

# Wei Fang

## List of Publications by Year in descending order

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24  
papers

1,072  
citations

623699

14  
h-index

610883

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1350  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunnelling assisted hydrogen elimination mechanisms of FeCl <sub>3</sub> /TEMPO. <i>Chemical Communications</i> , 2022, 58, 565-568.	4.1	5
2	Determination of concerted or stepwise mechanism of hydrogen tunneling from isotope effects: Departure between experiment and theory. <i>Journal of Chemical Physics</i> , 2022, 156, 124304.	3.0	4
3	Quantum Tunnelling Driven H <sub>2</sub> Formation on Graphene. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3173-3181.	4.6	10
4	Molecular-Level Insights on Reactive Arrangement in On-Surface Photocatalytic Coupling Reactions Using Tip-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 538-546.	13.7	29
5	Rapid Water Diffusion at Cryogenic Temperatures through an Inchworm-like Mechanism. <i>Nano Letters</i> , 2022, 22, 340-346.	9.1	5
6	Strong non-Arrhenius behavior at low temperatures in the OH + HCl → H <sub>2</sub> O + Cl reaction due to resonance induced quantum tunneling. <i>Chemical Science</i> , 2022, 13, 7955-7961.	7.4	2
7	Ultrafast charge transfer coupled to quantum proton motion at molecule/metal oxide interface. <i>Science Advances</i> , 2022, 8, .	10.3	21
8	Microcanonical Tunneling Rates from Density-of-States Instanton Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 40-55.	5.3	10
9	Enhancing Volatile Fatty Acid Production during Anaerobic Fermentation of Waste Activated Sludge with Persulfates: Peroxymonosulfate versus Peroxydisulfate. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10073-10082.	6.7	34
10	Enhanced nitrogen removal upon the addition of volatile fatty acids from activated sludge by combining calcium peroxide and low-thermal pretreatments. <i>Journal of Environmental Sciences</i> , 2021, 108, 145-151.	6.1	6
11	Overview of key operation factors and strategies for improving fermentative volatile fatty acid production and product regulation from sewage sludge. <i>Journal of Environmental Sciences</i> , 2020, 87, 93-111.	6.1	139
12	The color center singlet state of oxygen vacancies in TiO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2020, 153, 204704.	3.0	13
13	Nanometre-scale spectroscopic visualization of catalytic sites during a hydrogenation reaction on a Pd/Au bimetallic catalyst. <i>Nature Catalysis</i> , 2020, 3, 834-842.	34.4	84
14	Origins of fast diffusion of water dimers on surfaces. <i>Nature Communications</i> , 2020, 11, 1689.	12.8	39
15	Revisiting nuclear tunnelling in the aqueous ferrous→ferric electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10687-10698.	2.8	7
16	Enhancement of fermentative volatile fatty acids production from waste activated sludge by combining sodium dodecylbenzene sulfonate and low-thermal pretreatment. <i>Bioresource Technology</i> , 2020, 308, 123291.	9.6	28
17	The quantum nature of hydrogen. <i>International Reviews in Physical Chemistry</i> , 2019, 38, 35-61.	2.3	18
18	Anomalously Low Barrier for Water Dimer Diffusion on Cu(111). <i>Nano Letters</i> , 2019, 19, 3049-3056.	9.1	20

#	ARTICLE	IF	CITATIONS
19	Nonadiabatic quantum transition-state theory in the golden-rule limit. I. Theory and application to model systems. <i>Journal of Chemical Physics</i> , 2019, 150, 104107.	3.0	15
20	Nonadiabatic quantum transition-state theory in the golden-rule limit. II. Overcoming the pitfalls of the saddle-point and semiclassical approximations. <i>Journal of Chemical Physics</i> , 2019, 151, 214101.	3.0	9
21	Simultaneous Deep Tunneling and Classical Hopping for Hydrogen Diffusion on Metals. <i>Physical Review Letters</i> , 2017, 119, 126001.	7.8	46
22	Inverse Temperature Dependence of Nuclear Quantum Effects in DNA Base Pairs. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2125-2131.	4.6	46
23	Nuclear Quantum Effects in Water and Aqueous Systems: Experiment, Theory, and Current Challenges. <i>Chemical Reviews</i> , 2016, 116, 7529-7550.	47.7	439
24	Stability of Complex Biomolecular Structures: van der Waals, Hydrogen Bond Cooperativity, and Nuclear Quantum Effects. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4233-4238.	4.6	43