

# Sungjin Kim

## List of Publications by Year in descending order

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62  
papers

4,977  
citations

134610

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134545

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62  
all docs

62  
docs citations

62  
times ranked

6891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing and 3D printing of SiCN polymer-derived ceramics. International Journal of Applied Ceramic Technology, 2022, 19, 939-948.	1.1	7
2	Mesoporous Mulberry-like CoMoO <sub>4</sub> : A Highly Suitable Anode Material for Sodium Ion Batteries over Lithium Ion Batteries. ACS Applied Energy Materials, 2022, 5, 126-136.	2.5	12
3	Exploiting the full advantages of colloidal perovskite nanocrystals for large-area efficient light-emitting diodes. Nature Nanotechnology, 2022, 17, 590-597.	15.6	81
4	Closed-loop additive manufacturing of upcycled commodity plastic through dynamic cross-linking. Science Advances, 2022, 8, .	4.7	33
5	In situ mechanical reinforcement of polymer hydrogels via metal-coordinated crosslink mineralization. Nature Communications, 2021, 12, 667.	5.8	60
6	Comprehensive defect suppression in perovskite nanocrystals for high-efficiency light-emitting diodes. Nature Photonics, 2021, 15, 148-155.	15.6	590
7	Chiral polymer hosts for circularly polarized electroluminescence devices. Chemical Science, 2021, 12, 8668-8681.	3.7	28
8	Direct ink writing techniques for in situ gelation and solidification. MRS Communications, 2021, 11, 106-121.	0.8	25
9	Quantum-confinement effect on the linewidth broadening of metal halide perovskite-based quantum dots. Journal of Physics Condensed Matter, 2021, 33, .	0.7	4
10	Synergistic Molecular Engineering of Hole-Injecting Conducting Polymers Overcomes Luminescence Quenching in Perovskite Light-Emitting Diodes. Advanced Optical Materials, 2021, 9, 2100646.	3.6	14
11	Microwave-Assisted Rapid Synthesis of NH <sub>4</sub> V <sub>4</sub> O <sub>10</sub> Layered Oxide: A High Energy Cathode for Aqueous Rechargeable Zinc Ion Batteries. Nanomaterials, 2021, 11, 1905.	1.9	8
12	Polymers with Dynamic Bonds: Adaptive Functional Materials for a Sustainable Future. Journal of Physical Chemistry B, 2021, 125, 9389-9401.	1.2	66
13	Chemically Robust Indium Tin Oxide/Graphene Anode for Efficient Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 9074-9080.	4.0	6
14	Design of tough adhesive from commodity thermoplastics through dynamic crosslinking. Science Advances, 2021, 7, eabk2451.	4.7	66
15	Validating the Structural (In)stability of P <sub>3</sub> - and P <sub>2</sub> -Na <sub>0.67</sub> Mg <sub>0.1</sub> Mn <sub>0.9</sub> O <sub>2</sub> -Layered Cathodes for Sodium-Ion Batteries: A Time-Decisive Approach. ACS Applied Materials & Interfaces, 2021, 13, 53877-53891.	4.0	10
16	Na <sub>2.3</sub> Cu <sub>1.1</sub> Mn <sub>2</sub> O <sub>7</sub> nanoflakes as enhanced cathode materials for high-energy sodium-ion batteries achieved by a rapid pyrosynthesis approach. Journal of Materials Chemistry A, 2020, 8, 770-778.	5.2	20
17	Suppressing π-π stacking interactions for enhanced solid-state emission of flat aromatic molecules via edge functionalization with picket-fence-type groups. Journal of Materials Chemistry C, 2020, 8, 17289-17296.	2.7	16
18	High lithium storage properties in a manganese sulfide anode via an intercalation-cum-conversion reaction. Journal of Materials Chemistry A, 2020, 8, 17537-17549.	5.2	15

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19	Electroplated Silverâ€“Nickel Coreâ€“Shell Nanowire Network Electrodes for Highly Efficient Perovskite Nanoparticle Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 39479-39486.	4.0	21
20	Perovskite Emitters as a Platform Material for Downâ€“Conversion Applications. Advanced Materials Technologies, 2020, 5, 2000091.	3.0	38
21	Multidimensional Na <sub>4</sub> VMn <sub>0.9</sub> Cu <sub>0.1</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cotton-candy cathode materials for high energy Na-ion batteries. Journal of Materials Chemistry A, 2020, 8, 12055-12068.	5.2	48
22	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. ACS Energy Letters, 2020, 5, 2376-2400.	8.8	303
23	Electroluminescence of Perovskite Nanocrystals with Ligand Engineering. Trends in Chemistry, 2020, 2, 837-849.	4.4	22
24	Structural and electrochemical behavior of a NiMnO <sub>3</sub> /Mn <sub>2</sub> O <sub>3</sub> nanocomposite as an anode for high rate and long cycle lithium ion batteries. New Journal of Chemistry, 2019, 43, 12916-12922.	1.4	4
25	Uniform Carbon Coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> O <sub>2</sub> F <sub>3</sub> Nanoparticles for Sodium Ion Batteries as Cathode. ACS Sustainable Chemistry and Engineering, 2019, 7, 18826-18834.	3.2	16
26	Facile synthesis of reduced graphene oxide by modified Hummer's method as anode material for Li-, Na- and K-ion secondary batteries. Royal Society Open Science, 2019, 6, 181978.	1.1	60
27	Phase-pure Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> embedded in carbon matrix through a facile polyol synthesis as a potential cathode for high performance sodium-ion batteries. Nano Research, 2019, 12, 911-917.	5.8	38
28	Fine Control of Perovskite Crystallization and Reducing Luminescence Quenching Using Selfâ€“Doped Polyaniline Hole Injection Layer for Efficient Perovskite Lightâ€“Emitting Diodes. Advanced Functional Materials, 2019, 29, 1807535.	7.8	58
29	Aqueous rechargeable Zn-ion batteries: an imperishable and high-energy Zn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> nanowire cathode through intercalation regulation. Journal of Materials Chemistry A, 2018, 6, 3850-3856.	5.2	293
30	Pyrosynthesis of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C Cathodes for Safe and Lowâ€“Cost Aqueous Hybrid Batteries. ChemSusChem, 2018, 11, 2239-2247.	3.6	47
31	Na <sub>2</sub> V <sub>6</sub> O <sub>16</sub> ·3H <sub>2</sub> O Barnesite Nanorod: An Open Door to Display a Stable and High Energy for Aqueous Rechargeable Zn-Ion Batteries as Cathodes. Nano Letters, 2018, 18, 2402-2410.	4.5	461
32	Dandelion-shaped manganese sulfide in ether-based electrolyte for enhanced performance sodium-ion batteries. Communications Chemistry, 2018, 1, .	2.0	37
33	Metal Halide Perovskites: From Crystal Formations to Lightâ€“Emittingâ€“Diode Applications. Small Methods, 2018, 2, 1800093.	4.6	36
34	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn <sub>2</sub> O <sub>4</sub> Cathode. ACS Energy Letters, 2018, 3, 1998-2004.	8.8	159
35	K <sub>2</sub> V <sub>6</sub> O <sub>16</sub> ·2.7H <sub>2</sub> O nanorod cathode: an advanced intercalation system for high energy aqueous rechargeable Zn-ion batteries. Journal of Materials Chemistry A, 2018, 6, 15530-15539.	5.2	201
36	Enhanced Water Retention Maintains Energy Dissipation in Dehydrated Metal-Coordinate Polymer Networks: Another Role for Fe-Catechol Cross-Links?. Chemistry of Materials, 2018, 30, 3648-3655.	3.2	34

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37	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.	5.0	39
38	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.	2.3	11
39	Facile synthesis and the exploration of the zinc storage mechanism of $\text{I}^2\text{-MnO}_2$ 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.	5.2	297
40	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 &amp; Interfaces</i> , 2016, 8, 35235-35242.	4.0	35
41	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.	1.6	6
42	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.	5.2	60
43	A sponge network-shaped $\text{Mn}_3\text{O}_4/\text{C}$ 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.	3.0	31
44	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.	5.2	64
45	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.	1.7	40
46	$\text{Co}_3\text{V}_2\text{O}_8$ Sponge Network Morphology Derived from Metal-Organic Framework as an Excellent Lithium Storage Anode Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8546-8553.	4.0	139
47	A high surface area tunnel-type $\text{I}^\pm\text{-MnO}_2$ nanorod cathode by a simple solvent-free synthesis for rechargeable aqueous zinc-ion batteries. <i>Chemical Physics Letters</i> , 2016, 650, 64-68.	1.2	142
48	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.	5.2	39
49	Beta-Sheet-Forming, Self-Assembled Peptide Nanomaterials towards Optical, Energy, and Healthcare Applications. <i>Small</i> , 2015, 11, 3623-3640.	5.2	161
50	$\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{graphene}$ nanocomposite as a high performance cathode material for lithium ion battery. <i>Ceramics International</i> , 2015, 41, 389-396.	2.3	23
51	Amorphous iron phosphate: potential host for various charge carrier ions. <i>NPG Asia Materials</i> , 2014, 6, e138-e138.	3.8	213
52	Electrochemical lithium storage of a $\text{ZnFe}_2\text{O}_4/\text{graphene}$ nanocomposite as an anode material for rechargeable lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 47087-47095.	1.7	27
53	Enhanced electrochemical performance of novel K-doped $\text{Co}_3\text{O}_4$ as the anode material for secondary lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6966-6975.	5.2	45
54	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.	1.6	57

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55	A high voltage LiMnPO <sub>4</sub> •LiMn <sub>2</sub> O <sub>4</sub> nanocomposite cathode synthesized by a one-pot pyro synthesis for Li-ion batteries. RSC Advances, 2013, 3, 25640.	1.7	15
56	Mesoporous manganese dioxide cathode prepared by an ambient temperature synthesis for Na-ion batteries. RSC Advances, 2013, 3, 26328.	1.7	12
57	Bio-inspired Synthesis of Minerals for Energy, Environment, and Medicinal Applications. Advanced Functional Materials, 2013, 23, 10-25.	7.8	94
58	Fully activated Li <sub>2</sub> MnO <sub>3</sub> nanoparticles by oxidation reaction. Journal of Materials Chemistry, 2012, 22, 11772.	6.7	63
59	Bio-inspired mineralization of CO <sub>2</sub> gas to hollow CaCO <sub>3</sub> microspheres and bone hydroxyapatite/polymer composites. Journal of Materials Chemistry, 2011, 21, 11070.	6.7	33
60	Graphene•Biomaterial Hybrid Materials. Advanced Materials, 2011, 23, 2009-2014.	11.1	168
61	Mussel-inspired transformation of CaCO <sub>3</sub> to bone minerals. Biomaterials, 2010, 31, 6628-6634.	5.7	113
62	Dopamine-Induced Mineralization of Calcium Carbonate Vaterite Microspheres. Langmuir, 2010, 26, 14730-14736.	1.6	113