Jintao Yang

List of Publications by Year
in descending order

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100 papers	3,802 citations	117625 34 h-index	138484 58 g-index
100 all docs	100 docs citations	100 times ranked	4121 citing authors

#	Article	IF	Citations
1	Graphene/poly(vinylidene fluoride) composites with high dielectric constant and low percolation threshold. Nanotechnology, 2012, 23, 365702.	2.6	194
2	High-performance, command-degradable, antibacterial Schiff base epoxy thermosets: synthesis and properties. Journal of Materials Chemistry A, 2019, 7, 15420-15431.	10.3	180
3	Salt-Responsive Zwitterionic Polymer Brushes with Tunable Friction and Antifouling Properties. Langmuir, 2015, 31, 9125-9133.	3.5	150
4	Highly stretchable, self-adhesive, biocompatible, conductive hydrogels as fully polymeric strain sensors. Journal of Materials Chemistry A, 2020, 8, 20474-20485.	10.3	147
5	Dual Salt- and Thermoresponsive Programmable Bilayer Hydrogel Actuators with Pseudo-Interpenetrating Double-Network Structures. ACS Applied Materials & Interfaces, 2018, 10, 21642-21653.	8.0	142
6	Preparation, characterization, and supercritical carbon dioxide foaming of polystyrene/graphene oxide composites. Journal of Supercritical Fluids, 2011, 56, 201-207.	3.2	136
7	From design to applications of stimuli-responsive hydrogel strain sensors. Journal of Materials Chemistry B, 2020, 8, 3171-3191.	5.8	131
8	Salt-Responsive Bilayer Hydrogels with Pseudo-Double-Network Structure Actuated by Polyelectrolyte and Antipolyelectrolyte Effects. ACS Applied Materials & Interfaces, 2017, 9, 20843-20851.	8.0	119
9	Self-assembly of NiO nanoparticles in lignin-derived mesoporous carbons for supercapacitor applications. Green Chemistry, 2013, 15, 3057.	9.0	118
10	Fundamentals and applications of zwitterionic antifouling polymers. Journal Physics D: Applied Physics, 2019, 52, 403001.	2.8	110
11	Physical properties of ligninâ€based polypropylene blends. Polymer Composites, 2011, 32, 1019-1025.	4.6	106
12	Salt-responsive zwitterionic polymer brushes with anti-polyelectrolyte property. Current Opinion in Chemical Engineering, 2018, 19, 86-93.	7.8	89
13	Molecularly Engineered Zwitterionic Hydrogels with High Toughness and Self-Healing Capacity for Soft Electronics Applications. Chemistry of Materials, 2021, 33, 8418-8429.	6.7	85
14	Structural Dependence of Salt-Responsive Polyzwitterionic Brushes with an Anti-Polyelectrolyte Effect. Langmuir, 2018, 34, 97-105.	3.5	80
15	Integration of antifouling and antibacterial properties in salt-responsive hydrogels with surface regeneration capacity. Journal of Materials Chemistry B, 2018, 6, 950-960.	5.8	78
16	Dual-stimulus bilayer hydrogel actuators with rapid, reversible, bidirectional bending behaviors. Journal of Materials Chemistry C, 2019, 7, 4970-4980.	5.5	76
17	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. Acta Biomaterialia, 2016, 40, 62-69.	8.3	74
18	Dihydrazone-based dynamic covalent epoxy networks with high creep resistance, controlled degradability, and intrinsic antibacterial properties from bioresources. Journal of Materials Chemistry A, 2020, 8, 11261-11274.	10.3	72

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19	Synthesis and Characterization of Antifouling Poly(N-acryloylaminoethoxyethanol) with Ultralow Protein Adsorption and Cell Attachment. Langmuir, 2014, 30, 10398-10409.	3.5	66
20	Bacteria killing and release of salt-responsive, regenerative, double-layered polyzwitterionic brushes. Chemical Engineering Journal, 2018, 333, 1-10.	12.7	60
21	Dark, heat-reflective, anti-ice rain and superhydrophobic cement concrete surfaces. Construction and Building Materials, 2019, 220, 21-28.	7.2	54
22	Visible light responsive sulfated rare earth doped TiO2@fumed SiO2 composites with mesoporosity: Enhanced photocatalytic activity for methyl orange degradation. Journal of Hazardous Materials, 2014, 267, 88-97.	12.4	52
23	Probing the Structural Dependence of Carbon Space Lengths of Poly(N-hydroxyalkyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.4	52
24	Lignin-derived hierarchical mesoporous carbon and NiO hybrid nanospheres with exceptional Li-ion battery and pseudocapacitive properties. Electrochimica Acta, 2018, 274, 288-297.	5.2	51
25	Salt-Induced Regenerative Surface for Bacteria Killing and Release. Langmuir, 2017, 33, 7160-7168.	3.5	49
26	Design of salt-responsive and regenerative antibacterial polymer brushes with integrated bacterial resistance, killing, and release properties. Journal of Materials Chemistry B, 2019, 7, 5762-5774.	5.8	48
27	Fluorescent Hydrogelâ€Coated Paper/Textile as Flexible Chemosensor for Visual and Wearable Mercury(II) Detection. Advanced Materials Technologies, 2019, 4, 1800201.	5.8	46
28	Self-assembly between graphene sheets and cationic poly(methyl methacrylate) (PMMA) particles: preparation and characterization of PMMA/graphene composites. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	42
29	A Universal Coating Strategy for Controllable Functionalized Polymer Surfaces. Advanced Functional Materials, 2020, 30, 2004633.	14.9	40
30	Polyelectrolyte/mesoporous silica hybrid materials for the high performance multiple-detection of pH value and temperature. Polymer Chemistry, 2015, 6, 3529-3536.	3.9	39
31	Micro- and macroscopically structured zwitterionic polymers with ultralow fouling property. Journal of Colloid and Interface Science, 2020, 578, 242-253.	9.4	39
32	Mussel-Inspired Polymeric Coatings to Realize Functions from Single and Dual to Multiple Antimicrobial Mechanisms. ACS Applied Materials & Interfaces, 2021, 13, 3089-3097.	8.0	39
33	Polyzwitterionic double-network ionogel electrolytes for supercapacitors with cryogenic-effective stability. Chemical Engineering Journal, 2022, 438, 135607.	12.7	37
34	Salt-Responsive â€œKilling and Releaseâ€•Antibacterial Surfaces of Mixed Polymer Brushes. Industrial & Engineering Chemistry Research, 2018, 57, 8938-8945.	3.7	36
35	Synthesis of silica particles grafted with poly(ionic liquid) and their nucleation effect on microcellular foaming of polystyrene using supercritical carbon dioxide. Journal of Supercritical Fluids, 2012, 62, 197-203.	3.2	34
36	Preparation of polymer foams with a gradient of cell size: Further exploring the nucleation effect of porous inorganic materials in polymer foaming. Materials Today Communications, 2016, 9, 1-6.	1.9	33

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37	Mechanical and thermal properties of attapulgite clay reinforced polymethylmethacrylate nanocomposites. Polymers for Advanced Technologies, 2011, 22, 1912-1918.	3.2	32
38	Extrusion Foaming of Lightweight Polystyrene Composite Foams with Controllable Cellular Structure for Sound Absorption Application. Polymers, 2019, 11, 106.	4.5	32
39	Hostâ€“Guest Interaction-Mediated Photo/Temperature Dual-Controlled Antibacterial Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 14543-14551.	8.0	32
40	One-Pot and One-Step Fabrication of Salt-Responsive Bilayer Hydrogels with 2D and 3D Shape Transformations. ACS Applied Materials & Interfaces, 2019, 11, 25417-25426.	8.0	31
41	Conductive thermoplastic polyurethane nanocomposite foams derived from a cellulose/MWCNTs aerogel framework: simultaneous enhancement of piezoresistance, strength, and endurance. Journal of Materials Chemistry C, 2021, 9, 13103-13114.	5.5	30
42	Preparation of microporous thermoplastic polyurethane by low-temperature supercritical CO₂ foaming. Journal of Cellular Plastics, 2017, 53, 135-150.	2.4	28
43	A New Promising Nucleating Agent for Polymer Foaming: Applications of Ordered Mesoporous Silica Particles in Polymethyl Methacrylate Supercritical Carbon Dioxide Microcellular Foaming. Industrial & Engineering Chemistry Research, 2013, 52, 14169-14178.	3.7	25
44	Strong anti-polyelectrolyte zwitterionic hydrogels with superior self-recovery, tunable surface friction, conductivity, and antifreezing properties. European Polymer Journal, 2021, 148, 110350.	5.4	25
45	Cationic peptide-based salt-responsive antibacterial hydrogel dressings for wound healing. International Journal of Biological Macromolecules, 2021, 190, 754-762.	7.5	25
46	Effect of nanoporous structure and polymer brushes on the ionic conductivity of poly(methacrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	24
47	Osteichthyes skin-inspired tough and sticky composite hydrogels for dynamic adhesive dressings. Composites Part B: Engineering, 2022, 241, 110010.	12.0	23
48	Preparation and characterization of polystyrene (PS)/layered double hydroxides (LDHs) composite by a heterocoagulation method. Colloid and Polymer Science, 2010, 288, 761-767.	2.1	22
49	Aqueous lubrication of poly(N-hydroxyethyl acrylamide) brushes: a strategy for their enhanced load bearing capacity and wear resistance. RSC Advances, 2016, 6, 21961-21968.	3.6	22
50	Long-term stability and salt-responsive behavior of polyzwitterionic brushes with cross-linked structure. Progress in Organic Coatings, 2019, 134, 153-161.	3.9	22
51	Synthesis and characterization of lignosulfonate-derived hierarchical porous graphitic carbons for electrochemical performances. Microporous and Mesoporous Materials, 2017, 247, 184-189.	4.4	21
52	Effect of CO₂ exposure on free volumes in polystyrene studied by positron annihilation spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 388-405.	2.1	20
53	Probing structureâ€“heterogeneous nucleation efficiency relationship of mesoporous particles in polylactic acid microcellular foaming by supercritical carbon dioxide. Journal of Supercritical Fluids, 2014, 95, 228-235.	3.2	20
54	Antisoiling Performance of Lotus Leaf and Other Leaves after Prolonged Outdoor Exposure. ACS Applied Materials & Interfaces, 2020, 12, 53394-53402.	8.0	19

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55	Natural Lipid Inspired Hydrogelâ€“Organogel Bilayer Actuator with a Tough Interface and Multiresponsive, Rapid, and Reversible Behaviors. Industrial & Engineering Chemistry Research, 2020, 59, 7646-7658.	3.7	19
56	Comparison of Carbon Nanofibers and Activated Carbon on Carbon Dioxide Foaming of Polystyrene. Journal of Cellular Plastics, 2008, 44, 453-468.	2.4	18
57	Salt- and thermo-responsive polyzwitterionic brush prepared via surface-initiated photoiniferter-mediated polymerization. Applied Surface Science, 2018, 450, 130-137.	6.1	18
58	Synthesis and foaming of water expandable polystyrene-activated carbon (WEPSAC). Polymer, 2009, 50, 3169-3173.	3.8	16
59	Super Hydrophilic Semi-IPN Fluorescent Poly(N-(2-hydroxyethyl)acrylamide) Hydrogel for Ultrafast, Selective, and Long-Term Effective Mercury(II) Detection in a Bacteria-Laden System. ACS Applied Bio Materials, 2019, 2, 906-915.	4.6	16
60	GO@Polyaniline Nanorod Array Hierarchical Structure: A Photothermal Agent with High Photothermal Conversion Efficiency for Fast Near-Infrared Responsive Hydrogels. Industrial & Engineering Chemistry Research, 2019, 58, 3893-3901.	3.7	16
61	Positron annihilation study in inorganicâ€polymer nanoâ€composites. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2397-2400.	0.8	15
62	Improved crystallizability and processability of ultra high molecular weight polyethylene modified by poly(amido amine) dendrimers. Polymer Engineering and Science, 2017, 57, 153-160.	3.1	15
63	Fast-cured UV-LED polymer materials filled with high mineral contents as wear-resistant, antibacterial coatings. Chemical Engineering Journal, 2020, 382, 122927.	12.7	15
64	Preparation of polystyrene/graphene oxide composites and their supercritical carbon dioxide foaming. Journal of Polymer Research, 2013, 20, 1.	2.4	14
65	Mesoporous silica particles grafted with polystyrene brushes as a nucleation agent for polystyrene supercritical carbon dioxide foaming. Journal of Applied Polymer Science, 2013, 130, 4308-4317.	2.6	14
66	Spatiotemporal self-strengthening hydrogels for oral tissue regeneration. Composites Part B: Engineering, 2022, 243, 110119.	12.0	14
67	Multiwalled carbon nanotubes grafted with polyamidoamine (PAMAM) dendrimers and their influence on polystyrene supercritical carbon dioxide foaming. Journal of Supercritical Fluids, 2013, 82, 13-21.	3.2	13
68	Decolorization of rhodamine B using hydrogen peroxide and H₃PW₁₂O₄₀@C photocatalyst synthesizedin situunder ultraviolet irradiation. Desalination and Water Treatment, 2015, 53, 2970-2979.	1.0	13
69	Graphene oxide functionalized by poly(ionic liquid)s for carbon dioxide capture. Journal of Applied Polymer Science, 2017, 134, .	2.6	13
70	Electric Assisted Salt-Responsive Bacterial Killing and Release of Polyzwitterionic Brushes in Low-Concentration Salt Solution. Langmuir, 2019, 35, 8285-8293.	3.5	13
71	Enhanced sound insulation and mechanical properties based on inorganic fillers/thermoplastic elastomer composites. Journal of Thermoplastic Composite Materials, 2019, 32, 936-950.	4.2	13
72	Synthesis and characterization of â€œcomb-likeâ€•poly(ionic liquid-co-styrene): expected applications in graphene dispersion and CO2 separation. RSC Advances, 2015, 5, 32853-32861.	3.6	12

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73	Photoresponsive polyelectrolyte/mesoporous silica hybrid materials with remote-controllable ionic transportation. Chemical Engineering Journal, 2017, 322, 445-453.	12.7	12
74	Novel Salt-Responsive SiO₂@Cellulose Membranes Promote Continuous Gradient and Adjustable Transport Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 42169-42178.	8.0	12
75	Versatile and Simple Strategy for Preparing Bilayer Hydrogels with Janus Characteristics. ACS Applied Materials & Interfaces, 2022, 14, 4579-4587.	8.0	12
76	Influence of organoclay and preparation technique on the morphology of polyamide6/polystyrene/organoclay nanocomposites. Journal of Applied Polymer Science, 2008, 110, 276-282.	2.6	11
77	Influence of clay and predispersion method on the structure and properties of polystyrene (PS)â€clay nanocomposites. Polymer Engineering and Science, 2009, 49, 1937-1944.	3.1	10
78	Comb-like structural modification stabilizes polyvinylidene fluoride membranes to realize thermal-regulated sustainable transportation efficiency. Journal of Colloid and Interface Science, 2021, 591, 173-183.	9.4	10
79	Graphite oxide platelets functionalized by poly(ionic liquid) brushes and their chemical reduction. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	9
80	â€œJanus-Featuredâ€•Hydrogel with Antifouling and Bacteria-Releasing Properties. Industrial & Engineering Chemistry Research, 2019, 58, 17792-17801.	3.7	9
81	GO@Fe3O4@CuSilicate Composite with a Hierarchical Structure: Fabrication, Microstructure, and Highly Electromagnetic Shielding Performance. ACS Omega, 2020, 5, 7940-7949.	3.5	9
82	Zwitterionic Nanocapsules with Salt- and Thermo-Responsiveness for Controlled Encapsulation and Release. ACS Applied Materials & Interfaces, 2021, 13, 47090-47099.	8.0	9
83	GO@CuSilicate nano-needle arrays hierarchical structure: a new route to prepare high optical transparent, excellent self-cleaning and anticorrosion superhydrophobic surface. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	7
84	Light-triggered pH/thermal multisensitive polyelectrolyte/ITO glass hybrid electrode. Applied Surface Science, 2019, 464, 273-279.	6.1	7
85	<scp>Fe₃O₄</scp>@<scp>PA6</scp>/<scp>MWCNT</scp> composites with multiple gradient segregated structures for electromagnetic shielding with low reflection. Journal of Applied Polymer Science, 2022, 139, .	2.6	7
86	Photo-switchable supramolecular comb-like polymer brush based on hostâ€“guest recognition for use as antimicrobial smart surface. Journal of Materials Chemistry B, 2022, 10, 3039-3047.	5.8	7
87	Conductive Adhesive and Antibacterial Zwitterionic Hydrogel Dressing for Therapy of Full-Thickness Skin Wounds. Frontiers in Bioengineering and Biotechnology, 2022, 10, 833887.	4.1	7
88	Ionic liquidâ€modified graphene/poly(vinyl alcohol) composite with enhanced properties. Journal of Applied Polymer Science, 2017, 134, .	2.6	6
89	Ionic interaction-driven switchable bactericidal surfaces. Acta Biomaterialia, 2022, 142, 124-135.	8.3	6
90	Development of PA6/GO microspheres with good processability for SLS 3D printing. Polymer Engineering and Science, 2022, 62, 1700-1709.	3.1	5

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91	Synthesis of POSS-based star-shaped poly(ionic liquid)s and its application in supercritical CO2 microcellular foaming of polystyrene. Journal of Polymer Research, 2016, 23, 1.	2.4	4
92	Encapsulated graphenes through ultrasonically initiated in situ polymerization: A route to high dielectric permittivity, low loss materials with low percolation threshold. Journal of Applied Polymer Science, 2017, 134, .	2.6	4
93	Influence of interaction between poly(methyl methacrylate) and clay on the properties of nanocomposites prepared by a heterocoagulation method. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 733-738.	2.1	3
94	Structural Polyfluorene Derivative Nanocarriers with Promising Fluorescence Emission and Antifouling Properties. ACS Applied Polymer Materials, 2022, 4, 4013-4024.	4.4	3
95	The characterizations and electrochemical properties of lignosulfonate templates based mesoporous NiO. AIP Conference Proceedings, 2013, , .	0.4	2
96	Effect of surface modification of graphite oxide on the morphological, thermal, and mechanical properties of polyurea/graphite oxide composites. Journal of Applied Polymer Science, 2014, 131, .	2.6	2
97	Synthesis of ionic liquids copolymerize styrene and their nucleation, carbon dioxide sorption effect on supercritical carbon dioxide microcellular foaming. Journal of Polymer Research, 2015, 22, 1.	2.4	2
98	Intercalation of montmorillonite based on dendritic quaternary ammonium: preparation and characterization. E-Polymers, 2012, 12, .	3.0	1
99	â€œAnti-Condensationâ€•Aluminum Superhydrophobic Surface by Smaller Nanostructures. Frontiers in Bioengineering and Biotechnology, 2022, 10, 887902.	4.1	1
100	Constructing <scp>PA6</scp>/<scp>PS</scp> composite foam with porous and hybrid isolation structure to synergistically control absorption and electromagnetic interference shielding effectiveness. Journal of Applied Polymer Science, 2022, 139, .	2.6	1