

# 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	Tunable electronic structures of graphene/boron nitride heterobilayers. Applied Physics Letters, 2011, 98, .	1.5	211
2	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. Nanoscale, 2019, 11, 14836-14843.	2.8	156
3	Bifunctional HER/OER or OER/ORR Catalytic Activity of Two-Dimensional TM <sub>3</sub> (HITP) <sub>2</sub> with TM = Fe/Zn. Journal of Physical Chemistry C, 2020, 124, 9350-9359.	1.5	67
4	Metal-free highly efficient photocatalysts for overall water splitting: C <sub>3</sub> N <sub>5</sub> multilayers. Nanoscale, 2020, 12, 306-315.	2.8	57
5	Theoretical Design of an InSe/GaTe vdW Heterobilayer: A Potential Visible-Light Photocatalyst for Water Splitting. Journal of Physical Chemistry C, 2018, 122, 27803-27810.	1.5	55
6	Highly-efficient overall water splitting in 2D Janus group-III chalcogenide multilayers: the roles of intrinsic electric field and vacancy defects. Science Bulletin, 2020, 65, 27-34.	4.3	54
7	Direct Z-scheme photocatalytic overall water splitting on 2D CdS/InSe heterostructures. Journal Physics D: Applied Physics, 2018, 51, 395501.	1.3	51
8	Silicene and germanene on InSe substrates: structures and tunable electronic properties. Physical Chemistry Chemical Physics, 2018, 20, 11369-11377.	1.3	44
9	Li-III-VI bilayers for efficient photocatalytic overall water splitting: the role of intrinsic electric field. Journal of Materials Chemistry A, 2019, 7, 26123-26130.	5.2	40
10	Highly Efficient Photocatalytic CO <sub>2</sub> Reduction in Two-Dimensional Ferroelectric CuInP <sub>2</sub> S <sub>6</sub> Bilayers. ACS Applied Materials & Interfaces, 2021, 13, 34486-34494.	4.0	39
11	Electronic properties of BN/C nanotube heterostructures. Journal of Applied Physics, 2010, 107, .	1.1	34
12	Synergistic trifunctional electrocatalysis of pyridinic nitrogen and single transition-metal atoms anchored on pyrazine-modified graphdiyne. Science Bulletin, 2020, 65, 995-1002.	4.3	34
13	Manifold electronic structure transition of BNC biribbons. Journal of Applied Physics, 2011, 110, .	1.1	30
14	Photo-assisted high performance single atom electrocatalysis of the N <sub>2</sub> reduction reaction by a Mo-embedded covalent organic framework. Journal of Materials Chemistry A, 2021, 9, 19949-19957.	5.2	27
15	Direct Z-scheme photocatalytic CO <sub>2</sub> conversion to solar fuels in a two-dimensional C <sub>2</sub> N/aza-CMP heterostructure. Applied Surface Science, 2021, 541, 148630.	3.1	19
16	Bifunctional Electrocatalytic Activity of Bis(iminothiolato)nickel Monolayer for Overall Water Splitting. Journal of Physical Chemistry C, 2019, 123, 25651-25656.	1.5	17
17	Progress of organic magnetic materials. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	16
18	Tunable valley splitting and anomalous valley Hall effect in VTe <sub>2</sub> /Ga <sub>2</sub> S <sub>3</sub> heterostructures. Journal of Materials Chemistry C, 2020, 8, 14895-14901.	2.7	16

#	ARTICLE	IF	CITATIONS
19	Giant negative Poisson's ratio in two-dimensional V-shaped materials. <i>Nanoscale Advances</i> , 2021, 3, 4554-4560.	2.2	15
20	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
21	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
22	Photocatalytic hydrogen production and storage in carbon nanotubes: a first-principles study. <i>RSC Advances</i> , 2022, 12, 17029-17035.	1.7	6
23	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
24	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