

# Yantao Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,834  
citations

331538

21  
h-index

580701

25  
g-index

27  
all docs

27  
docs citations

27  
times ranked

3177  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidant chemistry of graphene-based materials and its role in oxidation protection technology. <i>Nanoscale</i> , 2014, 6, 11744-11755.	2.8	325
2	Field-effect transistor biosensors with two-dimensional black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , 2017, 89, 505-510.	5.3	206
3	Nickel cobalt phosphide with three-dimensional nanostructure as a highly efficient electrocatalyst for hydrogen evolution reaction in both acidic and alkaline electrolytes. <i>Nano Research</i> , 2019, 12, 375-380.	5.8	182
4	Aerosol Synthesis of Cargo-Filled Graphene Nanosacks. <i>Nano Letters</i> , 2012, 12, 1996-2002.	4.5	178
5	Porous structures in stacked, crumpled and pillared graphene-based 3D materials. <i>Carbon</i> , 2014, 66, 476-484.	5.4	113
6	Field-Effect Transistor Biosensor for Rapid Detection of Ebola Antigen. <i>Scientific Reports</i> , 2017, 7, 10974.	1.6	112
7	A review of the electrocatalysts on hydrogen evolution reaction with an emphasis on Fe, Co and Ni-based phosphides. <i>Journal of Materials Science</i> , 2020, 55, 14081-14104.	1.7	80
8	Superior electrocatalysis for hydrogen evolution with crumpled graphene/tungsten disulfide/tungsten trioxide ternary nanohybrids. <i>Nano Energy</i> , 2018, 47, 66-73.	8.2	71
9	Encapsulation of Particle Ensembles in Graphene Nanosacks as a New Route to Multifunctional Materials. <i>ACS Nano</i> , 2013, 7, 3744-3753.	7.3	70
10	Cu <sub>2</sub> S nanorod arrays with coarse surfaces to enhance the electrochemically active surface area for water oxidation. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 308-315.	5.0	61
11	5 nm NiCoP nanoparticles coupled with g-C <sub>3</sub> N <sub>4</sub> as high-performance photocatalyst for hydrogen evolution. <i>Science China Materials</i> , 2020, 63, 258-266.	3.5	60
12	Effective surface roughening of three-dimensional copper foam via sulfurization treatment as a bifunctional electrocatalyst for water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1620-1626.	3.8	37
13	Cu <sub>3</sub> P@Ni core-shell heterostructure with modulated electronic structure for highly efficient hydrogen evolution. <i>Nano Research</i> , 2022, 15, 2935-2942.	5.8	35
14	Size effect on the output of a miniaturized triboelectric nanogenerator based on superimposed electrode layers. <i>Nano Energy</i> , 2017, 41, 128-138.	8.2	34
15	Iron phosphides supported on three-dimensional iron foam as an efficient electrocatalyst for water splitting reactions. <i>Journal of Materials Science</i> , 2019, 54, 14872-14883.	1.7	33
16	Construction of the Ni <sub>2</sub> P/MoP Heterostructure as a High-Performance Cocatalyst for Visible-Light-Driven Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2020, 3, 10910-10919.	2.5	31
17	Cu <sub>3</sub> P@CoO core-shell heterostructure with synergistic effect for highly efficient hydrogen evolution. <i>Nanoscale</i> , 2021, 13, 19430-19437.	2.8	31
18	Ultrasensitive detection of orthophosphate ions with reduced graphene oxide/ferritin field-effect transistor sensors. <i>Environmental Science: Nano</i> , 2017, 4, 856-863.	2.2	28

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19	Facile synthesis of reduced graphene oxide/tungsten disulfide/tungsten oxide nanohybrids for high performance supercapacitor with excellent rate capability. <i>Applied Surface Science</i> , 2019, 463, 150-158.	3.1	26
20	Heterostructure of Mn <sub>3</sub> O <sub>4</sub> nanoparticles on Cu(OH) <sub>2</sub> nanowire arrays for electrocatalytic water oxidation. <i>Journal of Power Sources</i> , 2020, 476, 228731.	4.0	24
21	Effective boron doping in three-dimensional nitrogen-containing carbon foam with mesoporous structure for enhanced all-solid-state supercapacitor performance. <i>Applied Surface Science</i> , 2019, 493, 1205-1214.	3.1	23
22	Crumpled graphene nanoreactors. <i>Nanoscale</i> , 2015, 7, 10267-10278.	2.8	21
23	Heterostructure of ultrafine FeOOH nanodots supported on CoAl-layered double hydroxide nanosheets as highly efficient electrocatalyst for water oxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 594-601.	5.0	20
24	Semi-quantitative design of black phosphorous field-effect transistor sensors for heavy metal ion detection in aqueous media. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 491-502.	1.7	17
25	A Mechanism Investigation of how the Alloying Effect Improves the Photocatalytic Nitrate Reduction Activity of Bismuth Oxyhalide Nanosheets. <i>ChemPhotoChem</i> , 2020, 4, 110-119.	1.5	16
26	Aerosol synthesis and application of folded graphene-based materials. <i>International Journal of Modern Physics B</i> , 2015, 29, 1530003.	1.0	0