

# Dachi Yang

## 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.

55  
papers

927  
citations

19  
h-index

28  
g-index

60  
ext. papers

1,214  
ext. citations

8.2  
avg, IF

4.51  
L-index

#	Paper	IF	Citations
55	MOF-templated synthesis of cobalt-doped zinc oxide superparticles for detection of the 3-hydroxy-2-butanone microbial biomarker. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 358, 131482	8.5	1
54	Pd/Ni nanowire film coated SAW hydrogen sensor with fast response. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 351, 130952	8.5	2
53	Twistable and tailorable V2O5/PANI/GO nanocomposites textile for wearable ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 351, 130944	8.5	3
52	SAW sensor employing Pd/Ni nanowire for super-fast hydrogen detection at room temperature. <i>Results in Chemistry</i> , <b>2022</b> , 4, 100327	2.1	
51	Flexible carbon cloth in-situ assembling WO3 microsheets bunches with Ni dopants for non-enzymatic glucose sensing. <i>Applied Surface Science</i> , <b>2022</b> , 586, 152822	6.7	0
50	Defect Electrocatalysts and Alkaline Electrolyte Membranes in Solid-State Zinc-Air Batteries: Recent Advances, Challenges, and Future Perspectives.. <i>Small Methods</i> , <b>2021</b> , 5, e2000868	12.8	16
49	Highly sensitive and fast-response hydrogen sensing of WO nanoparticles via palladium reined spillover effect. <i>Nanoscale</i> , <b>2021</b> , 13, 12669-12675	7.7	4
48	Highly Sensitive and Selective NiO/WO Composite Nanoparticles in Detecting HS Biomarker of Halitosis. <i>ACS Sensors</i> , <b>2021</b> , 6, 733-741	9.2	22
47	The "screening behavior" of lithium: Boosting HS selectivity of WO nanofibers. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125964	12.8	5
46	Improved sensing performance of WO3 nanoparticles decorated with Ag and Pt nanoparticles. <i>Rare Metals</i> , <b>2021</b> , 40, 1642-1650	5.5	7
45	Uniform palladium-nickel nanowires arrays for stable hydrogen leakage detection and efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2020</b> , 400, 125864	14.7	18
44	Individual gas sensor detecting dual exhaled biomarkers via a temperature modulated n/p semiconducting transition. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 26004-26012	13	4
43	Burrs-shelled SnO2@Al2O3 nanocables for detection of 3-hydroxy-2-butanone biomarkers. <i>Applied Surface Science</i> , <b>2020</b> , 502, 144106	6.7	9
42	Gas Sensor Detecting 3-Hydroxy-2-butanone Biomarkers: Boosted Response via Decorating Pd Nanoparticles onto the {010} Facets of BiVO Decahedrons. <i>ACS Sensors</i> , <b>2020</b> , 5, 2620-2627	9.2	8
41	A Key Glycine in Bacterial Steroid-Degrading Acyl-CoA Dehydrogenases Allows Flavin-Ring Repositioning and Modulates Substrate Side Chain Specificity. <i>Biochemistry</i> , <b>2020</b> , 59, 4081-4092	3.2	2
40	Interconnected Pd Nanoparticles Supported on Zeolite-AFI for Hydrogen Detection under Ultralow Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36847-36853	9.5	10
39	Palladium/Bismuth/Copper Hierarchical Nano-Architectures for Efficient Hydrogen Evolution and Stable Hydrogen Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 6248-6256	9.5	17

38	Synthesis of zinc oxide-alumina nanocables for detection of 3-hydroxy-2-butanone biomarker. <i>Materials Letters</i> , <b>2019</b> , 253, 121-123	3.3	7
37	Electrospun hollow CuO modified V2O5 nano-string of pearls with improved acetone sensitivity. <i>Chemical Physics Letters</i> , <b>2019</b> , 727, 19-24	2.5	6
36	Cone-shaped optical beam induced by nanohole array. <i>Optics Communications</i> , <b>2019</b> , 443, 216-220	2	
35	Development of a Pd/Cu nanowires coated SAW hydrogen gas sensor with fast response and recovery. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 287, 157-164	8.5	31
34	Multichannel pathway-enriched mesoporous NiO nanocuboids for the highly sensitive and selective detection of 3-hydroxy-2-butanone biomarkers. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10456-10463	13	21
33	PEDOT-engineered Bi2O3 nanosheet arrays for flexible asymmetric supercapacitors with boosted energy density. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5530-5538	13	18
32	Polypyrrole encapsulating TiB2 as newly-emerged electrocatalyst for highly boosted hydrogen evolution reaction. <i>Ceramics International</i> , <b>2019</b> , 45, 23298-23303	5.1	9
31	Palladium/Bismuth Nanowires with Rough Surface for Stable Hydrogen Sensing at Low Temperatures. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1178-1184	5.6	12
30	Palladium/cobalt nanowires with improved hydrogen sensing stability at ultra-low temperatures. <i>Nanoscale</i> , <b>2019</b> , 11, 21074-21080	7.7	9
29	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. <i>Nano Energy</i> , <b>2019</b> , 55, 234-259	17.1	41
28	Shape-modulated synthesis of mullite SmMn2O5 nanostructures with fast sensing response to acetone. <i>Ceramics International</i> , <b>2019</b> , 45, 885-891	5.1	10
27	Palladium-Cobalt Nanowires Decorated with Jagged Appearance for Efficient Methanol Electro-oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29965-29971	9.5	30
26	MoS Nanosheet Arrays Rooted on Hollow rGO Spheres as Bifunctional Hydrogen Evolution Catalyst and Supercapacitor Electrode. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 62	19.5	61
25	Cr doped WO3 nanofibers enriched with surface oxygen vacancies for highly sensitive detection of the 3-hydroxy-2-butanone biomarker. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21419-21427	13	47
24	Photochemical Synthesis of Radiate Titanium Oxide Microrods Arrays Supporting Platinum Nanoparticles for Photoassisted Electrooxidation of Methanol. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800748	4.6	6
23	Synthesis of hierarchical platinum-palladium-copper nanodendrites for efficient methanol oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 211, 205-211	21.8	66
22	Crack-tips enriched platinum-copper superlattice nanoflakes as highly efficient anode electrocatalysts for direct methanol fuel cells. <i>Nanoscale</i> , <b>2017</b> , 9, 8918-8924	7.7	33
21	Investigation of high oxygen reduction reaction catalytic performance on Mn-based mullite SmMn2O5. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20922-20931	13	28

20	Surface morphology-controlled fabrication of Na <sub>2</sub> WO <sub>4</sub> films with high structural stability. <i>Chemical Physics Letters</i> , <b>2016</b> , 653, 73-77	2.5	2
19	Characterization of novel acyl coenzyme A dehydrogenases involved in bacterial steroid degradation. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 1360-7	3.5	19
18	Shape-controlled synthesis of palladium and copper superlattice nanowires for high-stability hydrogen sensors. <i>Scientific Reports</i> , <b>2014</b> , 4, 3773	4.9	26
17	Colorimetric sensors: temperature-activated reverse sensing behavior of pd nanowire hydrogen sensors (small 2/2013). <i>Small</i> , <b>2013</b> , 9, 187	11	
16	Wet-chemical approaches to porous nanowires with linear, spiral, and meshy topologies. <i>Nano Letters</i> , <b>2013</b> , 13, 5642-6	11.5	24
15	Temperature-activated reverse sensing behavior of Pd nanowire hydrogen sensors. <i>Small</i> , <b>2013</b> , 9, 188-92	11	27
14	Mechanical characterization of pristine and hydrogen-exposed palladium nanowires by in situ TEM. <i>Nanotechnology</i> , <b>2013</b> , 24, 035701	3.4	10
13	One-pot synthesis of Bi-Ni nanowire and nanocable arrays by coelectrodeposition approach. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 130	5	6
12	Alumina-Sheathed Nanocables with Cores Consisting of Various Structures and Materials. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 2084-2088	3.6	2
11	Alumina-sheathed nanocables with cores consisting of various structures and materials. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2036-40	16.4	9
10	Large-scale fabrication of single crystalline tin nanowire arrays. <i>Nanoscale</i> , <b>2010</b> , 2, 1661-4	7.7	25
9	Synthesis and thermal expansion of copper nanotubes and nanowires with Y- and step-shaped topologies. <i>Small</i> , <b>2010</b> , 6, 381-5	11	8
8	A General Synthetic Approach to Interconnected Nanowire/Nanotube and Nanotube/Nanowire/Nanotube Heterojunctions with Branched Topology. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 7302-7306	3.6	9
7	A general synthetic approach to interconnected nanowire/nanotube and nanotube/nanowire/nanotube heterojunctions with branched topology. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7166-70	16.4	62
6	Characterization of an aldolase-dehydrogenase complex that exhibits substrate channeling in the polychlorinated biphenyls degradation pathway. <i>Biochemistry</i> , <b>2009</b> , 48, 6551-8	3.2	35
5	Size-tunable nano-dots and nano-rings from nanochannel-confined electrodeposition. <i>Chemical Communications</i> , <b>2009</b> , 7110-2	5.8	11
4	Two-segment CdS/Bi nanowire heterojunctions arrays and their electronic transport properties. <i>Materials Letters</i> , <b>2008</b> , 62, 3213-3216	3.3	10
3	Electronic Transport Behavior of Bismuth Nanotubes with a Predesigned Wall Thickness. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 8614-8616	3.8	32

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| 2 | A generic approach to nanocables via nanochannel-confined sequential electrodeposition. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 083109                                   | 3.4 | 7  |
| 1 | Electrochemical synthesis of metal and semimetal nanotube-nanowire heterojunctions and their electronic transport properties. <i>Chemical Communications</i> , <b>2007</b> , 1733-5 | 5.8 | 37 |