

# Koffi Pierre Claver Yao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

16  
papers

1,388  
citations

13  
h-index

22  
g-index

22  
ext. papers

1,575  
ext. citations

11.8  
avg, IF

4.4  
L-index

#	Paper	IF	Citations
16	On the Optimization of Core-Shell Hybrid Cathode Materials for Extreme Fast-Charging: First Principles Computational Insights. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 020503	3.9	1
15	Quantifying lithium concentration gradients in the graphite electrode of Li-ion cells using operando energy dispersive X-ray diffraction. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 656-665	35.4	79
14	Operando Quantification of (De)Lithiation Behavior of Silicon/Graphite Blended Electrodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803380	21.8	69
13	Lithium Acetylide: A Spectroscopic Marker for Lithium Deposition During Fast Charging of Li-Ion Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 873-881	6.1	20
12	Exploring Li distribution in Li-ion batteries with FIB-SEM and TOF-SIMS. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 370-371	0.5	1
11	Resolving the Discrepancy in Tortuosity Factor Estimation for Li-Ion Battery Electrodes through Micro-Macro Modeling and Experiment. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3403-A3426	3.9	85
10	Utilization of Cobalt Bis(terpyridine) Metal Complex as Soluble Redox Mediator in LiO <sub>2</sub> Batteries. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 16290-16297	3.8	47
9	Revealing instability and irreversibility in nonaqueous sodium-O <sub>2</sub> battery chemistry. <i>Chemical Communications</i> , <b>2016</b> , 52, 9691-4	5.8	45
8	Activity and stability of cobalt phosphides for hydrogen evolution upon water splitting. <i>Nano Energy</i> , <b>2016</b> , 29, 37-45	17.1	130
7	Rate-Dependent Nucleation and Growth of NaO <sub>2</sub> in Na-O <sub>2</sub> Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2636-43	6.4	98
6	Solid-state activation of Li <sub>2</sub> O <sub>2</sub> oxidation kinetics and implications for LiO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2417-2426	35.4	60
5	Raman Spectroscopy in Lithium/Oxygen Battery Systems. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1446-1457	4.3	89
4	The influence of transition metal oxides on the kinetics of Li <sub>2</sub> O <sub>2</sub> oxidation in Li-O <sub>2</sub> batteries: high activity of chromium oxides. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2297-304	3.6	47
3	Thermal Stability of Li <sub>2</sub> O <sub>2</sub> and Li <sub>2</sub> O for Li-Air Batteries: In Situ XRD and XPS Studies. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A824-A831	3.9	235
2	The discharge rate capability of rechargeable LiO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2999	35.4	375
1	Estimating the Diffusion Coefficient of Lithium in Graphite: Extremely Fast Charging and a Comparison of Data Analysis Techniques. <i>Journal of the Electrochemical Society</i> ,	3.9	5