

# Yubo Qi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1542765/publications.pdf>

Version: 2024-02-01

25  
papers

974  
citations

567281

15  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1550  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power conversion efficiency exceeding the Shockley–Queisser limit in a ferroelectric insulator. Nature Photonics, 2016, 10, 611-616.	31.4	335
2	Kinetically stabilized ferroelectricity in bulk single-crystalline HfO <sub>2</sub> :Y. Nature Materials, 2021, 20, 826-832.	27.5	114
3	Ultrafast terahertz-field-driven ionic response in ferroelectric BaTiO <sub>3</sub> . Physical Review B, 2016, 94, .	3.2	78
4	Large polarization gradients and temperature-stable responses in compositionally-graded ferroelectrics. Nature Communications, 2017, 8, 14961.	12.8	60
5	Atomistic description for temperature-driven phase transitions in BaTiO <sub>3</sub> . Physical Review B, 2016, 94, .	3.2	52
6	Stabilization of Competing Ferroelectric Phases of HfO <sub>2</sub> Epitaxial Strain. Physical Review Letters, 2020, 125, 257603.	7.8	46
7	Widespread Negative Longitudinal Piezoelectric Responses in Ferroelectric Crystals with Layered Structures. Physical Review Letters, 2021, 126, 217601.	7.8	42
8	Origin and structure of polar domains in doped molecular crystals. Nature Communications, 2016, 7, 13351.	12.8	36
9	Epitaxial Strain Control of Relaxor Ferroelectric Phase Evolution. Advanced Materials, 2019, 31, e1901060.	21.0	29
10	Phase competition in HfO <sub>2</sub> with applied electric field from first principles. Physical Review B, 2020, 102, .	3.2	25
11	Vibrational fingerprints of ferroelectric HfO <sub>2</sub> . Npj Quantum Materials, 2022, 7, .	5.2	24
12	Theoretical Modeling of Tribochemical Reaction on Pt and Au Contacts: Mechanical Load and Catalysis. ACS Applied Materials & Interfaces, 2016, 8, 7529-7535.	8.0	23
13	Ultrafast Electric Field Pulse Control of Giant Temperature Change in Ferroelectrics. Physical Review Letters, 2018, 120, 055901.	7.8	21
14	Sr-induced dipole scatter in BaTiO <sub>3</sub> : Insights from a transferable-bond valence-based interatomic potential. Physical Review B, 2019, 100, .	3.2	18
15	Designing Ferroelectric Field-Effect Transistors Based on the Polarization-Rotation Effect for Low Operating Voltage and Fast Switching. Physical Review Applied, 2015, 4, .	3.8	15
16	Mechanism of Benzene Tribopolymerization on the RuO <sub>2</sub> (110) Surface. Physical Review Applied, 2018, 9, .	3.8	7
17	Valence Band Control of Metal Silicide Films via Stoichiometry. Journal of Physical Chemistry Letters, 2016, 7, 2573-2578.	4.6	6
18	Mechanochemical Effects of Adsorbates at Nanoelectromechanical Switch Contacts. ACS Applied Materials & Interfaces, 2019, 11, 39238-39247.	8.0	6

#	ARTICLE	IF	CITATIONS
19	Strain-mediated magneto-electric interactions in hexagonal ferrite and ferroelectric coaxial nanofibers. MRS Communications, 2020, 10, 230-241.	1.8	6
20	Novel materials solutions and simulations for nanoelectromechanical switches. , 2015, , .		5
21	Adsorption of Benzene on the RuO <sub>2</sub> (110) Surface. Journal of Physical Chemistry C, 2017, 121, 1585-1590.	3.1	5
22	Modified Schottky emission to explain thickness dependence and slow depolarization in $\text{BaTiO}_3$ ferroelectric alloy. Physical Review B, 2015, 91, .	3.2	13
23	Developing a force field for the $\text{BaTiO}_3$ ferroelectric alloy: Prediction of a ferroelectric superlattice structure. Physical Review B, 2022, 105, .	3.2	1
24	Reply to 'Reconsidering the Shockley-Queisser limit of a ferroelectric insulator device'. Nature Photonics, 2017, 11, 330-330.	31.4	2
25	Reply to 'Comment on 'Ultrafast terahertz-field-driven ionic response in ferroelectric $\text{BaTiO}_3$ ''. Physical Review B, 2018, 97, .		