Koffi Pierre Claver Yao

List of Publications by Citations

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	The discharge rate capability of rechargeable Li□O2 batteries. *Energy and Environmental Science*, **2011**, 4, 2999	35.4	375
15	Thermal Stability of Li2O2and Li2O for Li-Air Batteries: In Situ XRD and XPS Studies. *Journal of the Electrochemical Society*, **2013**, 160, A824-A831	3.9	235
14	Activity and stability of cobalt phosphides for hydrogen evolution upon water splitting. *Nano Energy*, **2016**, 29, 37-45	17.1	130
13	Rate-Dependent Nucleation and Growth of NaO2 in Na-O2 Batteries. *Journal of Physical Chemistry Letters*, **2015**, 6, 2636-43	6.4	98
12	Raman Spectroscopy in Lithium□Oxygen Battery Systems. *ChemElectroChem*, **2015**, 2, 1446-1457	4.3	89
11	Resolving the Discrepancy in Tortuosity Factor Estimation for Li-Ion Battery Electrodes through Micro-Macro Modeling and Experiment. *Journal of the Electrochemical Society*, **2018**, 165, A3403-A3426	3.9	85
10	Quantifying lithium concentration gradients in the graphite electrode of Li-ion cells using operando energy dispersive X-ray diffraction. *Energy and Environmental Science*, **2019**, 12, 656-665	35.4	79
9	Operando Quantification of (De)Lithiation Behavior of Silicon□Graphite Blended Electrodes for Lithium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803380	21.8	69
8	Solid-state activation of Li2O2 oxidation kinetics and implications for Li□O2 batteries. *Energy and Environmental Science*, **2015**, 8, 2417-2426	35.4	60
7	Utilization of Cobalt Bis(terpyridine) Metal Complex as Soluble Redox Mediator in Li□O2 Batteries. *Journal of Physical Chemistry C*, **2016**, 120, 16290-16297	3.8	47
6	The influence of transition metal oxides on the kinetics of Li2O2 oxidation in Li-O2 batteries: high activity of chromium oxides. *Physical Chemistry Chemical Physics*, **2014**, 16, 2297-304	3.6	47
5	Revealing instability and irreversibility in nonaqueous sodium-O2 battery chemistry. *Chemical Communications*, **2016**, 52, 9691-4	5.8	45
4	Lithium Acetylide: A Spectroscopic Marker for Lithium Deposition During Fast Charging of Li-Ion Cells. *ACS Applied Energy Materials*, **2019**, 2, 873-881	6.1	20
3	Estimating the Diffusion Coefficient of Lithium in Graphite: Extremely Fast Charging and a Comparison of Data Analysis Techniques. *Journal of the Electrochemical Society*,	3.9	5
2	Exploring Li distribution in Li-ion batteries with FIB-SEM and TOF-SIMS. *Microscopy and Microanalysis*, **2018**, 24, 370-371	0.5	1
1	On the Optimization of Core-Shell Hybrid Cathode Materials for Extreme Fast-Charging: First Principles Computational Insights. *Journal of the Electrochemical Society*, **2021**, 168, 020503	3.9	1