

# Yutian Zhu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5789803/publications.pdf>

Version: 2024-02-01

80  
papers

4,303  
citations

109137

35  
h-index

114278

63  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3313  
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of stretchable strain sensors from conductive polymer nanocomposites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11710-11730.	2.7	315
2	Control of carbon nanotubes at the interface of a co-continuous immiscible polymer blend to fabricate conductive composites with ultralow percolation thresholds. <i>Carbon</i> , 2014, 73, 267-274.	5.4	225
3	Design of Electrical Conductive Composites: Tuning the Morphology to Improve the Electrical Properties of Graphene Filled Immiscible Polymer Blends. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5281-5286.	4.0	207
4	Recent Progress in Essential Functions of Soft Electronic Skin. <i>Advanced Functional Materials</i> , 2021, 31, 2104686.	7.8	192
5	Design of superior conductive polymer composite with precisely controlling carbon nanotubes at the interface of a co-continuous polymer blend via a balance of $\pi$ - $\pi$ interactions and dipole-dipole interactions. <i>Carbon</i> , 2017, 114, 441-448.	5.4	179
6	A stretchable and transparent strain sensor based on sandwich-like PDMS/CNTs/PDMS composite containing an ultrathin conductive CNT layer. <i>Composites Science and Technology</i> , 2020, 186, 107938.	3.8	166
7	Balance the electrical properties and mechanical properties of carbon black filled immiscible polymer blends with a double percolation structure. <i>Composites Science and Technology</i> , 2017, 140, 99-105.	3.8	121
8	Flexible, transparent, and antibacterial ionogels toward highly sensitive strain and temperature sensors. <i>Chemical Engineering Journal</i> , 2021, 424, 130418.	6.6	119
9	Massive enhancement in the thermal conductivity of polymer composites by trapping graphene at the interface of a polymer blend. <i>Composites Science and Technology</i> , 2016, 129, 160-165.	3.8	118
10	Advances in transparent and stretchable strain sensors. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 435-450.	9.9	109
11	Advances in Responsively Conductive Polymer Composites and Sensing Applications. <i>Polymer Reviews</i> , 2021, 61, 157-193.	5.3	103
12	Recent progress in the self-assembly of block copolymers confined in emulsion droplets. <i>Chemical Communications</i> , 2018, 54, 13183-13195.	2.2	97
13	Well-Ordered Inorganic Nanoparticle Arrays Directed by Block Copolymer Nanosheets. <i>ACS Nano</i> , 2019, 13, 6638-6646.	7.3	96
14	Stretchable and transparent multimodal electronic-skin sensors in detecting strain, temperature, and humidity. <i>Nano Energy</i> , 2022, 96, 107077.	8.2	95
15	A highly stretchable strain sensor with both an ultralow detection limit and an ultrawide sensing range. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1795-1802.	5.2	92
16	Strain sensing behaviors of stretchable conductive polymer composites loaded with different dimensional conductive fillers. <i>Composites Science and Technology</i> , 2018, 168, 388-396.	3.8	89
17	Ionic liquid enabled flexible transparent polydimethylsiloxane sensors for both strain and temperature sensing. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 574-583.	9.9	86
18	Breathable Strain/Temperature Sensor Based on Fibrous Networks of Ionogels Capable of Monitoring Human Motion, Respiration, and Proximity. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51567-51577.	4.0	77

#	ARTICLE	IF	CITATIONS
19	Entropy-Driven Hierarchical Nanostructures from Cooperative Self-Assembly of Gold Nanoparticles/Block Copolymers under Three-Dimensional Confinement. <i>Macromolecules</i> , 2015, 48, 5980-5987.	2.2	76
20	Three-dimensional light-weight piezoresistive sensors based on conductive polyurethane sponges coated with hybrid CNT/CB nanoparticles. <i>Applied Surface Science</i> , 2021, 548, 149268.	3.1	72
21	Flexible and breathable all-nanofiber iontronic pressure sensors with ultraviolet shielding and antibacterial performances for wearable electronics. <i>Nano Energy</i> , 2022, 95, 107022.	8.2	67
22	Tailored Parallel Graphene Stripes in Plastic Film with Conductive Anisotropy by Shear-Induced Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 43-47.	2.1	66
23	Parallel Carbon Nanotube Stripes in Polymer Thin Film with Remarkable Conductive Anisotropy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1754-1758.	4.0	66
24	Controllable Location of Inorganic Nanoparticles on Block Copolymer Self-Assembled Scaffolds by Tailoring the Entropy and Enthalpy Contributions. <i>Macromolecules</i> , 2017, 50, 6771-6778.	2.2	61
25	Natural sunlight-actuated shape memory materials with reversible shape change and self-healing abilities based on carbon nanotubes filled conductive polymer composites. <i>Chemical Engineering Journal</i> , 2020, 382, 122823.	6.6	60
26	Recent Progress on Thermo-electrical Properties of Conductive Polymer Composites and Their Application in Temperature Sensors. <i>Engineered Science</i> , 2020, , .	1.2	57
27	Tune the phase morphology to design conductive polymer composites: A review. <i>Polymer Composites</i> , 2018, 39, 2985-2996.	2.3	52
28	Lightweight and conductive carbon black/chlorinated poly(propylene carbonate) foams with a remarkable negative temperature coefficient effect of resistance for temperature sensor applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9354-9362.	2.7	52
29	Monte Carlo Simulation of the Grafting of Maleic Anhydride onto Polypropylene at Higher Temperature. <i>Macromolecules</i> , 2003, 36, 3714-3720.	2.2	50
30	Self-Assembly of Diblock Copolymer Mixtures in Confined States: A Monte Carlo Study. <i>Macromolecules</i> , 2007, 40, 2872-2881.	2.2	48
31	Flexible and Transparent Pressure/Temperature Sensors Based on Ionogels with Bioinspired Interlocked Microstructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2122-2131.	4.0	46
32	Fabrication of a highly tough, strong, and stiff carbon nanotube/epoxy conductive composite with an ultralow percolation threshold via self-assembly. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15731-15740.	5.2	41
33	Design of flexible strain sensor with both ultralow detection limit and wide sensing range via the multiple sensing mechanisms. <i>Composites Science and Technology</i> , 2021, 213, 108932.	3.8	40
34	Wearable Ionogel-Based Fibers for Strain Sensors with Ultrawide Linear Response and Temperature Sensors Insensitive to Strain. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 30268-30278.	4.0	39
35	Ultralong gold nanoparticle/block copolymer hybrid cylindrical micelles: a strategy combining surface templated self-assembly and Rayleigh instability. <i>Nanoscale</i> , 2013, 5, 6344.	2.8	38
36	Templated Self-Assembly of Block Copolymers and Morphology Transformation Driven by the Rayleigh Instability. <i>Langmuir</i> , 2015, 31, 1660-1669.	1.6	35

#	ARTICLE	IF	CITATIONS
37	Parallel carbon nanotube stripes in polymer thin film with tunable microstructures and anisotropic conductive properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 240-246.	3.8	35
38	Self-Assembly of AB Diblock Copolymer Confined in a Soft Nano-Droplet: A Combination Study by Monte Carlo Simulation and Experiment. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12023-12029.	1.2	35
39	Stretchable strain and temperature sensor based on fibrous polyurethane film saturated with ionic liquid. <i>Composites Communications</i> , 2021, 27, 100845.	3.3	34
40	Highly Symmetric Patchy Multicompartment Nanoparticles from the Self-Assembly of ABC Linear Terpolymers in C-Selective Solvents. <i>Langmuir</i> , 2012, 28, 11714-11724.	1.6	33
41	Self-assembly of block copolymers into sieve-like particles with arrayed switchable channels and as scaffolds to guide the arrangement of gold nanoparticles. <i>Nanoscale</i> , 2017, 9, 15056-15061.	2.8	33
42	Light-Enabled Reversible Shape Transformation of Block Copolymer Particles. <i>ACS Macro Letters</i> , 2021, 10, 914-920.	2.3	33
43	Highly-stretchable porous thermoplastic polyurethane/carbon nanotubes composites as a multimodal sensor. <i>Carbon</i> , 2022, 195, 364-371.	5.4	33
44	Effect of the initial maleic anhydride content on the grafting of maleic anhydride onto isotactic polypropylene. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5529-5534.	2.5	32
45	Rheological properties of PDMS/clay nanocomposites and their sensitivity to microstructure. <i>Rheologica Acta</i> , 2009, 48, 1049-1058.	1.1	31
46	Inorganic Nanoparticle Induced Morphological Transition for Confined Self-Assembly of Block Copolymers within Emulsion Droplets. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8417-8425.	1.2	31
47	Disassembly of Multicompartment Polymer Micelles in Spatial Sequence Using an Electrostatic Field and Its Application for Release in Chronological Order. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3578-3582.	7.2	31
48	Nano-reactors for controlling the selectivity of the free radical grafting of maleic anhydride onto polypropylene in the melt. <i>Polymer Engineering and Science</i> , 2006, 46, 1443-1454.	1.5	29
49	Thermal annealing induced enhancement of electrical properties of a co-continuous polymer blend filled with carbon nanotubes. <i>Composites Science and Technology</i> , 2018, 167, 522-528.	3.8	29
50	A Monte Carlo simulation for the micellization of ABC 3-miktoarm star terpolymers in a selective solvent. <i>Chemical Physics</i> , 2006, 327, 137-143.	0.9	27
51	Janus-like spheres, disks, rings, cylinders, and vesicles from the self-assembly of mixture of AB and BC diblock copolymers in A- and C-selective solvents. <i>Soft Matter</i> , 2013, 9, 6254.	1.2	27
52	Highly trans-1,4-stereoselective coordination chain transfer polymerization of 1,3-butadiene and copolymerization with cyclic esters by a neodymium-based catalyst system. <i>Polymer Chemistry</i> , 2015, 6, 6088-6095.	1.9	27
53	Fabrication of Polymer Film with Extraordinary Conductive Anisotropy by Forming Parallel Conductive Vorticity-Aligned Stripes and Its Formation Mechanism. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 743-749.	1.7	26
54	Synthesis and Characterization of PEGylated Trityl Radicals: Effect of PEGylation on Physicochemical Properties. <i>Journal of Organic Chemistry</i> , 2017, 82, 588-596.	1.7	25

#	ARTICLE	IF	CITATIONS
55	Multicompartment micellar aggregates of linear ABC amphiphiles in solvents selective for the C block: a Monte Carlo simulation. <i>Soft Matter</i> , 2012, 8, 4695.	1.2	24
56	Highly flexible TPU/SWCNTs composite-based temperature sensors with linear negative temperature coefficient effect and photo-thermal effect. <i>Composites Science and Technology</i> , 2022, 217, 109133.	3.8	23
57	Self-assembly of ABC triblock copolymers under 3D soft confinement: a Monte Carlo study. <i>Soft Matter</i> , 2016, 12, 965-972.	1.2	20
58	Segmented and double-helix multicompartment micelles from self-assembly of blends of ABC and AB block copolymers in C block-selective solvents. <i>Soft Matter</i> , 2012, 8, 11156.	1.2	19
59	Self-assembly of ABA triblock copolymers under soft confinement. <i>Chemical Physics</i> , 2015, 452, 46-52.	0.9	19
60	Release Behavior of Polymeric Vesicles in Solution Controlled by External Electrostatic Field. <i>ACS Macro Letters</i> , 2016, 5, 1212-1216.	2.3	17
61	Controllable Cooperative Self-Assembly of PS- <i>b</i> -PAA/PS- <i>b</i> -P4VP Mixture by Tuning the Intercorona Interaction. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5527-5533.	1.2	17
62	Confined co-assembly of AB/BC diblock copolymer blends under 3D soft confinement. <i>Soft Matter</i> , 2018, 14, 4679-4686.	1.2	17
63	Switchable Isotropic/Anisotropic Wettability and Programmable Droplet Transportation on a Shape-Memory Honeycomb. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42314-42320.	4.0	17
64	Monte Carlo simulation of the compatibility of graft copolymer compatibilized two incompatible homopolymer blends: Effect of graft structure. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1591-1596.	1.3	16
65	Simultaneously strengthening, toughening, and conductivity improving for epoxy at ultralow carbonaceous filler content by constructing 3D nanostructures and sacrificial bonds. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 106014.	3.8	15
66	Droplet-cluster transition in sheared polyamide 6â€“poly(styrene-ethylene-butadiene-styrene)â€“polypropylene ternary blends. <i>Physical Review E</i> , 2010, 82, 031807.	0.8	13
67	Mesh-Like Vesicles Formed From Blends of Poly(4-vinyl pyridine)- <i>b</i> -polystyrene- <i>b</i> -poly(4-vinyl Tj ETQq1 1 0 7 2012, 213, 2261-2266.	1.1	11
68	Encapsulation of inorganic nanoparticles in a block copolymer vesicle wall driven by the interfacial instability of emulsion droplets. <i>Polymer Chemistry</i> , 2021, 12, 4184-4192.	1.9	10
69	Temperature-Driven Reversible Shape Transformation of Polymeric Nanoparticles from Emulsion Confined Coassembly of Block Copolymers and Poly( <i>N</i> -isopropylacrylamide). <i>Macromolecules</i> , 2022, 55, 6211-6219.	2.2	10
70	Multicompartment nanoparticles from the self-assembly of mixtures of ABC and AC block copolymers in C-selective solvents. <i>Chemical Physics</i> , 2014, 441, 47-52.	0.9	9
71	Light-driven sequential shape transformation of block copolymer particles through three-dimensional confined self-assembly. <i>Nanoscale</i> , 2022, 14, 6291-6298.	2.8	9
72	Self-assembly of AB diblock copolymer solutions confined in cylindrical nanopores. <i>Materials Chemistry Frontiers</i> , 2017, 1, 487-494.	3.2	7

#	ARTICLE	IF	CITATIONS
73	Online study of the formation of PA6 droplets in PP matrix under shear flow. Journal of Applied Polymer Science, 2007, 104, 2690-2695.	1.3	6
74	Morphological transition of dry vesicles into onion-like multilamellar micelles induced through heating at high temperature. Chemical Physics Letters, 2008, 460, 257-260.	1.2	6
75	Stepwise study on Janus-like particles fabricated by polymeric mixtures within soft droplets: a Monte Carlo simulation. RSC Advances, 2017, 7, 38666-38676.	1.7	6
76	Movable-crosslinking tough hydrogels with lithium ion as sensitive and durable compressive sensor. Polymer, 2021, 214, 123257.	1.8	6
77	Synthesis, self-assembly and thermoresponsive behavior of Poly(lactide-co-glycolide)-b-Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	2
78	Disassembly of Multicompartment Polymer Micelles in Spatial Sequence Using an Electrostatic Field and Its Application for Release in Chronological Order. Angewandte Chemie, 2018, 130, 3640-3644.	1.6	1
79	Frontispiz: Disassembly of Multicompartment Polymer Micelles in Spatial Sequence Using an Electrostatic Field and Its Application for Release in Chronological Order. Angewandte Chemie, 2018, 130, .	1.6	0
80	Frontispiece: Disassembly of Multicompartment Polymer Micelles in Spatial Sequence Using an Electrostatic Field and Its Application for Release in Chronological Order. Angewandte Chemie - International Edition, 2018, 57, .	7.2	0