

Jae Jin Kim

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,343
citations

430874

18
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610901

24
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docs citations

24
times ranked

2446
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Zn Insertion into Nanostructured δ -MnO ₂ : A Nonaqueous Rechargeable Zn Metal Battery. <i>Chemistry of Materials</i> , 2017, 29, 4874-4884.	6.7	225
2	Impact of Sr segregation on the electronic structure and oxygen reduction activity of SrTi _{1-x} FexO ₃ surfaces. <i>Energy and Environmental Science</i> , 2012, 5, 7979.	30.8	179
3	Electrospun Polyaniline Fibers as Highly Sensitive Room Temperature Chemiresistive Sensors for Ammonia and Nitrogen Dioxide Gases. <i>Advanced Functional Materials</i> , 2014, 24, 4005-4014.	14.9	170
4	Coaxial electrospinning of WO ₃ nanotubes functionalized with bio-inspired Pd catalysts and their superior hydrogen sensing performance. <i>Nanoscale</i> , 2016, 8, 9159-9166.	5.6	139
5	Vertically aligned nanocomposite La _{0.8} Sr _{0.2} CoO ₃ /(La _{0.5} Sr _{0.5}) ₂ CoO ₄ cathodes – electronic structure, surface chemistry and oxygen reduction kinetics. <i>Journal of Materials Chemistry A</i> , 2015, 3, 207-219.	10.3	76
6	Dendritic Ir(III) complexes functionalized with triphenylsilylphenyl groups: Synthesis, DFT calculation and comprehensive structure-property correlation. <i>Journal of Materials Chemistry</i> , 2009, 19, 8347.	6.7	58
7	Oxygen Nonstoichiometry and Defect Chemistry of Perovskite-Structured Ba _x Sr _{1-x} Ti _{1-y} Fe _y O _{3-δ} Solid Solutions. <i>Chemistry of Materials</i> , 2013, 25, 2970-2975.	6.7	28
8	Strongly coupled thermal and chemical expansion in the perovskite oxide system Sr(Ti,Fe)O _{3-δ} . <i>Journal of Materials Chemistry A</i> , 2015, 3, 3602-3611.	10.3	48
9	Gas sensing behavior of electrospun nickel oxide nanofibers: Effect of morphology and microstructure. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 54-64.	7.8	47
10	Dynamic chemical expansion of thin-film non-stoichiometric oxides at extreme temperatures. <i>Nature Materials</i> , 2017, 16, 749-754.	27.5	46
11	Investigation of nanoporous platinum thin films fabricated by reactive sputtering: Application as micro-SOFC electrode. <i>Journal of Power Sources</i> , 2015, 275, 860-865.	7.8	43
12	Investigation of Nonstoichiometry in Oxide Thin Films by Simultaneous <i>In Situ</i> Optical Absorption and Chemical Capacitance Measurements: Pr-Doped Ceria, a Case Study. <i>Chemistry of Materials</i> , 2014, 26, 1374-1379.	6.7	41
13	Molecular Design of a Highly Stable Single-Ion Conducting Polymer Gel Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29162-29172.	8.0	38
14	Defect Chemistry of Pr Doped Ceria Thin Films Investigated by <i>In Situ</i> Optical and Impedance Measurements. <i>Chemistry of Materials</i> , 2017, 29, 1999-2007.	6.7	27
15	Optically derived energy band gap states of Pr in ceria. <i>Solid State Ionics</i> , 2012, 225, 198-200.	2.7	26
16	Mechanistic understanding of tungsten oxide in-plane nanostructure growth <i>via</i> sequential infiltration synthesis. <i>Nanoscale</i> , 2018, 10, 3469-3479.	5.6	25
17	Operando reduction of elastic modulus in (Pr, Ce)O _{2-δ} thin films. <i>Acta Materialia</i> , 2016, 105, 16-24.	7.9	24
18	Oxygen surface exchange kinetics measurement by simultaneous optical transmission relaxation and impedance spectroscopy: Sr(Ti,Fe)O _{3-x} thin film case study. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 130-141.	6.1	21

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19	A Three Component Self-Assembled Epitaxial Nanocomposite Thin Film. <i>Advanced Functional Materials</i> , 2015, 25, 3091-3100.	14.9	20
20	Cathodic and defect properties of $BaxSr_{1-x}Ti_{1-y}FeyO_{3+y/2}$ mixed conducting oxides. <i>Solid State Ionics</i> , 2013, 230, 2-6.	2.7	13
21	Tailoring Interfaces in Solid-State Batteries Using Interfacial Thermochemistry and Band Alignment. <i>Chemistry of Materials</i> , 2021, 33, 8447-8459.	6.7	7
22	Structural Changes during the Conversion Reaction of Tungsten Oxide Electrodes with Tailored, Mesoscale Porosity. <i>ACS Nano</i> , 2022, 16, 5384-5392.	14.6	6
23	Facile Electrochemical Mg-Ion Transport in a Defect-Free Spinel Oxide. <i>Chemistry of Materials</i> , 2022, 34, 3789-3797.	6.7	5
24	Understanding the Solid-State Electrode-Electrolyte Interface of a Model System Using First-Principles Statistical Mechanics and Thin-Film X-ray Characterization. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7428-7439.	8.0	1