

# Yingcai Fan

## List of Publications by Year in descending order

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24  
papers

1,021  
citations

516215

16  
h-index

580395

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1054  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics study of a covalent organic framework as highly-efficient and biocompatible carriers for doxorubicin delivery: the role of nanopores. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 105402.	1.3	2
2	Photocatalytic hydrogen production and storage in carbon nanotubes: a first-principles study. <i>RSC Advances</i> , 2022, 12, 17029-17035.	1.7	6
3	Photo-assisted high performance single atom electrocatalysis of the N <sub>2</sub> reduction reaction by a Mo-embedded covalent organic framework. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19949-19957.	5.2	27
4	Giant negative Poisson's ratio in two-dimensional V-shaped materials. <i>Nanoscale Advances</i> , 2021, 3, 4554-4560.	2.2	15
5	Direct Z-scheme photocatalytic CO <sub>2</sub> conversion to solar fuels in a two-dimensional C <sub>2</sub> N/aza-CMP heterostructure. <i>Applied Surface Science</i> , 2021, 541, 148630.	3.1	19
6	Highly Efficient Photocatalytic CO <sub>2</sub> Reduction in Two-Dimensional Ferroelectric CuInP <sub>2</sub> S <sub>6</sub> Bilayers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34486-34494.	4.0	39
7	The role of sp-hybridized boron atoms in the highly efficient photocatalytic N <sub>2</sub> reduction activity of boron-doped triphenylene-graphdiyne. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26077-26085.	5.2	12
8	Highly-efficient overall water splitting in 2D Janus group-III chalcogenide multilayers: the roles of intrinsic electric field and vacancy defects. <i>Science Bulletin</i> , 2020, 65, 27-34.	4.3	54
9	Metal-free highly efficient photocatalysts for overall water splitting: C <sub>3</sub> N <sub>5</sub> multilayers. <i>Nanoscale</i> , 2020, 12, 306-315.	2.8	57
10	Tunable valley splitting and anomalous valley Hall effect in VTe <sub>2</sub> /Ga <sub>2</sub> S <sub>3</sub> heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14895-14901.	2.7	16
11	Computational studies on triphenyldiyne as a two-dimensional visible-light-driven photocatalyst for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20061-20068.	1.3	4
12	Synergistic trifunctional electrocatalysis of pyridinic nitrogen and single transition-metal atoms anchored on pyrazine-modified graphdiyne. <i>Science Bulletin</i> , 2020, 65, 995-1002.	4.3	34
13	Bifunctional HER/OER or OER/ORR Catalytic Activity of Two-Dimensional TM <sub>3</sub> (HITP) <sub>2</sub> with TM = Fe/Zn. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9350-9359.	1.5	67
14	Spontaneous full photocatalytic water splitting on 2D MoSe <sub>2</sub> /SnSe <sub>2</sub> and WSe <sub>2</sub> /SnSe <sub>2</sub> vdW heterostructures. <i>Nanoscale</i> , 2019, 11, 14836-14843.	2.8	156
15	Bifunctional Electrocatalytic Activity of Bis(iminothiolato)nickel Monolayer for Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25651-25656.	1.5	17
16	Progress of organic magnetic materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	16
17	Li-III-VI bilayers for efficient photocatalytic overall water splitting: the role of intrinsic electric field. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26123-26130.	5.2	40
18	Silicene and germanene on InSe substrates: structures and tunable electronic properties. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11369-11377.	1.3	44

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19	Theoretical Design of an InSe/GaTe vdW Heterobilayer: A Potential Visible-Light Photocatalyst for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27803-27810.	1.5	55
20	Direct Z-scheme photocatalytic overall water splitting on 2D CdS/InSe heterostructures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 395501.	1.3	51
21	Tunable electronic structures of graphene/boron nitride heterobilayers. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	211
22	Manifold electronic structure transition of BNC biribbons. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	30
23	Natural charge spatial separation and quantum confinement of ZnO/GaN-core/shell nanowires. <i>Journal of Applied Physics</i> , 2010, 108, 123707.	1.1	12
24	Electronic properties of BN/C nanotube heterostructures. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	34