

Jae Jin Kim

List of Publications by Year in descending order

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papers

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2446
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Solid-State Electrode–Electrolyte Interface of a Model System Using First-Principles Statistical Mechanics and Thin-Film X-ray Characterization. ACS Applied Materials & Interfaces, 2022, 14, 7428-7439.	8.0	1
2	Structural Changes during the Conversion Reaction of Tungsten Oxide Electrodes with Tailored, Mesoscale Porosity. ACS Nano, 2022, 16, 5384-5392.	14.6	6
3	Facile Electrochemical Mg-Ion Transport in a Defect-Free Spinel Oxide. Chemistry of Materials, 2022, 34, 3789-3797.	6.7	5
4	Tailoring Interfaces in Solid-State Batteries Using Interfacial Thermochemistry and Band Alignment. Chemistry of Materials, 2021, 33, 8447-8459.	6.7	7
5	Molecular Design of a Highly Stable Single-Ion Conducting Polymer Gel Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 29162-29172.	8.0	38
6	Mechanistic understanding of tungsten oxide in-plane nanostructure growth <i>via</i> sequential infiltration synthesis. Nanoscale, 2018, 10, 3469-3479.	5.6	25
7	Oxygen surface exchange kinetics measurement by simultaneous optical transmission relaxation and impedance spectroscopy: Sr(Ti,Fe)O _{3-x} thin film case study. Science and Technology of Advanced Materials, 2018, 19, 130-141.	6.1	21
8	Defect Chemistry of Pr Doped Ceria Thin Films Investigated by <i>In Situ</i> Optical and Impedance Measurements. Chemistry of Materials, 2017, 29, 1999-2007.	6.7	27
9	Mechanism of Zn Insertion into Nanostructured δ -MnO ₂ : A Nonaqueous Rechargeable Zn Metal Battery. Chemistry of Materials, 2017, 29, 4874-4884.	6.7	225
10	Dynamic chemical expansion of thin-film non-stoichiometric oxides at extreme temperatures. Nature Materials, 2017, 16, 749-754.	27.5	46
11	Operando reduction of elastic modulus in (Pr, Ce)O ₂ ^δ thin films. Acta Materialia, 2016, 105, 16-24.	7.9	24
12	Coaxial electrospinning of WO ₃ nanotubes functionalized with bio-inspired Pd catalysts and their superior hydrogen sensing performance. Nanoscale, 2016, 8, 9159-9166.	5.6	139
13	Gas sensing behavior of electrospun nickel oxide nanofibers: Effect of morphology and microstructure. Sensors and Actuators B: Chemical, 2016, 227, 54-64.	7.8	47
14	A Three Component Self-Assembled Epitaxial Nanocomposite Thin Film. Advanced Functional Materials, 2015, 25, 3091-3100.	14.9	20
15	Strongly coupled thermal and chemical expansion in the perovskite oxide system Sr(Ti,Fe)O ₃ ^δ . Journal of Materials Chemistry A, 2015, 3, 3602-3611.	10.3	48
16	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. Journal of Materials Chemistry A, 2015, 3, 207-219.	10.3	76
17	Investigation of nanoporous platinum thin films fabricated by reactive sputtering: Application as micro-SOFC electrode. Journal of Power Sources, 2015, 275, 860-865.	7.8	43
18	Electrospun Polyaniline Fibers as Highly Sensitive Room Temperature Chemiresistive Sensors for Ammonia and Nitrogen Dioxide Gases. Advanced Functional Materials, 2014, 24, 4005-4014.	14.9	170

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19	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
20	Cathodic and defect properties of $BaxSr_{1-x}Ti_{1-y}Fe_yO_{3+y/2+\delta}$ mixed conducting oxides. <i>Solid State Ionics</i> , 2013, 230, 2-6.	2.7	13
21	Oxygen Nonstoichiometry and Defect Chemistry of Perovskite-Structured $Ba_xSr_{1-x}Ti_{1-y}Fe_yO_{3+y/2+\delta}$ Solid Solutions. <i>Chemistry of Materials</i> , 2013, 25, 2970-2975.	6.7	28
22	Optically derived energy band gap states of Pr in ceria. <i>Solid State Ionics</i> , 2012, 225, 198-200.	2.7	26
23	Impact of Sr segregation on the electronic structure and oxygen reduction activity of $SrTi_{1-x}Fe_xO_3$ surfaces. <i>Energy and Environmental Science</i> , 2012, 5, 7979.	30.8	179
24	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