

Deok-Hwang Kwon

List of Publications by Year in Descending Order

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

32
papers

3,206
citations

16
h-index

33
g-index

33
ext. papers

3,727
ext. citations

13.8
avg, IF

4.91
L-index

#	Paper	IF	Citations
32	Understanding the Behavior of Oxygen Vacancies in an SrFeOx/Nb:SrTiO3 Memristor. <i>Electronic Materials Letters</i> , 2022 , 18, 168	2.9	
31	Realizing continuous cation order-to-disorder tuning in a class of high-energy spinel-type Li-ion cathodes. <i>Matter</i> , 2021 ,	12.7	6
30	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. <i>Nature Materials</i> , 2021 , 20, 214-221	27	90
29	The Impact of Surface Structure Transformations on the Performance of Li-Excess Cation-Disordered Rocksalt Cathodes. <i>Cell Reports Physical Science</i> , 2020 , 1, 100187	6.1	8
28	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. <i>Nature Energy</i> , 2020 , 5, 213-221	62.3	91
27	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
26	Na+ Redistribution by Electrochemical Na+/K+ Exchange in Layered NaxNi2SbO6. <i>Chemistry of Materials</i> , 2020 , 32, 4312-4323	9.6	10
25	In situ observations of topotactic phase transitions in a ferrite memristor. <i>Journal of Applied Physics</i> , 2020 , 128, 074501	2.5	5
24	Design Principles for High-Capacity Mn-Based Cation-Disordered Rocksalt Cathodes. <i>CheM</i> , 2020 , 6, 153-168	16.8	54
23	Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO Resistive Switching Memories. <i>Advanced Materials</i> , 2019 , 31, e1901322	24	25
22	Computational Investigation and Experimental Realization of Disordered High-Capacity Li-Ion Cathodes Based on Ni Redox. <i>Chemistry of Materials</i> , 2019 , 31, 2431-2442	9.6	30
21	Hidden structural and chemical order controls lithium transport in cation-disordered oxides for rechargeable batteries. <i>Nature Communications</i> , 2019 , 10, 592	17.4	87
20	Resistive Switching: Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO3 Resistive Switching Memories (Adv. Mater. 28/2019). <i>Advanced Materials</i> , 2019 , 31, 1970205	24	1
19	Synaptic devices based on two-dimensional layered single-crystal chromium thiophosphate (CrPS4). <i>NPG Asia Materials</i> , 2018 , 10, 23-30	10.3	35
18	Reversible Mn/Mn double redox in lithium-excess cathode materials. <i>Nature</i> , 2018 , 556, 185-190	50.4	376
17	Shear-Assisted Formation of Cation-Disordered Rocksalt NaMO2 (M = Fe or Mn). <i>Chemistry of Materials</i> , 2018 , 30, 8811-8821	9.6	12
16	Stoichiometric Layered Potassium Transition Metal Oxide for Rechargeable Potassium Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 6532-6539	9.6	73

15	Design principles for high transition metal capacity in disordered rocksalt Li-ion cathodes. <i>Energy and Environmental Science</i> , 2018 , 11, 2159-2171	35.4	81
14	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
13	Observation of the Ni2O3 phase in a NiO thin-film resistive switching system. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700048	2.5	6
12	K-Ion Batteries Based on a P2-Type K0.6CoO2 Cathode. <i>Advanced Energy Materials</i> , 2017 , 7, 1700098	21.8	208
11	Mitigating oxygen loss to improve the cycling performance of high capacity cation-disordered cathode materials. <i>Nature Communications</i> , 2017 , 8, 981	17.4	136
10	Epitaxial Brownmillerite Oxide Thin Films for Reliable Switching Memory. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7902-11	9.5	48
9	Role of oxygen vacancies in resistive switching in Pt/Nb-doped SrTiO3. <i>Applied Physics Letters</i> , 2014 , 105, 183103	3.4	42
8	Variation of switching mechanism in TiO2 thin film resistive random access memory with Ag and graphene electrodes. <i>Microelectronic Engineering</i> , 2013 , 104, 42-47	2.5	15
7	Electrically Driven Diffraction Grating Designed for Visible-Wavelength Region. <i>IEEE Electron Device Letters</i> , 2013 , 34, 84-86	4.4	2
6	Avoiding fatal damage to the top electrodes when forming unipolar resistance switching in nano-thick material systems. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 255101	3	5
5	Atomic structure of conducting nanofilaments in TiO2 resistive switching memory. <i>Nature Nanotechnology</i> , 2010 , 5, 148-53	28.7	1672
4	Investigation of Interface Formed between Top Electrodes and Epitaxial NiO Films for Bipolar Resistance Switching. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 031102	1.4	16
3	(Invited) Identity of the Conducting Nanofilaments in TiO2 and the Resistance Switching Mechanism of TiO2/NiO Stacked Layers. <i>ECS Transactions</i> , 2010 , 33, 291-298	1	
2	Spontaneous formation of Ge nanocrystals with the capping layer of Si3N4 by N2+ implantation and rapid thermal annealing. <i>Thin Solid Films</i> , 2010 , 518, 6010-6014	2.2	3
1	Direct Observation of Conducting Paths in TiO2 Thin Film by Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2009 , 15, 996-997	0.5	7