

Yulin Deng

List of Publications by Year in Descending Order

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

66 papers	5,133 citations	40 h-index	66 g-index
66 ext. papers	5,636 ext. citations	7.3 avg, IF	5.88 L-index

#	Paper	IF	Citations
66	Towards sustainable production and utilization of plant-biomass-based nanomaterials: a review and analysis of recent developments. <i>Biotechnology for Biofuels</i> , 2021 , 14, 114	7.8	22
65	Oxidative Catalytic Fractionation and Depolymerization of Lignin in a One-Pot Single-Catalyst System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7719-7727	8.3	5
64	Cellulose- and nanocellulose-based dielectric materials 2021 , 73-100		1
63	Hollow polypyrrole/cellulose hydrogels for high-performance flexible supercapacitors. <i>Energy Storage Materials</i> , 2020 , 31, 135-145	19.4	39
62	High dielectric thin films based on barium titanate and cellulose nanofibrils.. <i>RSC Advances</i> , 2020 , 10, 5758-5765	3.7	9
61	Ambient-pressure and low-temperature upgrading of lignin bio-oil to hydrocarbons using a hydrogen buffer catalytic system. <i>Nature Energy</i> , 2020 , 5, 759-767	62.3	25
60	Facile preparation of high dielectric flexible films based on titanium dioxide and cellulose nanofibrils. <i>Cellulose</i> , 2019 , 26, 6087-6098	5.5	9
59	Low-temperature, Low-Energy, and High-Efficiency Pretreatment Technology for Large Wood Chips with a Redox Couple Catalyst. <i>ChemSusChem</i> , 2018 , 11, 1121-1131	8.3	8
58	Direct Ink Write 3D Printed Cellulose Nanofiber Aerogel Structures with Highly Deformable, Shape Recoverable, and Functionalizable Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2011-2022	8.3	63
57	A Self-Powered Nanophotodetector System with High UV Photocurrent. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6851-6856	6.1	4
56	Cellulose Nanofibril Based-Aerogel Microreactors: A High Efficiency and Easy Recoverable W/O/W Membrane Separation System. <i>Scientific Reports</i> , 2017 , 7, 40096	4.9	31
55	Micro/nano structural engineering of filter paper surface for high selective oil/water separation. <i>Cellulose</i> , 2017 , 24, 2913-2924	5.5	10
54	Nanocellulose-based conductive materials and their emerging applications in energy devices - A review. <i>Nano Energy</i> , 2017 , 35, 299-320	17.1	264
53	Direct Ink Write (DIW) 3D Printed Cellulose Nanocrystal Aerogel Structures. <i>Scientific Reports</i> , 2017 , 7, 8018	4.9	110
52	Underwater superoleophobicity cellulose nanofibril aerogel through regioselective sulfonation for oil/water separation. <i>Chemical Engineering Journal</i> , 2017 , 330, 774-782	14.7	72
51	High wet-strength, thermally stable and transparent TEMPO-oxidized cellulose nanofibril film via cross-linking with poly-amide epichlorohydrin resin. <i>RSC Advances</i> , 2017 , 7, 31567-31573	3.7	45
50	Ultra-lightweight poly (sodium acrylate) modified TEMPO-oxidized cellulose nanofibril aerogel spheres and their superabsorbent properties. <i>Cellulose</i> , 2016 , 23, 3665-3676	5.5	29

49	Fluorine-Free Oil Absorbents Made from Cellulose Nanofibril Aerogels. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2732-40	9.5	143
48	Temperature-sensitive poly-NIPAm modified cellulose nanofibril cryogel microspheres for controlled drug release. <i>Cellulose</i> , 2016 , 23, 415-425	5.5	54
47	Dual Mechanism of Dry Strength Improvement of Cellulose Nanofibril Films by Polyamide-epichlorohydrin Resin Cross-Linking. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11467-11474	3.9	23
46	Freezing-mediated polymerization of Ag nanoparticle-embedded polyaniline belts with polyoxometalate as doping acid exhibiting UV-photosensitivity. <i>RSC Advances</i> , 2016 , 6, 46475-46478	3.7	3
45	Characterization of micro fibrillation process of cellulose and mercerized cellulose pulp. <i>RSC Advances</i> , 2015 , 5, 63111-63122	3.7	28
44	Sol-gel synthesis highly porous titanium dioxide microspheres with cellulose nanofibrils-based aerogel templates. <i>Inorganic Chemistry Communication</i> , 2015 , 51, 71-74	3.1	30
43	Synthesis of Cyclodextrin-Functionalized Cellulose Nanofibril Aerogel as a Highly Effective Adsorbent for Phenol Pollutant Removal. <i>BioResources</i> , 2015 , 10,	1.3	9
42	Uniaxially aligned electrospun all-cellulose nanocomposite nanofibers reinforced with cellulose nanocrystals: scaffold for tissue engineering. <i>Biomacromolecules</i> , 2014 , 15, 618-27	6.9	165
41	High shear homogenization of lignin to nanolignin and thermal stability of nanolignin-polyvinyl alcohol blends. <i>ChemSusChem</i> , 2014 , 7, 3513-20	8.3	148
40	Noble metal catalyzed aqueous phase hydrogenation and hydrodeoxygenation of lignin-derived pyrolysis oil and related model compounds. <i>Bioresource Technology</i> , 2014 , 173, 6-10	11	62
39	Aerogel microspheres from natural cellulose nanofibrils and their application as cell culture scaffold. <i>Biomacromolecules</i> , 2014 , 15, 2540-7	6.9	149
38	Solid-state flexible polyaniline/silver cellulose nanofibrils aerogel supercapacitors. <i>Journal of Power Sources</i> , 2014 , 246, 283-289	8.9	103
37	Solid-state, flexible, high strength paper-based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5835	13	62
36	Lignin Pyrolysis Components and Upgrading Technology Review. <i>Bioenergy Research</i> , 2013 , 6, 1183-1204	3.1	230
35	Synthesis of TiO ₂ -polyaniline core-shell nanofibers and their unique UV photoresponse based on different photoconductive mechanisms in oxygen and non-oxygen environments. <i>Chemical Communications</i> , 2013 , 49, 4676-8	5.8	40
34	Enhancement of photoresponse and UV-assisted gas sensing with Au decorated ZnO nanofibers. <i>Materials Chemistry and Physics</i> , 2012 , 134, 1172-1178	4.4	46
33	Opposite photocurrent response to ultraviolet and visible light. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24522		15
32	A sandwich-structured ultraviolet photodetector driven only by opposite heterojunctions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13899		61

31	Aerogels from crosslinked cellulose nano/micro-fibrils and their fast shape recovery property in water. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11642		175
30	Manganese oxide nanocomposite fabricated by a simple solid-state reaction and its ultraviolet photoresponse property. <i>Chemical Communications</i> , 2011 , 47, 2619-21	5.8	52
29	Janus particles with tunable coverage of zinc oxide nanowires. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2067		26
28	The morphology and mechanical properties of layer structured cellulose microfibril foams from ice-templating methods. <i>Soft Matter</i> , 2011 , 7, 6034	3.6	95
27	Fabrication of polyaniline/titanium dioxide composite nanofibers for gas sensing application. <i>Materials Chemistry and Physics</i> , 2011 , 129, 477-482	4.4	49
26	Evolution of the zinc compound nanostructures in zinc acetate single-source solution. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5193-5202	2.3	40
25	I _V characteristics of the p-n junction between vertically aligned ZnO nanorods and polyaniline thin film. <i>Synthetic Metals</i> , 2010 , 160, 499-503	3.6	53
24	Ultrasensitive NH ₃ Gas Sensor from Polyaniline Nanograin Enchased TiO ₂ Fibers. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9970-9974	3.8	241
23	Solution synthesis of one-dimensional ZnO nanomaterials and their applications. <i>Nanoscale</i> , 2010 , 2, 1573-87	7.7	288
22	UV and visible light controllable depletion zone of ZnO-polyaniline p-n junction and its application in a photoresponsive sensor. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14864-7	3.6	22
21	UV-Light-Activated ZnO Fibers for Organic Gas Sensing at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1293-1298	3.8	115
20	Hierarchical structured ZnO nanorods on ZnO nanofibers and their photoresponse to UV and visible lights. <i>Sensors and Actuators A: Physical</i> , 2010 , 158, 176-182	3.9	93
19	Fabrication of Aligned Polyaniline Nanofiber Array via a Facile Wet Chemical Process. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1027-32	4.8	18
18	Surface modification of cellulose fibers by starch grafting with crosslinkers. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 3019-3026	2.9	27
17	Water resistance improvement of paper by superhydrophobic modification with micro-sized CaCO ₃ and fatty acid coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 351, 65-70 ^{5.1}		113
16	Kinetics Study of ZnO Nanorod Growth in Solution. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19853-19858	5.8	60
15	Density-controlled, solution-based growth of ZnO nanorod arrays via layer-by-layer polymer thin films for enhanced field emission. <i>Nanotechnology</i> , 2008 , 19, 435302	3.4	37
14	Enhanced enzymatic hydrolysis of spruce by alkaline pretreatment at low temperature. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 1320-8	4.9	246

13	Preparation and physical properties of superhydrophobic papers. <i>Journal of Colloid and Interface Science</i> , 2008 , 325, 588-93	9.3	167
12	Giant enhancement in UV response of ZnO nanobelts by polymer surface-functionalization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12096-7	16.4	275
11	Position-Controlled Seedless Growth of ZnO Nanorod Arrays on a Polymer Substrate via Wet Chemical Synthesis. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10162-10165	3.8	96
10	Polymer functionalized piezoelectric-FET as humidity/chemical nanosensors. <i>Applied Physics Letters</i> , 2007 , 90, 262107	3.4	128
9	Nanobelt formation of magnesium hydroxide sulfate hydrate via a soft chemistry process. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13387-92	3.4	28
8	In situ synthesis of temperature-sensitive hollow microspheres via interfacial polymerization. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8274-5	16.4	137
7	Encapsulation of polystyrene latex with temperature-responsive poly(N-isopropylacrylamide) via a self-assembling approach and the adsorption behaviors therein. <i>Langmuir</i> , 2005 , 21, 5812-6	4	44
6	Flocculation and reflocculation of clay suspension by different polymer systems under turbulent conditions. <i>Journal of Colloid and Interface Science</i> , 2004 , 278, 139-45	9.3	101
5	Synthesis of micrometer to nanometer CaCO ₃ particles via mass restriction method in an emulsion liquid membrane process. <i>Journal of Colloid and Interface Science</i> , 2004 , 278, 376-82	9.3	41
4	Flocculation and Retention of Precipitated Calcium Carbonate by Cationic Polymeric Microparticle Flocculants. <i>Journal of Colloid and Interface Science</i> , 1997 , 188, 183-192	9.3	57
3	Preparation and properties of block copolymers with two stat-copoly(oxyethylene/oxypropylene) blocks. <i>European Polymer Journal</i> , 1994 , 30, 103-111	5.2	10
2	Eluent gel permeation chromatography: Application to the association of block copolymer F127 in aqueous solution. <i>European Polymer Journal</i> , 1993 , 29, 665-669	5.2	23
1	Micellisation and gelation of triblock copoly(oxyethylene/oxypropylene/oxyethylene), F127. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 2537		159