

Sung-Wook Kim

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5046811/sung-wook-kim-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

7,493
citations

34
h-index

78
g-index

78
ext. papers

8,083
ext. citations

7
avg, IF

5.87
L-index

#	Paper	IF	Citations
76	Electrode Materials for Rechargeable Sodium-Ion Batteries: Potential Alternatives to Current Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 710-721	21.8	2590
75	Aqueous rechargeable Li and Na ion batteries. <i>Chemical Reviews</i> , 2014 , 114, 11788-827	68.1	929
74	Highly reversible Co ₃ O ₄ /graphene hybrid anode for lithium rechargeable batteries. <i>Carbon</i> , 2011 , 49, 326-332	10.4	327
73	New iron-based mixed-polyanion cathodes for lithium and sodium rechargeable batteries: combined first principles calculations and experimental study. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10369-72	16.4	323
72	A combined first principles and experimental study on Na ₃ V ₂ (PO ₄) ₂ F ₃ for rechargeable Na batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20535		253
71	Fabrication of FeF ₃ Nanoflowers on CNT branches and their application to high power lithium rechargeable batteries. <i>Advanced Materials</i> , 2010 , 22, 5260-4	24	242
70	Critical Role of Oxygen Evolved from Layered Li _{1-x} Metal Oxides in Lithium Rechargeable Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 2692-2697	9.6	213
69	Structural evolution of layered Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ upon electrochemical cycling in a Li rechargeable battery. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10179		184
68	Fabrication and electrochemical characterization of TiO ₂ three-dimensional nanonetwork based on peptide assembly. <i>ACS Nano</i> , 2009 , 3, 1085-90	16.7	183
67	SnO ₂ /graphene composite with high lithium storage capability for lithium rechargeable batteries. <i>Nano Research</i> , 2010 , 3, 813-821	10	171
66	Electrochemical performance and ex situ analysis of ZnMn ₂ O ₄ nanowires as anode materials for lithium rechargeable batteries. <i>Nano Research</i> , 2011 , 4, 505-510	10	154
65	Synthesis of diphenylalanine/cobalt oxide hybrid nanowires and their application to energy storage. <i>ACS Nano</i> , 2010 , 4, 159-64	16.7	135
64	Mineralization of self-assembled peptide nanofibers for rechargeable lithium ion batteries. <i>Advanced Materials</i> , 2010 , 22, 5537-41	24	115
63	Combined First-Principle Calculations and Experimental Study on Multi-Component Olivine Cathode for Lithium Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2009 , 19, 3285-3292	15.6	112
62	Phase Stability Study of Li _{1-x} MnPO ₄ (0 ≤ x ≤ 1) Cathode for Li Rechargeable Battery. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A635	3.9	106
61	Ternary metal fluorides as high-energy cathodes with low cycling hysteresis. <i>Nature Communications</i> , 2015 , 6, 6668	17.4	104
60	Carbon nanotube-amorphous FePO ₄ core-shell nanowires as cathode material for Li ion batteries. <i>Chemical Communications</i> , 2010 , 46, 7409-11	5.8	94

59	A comparative study on Na ₂ MnPO ₄ F and Li ₂ MnPO ₄ F for rechargeable battery cathodes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3299-303	3.6	87
58	Multicomponent Olivine Cathode for Lithium Rechargeable Batteries: A First-Principles Study. <i>Chemistry of Materials</i> , 2010 , 22, 518-523	9.6	81
57	Scalable functionalized graphene nano-platelets as tunable cathodes for high-performance lithium rechargeable batteries. <i>Scientific Reports</i> , 2013 , 3, 1506	4.9	79
56	Mn based olivine electrode material with high power and energy. <i>Chemical Communications</i> , 2010 , 46, 1305-7	5.8	73
55	First-principles study on lithium metal borate cathodes for lithium rechargeable batteries. <i>Physical Review B</i> , 2011 , 83,	3.3	61
54	Synthesis of Multicomponent Olivine by a Novel Mixed Transition Metal Oxalate Coprecipitation Method and Electrochemical Characterization. <i>Chemistry of Materials</i> , 2010 , 22, 2573-2581	9.6	59
53	Highly entangled hollow TiO ₂ nanoribbons templating diphenylalanine assembly. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3512		49
52	Structure Stabilization by Mixed Anions in Oxyfluoride Cathodes for High-Energy Lithium Batteries. <i>ACS Nano</i> , 2015 , 9, 10076-84	16.7	47
51	Synthesis of graphene-wrapped CuO hybrid materials by CO ₂ mineralization. <i>Green Chemistry</i> , 2012 , 14, 2391	10	47
50	Mg and Fe Co-doped Mn Based Olivine Cathode Material for High Power Capability. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A250	3.9	46
49	Mechanism of Co ₃ O ₄ /graphene catalytic activity in LiO ₂ batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , 2013 , 90, 63-70	6.7	44
48	Graphene-Based Hybrid Electrode Material for High-Power Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A930	3.9	43
47	Improvement of the Morphological Stability by Stacking RuO ₂ on Ru Thin Films with Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2007 , 154, H773	3.9	40
46	Energy storage in composites of a redox couple host and a lithium ion host. <i>Nano Today</i> , 2012 , 7, 168-173	7.9	38
45	Ion-exchange mechanism of layered transition-metal oxides: case study of LiNi _{0.5} Mn _{0.5} O ₂ . <i>Inorganic Chemistry</i> , 2014 , 53, 8083-7	5.1	34
44	Phase control of iridium and iridium oxide thin films in atomic layer deposition. <i>Journal of Applied Physics</i> , 2008 , 103, 023517	2.5	34
43	Improvement of Copper Diffusion Barrier Properties of Tantalum Nitride Films by Incorporating Ruthenium Using PEALD. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H885	3.9	34
42	Comparative study of Li(Li _{1/3} Ti _{5/3})O ₄ and Li(Ni _{1/2} Li _{2x/3} Ti _{x/3})Ti ₃ /2O ₄ (x=1/3) anodes for Li rechargeable batteries. <i>Electrochimica Acta</i> , 2009 , 54, 5914-5918	6.7	31

41	Electrochemical and ex-situ analysis on manganese oxide/graphene hybrid anode for lithium rechargeable batteries. <i>Journal of Materials Research</i> , 2011 , 26, 2665-2671	2.5	31
40	Nano-graphite platelet loaded with LiFePO ₄ nanoparticles used as the cathode in a high performance Li-ion battery. <i>Carbon</i> , 2012 , 50, 1966-1971	10.4	30
39	Electrolytic reduction of a simulated oxide spent fuel and the fates of representative elements in a Li ₂ O-LiCl molten salt. <i>Journal of Nuclear Materials</i> , 2016 , 477, 59-66	3.3	20
38	Carbon anode with repeatable use of LiCl molten salt for electrolytic reduction in pyroprocessing. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 310, 463-467	1.5	18
37	In Situ Tracking Kinetic Pathways of Li/Na Substitution during Ion-Exchange Synthesis of LiNaVOPOF. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12504-12516	16.4	18
36	Improvement of Morphological Stability of PEALD-Iridium Thin Films by Adopting Two-Step Annealing Process. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H303		17
35	A conductive oxide as an O ₂ evolution anode for the electrolytic reduction of metal oxides. <i>Electrochemistry Communications</i> , 2015 , 55, 14-17	5.1	16
34	Electrolytic reduction runs of 0.6 kg scale-simulated oxide fuel in a Li ₂ O-LiCl molten salt using metal anode shrouds. <i>Journal of Nuclear Materials</i> , 2017 , 489, 1-8	3.3	15
33	Production of uranium metal via electrolytic reduction of uranium oxide in molten LiCl and salt distillation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 535-546	1.5	15
32	Factors that Affect the Phase Behavior of Multi-Component Olivine (LiF _x Mn _y Co _{1-x-y} PO ₄ ; 0 . <i>Journal of the Electrochemical Society</i> , 2013 , 160, A444-A448	3.9	15
31	The Effect of Particle Size on Phase Stability of the Delithiated Li _x MnPO ₄ . <i>Journal of the Electrochemical Society</i> , 2011 , 159, A55-A59	3.9	15
30	Reoxidation of uranium metal immersed in a Li ₂ O-LiCl molten salt after electrolytic reduction of uranium oxide. <i>Journal of Nuclear Materials</i> , 2017 , 485, 90-97	3.3	12
29	Use of a single fuel containment material during pyroprocessing tests. <i>Annals of Nuclear Energy</i> , 2015 , 76, 305-314	1.7	10
28	A preliminary study of pilot-scale electrolytic reduction of UO ₂ using a graphite anode. <i>Nuclear Engineering and Technology</i> , 2017 , 49, 1451-1456	2.6	10
27	Invited paper: Preparation and electrochemical characterization of doped spinel LiMn _{1.88} Ge _{0.1} Li _{0.02} O ₄ cathode material. <i>Electronic Materials Letters</i> , 2011 , 7, 105-108	2.9	9
26	Electrochemical properties of noble metal anodes for electrolytic reduction of uranium oxide. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 311, 809-814	1.5	8
25	Hot corrosion behavior of magnesia-stabilized ceramic material in a lithium molten salt. <i>Journal of Nuclear Materials</i> , 2017 , 490, 85-93	3.3	7
24	Evaluation of Pt anode stability in repeated electrochemical oxide reduction reactions for pyroprocessing. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 316, 1053-1058	1.5	7

23	Distillation characteristics of LiCl-Li ₂ O electrolyte for UO ₂ electrolytic reduction process. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 310, 1165-1171	1.5	7
22	Electrolytic reduction rate of porous UO ₂ pellets. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2235-2239	2.3	6
21	Chemical Stability of Conductive Ceramic Anodes in LiCl-Li ₂ O Molten Salt for Electrolytic Reduction in Pyroprocessing. <i>Nuclear Engineering and Technology</i> , 2016 , 48, 997-1001	2.6	6
20	Electrochemical behavior of liquid Sb anode system for electrolytic reduction of UO ₂ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 303, 1041-1046	1.5	6
19	Two Step Annealing of Iridium Thin Films prepared by Plasma-Enhanced Atomic Layer Deposition. <i>ECS Transactions</i> , 2009 , 16, 309-314	1	6
18	Energy storage in in vivo synthesizable biominerals. <i>RSC Advances</i> , 2012 , 2, 5499	3.7	4
17	TiN Anode for Electrolytic Reduction of UO ₂ in Pyroprocessing. <i>Journal of Nuclear Fuel Cycle and Waste Technology</i> , 2015 , 13, 229-233	0.3	4
16	Stability of yttria-stabilized zirconia during pyroprocessing tests. <i>Journal of Nuclear Materials</i> , 2016 , 475, 57-61	3.3	4
15	Electrolytic behavior of SrCl ₂ and BaCl ₂ in LiCl molten salt during oxide reduction in pyroprocessing. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019 , 321, 361-365	1.5	3
14	Chemical behavior of grey phases in LiCl molten salt for oxide reduction in pyroprocessing. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 318, 1923-1930	1.5	3
13	Dilution of Li-Li ₂ O in a metallic fuel produced through oxide reduction using ZrO ₂ -assisted rinsing in molten LiCl. <i>Journal of Nuclear Materials</i> , 2020 , 533, 152107	3.3	2
12	Residual salt separation technique using centrifugal force for pyroprocessing. <i>Nuclear Engineering and Technology</i> , 2018 , 50, 1184-1189	2.6	2
11	Employing high-temperature gas flux in a residual salt separation technique for pyroprocessing. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 1866-1870	2.6	1
10	Electrolytic Reduction of 1 kg-UO ₂ in Li ₂ O-LiCl Molten Salt using Porous Anode Shroud. <i>Journal of the Korean Electrochemical Society</i> , 2015 , 18, 121-129		1
9	Chlorination technique for decontamination of radioactive concrete waste contaminated by Sr. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 328, 195-203	1.5	1
8	Thermodynamic investigation on the behavior of rare earth oxides during electrolytic reduction process. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 317, 1089-1093	1.5	1
7	Recycling of Li(Ni,Co,Mn)O ₂ via a chlorination technique. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 1033-1038	2.8	1
6	Dissolution Behavior of Simulated Spent Nuclear Fuel in LiCl-KCl-UCl ₃ Molten Salt. <i>Science and Technology of Nuclear Installations</i> , 2021 , 2021, 1-6	0.6	0

- 5 Chlorination behavior of LiCoO₂. *Korean Journal of Chemical Engineering*, 2014, 31, 2.8 0
- 4 Probing the Local Chemical and Structural Ordering of Iron Oxyfluoride. *Microscopy and Microanalysis*, 2014, 20, 430-431 0.5
- 3 Electrolytic Reduction Characteristics of Titanium Oxides in a LiCl-Li₂O Molten Salt. *Journal of the Korean Electrochemical Society*, 2015, 18, 156-160
- 2 Electrochemical Behavior of CsI in LiCl Molten Salt. *Science and Technology of Nuclear Installations*, 2020, 2020, 1-6 0.6
- 1 Cesium Removal from Nonexpandable Illite Clay by Chloride Salt Treatment. *ACS Omega*, 2021, 6, 17923-17930