Dong-Hwa Seo

List of Publications by Citations

Source: https://exaly.com/author-pdf/5841667/dong-hwa-seo-publications-by-citations.pdf

Version: 2024-04-09

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.

77 papers 11,920 46 89 g-index

89 13,351 15 6.47 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
77	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
76	The structural and chemical origin of the oxygen redox activity in layered and cation-disordered Li-excess cathode materials. <i>Nature Chemistry</i> , 2016 , 8, 692-7	17.6	713
75	Understanding the Degradation Mechanisms of LiNi0.5Co0.2Mn0.3O2 Cathode Material in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300787	21.8	709
74	Flexible energy storage devices based on graphene paper. <i>Energy and Environmental Science</i> , 2011 , 4, 1277	35.4	497
73	Recent Progress and Perspective in Electrode Materials for K-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702384	21.8	428
72	Galvanic replacement reactions in metal oxide nanocrystals. <i>Science</i> , 2013 , 340, 964-8	33.3	421
71	A new high-energy cathode for a Na-ion battery with ultrahigh stability. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13870-8	16.4	343
70	Highly reversible Co3O4/graphene hybrid anode for lithium rechargeable batteries. <i>Carbon</i> , 2011 , 49, 326-332	10.4	327
69	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
68	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 538-551	35.4	314
67	Computational understanding of Li-ion batteries. Npj Computational Materials, 2016, 2,	10.9	299
66	Toward a lithium-"air" battery: the effect of CO2 on the chemistry of a lithium-oxygen cell. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9733-42	16.4	262
65	A combined first principles and experimental study on Na3V2(PO4)2F3 for rechargeable Na batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20535		253
64	Fabrication of FeF3 Nanoflowers on CNT branches and their application to high power lithium rechargeable batteries. <i>Advanced Materials</i> , 2010 , 22, 5260-4	24	242
63	Unexpected discovery of low-cost maricite NaFePO4 as a high-performance electrode for Na-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 540-545	35.4	236
62	A Family of High-Performance Cathode Materials for Na-ion Batteries, Na3(VO1NPO4)2 F1+2x (0 \(\text{\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$	-465:4	206
61	Investigation of Potassium Storage in Layered P3-Type K MnO Cathode. <i>Advanced Materials</i> , 2017 , 29, 1702480	24	197

(2010-2012)

60	Ab Initio Study of the Sodium Intercalation and Intermediate Phases in Na0.44MnO2 for Sodium-Ion Battery. <i>Chemistry of Materials</i> , 2012 , 24, 1205-1211	9.6	195
59	Biologically inspired pteridine redox centres for rechargeable batteries. <i>Nature Communications</i> , 2014 , 5, 5335	17.4	188
58	Structural evolution of layered Li1.2Ni0.2Mn0.6O2 upon electrochemical cycling in a Li rechargeable battery. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10179		184
57	Metal-oxygen decoordination stabilizes anion redox in Li-rich oxides. <i>Nature Materials</i> , 2019 , 18, 256-2	65 ₂₇	178
56	SnO2/graphene composite with high lithium storage capability for lithium rechargeable batteries. <i>Nano Research</i> , 2010 , 3, 813-821	10	171
55	A new class of high capacity cation-disordered oxides for rechargeable lithium batteries: LiNiIIiMo oxides. <i>Energy and Environmental Science</i> , 2015 , 8, 3255-3265	35.4	169
54	Electrochemical performance and ex situ analysis of ZnMn2O4 nanowires as anode materials for lithium rechargeable batteries. <i>Nano Research</i> , 2011 , 4, 505-510	10	154
53	Multicomponent Effects on the Crystal Structures and Electrochemical Properties of Spinel-Structured M3O4 (M = Fe, Mn, Co) Anodes in Lithium Rechargeable Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 720-725	9.6	122
52	A disordered rock-salt Li-excess cathode material with high capacity and substantial oxygen redox activity: Li1.25Nb0.25Mn0.5O2. <i>Electrochemistry Communications</i> , 2015 , 60, 70-73	5.1	115
51	Redox cofactor from biological energy transduction as molecularly tunable energy-storage compound. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8322-8	16.4	113
50	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
49	Ternary metal fluorides as high-energy cathodes with low cycling hysteresis. <i>Nature Communications</i> , 2015 , 6, 6668	17.4	104
48	Calibrating transition-metal energy levels and oxygen bands in first-principles calculations: Accurate prediction of redox potentials and charge transfer in lithium transition-metal oxides. <i>Physical Review B</i> , 2015 , 92,	3.3	98
47	Kinetic pathways of ionic transport in fast-charging lithium titanate. <i>Science</i> , 2020 , 367, 1030-1034	33.3	95
46	A New Strategy for High-Voltage Cathodes for K-Ion Batteries: Stoichiometric KVPO4F. <i>Advanced Energy Materials</i> , 2018 , 8, 1801591	21.8	90
45	A comparative study on Na2MnPO4F and Li2MnPO4F for rechargeable battery cathodes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3299-303	3.6	87
44	First-Principles Study of the Reaction Mechanism in Sodium®xygen Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 1048-1055	9.6	82
43	Multicomponent Olivine Cathode for Lithium Rechargeable Batteries: A First-Principles Study. <i>Chemistry of Materials</i> , 2010 , 22, 518-523	9.6	81

42	Scalable functionalized graphene nano-platelets as tunable cathodes for high-performance lithium rechargeable batteries. <i>Scientific Reports</i> , 2013 , 3, 1506	4.9	79
41	Tailored Oxygen Framework of Li4Ti5O12 Nanorods for High-Power Li Ion Battery. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1368-73	6.4	74
40	Mn based olivine electrode material with high power and energy. <i>Chemical Communications</i> , 2010 , 46, 1305-7	5.8	73
39	Tailoring a fluorophosphate as a novel 4 V cathode for lithium-ion batteries. <i>Scientific Reports</i> , 2012 , 2, 704	4.9	73
38	Stoichiometric Layered Potassium Transition Metal Oxide for Rechargeable Potassium Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 6532-6539	9.6	73
37	The Reaction Mechanism and Capacity Degradation Model in Lithium Insertion Organic Cathodes, Li2C6O6, Using Combined Experimental and First Principle Studies. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3086-92	6.4	71
36	Simple preparation of high-quality graphene flakes without oxidation using potassium salts. <i>Small</i> , 2011 , 7, 864-8	11	65
35	First-principles study on lithium metal borate cathodes for lithium rechargeable batteries. <i>Physical Review B</i> , 2011 , 83,	3.3	61
34	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
33	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. <i>Chemistry of Materials</i> , 2015 , 27, 2067-2073	9.6	50
32	A High-Energy NASICON-Type Cathode Material for Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903968	21.8	50
31	Electrochemical properties and structural evolution of O3-type layered sodium mixed transition metal oxides with trivalent nickel. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4596-4606	13	46
30	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
29	Energy storage in composites of a redox couple host and a lithium ion host. <i>Nano Today</i> , 2012 , 7, 168-17	73 7.9	38
28	The predicted crystal structure of Li4C6O6, an organic cathode material for Li-ion batteries, from first-principles multi-level computational methods. <i>Energy and Environmental Science</i> , 2011 , 4, 4938	35.4	38
27	Polymorphism and phase transformations of Li2\(\text{\mathbb{R}}\)FeSiO4 (0?x?2) from first principles. <i>Physical Review B</i> , 2011 , 84,	3.3	34
26	Transition metal-doped Ni-rich layered cathode materials for durable Li-ion batteries. <i>Nature Communications</i> , 2021 , 12, 6552	17.4	28
25	Theoretical capacity achieved in a LiMn0.5Fe0.4Mg0.1BO3 cathode by using topological disorder. Energy and Environmental Science, 2015 , 8, 1790-1798	35.4	27

(2022-2015)

24	The Effect of Antisite Disorder and Particle Size on Li Intercalation Kinetics in Monoclinic LiMnBO3. <i>Advanced Energy Materials</i> , 2015 , 5, 1401916	21.8	24	
23	Redox Cofactor from Biological Energy Transduction as Molecularly Tunable Energy-Storage Compound. <i>Angewandte Chemie</i> , 2013 , 125, 8480-8486	3.6	22	
22	First-Principles Design of Hydrogen Dissociation Catalysts Based on Isoelectronic Metal Solid Solutions. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1819-24	6.4	21	
21	Molecular Dynamics Simulation of the Diffusion of Au and Pt Nanoclusters on Carbon Nanotubes. Journal of Physical Chemistry C, 2009 , 113, 10416-10421	3.8	18	
20	Direct Observation of Alternating Octahedral and Prismatic Sodium Layers in O3-Type Transition Metal Oxides. <i>Advanced Energy Materials</i> , 2020 , 10, 2001151	21.8	16	
19	Factors that Affect the Phase Behavior of Multi-Component Olivine (LiFexMnyCo1-x-yPO4; 0 . <i>Journal of the Electrochemical Society</i> , 2013 , 160, A444-A448	3.9	15	
18	The Effect of Particle Size on Phase Stability of the Delithiated LixMnPO4. <i>Journal of the Electrochemical Society</i> , 2011 , 159, A55-A59	3.9	15	
17	Immobilization of Au Nanoclusters Supported on Graphite: Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2010 , 114, 2022-2026	3.8	13	
16	Mixed IonicElectronic Conductor of Perovskite LixLayMO3II toward Carbon-Free Cathode for Reversible Lithium Air Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001767	21.8	13	
15	Ni-stabilizing additives for completion of Ni-rich layered cathode systems in lithium-ion batteries: An Ab initio study. <i>Journal of Power Sources</i> , 2019 , 418, 74-83	8.9	12	
14	Molecular dynamics simulations of the diffusion and rotation of Pt nanoclusters supported on graphite. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 503-7	3.6	11	
13	Intrinsic Nanodomains in Triplite LiFeSO4F and Its Implication in Lithium-Ion Diffusion. <i>Advanced Energy Materials</i> , 2018 , 8, 1701408	21.8	10	
12	Invited paper: Preparation and electrochemical characterization of doped spinel LiMn1.88Ge0.1Li0.02O4 cathode material. <i>Electronic Materials Letters</i> , 2011 , 7, 105-108	2.9	9	
11	Lattice-Oxygen-Stabilized Li- and Mn-Rich Cathodes with Sub-Micrometer Particles by Modifying the Excess-Li Distribution. <i>Advanced Materials</i> , 2021 , 33, e2100352	24	8	
10	Determining the Criticality of Li-Excess for Disordered-Rocksalt Li-Ion Battery Cathodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2100204	21.8	8	
9	Toward high-energy Mn-based disordered-rocksalt Li-ion cathodes. <i>Joule</i> , 2022 , 6, 53-91	27.8	7	
8	Revealing the structural degradation mechanism of the Ni-rich cathode surface: How thick is the surface?. <i>Journal of Power Sources</i> , 2021 , 490, 229542	8.9	4	
7	Carbon-free high-performance cathode for solid-state Li-O battery <i>Science Advances</i> , 2022 , 8, eabm858	B 4 4.3	4	

6	Alkali-Metal-Mediated Reversible Chemical Hydrogen Storage Using Seawater <i>Jacs Au</i> , 2021 , 1, 2339	-2348	2
5	Titelbild: Redox Cofactor from Biological Energy Transduction as Molecularly Tunable Energy-Storage Compound (Angew. Chem. 32/2013). <i>Angewandte Chemie</i> , 2013 , 125, 8329-8329	3.6	1
4	Abnormally High-Lithium Storage in Pure Crystalline C Nanoparticles. Advanced Materials, 2021 , 33, ex	2102476	3 1
3	Bonding dependent lithium storage behavior of molybdenum oxides for next-generation Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7718-7727	13	1
2	Investigation of Ordering on Oxygen-Deficient LiNi Mn O Thin Films for Boosting Electrochemical Performance in All-Solid-State Thin-Film Batteries <i>Small</i> , 2022 , e2201134	11	1
1	Abnormally High-Lithium Storage in Pure Crystalline C60 Nanoparticles (Adv. Mater. 43/2021). Advanced Materials, 2021 , 33, 2170343	24	Ο