Yu Wang

List of Publications by Year in descending order

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83	2,807	159585	197818
papers	citations	30 h-index	49 g-index

83	83	83	3446
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of Electrolytes towards Achieving Safe and Highâ€Performance Energyâ€Storage Devices: A Review. ChemElectroChem, 2015, 2, 22-36.	3.4	299
2	A review of the electrical and mechanical properties of carbon nanofiller-reinforced polymer composites. Journal of Materials Science, 2019, 54, 1036-1076.	3.7	210
3	Soy-Protein-Based Nanofabrics for Highly Efficient and Multifunctional Air Filtration. ACS Applied Materials & Interfaces, 2016, 8, 20023-20031.	8.0	139
4	Towards Sustainable and Multifunctional Air-Filters: A Review on Biopolymer-Based Filtration Materials. Polymer Reviews, 2019, 59, 651-686.	10.9	80
5	Natural polypeptides treat pollution complex: Moisture-resistant multi-functional protein nanofabrics for sustainable air filtration. Nano Research, 2018, 11, 4265-4277.	10.4	78
6	A Disposable Multi-Functional Air Filter: Paper Towel/Protein Nanofibers with Gradient Porous Structures for Capturing Pollutants of Broad Species and Sizes. ACS Sustainable Chemistry and Engineering, 2017, 5, 6209-6217.	6.7	77
7	A comparison of melt and solution mixing on the dispersion of carbon nanotubes in a poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Ove	12.0	76
8	â€œGreenâ€•nano-filters: fine nanofibers of natural protein for high efficiency filtration of particulate pollutants and toxic gases. RSC Advances, 2016, 6, 105948-105956.	3.6	70
9	Morphology engineering of protein fabrics for advanced and sustainable filtration. Journal of Materials Chemistry A, 2018, 6, 21585-21595.	10.3	69
10	Strategies for Building Robust Traffic Networks in Advanced Energy Storage Devices: A Focus on Composite Electrodes. Advanced Materials, 2019, 31, e1804204.	21.0	69
11	Cross-Linked Protein Nanofilter with Antibacterial Properties for Multifunctional Air Filtration. ACS Applied Materials & Interfaces, 2017, 9, 22846-22855.	8.0	65
12	High-Strength Polylactic Acid (PLA) Biocomposites Reinforced by Epoxy-Modified Pine Fibers. ACS Sustainable Chemistry and Engineering, 2020, 8, 13236-13247.	6.7	59
13	Synergistically effects of copolymer and core-shell particles for toughening epoxy. Polymer, 2018, 140, 39-46.	3.8	56
14	Hierarchically Structured All-biomass Air Filters with High Filtration Efficiency and Low Air Pressure Drop Based on Pickering Emulsion. ACS Applied Materials & Interfaces, 2019, 11, 14266-14274.	8.0	52
15	A Gumâ€Like Electrolyte: Safety of a Solid, Performance of a Liquid. Advanced Energy Materials, 2013, 3, 1557-1562.	19.5	51
16	A Nanoprotein-Functionalized Hierarchical Composite Air Filter. ACS Sustainable Chemistry and Engineering, 2018, 6, 11606-11613.	6.7	47
17	A Particleâ€Controlled, Highâ€Performance, Gumâ€Like Electrolyte for Safe and Flexible Energy Storage Devices. Advanced Energy Materials, 2015, 5, 1400463.	19.5	42
18	Crystallization behavior of poly (vinylidene fluoride)/multi-walled carbon nanotubes nanocomposites. Journal of Materials Science, 2011, 46, 1542-1550.	3.7	40

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19	Gumâ€Like Nanocomposites as Conformable, Conductive, and Adhesive Electrode Matrix for Energy Storage Devices. Advanced Energy Materials, 2017, 7, 1601767.	19.5	40
20	Morphologies of injection molded isotactic polypropylene/ultra high molecular weight polyethylene blends. Materials & Design, 2012, 35, 633-639.	5.1	39
21	Decoupled Ion Transport in a Protein-Based Solid Ion Conductor. Journal of Physical Chemistry Letters, 2016, 7, 4304-4310.	4.6	38
22	Melt viscoelasticity, electrical conductivity, and crystallization of PVDF/MWCNT composites: Effect of the dispersion of MWCNTs. Journal of Applied Polymer Science, 2012, 125, E49.	2.6	37
23	Crystallization and reinforcement of poly (vinylidene fluoride) nanocomposites: Role of high molecular weight resin and carbon nanotubes. Polymer Testing, 2012, 31, 117-126.	4.8	37
24	Templateâ€Free Selfâ€Caging Nanochemistry for Largeâ€Scale Synthesis of Sulfonatedâ€Graphene@Sulfur Nanocage for Longâ€Life Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2008652.	14.9	37
25	Self-Assembled Protein Nanofilter for Trapping Polysulfides and Promoting Li⁺ Transport in Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry Letters, 2018, 9, 2450-2459.	4.6	35
26	A rheological study on temperature dependent microstructural changes of fumed silica gels in dodecane. Soft Matter, 2012, 8, 10457.	2.7	34
27	Control of morphology and properties by the selective distribution of nano-silica particles with different surface characteristics in PA6/ABS blends. Journal of Materials Science, 2012, 47, 4620-4631.	3.7	34
28	Poly(lactic acid) Toughening through Chain End Engineering. ACS Applied Polymer Materials, 2020, 2, 411-417.	4.4	34
29	A bio-surfactant for defect control: Multifunctional gelatin coated MWCNTs for conductive epoxy nanocomposites. Composites Science and Technology, 2018, 159, 216-224.	7.8	33
30	A Janus nanofiber-based separator for trapping polysulfides and facilitating ion-transport in lithiumâ€“sulfur batteries. Nanoscale, 2019, 11, 18090-18098.	5.6	33
31	Aggregate of nanoparticles: rheological and mechanical properties. Nanoscale Research Letters, 2011, 6, 114.	5.7	30
32	Advanced Graphene@Sulfur composites via an in-situ reduction and wrapping strategy for high energy density lithiumâ€“sulfur batteries. Carbon, 2019, 150, 224-232.	10.3	29
33	Regulating Polysulfide Diffusion and Deposition via Rational Design of Coreâ€“Shell Active Materials in Liâ€“S Batteries. ACS Nano, 2022, 16, 7982-7992.	14.6	29
34	A polymeric nanocomposite interlayer as ion-transport-regulator for trapping polysulfides and stabilizing lithium metal. Energy Storage Materials, 2018, 15, 447-457.	18.0	27
35	Rational design and superfast production of biomimetic, calendering-compatible, catalytic, sulfur-rich secondary particles for advanced lithium-sulfur batteries. Energy Storage Materials, 2021, 40, 415-425.	18.0	27
36	Dynamic Rheological Behavior of HDPE/UHMWPE Blends. Journal of Macromolecular Science - Physics, 2011, 50, 1249-1259.	1.0	26

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37	Building Ion-Conduction Highways in Polymeric Electrolytes by Manipulating Protein Configuration. ACS Applied Materials & Interfaces, 2018, 10, 4726-4736.	8.0	26
38	Toughening by Nanodroplets: Polymerâ€“Droplet Biocomposite with Anomalous Toughness. Macromolecules, 2020, 53, 4568-4576.	4.8	25
39	Dynamic Electrical and Rheological Percolation in Isotactic Poly(propylene)/Carbon Black Composites. Macromolecular Materials and Engineering, 2012, 297, 51-59.	3.6	24
40	Synergistic effects of hybrid graphitic nanofillers on simultaneously enhanced wear and mechanical properties of polymer nanocomposites. European Polymer Journal, 2014, 55, 210-221.	5.4	24
41	Controlled Li + conduction pathway to achieve enhanced ionic conductivity in polymer electrolytes. Journal of Power Sources, 2014, 247, 452-459.	7.8	24
42	Roles of Alkaline Earth Ions in Garnetâ€Type Superionic Conductors. ChemElectroChem, 2017, 4, 266-271.	3.4	23
43	Faster and better: A polymeric chaperone binder for microenvironment management in thick battery electrodes. Energy Storage Materials, 2022, 45, 828-839.	18.0	23
44	Coreâ€“Shell Hybrid Nanowires with Protein Enabling Fast Ion Conduction for Highâ€Performance Composite Polymer Electrolytes. Small, 2018, 14, e1803564.	10.0	22
45	A Polymer-Alloy Binder for Structures-Properties Control of Battery Electrodes. Energy Storage Materials, 2018, 14, 149-158.	18.0	21
46	Evolution of agglomerate structure of carbon nanotubes in multi-walled carbon nanotubes/polymer composite melt: A rheo-electrical study. Composites Part B: Engineering, 2012, 43, 3281-3287.	12.0	20
47	Synergistic effect of stereocomplex crystals and shear flow on the crystallization rate of poly(l-lactic acid): A rheological study. RSC Advances, 2014, 4, 2733-2742.	3.6	20
48	Poly(Vinylidene Fluoride)â€Based Blends as New Binders for Lithiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 2288-2294.	3.4	20
49	Self-Sensing Actuators Based on a Stiffness Variable Reversible Shape Memory Polymer Enabled by a Phase Change Material. ACS Applied Materials & Interfaces, 2022, 14, 22521-22530.	8.0	19
50	Enhancement effect of filler network on isotactic polypropylene/carbon black composite melts. Colloid and Polymer Science, 2011, 289, 1673-1681.	2.1	18
51	Evaluation of Hydrophobic Polyurethane Foam as Sorbent Material for Oil Spill Recovery. Journal of Macromolecular Science - Pure and Applied Chemistry, 2014, 51, 88-100.	2.2	18
52	Interfacial interaction of polyvinylidene fluoride/multiwalled carbon nanotubes nanocomposites: A rheological study. Journal of Applied Polymer Science, 2011, 121, 3041-3046.	2.6	17
53	Additive Manufacturing With Conductive, Viscoelastic Polymer Composites: Direct-Ink-Writing of Electrolytic and Anodic Poly(Ethylene Oxide) Composites. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	17
54	Structure of fumed silica gels in dodecane: enhanced network by oscillatory shear. Colloid and Polymer Science, 2012, 290, 151-161.	2.1	16

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55	A protein-reinforced adhesive composite electrolyte. Polymer, 2016, 106, 43-52.	3.8	16
56	Nuomici-Inspired Universal Strategy for Boosting Piezoresistive Sensitivity and Elasticity of Polymer Nanocomposite-Based Strain Sensors. ACS Applied Materials & Interfaces, 2019, 11, 35362-35370.	8.0	16
57	Bio-treatment of poplar via amino acid for interface control in biocomposites. Composites Part B: Engineering, 2020, 199, 108276.	12.0	16
58	A Multifunctional Protein Coating for Self-Assembled Porous Nanostructured Electrodes. ACS Omega, 2017, 2, 1679-1686.	3.5	15
59	Small Molecules Make a Big Difference: A Solventâ€Controlled Strategy for Building Robust Conductive Network Structures in Highâ€Capacity Electrode Composites. Small Methods, 2018, 2, 1800066.	8.6	15
60	A critical study on a 3D scaffold-based lithium metal anode. Electrochimica Acta, 2019, 318, 220-227.	5.2	15
61	Gelation of attractive particles in polymer melt. Polymer, 2012, 53, 4293-4299.	3.8	14
62	Crystallization, rheological behavior and mechanical properties of poly(vinylidene fluoride) composites containing graphitic fillers: a comparative study. Polymer International, 2012, 61, 1031-1040.	3.1	13
63	Revisiting the electrode manufacturing: A look into electrode rheology and active material microenvironment. Journal of Energy Chemistry, 2022, 72, 41-55.	12.9	13
64	Soy protein-treated nanofillers creating adaptive interfaces in nanocomposites with effectively improved conductivity. Journal of Materials Science, 2018, 53, 8653-8665.	3.7	12
65	â€œSeeâ€•the invisibles: Inspecting battery separator defects via pressure drop. Energy Storage Materials, 2019, 16, 589-596.	18.0	12
66	Biobinder Nanocoating for Upgrading the Assembling Structures of High-Capacity Composite Electrodes with a Robust Polymeric Artificial Solid Electrolyte Interphase. ACS Applied Materials & Interfaces, 2020, 12, 58201-58211.	8.0	11
67	Superfast and solvent-free core-shell assembly of sulfur/carbon active particles by hail-inspired nanostorm technology for high-energy-density Li-S batteries. Journal of Energy Chemistry, 2022, 65, 565-573.	12.9	11
68	Dynamic Rheological Behavior of Copolymerized Linear Low-Density Polyethylenes: Effect of Molecular Weight and Its Distribution. Journal of Macromolecular Science - Physics, 2009, 48, 844-855.	1.0	10
69	A novel hierarchical crystalline structure of injection-molded bars of linear polymer: co-existence of bending and normal shishâ€“kebab structure. Colloid and Polymer Science, 2013, 291, 1503-1511.	2.1	10
70	The beauty of frost: nano-sulfur assembly via low pressure vapour deposition. Chemical Communications, 2015, 51, 15967-15970.	4.1	9
71	A dynamic study on nonlinear viscoelastic behavior of isotactic polypropylene/carbon black composite melts. Colloid and Polymer Science, 2011, 289, 1927-1931.	2.1	7
72	Hyperbranched poly(methyl methacrylate)s prepared by miniemulsion polymerization and their (non)-Newtonian flow behaviors. Polymer, 2011, 52, 376-382.	3.8	7

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73	A thermal method for quantitatively determinating the content of short chain branching in ethylene/Î±-olefin copolymers. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1389-1394.	3.6	7
74	Tunable reversible deformation of semicrystalline polymer networks based on temperature memory effect. Polymer, 2021, 232, 124157.	3.8	7
75	Blossoming of Nanosheet Structures via a Disturbed Self-Assembly. Nano Letters, 2014, 14, 3474-3480.	9.1	4
76	Ion-induced effective control of morphologies of soy protein biocomposites. Journal of Materials Science, 2015, 50, 2691-2699.	3.7	4
77	Seeding Nanoparticles for Hierarchical Self-Assembly. Journal of Physical Chemistry C, 2017, 121, 3560-3566.	3.1	3
78	Segregated polymeric nanocomposites with tunable three-dimensional network of nanoparticles by controlling the dispersion and distribution. RSC Advances, 2014, 4, 51872-51877.	3.6	2
79	Solvent-controlled formation of a reduced graphite oxide gel via hydrogen bonding. RSC Advances, 2016, 6, 27267-27271.	3.6	2
80	Scalable and Heavy Foam Functionalization by Electrodeâ€Inspired Sticky Jammed Fluids for Efficient Inâ€Door Air Quality Management. Energy and Environmental Materials, 0, , .	12.8	1
81	Characteristic Shear Rate for Nonlinear Viscoelastic Behavior in a Polydisperse Polymer Solution. Journal of Macromolecular Science - Physics, 2010, 50, 123-131.	1.0	0
82	INFLUENCE OF PHASE TRANSITION ON THE FILLER NETWORK IN ISOTACTIC POLYPROPYLENE/CARBON BLACK COMPOSITES. Acta Polymerica Sinica, 2011, 011, 1068-1072.	0.0	0
83	A RHEOLOGICAL STUDY ON THE CHAIN INTERDIFFUSION OF MISCIBLE POLYMER MELTS. Acta Polymerica Sinica, 2013, 013, 361-366.	0.0	0