

# Fengxian

## List of Publications by Year in descending order

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17  
papers

1,150  
citations

687363

13  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

2347  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer $\text{RhB}_4$ : Half-auxeticity and almost ideal spin-orbit Dirac point semimetal. <i>Physical Review B</i> , 2021, 104, .		
2	Versatile two-dimensional stanene-based membrane for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5577-5583.	7.1	13
3	Graphene-like Two-Dimensional Ionic Boron with Double Dirac Cones at Ambient Condition. <i>Nano Letters</i> , 2016, 16, 3022-3028.	9.1	222
4	Substantial Band-Gap Tuning and a Strain-Controlled Semiconductor to Gapless/Band-Inverted Semimetal Transition in Rutile Lead/Stannic Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25667-25673.	8.0	18
5	Predicting Single-Layer Technetium Dichalcogenides ( $\text{TcX}_2$ , X = S, Se) with Promising Applications in Photovoltaics and Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5385-5392.	8.0	100
6	Predicting a new phase ( $\text{Tâ}^2$ ) of two-dimensional transition metal di-chalcogenides and strain-controlled topological phase transition. <i>Nanoscale</i> , 2016, 8, 4969-4975.	5.6	50
7	Calculations of helium separation via uniform pores of stanene-based membranes. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2470-2476.	2.8	9
8	Charge Mediated Semiconducting-to-Metallic Phase Transition in Molybdenum Disulfide Monolayer and Hydrogen Evolution Reaction in New $1\text{Tâ}^2$ Phase. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13124-13128.	3.1	295
9	Modelling CO <sub>2</sub> adsorption and separation on experimentally-realized B <sub>40</sub> fullerene. <i>Computational Materials Science</i> , 2015, 108, 38-41.	3.0	40
10	Versatile Single-Layer Sodium Phosphidostannate(II): Strain-Tunable Electronic Structure, Excellent Mechanical Flexibility, and an Ideal Gap for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2682-2687.	4.6	60
11	Graphene-covered perovskites: an effective strategy to enhance light absorption and resist moisture degradation. <i>RSC Advances</i> , 2015, 5, 82346-82350.	3.6	43
12	Metal-free graphitic carbon nitride as mechano-catalyst for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2015, 332, 149-155.	6.2	127
13	Carbon nanodot decorated graphitic carbon nitride: new insights into the enhanced photocatalytic water splitting from ab initio studies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31140-31144.	2.8	105
14	A New Carbon Phase Constructed by Long-Range Ordered Carbon Clusters from Compressing $\text{C}_{70}$ Solvates. <i>Advanced Materials</i> , 2014, 26, 7257-7263.	21.0	29
15	Structural transformation of confined iodine in the elliptical channels of $\text{AlPO}_4$ -11 crystals under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8301.	2.8	14
16	Reversible pressure-induced polymerization of $\text{Fe}(\text{C}_5\text{H}_5)_2$ doped $\text{C}_{70}$ . <i>Carbon</i> , 2013, 62, 447-454.	10.3	13
17	The structure and dynamics analysis of one-dimension confined $\text{C}_{3v}$ symmetrical $\text{C}_{60}\text{H}_{18}$ molecules in single-wall carbon nanotube. <i>CrystEngComm</i> , 2013, 15, 7723.	2.6	5