin film through post-treatment. <i>RSC Advances</i> , 2015 , 5, 1910-1917	3.7	73
53	Graphene/thermoplastic polyurethane nanocomposites: Surface modification of graphene through oxidation, polyvinyl pyrrolidone coating and reduction. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 68, 264-275	8.4	48
52	Oriented Poly(lactic acid)/Carbon Nanotube Composite Tapes with High Electrical Conductivity and Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 1257-1267	3.9	17
51	Enhanced thermoelectric properties of PEDOT:PSS films via a novel two-step treatment. <i>RSC Advances</i> , 2015 , 5, 105592-105599	3.7	29
50	High mechanical reinforcing efficiency of layered poly(vinyl alcohol) /graphene oxide nanocomposites. <i>Nanocomposites</i> , 2015 , 1, 89-95	3.4	24

49	Selective localization of multi-walled carbon nanotubes in thermoplastic elastomer blends: An effective method for tunable resistivity-strain sensing behavior. <i>Composites Science and Technology</i> , 2014 , 92, 16-26	8.6	93
48	Towards high-performance poly(L-lactide)/elastomer blends with tunable interfacial adhesion and matrix crystallization via constructing stereocomplex crystallites at the interface. <i>RSC Advances</i> , 2014 , 4, 49374-49385	3.7	43
47	The resistivity-strain behavior of conductive polymer composites: stability and sensitivity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17085-17098	13	132
46	Towards tunable resistivity-strain behavior through construction of oriented and selectively distributed conductive networks in conductive polymer composites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10048-10058	13	67
45	Formation of conductive networks with both segregated and double-percolated characteristic in conductive polymer composites with balanced properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6835-44	9.5	77
44	Significantly improving oxygen barrier properties of polylactide via constructing parallel-aligned shish-kebab-like crystals with well-interlocked boundaries. <i>Biomacromolecules</i> , 2014 , 15, 1507-14	6.9	121
43	Towards high-performance polypropylene and its random copolymer: Insight into toughening mechanism of supercritical carbon dioxide assisted annealing. <i>Journal of Supercritical Fluids</i> , 2014 , 87, 83-92	4.2	17
42	Progress on the morphological control of conductive network in conductive polymer composites and the use as electroactive multifunctional materials. <i>Progress in Polymer Science</i> , 2014 , 39, 627-655	29.6	460
41	Combined effect of nucleating agent and processing melt temperature on the toughness of impact polypropylene copolymer. <i>Polymer International</i> , 2013 , 62, 172-178	3.3	13
40	Modified resistivity-strain behavior through the incorporation of metallic particles in conductive polymer composite fibers containing carbon nanotubes. <i>Polymer International</i> , 2013 , 62, 134-140	3.3	54
39	Towards tunable sensitivity of electrical property to strain for conductive polymer composites based on thermoplastic elastomer. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5815-24	9.5	203
38	Anisotropic multilayer conductive networks in carbon nanotubes filled polyethylene/polypropylene blends obtained through high speed thin wall injection molding. <i>Polymer</i> , 2013 , 54, 6425-6436	3.9	65
37	Controlling the dynamic percolation of carbon nanotube based conductive polymer composites by addition of secondary nanofillers: The effect on electrical conductivity and tuneable sensing behaviour. <i>Composites Science and Technology</i> , 2013 , 74, 85-90	8.6	131
36	Strain sensing behaviour of elastomeric composite films containing carbon nanotubes under cyclic loading. <i>Composites Science and Technology</i> , 2013 , 74, 1-5	8.6	176
35	Fabrication of highly stretchable conductors via morphological control of carbon nanotube network. <i>Small</i> , 2013 , 9, 3620-9	11	59
34	An environmentally friendly and fast approach to prepare reduced graphite oxide with water and organic solvents solubility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 101, 171-6	6	26
33	The preparation and properties of polystyrene/functionalized graphene nanocomposite foams using supercritical carbon dioxide. <i>Polymer International</i> , 2013 , 62, 1077-1084	3.3	55
32	Carbon nanotube polymer coatings for textile yarns with good strain sensing capability. <i>Sensors and Actuators A: Physical</i> , 2012 , 179, 83-91	3.9	107

31	Realizing the enhancement of interfacial interaction in semicrystalline polymer/filler composites via interfacial crystallization. <i>Progress in Polymer Science</i> , 2012 , 37, 1425-1455	29.6	295
30	Tailoring impact toughness of poly(L-lactide)/poly(ε-caprolactone) (PLLA/PCL) blends by controlling crystallization of PLLA matrix. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 897-905	9.5	188
29	Enhancement of nucleated crystallization in polypropylene random copolymer via adding isotactic polypropylene. <i>Polymer</i> , 2012 , 53, 4861-4870	3.9	21
28	Dynamic percolation in highly oriented conductive networks formed with different carbon nanofillers. <i>Colloid and Polymer Science</i> , 2012 , 290, 1393-1401	2.4	21
27	Effect of annealing on the microstructure and mechanical properties of polypropylene with oriented shish-kebab structure. <i>Polymer International</i> , 2012 , 61, 252-258	3.3	39
26	Superior reinforcement in polyamide 1010/multiwalled carbon nanotube composites realized by high-rate drawing and incorporation of compatibilizer. <i>Polymer International</i> , 2012 , 61, 1400-1410	3.3	3
25	Alternating multilayer structure of polyethylene/polypropylene blends obtained through injection molding. <i>Journal of Applied Polymer Science</i> , 2012 , 124, n/a-n/a	2.9	2
24	Morphology and mechanical properties of poly(ethyleneoctene) copolymers obtained by dynamic packing injection molding. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012 , 30, 603-612	3.5	9
23	Control of Crystal Morphology in Poly(L-lactide) by Adding Nucleating Agent. <i>Macromolecules</i> , 2011 , 44, 1233-1237	5.5	171
22	A simple and efficient method to prepare graphene by reduction of graphite oxide with sodium hydrosulfite. <i>Nanotechnology</i> , 2011 , 22, 045704	3.4	167
21	High speed injection molding of high density polyethylene [Effects of injection speed on structure and properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011 , 29, 456-464	3.5	9
20	Tailoring toughness of injection molded bar of polypropylene random copolymer through processing melt temperature. <i>Polymer International</i> , 2011 , 60, 1705-1714	3.3	11
19	Preparation, structure and properties of thermoplastic olefin nanocomposites containing functionalized carbon nanotubes. <i>Polymer International</i> , 2011 , 60, 1629-1637	3.3	25
18	Extension-induced mechanical reinforcement in melt-spun fibers of polyamide 66/multiwalled carbon nanotube composites. <i>Polymer International</i> , 2011 , 60, 1646-1654	3.3	25
17	Improving tensile strength and toughness of melt processed polyamide 6/multiwalled carbon nanotube composites by in situ polymerization and filler surface functionalization. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 133-140	2.9	17
16	Strengthening and toughening of thermoplastic polyolefin elastomer using polypropylene-grafted multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 2104-2112	2.9	23
15	Preparation of high performance conductive polymer fibres from double percolated structure. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6401		65
14	The preparation of high performance and conductive poly (vinyl alcohol)/graphene nanocomposite via reducing graphite oxide with sodium hydrosulfite. <i>Composites Science and Technology</i> , 2011 , 71, 1266-1270	8.6	94

13	New insight on the annealing induced microstructural changes and their roles in the toughening of Eform polypropylene. <i>Polymer</i> , 2011 , 52, 2351-2360	3.9	113
12	Fabrication and property prediction of conductive and strain sensing TPU/CNT nanocomposite fibres. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9449		134
11	Effect of thermal annealing on the electrical conductivity of high-strength bicomponent polymer tapes containing carbon nanofillers. <i>Synthetic Metals</i> , 2010 , 160, 337-344	3.6	35
10	Superior reinforcement in melt-spun polyethylene/multiwalled carbon nanotube fiber through formation of a shish-kebab structure. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10693-702	3.4	76
9	Preparation of High-Performance Conductive Polymer Fibers through Morphological Control of Networks Formed by Nanofillers. <i>Advanced Functional Materials</i> , 2010 , 20, 1424-1432	15.6	107
8	Synergistic Reinforcement of Highly Oriented Poly(propylene) Tapes by Sepiolite Nanoclay. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 37-47	3.9	24
7	Processing of Poly(propylene)/Carbon Nanotube Composites using scCO ₂ -Assisted Mixing. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 566-574	3.9	12
6	Hierarchical structure of injection-molded bars of HDPE/MWCNTs composites with novel nanohybrid shish-kebab. <i>Polymer</i> , 2010 , 51, 774-782	3.9	54
5	A Novel Concept for Highly Oriented Carbon Nanotube Composite Tapes or Fibres with High Strength and Electrical Conductivity. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 749-755	3.9	51
4	Conductive network formation in the melt of carbon nanotube/thermoplastic polyurethane composite. <i>Composites Science and Technology</i> , 2009 , 69, 1499-1504	8.6	148
3	Effect of melting and crystallization on the conductive network in conductive polymer composites. <i>Polymer</i> , 2009 , 50, 3747-3754	3.9	120
2	New Understanding in Tuning Toughness of E-Polypropylene: The Role of ENucleated Crystalline Morphology. <i>Macromolecules</i> , 2009 , 42, 9325-9331	5.5	241
1	Improving high-temperature energy storage performance of PI dielectric capacitor films through boron nitride interlayer. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	11