Sung Joo Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. Nature Materials, 2020, 19, 419-427.	27.5	328
2	ZnO/CuO Heterojunction Branched Nanowires for Photoelectrochemical Hydrogen Generation. ACS Nano, 2013, 7, 11112-11120.	14.6	275
3	Experimental evidence of ferroelectric negative capacitance in nanoscale heterostructures. Applied Physics Letters, 2011, 99, .	3.3	256
4	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. Nature Communications, 2019, 10, 2598.	12.8	195
5	Toward a low-cost high-voltage sodium aqueous rechargeable battery. Materials Today, 2019, 29, 26-36.	14.2	156
6	Nanoscale Phenomena in Lithium-Ion Batteries. Chemical Reviews, 2020, 120, 6684-6737.	47.7	142
7	Visualization of regulated nucleation and growth of lithium sulfides for high energy lithium sulfur batteries. Energy and Environmental Science, 2019, 12, 3144-3155.	30.8	104
8	Coupling structural evolution and oxygen-redox electrochemistry in layered transition metal oxides. Nature Materials, 2022, 21, 664-672.	27.5	89
9	Room-Temperature Polar Ferromagnet ScFeO ₃ Transformed from a High-Pressure Orthorhombic Perovskite Phase. Journal of the American Chemical Society, 2014, 136, 15291-15299.	13.7	78
10	Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous Zn/α-MnO ₂ batteries. Energy and Environmental Science, 2020, 13, 4322-4333.	30.8	72
11	Atomic visualization of a non-equilibrium sodiation pathway in copper sulfide. Nature Communications, 2018, 9, 922.	12.8	71
12	Unraveling the Dissolutionâ€Mediated Reaction Mechanism of αâ€MnO ₂ Cathodes for Aqueous Znâ€Ion Batteries. Small, 2020, 16, e2005406.	10.0	58
13	p‣i/SnO ₂ /Fe ₂ O ₃ Core/Shell/Shell Nanowire Photocathodes for Neutral pH Water Splitting. Advanced Functional Materials, 2015, 25, 2609-2615.	14.9	47
14	Enhancing thermopower and hole mobility in bulk p-type half-Heuslers using full-Heusler nanostructures. Nanoscale, 2013, 5, 9419.	5.6	44
15	Super-Ionic Conduction in Solid-State Li ₇ P ₃ S ₁₁ -Type Sulfide Electrolytes. Chemistry of Materials, 2018, 30, 8764-8770.	6.7	43
16	Pulverizationâ€Tolerance and Capacity Recovery of Copper Sulfide for Highâ€Performance Sodium Storage. Advanced Science, 2019, 6, 1900264.	11.2	39
17	New Insights into the Reaction Mechanism of Sodium Vanadate for an Aqueous Zn Ion Battery. Chemistry of Materials, 2020, 32, 2053-2060.	6.7	37
18	In situ TEM observation of the structural transformation of rutile TiO ₂ nanowire during electrochemical lithiation. Chemical Communications, 2014, 50, 9932.	4.1	34

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19	Waterâ€Free Titania–Bronze Thin Films with Superfast Lithiumâ€ŀon Transport. Advanced Materials, 2014, 26, 7365-7370.	21.0	31
20	Anchored Mediator Enabling Shuttleâ€Free Redox Mediation in Lithiumâ€Oxygen Batteries. Angewandte Chemie - International Edition, 2020, 59, 5376-5380.	13.8	31
21	Solidâ€State Dual Function Electrochemical Devices: Energy Storage and Lightâ€Emitting Applications. Advanced Energy Materials, 2016, 6, 1600651.	19.5	27
22	Toward the Understanding of the Reaction Mechanism of Zn/MnO ₂ Batteries Using Non-alkaline Aqueous Electrolytes. Chemistry of Materials, 2021, 33, 7283-7289.	6.7	27
23	Direct Realization of Complete Conversion and Agglomeration Dynamics of SnO ₂ Nanoparticles in Liquid Electrolyte. ACS Omega, 2017, 2, 6329-6336.	3.5	26
24	Plasmonic tuning of aluminum doped zinc oxide nanostructures by atomic layer deposition. Physica Status Solidi - Rapid Research Letters, 2014, 8, 948-952.	2.4	25
25	<i>In Situ</i> High-Resolution Transmission Electron Microscopy (TEM) Observation of Sn Nanoparticles on SnO ₂ Nanotubes Under Lithiation. Microscopy and Microanalysis, 2017, 23, 1107-1115.	0.4	21
26	Unravelling high volumetric capacity of Co ₃ O ₄ nanograin-interconnected secondary particles for lithium-ion battery anodes. Journal of Materials Chemistry A, 2021, 9, 6242-6251.	10.3	18
27	Lithiation of Rutile TiO ₂ -Coated Si NWs Observed by in Situ TEM. Chemistry of Materials, 2015, 27, 6929-6933.	6.7	17
28	Creating high quality Ca:TiO ₂ -B (CaTi ₅ O ₁₁) and TiO ₂ -B epitaxial thin films by pulsed laser deposition. Chemical Communications, 2015, 51, 8584-8587.	4.1	15
29	Analysis of defect-free GaSb/GaAs(001) quantum dots grown on the Sb-terminated (2 × 8) surface. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, .	1.2	14
30	Graphene Liquid Cell Electron Microscopy of Initial Lithiation in Co ₃ O ₄ Nanoparticles. ACS Omega, 2019, 4, 6784-6788.	3.5	11
31	Impact of sodium vanadium oxide (NaV ₃ O ₈ , NVO) material synthesis conditions on charge storage mechanism in Zn-ion aqueous batteries. Physical Chemistry Chemical Physics, 2021, 23, 8607-8617.	2.8	10
32	Anchored Mediator Enabling Shuttleâ€Free Redox Mediation in Lithiumâ€Oxygen Batteries. Angewandte Chemie, 2020, 132, 5414-5418.	2.0	10
33	Three-dimensional ZnO/Si broom-like nanowire heterostructures as photoelectrochemical anodes for solar energy conversion. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2561-2568.	1.8	9
34	Hollow Ag ₂ S nanosphere formation via electron beam-assisted oxidative etching of Ag nanoparticles. Chemical Communications, 2017, 53, 11122-11125.	4.1	8
35	Atomic structure of defects and interfaces in TiO ₂ -B and Ca:TiO ₂ -B (CaTi ₅ O ₁₁) films grown on SrTiO ₃ . CrystEngComm, 2015, 17, 4309-4315.	2.6	6
36	One‧tructureâ€Based Barrier Film for Simultaneous Exclusion of Water and Ultraviolet Light. Advanced Optical Materials, 2017, 5, 1600888.	7.3	5

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37	Accordion Strain Accommodation Mechanism within the Epitaxially Constrained Electrode. ACS Energy Letters, 2018, 3, 1848-1853.	17.4	5
38	Tunable, Endotaxial Inclusion of Crystalline Pt-Based Nanoparticles Inside a High-Quality Bronze TiO2 Matrix. Chemistry of Materials, 2017, 29, 2016-2023.	6.7	2
39	In Situ TEM Observation on the Agglomeration of Nanoparticles in the Interface of SnO2. Microscopy and Microanalysis, 2017, 23, 2054-2055.	0.4	2
40	Microscopic Insight into Tin Nanoparticle Magnesiation. ACS Applied Energy Materials, 2022, 5, 7944-7949.	5.1	2
41	Supercapacitors: Solidâ€5tate Dual Function Electrochemical Devices: Energy Storage and Lightâ€Emitting Applications (Adv. Energy Mater. 19/2016). Advanced Energy Materials, 2016, 6, .	19.5	1
42	In Situ Transmission Electron Microscopy Graphene Liquid Cell on Chemical Sodiation of Nickel Oxide Nanoparticle. Microscopy and Microanalysis, 2017, 23, 204-205.	0.4	1
43	Facile <i>in situ</i> Lithiation and Sodiation Observation in TEM Employing MF (M=Li, Na). Microscopy and Microanalysis, 2019, 25, 1860-1861.	0.4	1
44	In-situ TEM Observation of Electrochemical Cycling of a Si/TiO2 Composite NW. Microscopy and Microanalysis, 2014, 20, 454-455.	0.4	0
45	Case Examination on Volume Expansion of Crystalline Si Nanoparticles under Sodiation: In Situ TEM Study Using Graphene Liquid Cells. Microscopy and Microanalysis, 2016, 22, 1370-1371.	0.4	0
46	Real Time Observation of Initial Conversion Reaction of Co3O4 Nanoparticles Using Graphene Liquid Cell Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 1968-1969.	0.4	0
47	Sodium Ion Batteries: Pulverizationâ€Tolerance and Capacity Recovery of Copper Sulfide for Highâ€Performance Sodium Storage (Adv. Sci. 12/2019). Advanced Science, 2019, 6, 1970074.	11.2	0
48	The Effects of Vanadium Substitution on One-dimensional Tunnel Structures of Cryptomelane: Combined TEM and DFT Study. Microscopy and Microanalysis, 2020, 26, 3162-3164.	0.4	0
49	One-step synthesis of Pt/a-CoOx core/shell nanocomposites. Applied Microscopy, 2019, 49, 12.	1.4	0