

# Peng Fei Yuan

## List of Publications by Year in descending order

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28  
papers

2,672  
citations

331670

21  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulating Fe-spin state by atomically dispersed Mn-N in Fe-N-C catalysts with high oxygen reduction activity. <i>Nature Communications</i> , 2021, 12, 1734.	12.8	488
2	Co <sub>2</sub> CoN Double Active Centers Confined in N-Doped Carbon Nanotube: Heterostructural Engineering for Trifunctional Catalysis toward HER, ORR, OER, and Zn-Air Batteries Driven Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1805641.	14.9	443
3	Carbon Nanosheets Containing Discrete Co-N <sub>x</sub> -B <sub>y</sub> -C Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2018, 12, 1894-1901.	14.6	419
4	Sulfuration of an Fe-N-C Catalyst Containing Fe <sub>x</sub> C/Fe Species to Enhance the Catalysis of Oxygen Reduction in Acidic Media and for Use in Flexible Zn-Air Batteries. <i>Advanced Materials</i> , 2018, 30, e1804504.	21.0	269
5	Boosting defective carbon by anchoring well-defined atomically dispersed metal-N <sub>4</sub> sites for ORR, OER, and Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118198.	20.2	216
6	N,P-coordinated fullerene-like carbon nanostructures with dual active centers toward highly-efficient multi-functional electrocatalysis for CO <sub>2</sub> RR, ORR and Zn-air battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15271-15277.	10.3	99
7	Phosphorus-Driven Electron Delocalization on Edge-Type FeN <sub>4</sub> Active Sites for Oxygen Reduction in Acid Medium. <i>ACS Catalysis</i> , 2021, 11, 12754-12762.	11.2	98
8	Atomic-scaled cobalt encapsulated in P,N-doped carbon sheaths over carbon nanotubes for enhanced oxygen reduction electrocatalysis under acidic and alkaline media. <i>Chemical Communications</i> , 2017, 53, 9862-9865.	4.1	87
9	Boosting Nitrogen Reduction to Ammonia on FeN <sub>4</sub> Sites by Atomic Spin Regulation. <i>Advanced Science</i> , 2021, 8, e2102915.	11.2	64
10	Electronic properties of anatase TiO <sub>2</sub> doped by lanthanides: A DFT+U study. <i>Physica B: Condensed Matter</i> , 2012, 407, 1038-1043.	2.7	61
11	Calcium-decorated graphyne nanotubes as promising hydrogen storage media: A first-principles study. <i>Journal of Solid State Chemistry</i> , 2013, 197, 323-328.	2.9	57
12	Self-supported bifunctional electrocatalysts with Ni nanoparticles encapsulated in vertical N-doped carbon nanotube for efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2021, 413, 127531.	12.7	43
13	Anderson Localization in 2D Amorphous MoO <sub>3</sub> Monolayers for Electrochemical Ammonia Synthesis. <i>ChemCatChem</i> , 2019, 11, 5412-5416.	3.7	37
14	Boron-Tethering and Regulative Electronic States Around Iridium Species for Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	35
15	Au nanoparticle decorated N-containing polymer spheres: additive-free synthesis and remarkable catalytic behavior for reduction of 4-nitrophenol. <i>Journal of Materials Science</i> , 2015, 50, 1323-1332.	3.7	32
16	S-Edge-rich Mo <sub>x</sub> S <sub>y</sub> arrays vertically grown on carbon aerogels as superior bifunctional HER/OER electrocatalysts. <i>Nanoscale</i> , 2019, 11, 20284-20294.	5.6	32
17	Comparative study of friction properties for hydrogen- and fluorine-modified diamond surfaces: A first-principles investigation. <i>Surface Science</i> , 2013, 608, 74-79.	1.9	30
18	First-principles study of tetragonal PbTiO <sub>3</sub> : Phonon and thermal expansion. <i>Materials Research Bulletin</i> , 2014, 49, 509-513.	5.2	28

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19	Li and Ca Co-decorated carbon nitride nanostructures as high-capacity hydrogen storage media. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	26
20	Concave Pt@Zn Nanocubes with High-Index Faceted Pt Skin as Highly Efficient Oxygen Reduction Catalyst. <i>Advanced Science</i> , 2022, 9, e2200147.	11.2	25
21	Metal decorated monolayer BC <sub>2</sub> N for hydrogen storage. <i>Computational Materials Science</i> , 2012, 60, 181-185.	3.0	22
22	Electronic and optical properties of quaternary alloy GaAsBiN lattice-matched to GaAs. <i>Optics Express</i> , 2014, 22, 30633.	3.4	15
23	Probing the active sites of 2D nanosheets with Fe-N-C carbon shell encapsulated Fe <sub>x</sub> C/Fe species for boosting sodium-ion storage performances. <i>Nano Research</i> , 2022, 15, 7154-7162.	10.4	14
24	Atomistic view of thin Ni/Ni <sub>3</sub> Al (0 0 1) under uniaxial tension of twist grain boundaries. <i>RSC Advances</i> , 2014, 4, 4552-4557.	3.6	12
25	Confined Synthesis: From Layered Titanate to Highly Efficient and Durable Mesoporous Cu/TiO <sub>2</sub> Hydrogen Evolution Photocatalysts. <i>ACS Applied Energy Materials</i> , 2021, 4, 4050-4058.	5.1	8
26	Two-Dimensional WO <sub>3</sub> -Transition-Metal Dichalcogenide Vertical Heterostructures for Nitrogen Fixation: A Photo(Electro) Catalysis Theoretical Strategy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3043-3053.	3.1	8
27	Effect of compression on the enhancement of friction and strengthen of double-walled carbon nanotube bundles: A molecular dynamics study. <i>Computational Materials Science</i> , 2012, 63, 244-248.	3.0	3
28	STRUCTURAL AND ELECTRONIC PROPERTIES OF ZINCBLLENDE AlInN ALLOY: A HYBRID DENSITY FUNCTIONAL STUDY. <i>Modern Physics Letters B</i> , 2012, 26, 1250120.	1.9	1