Deok-Hwang Kwon

List of Publications by Year in descending order

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		394421	434195
33	4,312	19	31
papers	citations	h-index	g-index
33	33	33	5767
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Understanding the Behavior of Oxygen Vacancies in an SrFeOx/Nb:SrTiO3 Memristor. Electronic Materials Letters, 2022, 18, 168-175.	2.2	2
2	Improved strontium segregation suppression of lanthanum strontium cobalt oxide cathode via chemical etching and atomic layer deposition. International Journal of Energy Research, 2022, 46, 12467-12475.	4.5	2
3	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. Nature Materials, 2021, 20, 214-221.	27.5	290
4	Realizing continuous cation order-to-disorder tuning in a class of high-energy spinel-type Li-ion cathodes. Matter, 2021, 4, 3897-3916.	10.0	32
5	Design Principles for High-Capacity Mn-Based Cation-Disordered Rocksalt Cathodes. CheM, 2020, 6, 153-168.	11.7	103
6	In situ observations of topotactic phase transitions in a ferrite memristor. Journal of Applied Physics, 2020, 128, 074501.	2.5	14
7	The Impact of Surface Structure Transformations on the Performance of Li-Excess Cation-Disordered Rocksalt Cathodes. Cell Reports Physical Science, 2020, 1, 100187.	5.6	20
8	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. Nature Energy, 2020, 5, 213-221.	39.5	158
9	Direct Observation of Alternating Octahedral and Prismatic Sodium Layers in O3â€Type Transition Metal Oxides. Advanced Energy Materials, 2020, 10, 2001151.	19.5	39
10	Na ⁺ Redistribution by Electrochemical Na ⁺ /K ⁺ Exchange in Layered Na _{<i>x</i>} Ni ₂ SbO ₆ . Chemistry of Materials, 2020, 32, 4312-4323.	6.7	14
11	Resistive Switching: Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO ₃ Resistive Switching Memories (Adv. Mater. 28/2019). Advanced Materials, 2019, 31, 1970205.	21.0	2
12	Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO ₃ Resistive Switching Memories. Advanced Materials, 2019, 31, e1901322.	21.0	38
13	Computational Investigation and Experimental Realization of Disordered High-Capacity Li-Ion Cathodes Based on Ni Redox. Chemistry of Materials, 2019, 31, 2431-2442.	6.7	50
14	Hidden structural and chemical order controls lithium transport in cation-disordered oxides for rechargeable batteries. Nature Communications, 2019, 10, 592.	12.8	162
15	Synaptic devices based on two-dimensional layered single-crystal chromium thiophosphate (CrPS4). NPG Asia Materials, 2018, 10, 23-30.	7.9	48
16	Reversible Mn2+/Mn4+ double redox in lithium-excess cathode materials. Nature, 2018, 556, 185-190.	27.8	525
17	Shear-Assisted Formation of Cation-Disordered Rocksalt NaMO ₂ (M = Fe or Mn). Chemistry of Materials, 2018, 30, 8811-8821.	6.7	17
18	Stoichiometric Layered Potassium Transition Metal Oxide for Rechargeable Potassium Batteries. Chemistry of Materials, 2018, 30, 6532-6539.	6.7	108

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#	Article	IF	CITATIONS
19	Design principles for high transition metal capacity in disordered rocksalt Li-ion cathodes. Energy and Environmental Science, 2018, 11, 2159-2171.	30.8	123
20	Electrochemical properties and structural evolution of O3-type layered sodium mixed transition metal oxides with trivalent nickel. Journal of Materials Chemistry A, 2017, 5, 4596-4606.	10.3	63
21	Observation of the Ni ₂ O ₃ phase in a NiO thinâ€film resistive switching system. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700048.	2.4	9
22	Kâ€lon Batteries Based on a P2â€Type K _{0.6} CoO ₂ Cathode. Advanced Energy Materials, 2017, 7, 1700098.	19.5	250
23	Mitigating oxygen loss to improve the cycling performance of high capacity cation-disordered cathode materials. Nature Communications, 2017, 8, 981.	12.8	197
24	Epitaxial Brownmillerite Oxide Thin Films for Reliable Switching Memory. ACS Applied Materials & Interfaces, 2016, 8, 7902-7911.	8.0	72
25	Role of oxygen vacancies in resistive switching in Pt/Nb-doped SrTiO3. Applied Physics Letters, 2014, 105,	3.3	49
26	Variation of switching mechanism in TiO2 thin film resistive random access memory with Ag and graphene electrodes. Microelectronic Engineering, 2013, 104, 42-47.	2.4	20
27	Electrically Driven Diffraction Grating Designed for Visible-Wavelength Region. IEEE Electron Device Letters, 2013, 34, 84-86.	3.9	3
28	Avoiding fatal damage to the top electrodes when forming unipolar resistance switching in nano-thick material systems. Journal Physics D: Applied Physics, 2012, 45, 255101.	2.8	7
29	Spontaneous formation of Ge nanocrystals with the capping layer of Si3N4 by N2+ implantation and rapid thermal annealing. Thin Solid Films, 2010, 518, 6010-6014.	1.8	3
30	Atomic structure of conducting nanofilaments in TiO2 resistive switching memory. Nature Nanotechnology, 2010, 5, 148-153.	31.5	1,866
31	Investigation of Interface Formed between Top Electrodes and Epitaxial NiO Films for Bipolar Resistance Switching. Japanese Journal of Applied Physics, 2010, 49, 031102.	1.5	19
32	(Invited) Identity of the Conducting Nanofilaments in TiO2 and the Resistance Switching Mechanism of TiO2/NiO Stacked Layers. ECS Transactions, 2010, 33, 291-298.	0.5	0
33	Direct Observation of Conducting Paths in TiO2 Thin Film by Transmission Electron Microscopy. Microscopy and Microanalysis, 2009, 15, 996-997.	0.4	7