

Sungjin Kim

List of Publications by Year in descending order

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62
papers

4,977
citations

117625

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times ranked

5978
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#	ARTICLE	IF	CITATIONS
1	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. <i>Nature Photonics</i> , 2021, 15, 148-155.	31.4	590
2	Na ₂ V ₆ O ₁₆ ·3H ₂ O Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. <i>Nano Letters</i> , 2018, 18, 2402-2410.	9.1	461
3	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , 2020, 5, 2376-2400.	17.4	303
4	Facile synthesis and the exploration of the zinc storage mechanism of β -MnO ₂ nanorods with exposed (101) planes as a novel cathode material for high performance eco-friendly zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23299-23309.	10.3	297
5	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn ₂ V ₂ O ₇ nanowire cathode through intercalation regulation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3850-3856.	10.3	293
6	Amorphous iron phosphate: potential host for various charge carrier ions. <i>NPG Asia Materials</i> , 2014, 6, e138-e138.	7.9	213
7	K ₂ V ₆ O ₁₆ ·2.7H ₂ O nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15530-15539.	10.3	201
8	Graphene-Biomineral Hybrid Materials. <i>Advanced Materials</i> , 2011, 23, 2009-2014.	21.0	168
9	Beta-Sheet Forming, Self-Assembled Peptide Nanomaterials towards Optical, Energy, and Healthcare Applications. <i>Small</i> , 2015, 11, 3623-3640.	10.0	161
10	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn ₂ O ₄ Cathode. <i>ACS Energy Letters</i> , 2018, 3, 1998-2004.	17.4	159
11	A high surface area tunnel-type β -MnO ₂ nanorod cathode by a simple solvent-free synthesis for rechargeable aqueous zinc-ion batteries. <i>Chemical Physics Letters</i> , 2016, 650, 64-68.	2.6	142
12	Co ₃ V ₂ O ₈ Sponge Network Morphology Derived from Metal-Organic Framework as an Excellent Lithium Storage Anode Material. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8546-8553.	8.0	139
13	Mussel-inspired transformation of CaCO ₃ to bone minerals. <i>Biomaterials</i> , 2010, 31, 6628-6634.	11.4	113
14	Dopamine-Induced Mineralization of Calcium Carbonate Vaterite Microspheres. <i>Langmuir</i> , 2010, 26, 14730-14736.	3.5	113
15	Bio-Inspired Synthesis of Minerals for Energy, Environment, and Medicinal Applications. <i>Advanced Functional Materials</i> , 2013, 23, 10-25.	14.9	94
16	Exploiting the full advantages of colloidal perovskite nanocrystals for large-area efficient light-emitting diodes. <i>Nature Nanotechnology</i> , 2022, 17, 590-597.	31.5	81
17	Polymers with Dynamic Bonds: Adaptive Functional Materials for a Sustainable Future. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9389-9401.	2.6	66
18	Design of tough adhesive from commodity thermoplastics through dynamic crosslinking. <i>Science Advances</i> , 2021, 7, eabk2451.	10.3	66

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19	Metal-organic framework-combustion: a new, cost-effective and one-pot technique to produce a porous $\text{Co}_3\text{V}_2\text{O}_8$ microsphere anode for high energy lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14605-14613.	10.3	64
20	Fully activated Li_2MnO_3 nanoparticles by oxidation reaction. <i>Journal of Materials Chemistry</i> , 2012, 22, 11772.	6.7	63
21	High rate performance of a $\text{NaTi}_2(\text{PO}_4)_3/\text{rGO}$ composite electrode via pyro synthesis for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7815-7822.	10.3	60
22	Facile synthesis of reduced graphene oxide by modified Hummer's method as anode material for Li-, Na- and K-ion secondary batteries. <i>Royal Society Open Science</i> , 2019, 6, 181978.	2.4	60
23	In situ mechanical reinforcement of polymer hydrogels via metal-coordinated crosslink mineralization. <i>Nature Communications</i> , 2021, 12, 667.	12.8	60
24	Fine Control of Perovskite Crystallization and Reducing Luminescence Quenching Using Self-Doped Polyaniline Hole Injection Layer for Efficient Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2019, 29, 1807535.	14.9	58
25	Pyro-synthesis of a high rate nano- $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ cathode with mixed morphology for advanced Li-ion batteries. <i>Scientific Reports</i> , 2014, 4, 4047.	3.3	57
26	Multidimensional $\text{Na}_4\text{VMn}_{0.9}\text{Cu}_{0.1}(\text{PO}_4)_3/\text{C}$ cotton-candy cathode materials for high energy Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12055-12068.	10.3	48
27	Pyrosynthesis of $\text{Na}_3\text{V}_2(\text{PO}_4)_3@C$ Cathodes for Safe and Low-Cost Aqueous Hybrid Batteries. <i>ChemSusChem</i> , 2018, 11, 2239-2247.	6.8	47
28	Enhanced electrochemical performance of novel K-doped Co_3O_4 as the anode material for secondary lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6966-6975.	10.3	45
29	One-Step Pyro-Synthesis of a Nanostructured $\text{Mn}_3\text{O}_4/\text{C}$ Electrode with Long Cycle Stability for Rechargeable Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 2039-2045.	3.3	40
30	Porous TiN nanoparticles embedded in a N-doped carbon composite derived from metal-organic frameworks as a superior anode in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4706-4710.	10.3	39
31	Facile green synthesis of a $\text{Co}_3\text{V}_2\text{O}_8$ nanoparticle electrode for high energy lithium-ion battery applications. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 133-141.	9.4	39
32	Phase-pure $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ embedded in carbon matrix through a facile polyol synthesis as a potential cathode for high performance sodium-ion batteries. <i>Nano Research</i> , 2019, 12, 911-917.	10.4	38
33	Perovskite Emitters as a Platform Material for Down-Conversion Applications. <i>Advanced Materials Technologies</i> , 2020, 5, 2000091.	5.8	38
34	Dandelion-shaped manganese sulfide in ether-based electrolyte for enhanced performance sodium-ion batteries. <i>Communications Chemistry</i> , 2018, 1, .	4.5	37
35	Metal Halide Perovskites: From Crystal Formations to Light-Emitting Diode Applications. <i>Small Methods</i> , 2018, 2, 1800093.	8.6	36
36	An Enhanced High-Rate $\text{Na}_3\text{V}_2(\text{PO}_4)_3\text{-Ni}_2\text{P}$ Nanocomposite Cathode with Stable Lifetime for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35235-35242.	8.0	35

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37	Enhanced Water Retention Maintains Energy Dissipation in Dehydrated Metal-Coordinate Polymer Networks: Another Role for Fe-Catechol Cross-Links?. <i>Chemistry of Materials</i> , 2018, 30, 3648-3655.	6.7	34
38	Bio-inspired mineralization of CO ₂ gas to hollow CaCO ₃ microspheres and bone hydroxyapatite/polymer composites. <i>Journal of Materials Chemistry</i> , 2011, 21, 11070.	6.7	33
39	Closed-loop additive manufacturing of upcycled commodity plastic through dynamic cross-linking. <i>Science Advances</i> , 2022, 8, .	10.3	33
40	A sponge network-shaped Mn ₃ O ₄ /C anode derived from a simple, one-pot metal organic framework-combustion technique for improved lithium ion storage. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1609-1615.	6.0	31
41	Chiral polymer hosts for circularly polarized electroluminescence devices. <i>Chemical Science</i> , 2021, 12, 8668-8681.	7.4	28
42	Electrochemical lithium storage of a ZnFe ₂ O ₄ /graphene nanocomposite as an anode material for rechargeable lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 47087-47095.	3.6	27
43	Direct ink writing techniques for in situ gelation and solidification. <i>MRS Communications</i> , 2021, 11, 106-121.	1.8	25
44	Li ₃ V ₂ (PO ₄) ₃ /graphene nanocomposite as a high performance cathode material for lithium ion battery. <i>Ceramics International</i> , 2015, 41, 389-396.	4.8	23
45	Electroluminescence of Perovskite Nanocrystals with Ligand Engineering. <i>Trends in Chemistry</i> , 2020, 2, 837-849.	8.5	22
46	Electroplated Silver-Nickel Core-Shell Nanowire Network Electrodes for Highly Efficient Perovskite Nanoparticle Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39479-39486.	8.0	21
47	Na _{2.3} Cu _{1.1} Mn ₂ O ₇ nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. <i>Journal of Materials Chemistry A</i> , 2020, 8, 770-778.	10.3	20
48	Uniform Carbon Coated Na ₃ V ₂ (PO ₄) ₂ O ₂ F ₃ Nanoparticles for Sodium Ion Batteries as Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18826-18834.	6.7	16
49	Suppressing π-π stacking interactions for enhanced solid-state emission of flat aromatic molecules via edge functionalization with picket-fence-type groups. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17289-17296.	5.5	16
50	A high voltage LiMnPO ₄ -LiMn ₂ O ₄ nanocomposite cathode synthesized by a one-pot pyro synthesis for Li-ion batteries. <i>RSC Advances</i> , 2013, 3, 25640.	3.6	15
51	High lithium storage properties in a manganese sulfide anode via an intercalation-cum-conversion reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17537-17549.	10.3	15
52	Synergistic Molecular Engineering of Hole-Injecting Conducting Polymers Overcomes Luminescence Quenching in Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100646.	7.3	14
53	Mesoporous manganese dioxide cathode prepared by an ambient temperature synthesis for Na-ion batteries. <i>RSC Advances</i> , 2013, 3, 26328.	3.6	12
54	Mesoporous Mulberry-like CoMoO ₄ : A Highly Suitable Anode Material for Sodium Ion Batteries over Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 126-136.	5.1	12

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55	One-pot pyro-synthesis of a high energy density $\text{LiFePO}_4\text{-Li}_3\text{V}_2(\text{PO}_4)_3$ nanocomposite cathode for lithium-ion battery applications. <i>Ceramics International</i> , 2017, 43, 4288-4294.	4.8	11
56	Validating the Structural (In)stability of $\text{P}_3\text{- and P}_2\text{-Na}_{0.67}\text{Mg}_{0.1}\text{Mn}_{0.9}\text{O}_2$ -Layered Cathodes for Sodium-Ion Batteries: A Time-Decisive Approach. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53877-53891.	8.0	10
57	Microwave-Assisted Rapid Synthesis of $\text{NH}_4\text{V}_4\text{O}_{10}$ Layered Oxide: A High Energy Cathode for Aqueous Rechargeable Zinc Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1905.	4.1	8
58	Processing and 3D printing of SiCN polymer-derived ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 939-948.	2.1	7
59	An in-situ gas chromatography investigation into the suppression of oxygen gas evolution by coated amorphous cobalt-phosphate nanoparticles on oxide electrode. <i>Scientific Reports</i> , 2016, 6, 23394.	3.3	6
60	Chemically Robust Indium Tin Oxide/Graphene Anode for Efficient Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9074-9080.	8.0	6
61	Structural and electrochemical behavior of a $\text{NiMnO}_3/\text{Mn}_2\text{O}_3$ nanocomposite as an anode for high rate and long cycle lithium ion batteries. <i>New Journal of Chemistry</i> , 2019, 43, 12916-12922.	2.8	4
62	Quantum-confinement effect on the linewidth broadening of metal halide perovskite-based quantum dots. <i>Journal of Physics Condensed Matter</i> , 2021, 33, .	1.8	4