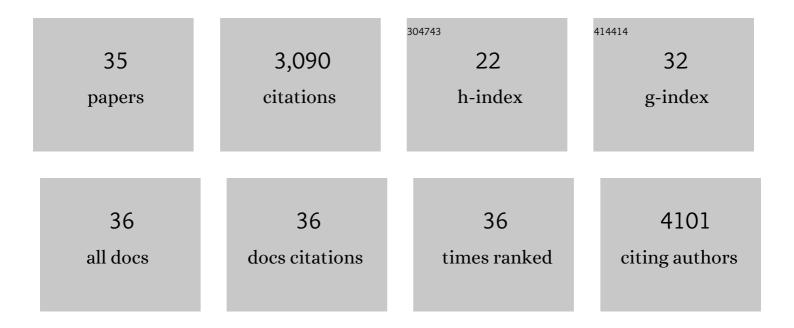
Jongwoo Lim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Non-precious-metal catalysts for alkaline water electrolysis: <i>operando</i> characterizations, theoretical calculations, and recent advances. Chemical Society Reviews, 2020, 49, 9154-9196.	38.1	448
2	Origin and hysteresis of lithium compositional spatiodynamics within battery primary particles. Science, 2016, 353, 566-571.	12.6	367
3	Quantifying Surface Roughness Effects on Phonon Transport in Silicon Nanowires. Nano Letters, 2012, 12, 2475-2482.	9.1	285
4	Pt/Fe2O3 with Pt–Fe pair sites as a catalyst for oxygen reduction with ultralow Pt loading. Nature Energy, 2021, 6, 614-623.	39.5	274
5	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	34.4	266
6	Persistent Stateâ€ofâ€Charge Heterogeneity in Relaxed, Partially Charged Li _{1â^'} <i>_x</i> Ni _{1/3} Co _{1/3} Mn _{1/3} O ₂ Secondary Particles. Advanced Materials, 2016, 28, 6631-6638.	21.0	142
7	Physical Biology of the Materials–Microorganism Interface. Journal of the American Chemical Society, 2018, 140, 1978-1985.	13.7	115
8	Single-atom catalyst for high-performance methanol oxidation. Nature Communications, 2021, 12, 5235.	12.8	113
9	Formation of FeOOH Nanosheets Induces Substitutional Doping of CeO _{2â^'} <i>_x</i> with Highâ€Valence Ni for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2002731.	19.5	110
10	Fluid-enhanced surface diffusion controls intraparticle phase transformations. Nature Materials, 2018, 17, 915-922.	27.5	104
11	Critical differences in 3D atomic structure of individual ligand-protected nanocrystals in solution. Science, 2020, 368, 60-67.	12.6	103
12	Stable and Highâ€Power Calciumâ€ion Batteries Enabled by Calcium Intercalation into Graphite. Advanced Materials, 2020, 32, e1904411.	21.0	87
13	Controlling Residual Lithium in Highâ€Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithiumâ€ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 18662-18669.	13.8	81
14	A Review of Carbon‣upported Nonprecious Metals as Energyâ€Related Electrocatalysts. Small Methods, 2020, 4, 2000621.	8.6	76
15	Thermal Transport in Silicon Nanowires at High Temperature up to 700 K. Nano Letters, 2016, 16, 4133-4140.	9.1	74
16	Effects of Particle Size, Electronic Connectivity, and Incoherent Nanoscale Domains on the Sequence of Lithiation in LiFePO ₄ Porous Electrodes. Advanced Materials, 2015, 27, 6591-6597.	21.0	72
17	Dichotomy in the Lithiation Pathway of Ellipsoidal and Platelet LiFePO ₄ Particles Revealed through Nanoscale Operando Stateâ€ofâ€Charge Imaging. Advanced Functional Materials, 2015, 25, 3677-3687.	14.9	72
18	Pd/Fe ₂ O ₃ with Electronic Coupling Single-Site Pd–Fe Pair Sites for Low-Temperature Semihydrogenation of Alkynes. Journal of the American Chemical Society, 2022, 144, 573-581.	13.7	69

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19	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. Nature Communications, 2021, 12, 3369.	12.8	59
20	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. Advanced Functional Materials, 2021, 31, 2008077.	14.9	40
21	Recent Advances of First d-Block Metal-Based Perovskite Oxide Electrocatalysts for Alkaline Water Splitting. Catalysts, 2020, 10, 770.	3.5	28
22	Suppressing High urrentâ€Induced Phase Separation in Niâ€Rich Layered Oxides by Electrochemically Manipulating Dynamic Lithium Distribution. Advanced Materials, 2021, 33, e2105337.	21.0	26
23	Homogenizing Silicon Domains in SiO _{<i>x</i>} Anode during Cycling and Enhancing Battery Performance via Magnesium Doping. ACS Applied Materials & Interfaces, 2021, 13, 52202-52214.	8.0	20
24	Probing and Resolving the Heterogeneous Degradation of Nickelâ€Rich Layered Oxide Cathodes across Multiâ€Length Scales. Small Methods, 2020, 4, 2000551.	8.6	18
25	One-Pot Heterointerfacial Metamorphosis for Synthesis and Control of Widely Varying Heterostructured Nanoparticles. Journal of the American Chemical Society, 2021, 143, 3383-3392.	13.7	9
26	Tunable thermal conductivity in mesoporous silicon by slight porosity change. Applied Physics Letters, 2017, 111, .	3.3	8
27	Tunable Dielectric and Thermal Properties of Oxide Dielectrics via Substrate Biasing in Plasma-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2020, 12, 44912-44918.	8.0	8
28	Templated synthesis of microparticles with carbonaceous skeletal structures using polymer cubosomes as templates. RSC Advances, 2022, 12, 8429-8434.	3.6	6
29	Electrode Lithiation: Effects of Particle Size, Electronic Connectivity, and Incoherent Nanoscale Domains on the Sequence of Lithiation in LiFePO ₄ Porous Electrodes (Adv. Mater. 42/2015). Advanced Materials, 2015, 27, 6590-6590.	21.0	4
30	Calciumâ€ion Batteries: Stable and Highâ€Power Calciumâ€ion Batteries Enabled by Calcium Intercalation into Graphite (Adv. Mater. 4/2020). Advanced Materials, 2020, 32, 2070029.	21.0	3
31	Controlling Residual Lithium in Highâ€Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 18821-18828.	2.0	2
32	Data on the effect of particle size, porosity and discharging rate on the performance of lithium-ion battery with NMC 622 cathode through numerical analysis. Data in Brief, 2021, 37, 107246.	1.0	1
33	Fluorescence: Dichotomy in the Lithiation Pathway of Ellipsoidal and Platelet LiFePO4Particles Revealed through Nanoscale Operando State-of-Charge Imaging (Adv. Funct. Mater. 24/2015). Advanced Functional Materials, 2015, 25, 3676-3676.	14.9	0
34	Using Scanning Transmission X-ray Microscopy to Reveal the Origin of Lithium Compositional Spatiodynamics in Battery Materials. Microscopy and Microanalysis, 2017, 23, 888-889.	0.4	0
35	Suppressed phonon conduction by geometrically induced evolution of transport characteristics from Brownian motion into Lévy flight. NPG Asia Materials, 2022, 14, .	7.9	0