

# Qiyang Lu

## List of Publications by Year in descending order

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22  
papers

1,395  
citations

516710

16  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved chemical and electrochemical stability of perovskite oxides with less reducible cations at the surface. <i>Nature Materials</i> , 2016, 15, 1010-1016.	27.5	312
2	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2017, 10, 964-971.	30.8	204
3	Structure, Chemistry, and Charge Transfer Resistance of the Interface between $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12}$ Electrolyte and $\text{LiCoO}_2$ Cathode. <i>Chemistry of Materials</i> , 2018, 30, 6259-6276.	6.7	125
4	Voltage-Controlled Topotactic Phase Transition in Thin-Film $\text{SrCoO}_x$ Monitored by In Situ X-ray Diffraction. <i>Nano Letters</i> , 2016, 16, 1186-1193.	9.1	116
5	Tuning electrochemically driven surface transformation in atomically flat $\text{LaNiO}_3$ thin films for enhanced water electrolysis. <i>Nature Materials</i> , 2021, 20, 674-682.	27.5	105
6	Resistive Switching Mechanisms on $\text{TaO}_x$ and $\text{SrRuO}_3$ Thin-Film Surfaces Probed by Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2016, 10, 1481-1492.	14.6	100
7	Bi-directional tuning of thermal transport in $\text{SrCoO}_x$ with electrochemically induced phase transitions. <i>Nature Materials</i> , 2020, 19, 655-662.	27.5	88
8	Electrochemically Triggered Metal-Insulator Transition between $\text{VO}_2$ and $\text{V}_2\text{O}_5$ . <i>Advanced Functional Materials</i> , 2018, 28, 1803024.	14.9	46
9	Electronic Structure Evolution of $\text{SrCoO}_x$ during Electrochemically Driven Phase Transition Probed by In Situ X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24148-24157.	3.1	40
10	Colossal oxygen vacancy formation at a fluorite-bixbyite interface. <i>Nature Communications</i> , 2020, 11, 1371.	12.8	39
11	Growth of metallic delafossite $\text{PdCoO}_2$ by molecular beam epitaxy. <i>Physical Review Materials</i> , 2019, 3, .	2.4	35
12	Improved electrochemical stability at the surface of $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3$ achieved by surface chemical modification. <i>Faraday Discussions</i> , 2015, 182, 257-269.	3.2	29
13	Surface Defect Chemistry and Electronic Structure of $\text{Pr}_{0.1}\text{Ce}_{0.9}\text{O}_2$ Revealed in Operando. <i>Chemistry of Materials</i> , 2018, 30, 2600-2606.	6.7	24
14	Pulsed-laser epitaxy of topological insulator $\text{Bi}_2\text{Te}_3$ thin films. <i>APL Materials</i> , 2019, 7, .	5.1	24
15	Metal-Insulator transition tuned by oxygen vacancy migration across $\text{TiO}_2/\text{VO}_2$ interface. <i>Scientific Reports</i> , 2020, 10, 18554.	3.3	24
16	Threshold catalytic onset of carbon formation on $\text{CeO}_2$ during $\text{CO}_2$ electrolysis: mechanism and inhibition. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15233-15243.	10.3	19
17	Interface Engineering of Metal-Oxide Field-Effect Transistors for Low-Drift pH Sensing. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100314.	3.7	13
18	Pushing the detection of cation nonstoichiometry to the limit. <i>Physical Review Materials</i> , 2019, 3, .	2.4	13

#	ARTICLE	IF	CITATIONS
19	Charge Transfer Across Oxide Interfaces Probed by in Situ X-ray Photoelectron and Absorption Spectroscopy Techniques. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4841-4848.	3.1	11
20	Carbonate formation lowers the electrocatalytic activity of perovskite oxides for water electrolysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19940-19948.	10.3	11
21	Reversible Hydrogen-Induced Phase Transformations in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Films Characterized by In Situ Neutron Reflectometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 10898-10906.	8.0	10
22	Layer-resolved many-electron interactions in delafossite $\text{PdCoO}_2$ from standing-wave photoemission spectroscopy. <i>Communications Physics</i> , 2021, 4, .	5.3	7