

Yunqian Dai

List of Publications by Year in descending order

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61
papers

5,356
citations

236925

25
h-index

110387

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all docs

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docs citations

66
times ranked

7348
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospinning and Electrospun Nanofibers: Methods, Materials, and Applications. <i>Chemical Reviews</i> , 2019, 119, 5298-5415.	47.7	2,814
2	Synthesis of Anatase TiO ₂ Nanocrystals with Exposed {001} Facets. <i>Nano Letters</i> , 2009, 9, 2455-2459.	9.1	380
3	Ceramic nanofibers fabricated by electrospinning and their applications in catalysis, environmental science, and energy technology. <i>Polymers for Advanced Technologies</i> , 2011, 22, 326-338.	3.2	307
4	The physical chemistry and materials science behind sinter-resistant catalysts. <i>Chemical Society Reviews</i> , 2018, 47, 4314-4331.	38.1	236
5	A Sinter-Resistant Catalytic System Based on Platinum Nanoparticles Supported on TiO ₂ Nanofibers and Covered by Porous Silica. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8165-8168.	13.8	125
6	Versatile Graphene Quantum Dots with Tunable Nitrogen Doping. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 597-604.	2.3	124
7	Facile Synthesis of Five-fold Twinned, Starfish-like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chloride-free Precursor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5296-5300.	13.8	97
8	The Life Cycle Assessment for Polylactic Acid (PLA) to Make It a Low-Carbon Material. <i>Polymers</i> , 2021, 13, 1854.	4.5	88
9	Coupling of Hierarchical Al ₂ O ₃ /TiO ₂ Nanofibers into 3D Photothermal Aerogels Toward Simultaneous Water Evaporation and Purification. <i>Advanced Fiber Materials</i> , 2020, 2, 93-104.	16.1	81
10	Graphene-wrapped TiO ₂ nanofibers with effective interfacial coupling as ultrafast electron transfer bridges in novel photoanodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1060-1067.	10.3	75
11	The role of three-dimensional printing in healthcare and medicine. <i>Materials and Design</i> , 2020, 194, 108940.	7.0	73
12	Star-shaped dendritic hosts based on carbazole moieties for highly efficient blue phosphorescent OLEDs. <i>Journal of Materials Chemistry</i> , 2012, 22, 12016.	6.7	56
13	Nanocables composed of anatase nanofibers wrapped in UV-light reduced graphene oxide and their enhancement of photoinduced electron transfer in photoanodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 18174.	6.7	53
14	Porous ceramic nanofibers as new catalysts toward heterogeneous reactions. <i>Composites Communications</i> , 2019, 15, 168-178.	6.3	39
15	Preparation and characterization of Pt/TiO ₂ nanofibers catalysts for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2015, 178, 74-79.	5.2	38
16	Synergistic effects between polyvinylpyrrolidone and oxygen vacancies on improving the oxidase-mimetic activity of flower-like CeO ₂ nanozymes. <i>Nanoscale</i> , 2020, 12, 19104-19111.	5.6	37
17	Non-contact, fibrous cellulose acetate/aluminum flexible electronic-sensor for humidity detecting. <i>Composites Communications</i> , 2020, 20, 100347.	6.3	37
18	Gradient Vertical Channels within Aerogels Based on N-Doped Graphene Meshes toward Efficient and Salt-Resistant Solar Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4955-4965.	6.7	36

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19	Hierarchical nanostructures of K-birnessite nanoplates on anatase nanofibers and their application for decoloration of dye solution. <i>Journal of Materials Chemistry</i> , 2010, 20, 3157.	6.7	35
20	Unusual Hollow Al ₂ O ₃ Nanofibers with Loofah-Like Skins: Intriguing Catalyst Supports for Thermal Stabilization of Pt Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21258-21266.	8.0	35
21	Gradient-aligned Au/graphene meshes with confined heat at multiple levels for solar evaporation and anti-gravity catalytic conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16570-16581.	10.3	32
22	Flexible, graphene-based films with three-dimensional conductive network via simple drop-casting toward electromagnetic interference shielding. <i>Composites Communications</i> , 2021, 24, 100632.	6.3	32
23	A biomass-derived, all-day-round solar evaporation platform for harvesting clean water from microplastic pollution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11013-11024.	10.3	31
24	<i>In situ</i> growth of hierarchical Al ₂ O ₃ nanostructures onto TiO ₂ nanofibers surface: super-hydrophilicity, efficient oil/water separation and dye-removal. <i>Nanotechnology</i> , 2018, 29, 345607.	2.6	30
25	Electronic textiles based on aligned electrospun belt-like cellulose acetate nanofibers and graphene sheets: portable, scalable and eco-friendly strain sensor. <i>Nanotechnology</i> , 2019, 30, 045602.	2.6	29
26	New versatile Pt supports composed of graphene sheets decorated by Fe ₂ O ₃ nanorods and N-dopants with high activity based on improved metal/support interactions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 125-130.	10.3	25
27	A New Insight of the Photothermal Effect on the Highly Efficient Visible-Light-Driven Photocatalytic Performance of Novel-Designed TiO ₂ Rambutan-Like Microspheres Decorated by Au Nanorods. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 140-149.	2.3	25
28	Graphene-Based Modulation on the Growth of Urchin-like Na ₂ Ti ₃ O ₇ Microspheres for Photothermally Enhanced H ₂ Generation from Ammonia Borane. <i>ACS Applied Nano Materials</i> , 2020, 3, 2713-2722.	5.0	22
29	N-doped graphene quantum dots-functionalized titanium dioxide nanofibers and their highly efficient photocurrent response. <i>Journal of Materials Research</i> , 2014, 29, 1408-1416.	2.6	21
30	Surface-Functionalized Electrospun Titania Nanofibers for the Scavenging and Recycling of Precious Metal Ions. <i>ChemSusChem</i> , 2016, 9, 2912-2916.	6.8	21
31	Recent antioxidative nanomaterials toward wound dressing and disease treatment via ROS scavenging. <i>Materials Today Nano</i> , 2022, 17, 100149.	4.6	21
32	Bandgap control of γ -Fe ₂ O ₃ nanozymes and their superior visible light promoted peroxidase-like catalytic activity. <i>Nanotechnology</i> , 2018, 29, 465704.	2.6	19
33	Novel photocatalyst gold nanoparticles with dumbbell-like structure and their superior photocatalytic performance for ammonia borane hydrolysis. <i>Nanotechnology</i> , 2018, 29, 165707.	2.6	16
34	Shape manipulation of porous CeO ₂ nanofibers: facile fabrication, growth mechanism and catalytic elimination of soot particulates. <i>Journal of Materials Science</i> , 2019, 54, 10141-10152.	3.7	15
35	Synthesis of carbazole-based dendrimer: host material for highly efficient solution-processed blue organic electrophosphorescent diodes. <i>Tetrahedron</i> , 2012, 68, 5800-5805.	1.9	13
36	Stabilizing 3 nm-Pt nanoparticles in close proximity on rutile nanorods-decorated-TiO ₂ nanofibers by improving support uniformity for catalytic reactions. <i>Chemical Engineering Journal</i> , 2020, 401, 126013.	12.7	13

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37	Exceptionally thermal-stable Al ₂ O ₃ /TiO ₂ nanofibers by depressing surface-initiated grain growth as new supports for anti-sintering Pt nanoparticles. <i>Materials Today Nano</i> , 2020, 11, 100088.	4.6	13
38	Selective Etching of N-Doped Graphene Meshes as Metal-Free Catalyst with Tunable Kinetics, High Activity and the Origin of New Catalytic Behaviors. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700395.	2.3	12
39	Smart-simulation derived elastic 3D fibrous aerogels with rigid oxide elements and all-in-one multifunctions. <i>Chemical Engineering Journal</i> , 2022, 437, 135444.	12.7	12
40	Synthesis of new bipolar materials based on diphenylphosphine oxide and triphenylamine units: efficient host for deep-blue phosphorescent organic light-emitting diodes. <i>Tetrahedron</i> , 2012, 68, 9672-9678.	1.9	11
41	Visible-light promoted catalytic activity of dumbbell-like Au nanorods supported on graphene/TiO ₂ sheets towards hydrogenation reaction. <i>Nanotechnology</i> , 2018, 29, 245703.	2.6	11
42	A carbazole-based dendritic host material for efficient solution-processed blue phosphorescent OLEDs. <i>Dyes and Pigments</i> , 2013, 97, 286-290.	3.7	10
43	Efficient energy transfer in a new hybrid diphenylfluorene derivative-CdS quantum dot nanocomposite. <i>Nanotechnology</i> , 2013, 24, 435704.	2.6	10
44	Au nano dumbbells catalyzed the cutting of graphene oxide sheets upon plasmon-enhanced reduction. <i>RSC Advances</i> , 2016, 6, 46218-46225.	3.6	10
45	Graphene sheets manipulated the thermal-stability of ultrasmall Pt nanoparticles supported on porous Fe ₂ O ₃ nanocrystals against sintering. <i>RSC Advances</i> , 2017, 7, 16379-16386.	3.6	9
46	Combining in-situ TEM observations and theoretical calculation for revealing the thermal stability of CeO ₂ nanoflowers. <i>Nano Research</i> , 2022, 15, 1319-1326.	10.4	9
47	One stone two birds: a sinter-resistant TiO ₂ nanofiber-based unbroken mat enables PM capture and <i>in situ</i> elimination. <i>Nanoscale</i> , 2021, 13, 20564-20575.	5.6	9
48	A Solid-State Electrochemiluminescence Ethanol Biosensor Based on Electrogenerated Poly(pyrrole-tris(2,2'-bipyridyl)ruthenium(II)) Film/Alcohol Dehydrogenase/Laponite Composite. <i>Electroanalysis</i> , 2013, 25, 697-702.	2.9	7
49	Surface Engineering of Defective Hematite Nanostructures Coupled by Graphene Sheets with Enhanced Photoelectrochemical Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12750-12759.	6.7	6
50	Graphene-based modulation on the hierarchical growth of Al ₂ O ₃ heterojunctions outside TiO ₂ nanofibers via a surfactant-free approach. <i>Composites Communications</i> , 2020, 21, 100394.	6.3	6
51	Constructing fibril-in-tube structures in ultrathin CeO ₂ -based nanofibers as the ideal support for stabilizing Pt nanoparticles. <i>Materials Today Chemistry</i> , 2020, 17, 100333.	3.5	6
52	Graphene oxide encapsulated forsterite scaffolds to improve mechanical properties and antibacterial behavior. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 035011.	3.3	6
53	Stimulus-Responsive Graphene with Periodical Wrinkles on Grooved Microfiber Arrays: Simulation, Programmable Shape-Shifting, and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26561-26572.	8.0	5
54	Oxide Nanofibers as Catalysts Toward Energy Conversion and Environmental Protection. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 366-378.	2.6	5

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55	New host materials based on fluorene and benzimidazole units for efficient solution-processed green phosphorescent OLEDs. <i>Optical Materials</i> , 2013, 35, 2201-2207.	3.6	4
56	Mechanical Failure Mechanism of Silicon-Based Composite Anodes under Overdischarging Conditions Based on Finite Element Analysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34157-34167.	8.0	4
57	Applying low-temperature titration for determination of metallic sites on active oxide supported catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 2008-2018.	4.1	3
58	Self-assembly of defect-rich graphene oxide nanosheets with Na ₂ Ti ₃ O ₇ nanowires and their superior absorptive capacity to toxic dyes. <i>Nanotechnology</i> , 2017, 28, 245601.	2.6	2
59	ErgÄzung: A Sinter-Resistant Catalytic System Based on Platinum Nanoparticles Supported on TiO ₂ Nanofibers and Covered by Porous Silica. <i>Angewandte Chemie</i> , 2012, 124, 10848-10848.	2.0	1
60	Surfactant-free and Microporous AlOOH/Al ₂ O ₃ Nanosheets on TiO ₂ -Based Nanofibers: A Sustained-release Dominated Topotactic Transformation. <i>ChemNanoMat</i> , 2022, 8, .	2.8	1
61	Special techniques and advanced structures. , 2022, , 31-63.		0