## Peng Xiao

## List of Publications by Citations

Source: https://exaly.com/author-pdf/8249731/peng-xiao-publications-by-citations.pdf

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68
papers

2,757
citations

30
h-index

9-index

70
ext. papers

3,564
ext. citations

10.1
avg, IF

L-index

#	Paper	IF	Citations
68	Janus polymer/carbon nanotube hybrid membranes for oil/water separation. <i>ACS Applied Materials</i> & amp; Interfaces, <b>2014</b> , 6, 16204-9	9.5	236
67	Proton-Conducting Graphene Oxide-Coupled Neuron Transistors for Brain-Inspired Cognitive Systems. <i>Advanced Materials</i> , <b>2016</b> , 28, 3557-63	24	181
66	Functionalization of Biodegradable PLA Nonwoven Fabric as Superoleophilic and Superhydrophobic Material for Efficient Oil Absorption and Oil/Water Separation. <i>ACS Applied Materials &amp; Discompile Materials &amp; Discompile Action (Page 19</i> ) 100 100 100 100 100 100 100 100 100 10	9.5	180
65	Robust preparation of superhydrophobic polymer/carbon nanotube hybrid membranes for highly effective removal of oils and separation of water-in-oil emulsions. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15268	13	168
64	A Multiresponsive Anisotropic Hydrogel with Macroscopic 3D Complex Deformations. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8670-8676	15.6	153
63	Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1320-1327	7.1	125
62	Network cracks-based wearable strain sensors for subtle and large strain detection of human motions. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5140-5147	7.1	114
61	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. <i>Nano Energy</i> , <b>2019</b> , 59, 422-433	17.1	113
60	Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004290	24	83
59	High Performance Humidity Fluctuation Sensor for Wearable Devices via a Bioinspired Atomic-Precise Tunable Graphene-Polymer Heterogeneous Sensing Junction. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4343-4354	9.6	80
58	Controlled functionalization of carbon nanotubes as superhydrophobic material for adjustable oil/water separation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4124-4128	13	77
57	A scalable, low-cost and robust photo-thermal fabric with tunable and programmable 2D/3D structures towards environmentally adaptable liquid/solid-medium water extraction. <i>Nano Energy</i> , <b>2019</b> , 65, 104002	17.1	63
56	Asymmetric elastoplasticity of stacked graphene assembly actualizes programmable untethered soft robotics. <i>Nature Communications</i> , <b>2020</b> , 11, 4359	17.4	54
55	Mechanical Robust and Self-Healable Supramolecular Hydrogel. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 265-70	4.8	53
54	Collective behaviors mediated multifunctional black sand aggregate towards environmentally adaptive solar-to-thermal purified water harvesting. <i>Nano Energy</i> , <b>2020</b> , 68, 104311	17.1	51
53	Exploring interface confined water flow and evaporation enables solar-thermal-electro integration towards clean water and electricity harvest via asymmetric functionalization strategy. <i>Nano Energy</i> , <b>2020</b> , 68, 104385	17.1	51
52	Biodegradable PLA Nonwoven Fabric with Controllable Wettability for Efficient Water Purification and Photocatalysis Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2445-2452	8.3	49

## (2018-2016)

51	Highly Efficient Actuator of Graphene/Polydopamine Uniform Composite Thin Film Driven by Moisture Gradients. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600169	4.6	49	
50	Micro-/Macroscopically Synergetic Control of Switchable 2D/3D Photothermal Water Purification Enabled by Robust, Portable, and Cost-Effective Cellulose Papers. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2019</b> , 11, 15498-15506	9.5	48	
49	Novel Thermoplastic Cellulose Esters Containing Bulky Moieties and Soft Segments. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4931-4939	8.3	47	
48	Ultrafast Formation of Free-Standing 2D Carbon Nanotube Thin Films through Capillary Force Driving Compression on an Air/Water Interface. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7125-7133	9.6	47	
47	Converting Pomelo Peel into Eco-friendly and Low-Consumption Photothermic Biomass Sponge toward Multifunctioal Solar-to-Heat Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 5328-5337	8.3	40	
46	A self-protective, reproducible textile sensor with high performance towards humanthachine interactions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26631-26640	13	40	
45	2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2428-2435	15.6	38	
44	Tillandsia-Inspired Hygroscopic Photothermal Organogels for Efficient Atmospheric Water Harvesting. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19237-19246	16.4	37	
43	A microcontact printing induced supramolecular self-assembled photoactive surface for patterning polymer brushes. <i>Chemical Communications</i> , <b>2013</b> , 49, 11167-9	5.8	35	
42	Construction of superhydrophilic and under-water superoleophobic carbon-based membranes for water purification. <i>RSC Advances</i> , <b>2016</b> , 6, 73399-73403	3.7	35	
41	Polymer brush functionalized Janus graphene oxide/chitosan hybrid membranes. <i>RSC Advances</i> , <b>2014</b> , 4, 22759	3.7	33	
40	Hydrophilic/Hydrophobic Interphase-Mediated Bubble-like Stretchable Janus Ultrathin Films toward Self-Adaptive and Pneumatic Multifunctional Electronics. <i>ACS Nano</i> , <b>2019</b> , 13, 4368-4378	16.7	31	
39	Micro-contact printing of graphene oxide nanosheets for fabricating patterned polymer brushes. <i>Chemical Communications</i> , <b>2014</b> , 50, 7103-6	5.8	31	
38	Insight into the heat resistance of fish via blood: Effects of heat stress on metabolism, oxidative stress and antioxidant response of olive flounder Paralichthys olivaceus and turbot Scophthalmus maximus. <i>Fish and Shellfish Immunology</i> , <b>2016</b> , 58, 125-135	4.3	29	
37	Synthesis, characterization and properties of novel cellulose derivatives containing phosphorus: cellulose diphenyl phosphate and its mixed esters. <i>Cellulose</i> , <b>2014</b> , 21, 2369-2378	5.5	28	
36	Macroscopic Ultrathin Film as Bio-Inspired Interfacial Reactor for Fabricating 2D Freestanding Janus CNTs/AuNPs Hybrid Nanosheets with Enhanced Electrical Performance. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600170	4.6	26	
35	Au nanoparticle-loaded PDMAEMA brush grafted graphene oxide hybrid systems for thermally smart catalysis. <i>RSC Advances</i> , <b>2014</b> , 4, 44480-44485	3.7	25	
34	Scalable fabrication of free-standing, stretchable CNT/TPE ultrathin composite films for skin adhesive epidermal electronics. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6666-6671	7.1	23	

33	Flexible PVDF membranes with exceptional robust superwetting surface for continuous separation of oil/water emulsions. <i>Scientific Reports</i> , <b>2017</b> , 7, 14099	4.9	22
32	Exploring the potential of exfoliated ternary ultrathin Ti4AlN3 nanosheets for fabricating hybrid patterned polymer brushes. <i>RSC Advances</i> , <b>2015</b> , 5, 70339-70344	3.7	21
31	A lotus-inspired janus hybrid film enabled by interfacial self-assembly and in situ asymmetric modification. <i>Chemical Communications</i> , <b>2018</b> , 54, 12804-12807	5.8	20
30	Mechanically robust, solar-driven, and degradable lignin-based polyurethane adsorbent for efficient crude oil spill remediation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 128956	14.7	19
29	Rationally Programmable Paper-Based Artificial Trees Toward Multipath Solar-Driven Water Extraction from Liquid/Solid Substrates. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900004	7.1	18
28	Integration of a patterned conductive carbon nanotube thin film with an insulating hydrophobic polymer carpet into robust 2D Janus hybrid flexible electronics. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9750-9755	7.1	16
27	Atmospheric Hygroscopic Ionogels with Dynamically Stable Cooling Interfaces Enable a Durable Thermoelectric Performance Enhancement. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103937	24	15
26	Multifunctional Cellulose Ester Containing Hindered Phenol Groups with Free-Radical-Scavenging and UV-Resistant Activities. <i>ACS Applied Materials &amp; Discrete Samp; Interfaces</i> , <b>2019</b> , 11, 4302-4310	9.5	15
25	Recent Progress in Superhydrophilic Carbon-Based Composite Membranes for Oil/Water Emulsion Separation. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2021</b> , 13, 36679-36696	9.5	14
24	Asymmetrical Molecular Decoration of Gold Nanorods for Engineering of Shape-Controlled AuNR@Ag Core-Shell Nanostructures. <i>Langmuir</i> , <b>2019</b> , 35, 16900-16906	4	13
23	Single cell migration dynamics mediated by geometric confinement. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 145, 72-78	6	11
22	Reaction-Driven Self-Assembled Micellar Nanoprobes for Ratiometric Fluorescence Detection of CS2 with High Selectivity and Sensitivity. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2016</b> , 8, 20100-9	9.5	10
21	Biomimetic underwater self-perceptive actuating soft system based on highly compliant, morphable and conductive sandwiched thin films. <i>Nano Energy</i> , <b>2021</b> , 81, 105617	17.1	10
20	Controlled evaporative self-assembly of Fe3O4 nanoparticles assisted by an external magnetic field. <i>RSC Advances</i> , <b>2015</b> , 5, 31519-31524	3.7	9
19	Polymerization driven monomer passage through monolayer chemical vapour deposition graphene. <i>Nature Communications</i> , <b>2018</b> , 9, 4051	17.4	9
18	Interfacial self-assembled GR/GO ultrathin membranes on a large scale for molecular sieving. Journal of Materials Chemistry A, <b>2020</b> , 8, 18735-18744	13	8
17	Fabricating a morphology tunable patterned bio-inspired polydopamine film directly via microcontact printing. <i>RSC Advances</i> , <b>2015</b> , 5, 60990-60992	3.7	7
16	Air/Water Interfacial Formation of Clean Tiny AuNPs Anchored Densely on CNT Film for Electrocatalytic Alcohol Oxidation. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1601105	4.6	6

## LIST OF PUBLICATIONS

15	3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1600867	4.6	5
14	Interfacial Fabrication of CNTs/PVDF Bilayer Actuator with Fast Responses to the Light and Organic Solvent Vapor Stimuli. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2000502	3.9	5
13	Breathable and superhydrophobic photothermic fabric enables efficient interface energy management via confined heating strategy for sustainable seawater evaporation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131142	14.7	5
12	Direct supramolecular interacted graphene oxide assembly on graphene as an active and defect-free functional platform. <i>Chemical Communications</i> , <b>2017</b> , 53, 1949-1952	5.8	4
11	Programmable Interface Asymmetric Integration of Carbon Nanotubes and Gold Nanoparticles toward Flexible, Configurable, and Surface-Enhanced Raman Scattering Active All-In-One Solar-Driven Evaporators. <i>Energy Technology</i> , <b>2019</b> , 7, 1900787	3.5	4
10	Air/water interfacial growth of Pt nanothorns anchored in situ on macroscopic freestanding CNT thin film for efficient methanol oxidation. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 6063-6068	3.6	3
9	Tillandsia-Inspired Hygroscopic Photothermal Organogels for Efficient Atmospheric Water Harvesting. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19399-19408	3.6	3
8	Supramolecular fabrication of hyperbranched polyethyleneimine toward nanofiltration membrane for efficient wastewater purification. <i>SusMat</i> , <b>2021</b> , 1, 558		2
7	Bionic Adaptive Thin-Membranes Sensory System Based on Microspring Effect for High-Sensitive Airflow Perception and Noncontact Manipulation. <i>Advanced Functional Materials</i> ,2105323	15.6	2
6	Bioinspired Nanostructured Superwetting Thin-Films in a Self-supported form Enabled "Miniature Umbrella" for Weather Monitoring and Water Rescue <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 32	19.5	2
5	Biomimetic Skins Enable Strain-Perception-Strengthening Soft Morphing. <i>Advanced Functional Materials</i> ,2201812	15.6	2
4	A direct microcontact printing induced supramolecular interaction for creating shape-tunable patterned polymeric surfaces. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8659-8664	7.1	1
3	Constructing oxidized carbon spheres-based heterogeneous membrane with high surface energy for energy-free water purification. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134132	14.7	1
2	Bioinspired Adaptive, Elastic, and Conductive Graphene Structured Thin-Films Achieving High-Efficiency Underwater Detection and Vibration Perception <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 62	19.5	1
1	Thin Films: 2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet (Adv. Funct. Mater. 16/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2479-2479	15.6	