

# Min Sik Park

## List of Publications by Year in descending order

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26  
papers

828  
citations

567281

15  
h-index

610901

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1605  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Highly Reversible Lithium Metal Anode. Scientific Reports, 2014, 4, 3815. Mechanisms of $\text{Li}^{3+}$ transport in garnet-type cubic $\text{La}_3\text{M}_2\text{S}_4$ spinels. Physical Review B, 1999, 59, 10018-10024.	3.3	266
2	1,3,5-Trihydroxybenzene as a film-forming additive for high-voltage positive electrode. Electrochemistry Communications, 2013, 27, 26-28.	3.2	141
3	Valid, Plausible, and Diverse Retrosynthesis Using Tied Two-Way Transformers with Latent Variables. Journal of Chemical Information and Modeling, 2021, 61, 123-133.	3.2	83
4	Attribute driven inverse materials design using deep learning Bayesian framework. Npj Computational Materials, 2019, 5, .	4.7	39
5	Design of novel additives and nonaqueous solvents for lithium-ion batteries through screening of cyclic organic molecules: an ab initio study of redox potentials. Physical Chemistry Chemical Physics, 2014, 16, 22391-22398.	8.7	29
6	Computational comparison of oxidation stability: Solvent/salt monomers vs solvent-salt pairs. Journal of Power Sources, 2015, 288, 393-400.	2.8	23
7	Computational comparison of oxidation stability: Solvent/salt monomers vs solvent-salt pairs. Journal of Power Sources, 2015, 288, 393-400.	7.8	22
8	Effective passivation of a high-voltage positive electrode by 5-hydroxy-1H-indazole additives. Journal of Materials Chemistry A, 2014, 2, 14628-14633.	10.3	21
9	First-principles study of native point defects in $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ and $\text{Li}_2\text{MnO}_3$ . Physical Chemistry Chemical Physics, 2014, 16, 16798.	2.8	20
10	Spontaneous pseudo-topological silicon quantization for redesigned Si-based Li-ion batteries. Nano Energy, 2019, 56, 875-883.	16.0	19
11	A search map for organic additives and solvents applicable in high-voltage rechargeable batteries. Physical Chemistry Chemical Physics, 2016, 18, 26807-26815.	2.8	18
12	Keggin-type Polyoxometalates as Bidirectional Redox Mediators for Rechargeable Batteries. Electrochemistry, 2016, 84, 882-886.	1.4	18
13	Highly Soluble Tris(2,2'-bipyridine) Metal Bis(trifluoromethanesulfonyl)imide Complexes for High Energy Organic Redox Flow Batteries. Journal of the Electrochemical Society, 2018, 165, A215-A219.	2.9	18
14	Numerical predictions and experimental verification of Li-O <sub>2</sub> battery capacity limits for cathodes with spherical conductors and solid electrolytes. Journal of Power Sources, 2016, 331, 122-131.	7.8	16
15	Empirical Relationship between Chemical Structure and Redox Properties: Mathematical Expressions Connecting Structural Features to Energies of Frontier Orbitals and Redox Potentials for Organic Molecules. Journal of Physical Chemistry C, 2018, 122, 11322-11333.	3.1	15
16	Li intercalation effects on magnetism in undoped and Co-doped anatase TiO <sub>2</sub> . Physica B: Condensed Matter, 2003, 328, 120-122.	2.7	14
17	Tetrathiafulvalene as a Conductive Film-Making Additive on High-Voltage Cathode. ACS Applied Materials & Interfaces, 2017, 9, 3590-3595.	8.0	12

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19	Reductive reactions <i>via</i> excess Li in mixture electrolytes of Li ion batteries: an <i>ab initio</i> molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5489-5498.	2.8	9
20	The search for new spintronic materials: half-metallic antiferromagnets and diluted magnetic semiconductors. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S5509-S5516.	1.8	7
21	Half-Metallic Electronic Structures of Thiospinels. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 178-180.	1.6	2
22	Electronic and magnetic structures of CeTe <sub>2</sub> . <i>Journal of Applied Physics</i> , 2005, 97, 10A918.	2.5	2
23	L-Tryptophan: Antioxidant as a Film-Forming Additive for a High-Voltage Cathode. <i>Langmuir</i> , 2020, 36, 2823-2828.	3.5	2
24	Effects of Li intercalation on magnetic properties of Co-doped rutile TiO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2004, 16, S5697-S5700.	1.8	1
25	Data undersampling models for the efficient rule-based retrosynthetic planning. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26510-26518.	2.8	1
26	Effect of Particles Drift on Dendritic Growth. <i>Journal of Electrochemical Science and Technology</i> , 2014, 5, 53-57.	2.2	0