

# Yingqian Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

404  
citations

758635

12  
h-index

887659

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

579  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Selective and Scalable Fullerene-Cation-Mediated Synthesis Accessing Cyclo[60]fullerenes with Five-Membered Carbon Ring and Their Application to Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 8432-8439.	3.2	44
2	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2000489.	7.8	43
3	Charge and Discharge Processes and Sodium Storage in Disodium Pyridine-2,5-Dicarboxylate Anode—Insights from Experiments and Theory. <i>Advanced Energy Materials</i> , 2018, 8, 1701572.	10.2	40
4	Lithium and sodium storage on tetracyanoethylene (TCNE) and TCNE-(doped)-graphene complexes: A computational study. <i>Materials Chemistry and Physics</i> , 2015, 156, 180-187.	2.0	34
5	Voltage and capacity control of polyaniline based organic cathodes: An ab initio study. <i>Journal of Power Sources</i> , 2016, 336, 126-131.	4.0	33
6	A computational study of lithium interaction with tetracyanoethylene (TCNE) and tetracyanoquinodimethane (TCNQ) molecules. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1470-1477.	1.3	32
7	Doping of active electrode materials for electrochemical batteries: an electronic structure perspective. <i>MRS Communications</i> , 2017, 7, 523-540.	0.8	27
8	Polyaniline and CN-functionalized polyaniline as organic cathodes for lithium and sodium ion batteries: a combined molecular dynamics and density functional tight binding study in solid state. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 232-237.	1.3	27
9	Revisiting $\pi$ -backbonding: the influence of d orbitals on metal-CO bonds and ligand red shifts. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20814-20821.	1.3	26
10	Na-rich layered $\text{Na}_2\text{Ti}_{1-x}\text{Cr}_x\text{O}_3$ ( $x=0, 0.06$ ): Na-ion battery cathode materials with high capacity and long cycle life. <i>Scientific Reports</i> , 2017, 7, 373.	1.6	25
11	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1609-1618.	2.0	21
12	Experimental and Theoretical Studies of Trisodium-1,3,5-Benzene Tricarboxylate as a Low-Voltage Anode Material for Sodium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1801030.	1.8	13
13	Orbital order switching in molecular calculations using GGA functionals: Qualitative errors in materials modeling for electrochemical power sources and how to fix them. <i>Chemical Physics Letters</i> , 2016, 659, 270-276.	1.2	10
14	Disodium Pyridine Dicarboxylate vs Disodium Terephthalate as Anode Materials for Organic Na Ion Batteries: Effect of Molecular Structure on Voltage from the Molecular Modeling Perspective. <i>MRS Advances</i> , 2017, 2, 3231-3235.	0.5	9
15	Lithium Attachment to C60 and Nitrogen- and Boron-Doped C60: A Mechanistic Study. <i>Materials</i> , 2019, 12, 2136.	1.3	9
16	Reply to the "Comment on "Revisiting $\pi$ -backbonding: the influence of d orbitals on metal-CO bonds and ligand red shifts" by G. Frenking and S. Pan, <i>Phys. Chem. Chem. Phys.</i> , 2019, 22, DOI: 10.1039/C9CP05951B. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5380-5382.	1.3	6
17	Li Storage on TCNE and TCNE-(Doped)-Graphene Complexes: a Computational Study. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1679, 1.	0.1	5