

Gaigai Duan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7335275/gaigai-duan-publications-by-citations.pdf>

Version: 2023-12-07

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.

86
papers

9,239
citations

38
h-index

88
g-index

88
ext. papers

11,098
ext. citations

8.1
avg, IF

6.93
L-index

#	Paper	IF	Citations
86	Electrospinning: a fascinating method for the preparation of ultrathin fibers. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5670-703	16.4	3325
85	Use of electrospinning technique for biomedical applications. <i>Polymer</i> , 2008 , 49, 5603-5621	3.9	1337
84	Functional materials by electrospinning of polymers. <i>Progress in Polymer Science</i> , 2013 , 38, 963-991	29.6	653
83	Progress in the field of electrospinning for tissue engineering applications. <i>Advanced Materials</i> , 2009 , 21, 3343-51	24	395
82	Electrospun nanofiber reinforced composites: a review. <i>Polymer Chemistry</i> , 2018 , 9, 2685-2720	4.9	336
81	Recent progress in carbon-based materials for supercapacitor electrodes: a review. <i>Journal of Materials Science</i> , 2021 , 56, 173-200	4.3	150
80	Ultralight, Thermally Insulating, Compressible Polyimide Fiber Assembled Sponges. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32308-32315	9.5	147
79	Low-Density Open Cellular Sponges as Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15520-15538	16.4	136
78	Ultralight, Soft Polymer Sponges by Self-Assembly of Short Electrospun Fibers in Colloidal Dispersions. <i>Advanced Functional Materials</i> , 2015 , 25, 2850-2856	15.6	134
77	Microstructures and mechanical properties of aligned electrospun carbon nanofibers from binary composites of polyacrylonitrile and polyamic acid. <i>Journal of Materials Science</i> , 2018 , 53, 15096-15106	4.3	107
76	Polyimide Nanofibers by Green Electrospinning via Aqueous Solution for Filtration Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4797-4804	8.3	104
75	Recent Progress on Nanocellulose Aerogels: Preparation, Modification, Composite Fabrication, Applications. <i>Advanced Materials</i> , 2021 , 33, e2005569	24	101
74	Electrospun Functional Materials toward Food Packaging Applications: A Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	94
73	High strength in combination with high toughness in robust and sustainable polymeric materials. <i>Science</i> , 2019 , 366, 1376-1379	33.3	89
72	Nanofibers with diameter below one nanometer from electrospinning.. <i>RSC Advances</i> , 2018 , 8, 4794-4803	7	87
71	Highly flexible and tough concentric triaxial polystyrene fibers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5918-23	9.5	86
70	Tough and transparent nylon-6 electrospun nanofiber reinforced melamine-formaldehyde composites. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2597-603	9.5	81

69	Wood-Inspired Anisotropic Cellulose Nanofibril Composite Sponges for Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35513-35522	9.5	77
68	Temperature-induced molecular orientation and mechanical properties of single electrospun polyimide nanofiber. <i>Materials Letters</i> , 2018 , 216, 81-83	3.3	70
67	Short electrospun polymeric nanofibers reinforced polyimide nanocomposites. <i>Composites Science and Technology</i> , 2013 , 88, 57-61	8.6	69
66	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. <i>Cellulose</i> , 2019 , 26, 6653-6667	5.5	66
65	Air-Blowing-Assisted Coaxial Electrospinning toward High Productivity of Core/Sheath and Hollow Fibers. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800669	3.9	66
64	High-density Fibrous Polyimide Sponges with Superior Mechanical and Thermal Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19006-19014	9.5	66
63	High-performance polyamide-imide films and electrospun aligned nanofibers from an amide-containing diamine. <i>Journal of Materials Science</i> , 2019 , 54, 6719-6727	4.3	60
62	A Mussel-Inspired Polydopamine-Filled Cellulose Aerogel for Solar-Enabled Water Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7617-7624	9.5	60
61	Design and fabrication of conductive polymer hydrogels and their applications in flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23059-23095	13	54
60	Short nylon-6 nanofiber reinforced transparent and high modulus thermoplastic polymeric composites. <i>Composites Science and Technology</i> , 2013 , 87, 164-169	8.6	53
59	Exploration of Macroporous Polymeric Sponges As Drug Carriers. <i>Biomacromolecules</i> , 2017 , 18, 3215-3226	19	50
58	A review of smart electrospun fibers toward textiles. <i>Composites Communications</i> , 2020 , 22, 100506	6.7	50
57	Structural design toward functional materials by electrospinning: A review. <i>E-Polymers</i> , 2020 , 20, 682-712	12.7	48
56	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 015604	9.4	46
55	Boosting solar steam generation by photothermal enhanced polydopamine/wood composites. <i>Polymer</i> , 2021 , 217, 123464	3.9	46
54	Low-Density Self-Assembled Poly(N-Isopropyl Acrylamide) Sponges with Ultrahigh and Extremely Fast Water Uptake and Release. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700838	4.8	44
53	Molecular orientation in aligned electrospun polyimide nanofibers by polarized FT-IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 200, 339-344	4.4	44
52	Synthesis of polyacrylonitrile and mechanical properties of its electrospun nanofibers. <i>E-Polymers</i> , 2018 , 18, 569-573	2.7	42

51	Emergence of melanin-inspired supercapacitors. <i>Nano Today</i> , 2021 , 37, 101075	17.9	41
50	Ultralight open cell polymer sponges with advanced properties by PPX CVD coating. <i>Polymer Chemistry</i> , 2016 , 7, 2759-2764	4.9	39
49	Robust strong electrospun polyimide composite nanofibers from a ternary polyamic acid blend. <i>Composites Communications</i> , 2019 , 15, 92-95	6.7	39
48	Mechanical performance of aligned electrospun polyimide nanofiber belt at high temperature. <i>Materials Letters</i> , 2015 , 140, 12-15	3.3	36
47	Low Density, Thermally Stable, and Intrinsic Flame Retardant Poly(bis(benzimidazo)Benzophenanthroline-dione) Sponge. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700615	3.9	35
46	Highly Efficient Reusable Sponge-Type Catalyst Carriers Based on Short Electrospun Fibers. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600511	4.8	34
45	Electrospun polyimide nonwovens with enhanced mechanical and thermal properties by addition of trace plasticizer. <i>Journal of Materials Science</i> , 2020 , 55, 5667-5679	4.3	34
44	Porous aerogel and sponge composites: Assisted by novel nanomaterials for electromagnetic interference shielding. <i>Nano Today</i> , 2021 , 38, 101204	17.9	33
43	Modification of precursor polymer using co-polymerization: A good way to high performance electrospun carbon nanofiber bundles. <i>Materials Letters</i> , 2014 , 122, 178-181	3.3	29
42	Flexible Polydopamine Bioelectronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2103391	15.6	29
41	Pyrolysis of Enzymolysis-Treated Wood: Hierarchically Assembled Porous Carbon Electrode for Advanced Energy Storage Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2101077	15.6	26
40	Molecular engineering of carbonyl organic electrodes for rechargeable metal-ion batteries: fundamentals, recent advances, and challenges. <i>Energy and Environmental Science</i> ,	35.4	24
39	Investigating the draw ratio and velocity of an electrically charged liquid jet during electrospinning.. <i>RSC Advances</i> , 2019 , 9, 13608-13613	3.7	23
38	Polymer nanofibre composite nonwovens with metal-like electrical conductivity. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	23
37	Thermal, mechanical and thermomechanical properties of tough electrospun poly(imide-co-benzoxazole) nanofiber belts. <i>New Journal of Chemistry</i> , 2015 , 39, 7797-7804	3.6	22
36	Dense and thin coating of gel polymer electrolyte on sulfur cathode toward high performance Li-sulfur battery. <i>Composites Communications</i> , 2020 , 19, 239-245	6.7	22
35	Electrospinning of ABS nanofibers and their high filtration performance. <i>Advanced Fiber Materials</i> , 2020 , 2, 34-43	10.9	19
34	Heat-resistant polybenzoxazole nanofibers made by electrospinning. <i>European Polymer Journal</i> , 2014 , 50, 61-68	5.2	19

33	Mechanical and thermal properties of electrospun polyimide/rGO composite nanofibers via in-situ polymerization and in-situ thermal conversion. <i>European Polymer Journal</i> , 2020 , 141, 110083	5.2	19
32	Facile preparation of CNTs microspheres as improved carbon absorbers for high-efficiency electromagnetic wave absorption. <i>Ceramics International</i> , 2021 , 47, 10013-10018	5.1	19
31	One-step fabrication of eco-friendly superhydrophobic fabrics for high-efficiency oil/water separation and oil spill cleanup.. <i>Nanoscale</i> , 2022 ,	7.7	18
30	Anisotropic cellulose nanofibril composite sponges for electromagnetic interference shielding with low reflection loss. <i>Carbohydrate Polymers</i> , 2022 , 276, 118799	10.3	17
29	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. <i>Angewandte Chemie</i> , 2017 , 129, 3333-3336	3.6	16
28	Antibiofouling Ultrathin Poly(amidoxime) Membrane for Enhanced U(VI) Recovery from Wastewater and Seawater. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21272-21285	9.5	16
27	Rambutan-like Nb2O5@SHCs microspheres for improved microwave absorption performance. <i>Composites Communications</i> , 2021 , 24, 100643	6.7	15
26	Magnetically separable and recyclable Fe3O4@PDA covalent grafted by l-cysteine core-shell nanoparticles toward efficient removal of Pb2+. <i>Vacuum</i> , 2021 , 189, 110229	3.7	15
25	Wood-Derived, Conductivity and Hierarchical Pore Integrated Thick Electrode Enabling High Areal/Volumetric Energy Density for Hybrid Capacitors. <i>Small</i> , 2021 , 17, e2102532	11	15
24	Liquid Transport and Real-Time Dye Purification Lotus Petiole-Inspired Long-Range-Ordered Anisotropic Cellulose Nanofibril Aerogels. <i>ACS Nano</i> , 2021 ,	16.7	15
23	Fatsia Japonica-Derived Hierarchical Porous Carbon for Supercapacitors With High Energy Density and Long Cycle Life. <i>Frontiers in Chemistry</i> , 2020 , 8, 89	5	14
22	Mesostructured Nonwovens with Penguin Downy Feather-Like Morphology Top-Down Combined with Bottom-Up. <i>Advanced Functional Materials</i> , 2019 , 29, 1903166	15.6	13
21	Metal-phenolic network green flame retardants. <i>Polymer</i> , 2021 , 221, 123627	3.9	13
20	Heat and Solvent Resistant Electrospun Polybenzoxazole Nanofibers from Methoxy-Containing Polyaramide. <i>Journal of Nanomaterials</i> , 2010 , 2010, 1-5	3.2	12
19	Fluorescent and Colorimetric Sensors Based on the Oxidation of -Phenylenediamine. <i>ACS Omega</i> , 2020 , 5, 20698-20706	3.9	12
18	Hydrothermal Synthesis of Ce-doped ZnO Heterojunction Supported on Carbon Nanofibers with High Visible Light Photocatalytic Activity. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 565-570	2.2	12
17	Fabrication of Functional Polycatechol Nanoparticles.. <i>ACS Macro Letters</i> , 2022 , 11, 251-256	6.6	10
16	A poly(amidoxime)-modified MOF macroporous membrane for high-efficient uranium extraction from seawater. <i>E-Polymers</i> , 2022 , 22, 399-410	2.7	10

15	Size Regulation of Polydopamine Nanoparticles by Boronic Acid and Lewis Base.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100916	4.8	9
14	Green Nanoparticle Scavengers against Oxidative Stress. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39126-39134	9.5	9
13	β-Cyclodextrin toughened polyimide composites toward all-organic dielectric materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1182-1188	2.1	8
12	Excellent fluoride removal performance by electrospun LaMn bimetal oxide nanofibers. <i>New Journal of Chemistry</i> , 2022 , 46, 490-497	3.6	8
11	Core effect on mechanical properties of one dimensional electrospun core-sheath composite fibers. <i>Composites Communications</i> , 2021 , 25, 100773	6.7	8
10	An Electrospinning Anisotropic Hydrogel with Remotely-Controlled Photo-Responsive Deformation and Long-Range Navigation for Synergist Actuation. <i>Chemical Engineering Journal</i> , 2022 , 433, 134258	14.7	7
9	Synthetic melanin facilitates MnO supercapacitors with high specific capacitance and wide operation potential window. <i>Polymer</i> , 2021 , 235, 124276	3.9	6
8	Adsorption of volatile benzene series compounds by surface-modified glass fibers: kinetics, thermodynamic adsorption efficiencies, and mechanisms. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 30898-30907	5.1	5
7	Lightweight and anisotropic cellulose nanofibril/rectorite composite sponges for efficient dye adsorption and selective separation.. <i>International Journal of Biological Macromolecules</i> , 2022 , 207, 130-139	7.9	5
6	A wood-mimetic porous MXene/gelatin hydrogel for electric field/sunlight bi-enhanced uranium adsorption. <i>E-Polymers</i> , 2022 , 22, 468-477	2.7	3
5	Recent advances in dynamic covalent bond-based shape memory polymers. <i>E-Polymers</i> , 2022 , 22, 285-300.	0.7	2
4	Wood-Derived High-Mass-Loading MnO Composite Carbon Electrode Enabling High Energy Density and High-Rate Supercapacitor.. <i>Small</i> , 2022 , e2201307	11	2
3	Electrospun magnetic La ₂ O ₃ /CeO ₂ /Fe ₃ O ₄ composite nanofibers for removal of fluoride from aqueous solution. <i>Composites Communications</i> , 2022 , 33, 101194	6.7	2
2	Self-Assembly of Poly(Janus particle)s into Unimolecular and Oligomeric Spherical Micelles.. <i>ACS Macro Letters</i> , 2021 , 10, 1563-1569	6.6	1
1	Giving Penetrable Remote-Control Ability to Thermo-responsive Fibrous Composite Actuator with Fast Response Induced by Alternative Magnetic Field.. <i>Nanomaterials</i> , 2021 , 12,	5.4	1