

Seo Hyoung Chang

List of Publications by Year in descending order

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35
papers

2,028
citations

430754

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360920

35
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docs citations

38
times ranked

3519
citing authors

#	ARTICLE	IF	CITATIONS
1	Activity- ϵ Stability Trends for the Oxygen Evolution Reaction on Monometallic Oxides in Acidic Environments. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2474-2478.	2.1	569
2	Random Circuit Breaker Network Model for Unipolar Resistance Switching. <i>Advanced Materials</i> , 2008, 20, 1154-1159.	11.1	330
3	Functional links between stability and reactivity of strontium ruthenate single crystals during oxygen evolution. <i>Nature Communications</i> , 2014, 5, 4191.	5.8	252
4	Oxide Double-Layer Nanocrossbar for Ultrahigh-Density Bipolar Resistive Memory. <i>Advanced Materials</i> , 2011, 23, 4063-4067.	11.1	108
5	Thickness-dependent structural phase transition of strained SrRuO ₃ ultrathin films: The role of octahedral tilt. <i>Physical Review B</i> , 2011, 84, .	1.1	94
6	Activity- ϵ stability relationship in the surface electrochemistry of the oxygen evolution reaction. <i>Faraday Discussions</i> , 2014, 176, 125-133.	1.6	83
7	Enhanced electrocatalytic activity via phase transitions in strongly correlated SrRuO ₃ thin films. <i>Energy and Environmental Science</i> , 2017, 10, 924-930.	15.6	82
8	Selective electrocatalysis imparted by metal-insulator transition for durability enhancement of automotive fuel cells. <i>Nature Catalysis</i> , 2020, 3, 639-648.	16.1	79
9	Interface Control of Ferroelectricity in an SrRuO ₃ /BaTiO ₃ /SrRuO ₃ Capacitor and its Critical Thickness. <i>Advanced Materials</i> , 2017, 29, 1602795.	11.1	57
10	Temperature Evolution of Itinerant Ferromagnetism in SrRuO ₃ Probed by Optical Spectroscopy. <i>Physical Review Letters</i> , 2013, 110, 247202.	2.9	38
11	X-ray Irradiation Induced Reversible Resistance Change in Pt/TiO ₂ /Pt Cells. <i>ACS Nano</i> , 2014, 8, 1584-1589.	7.3	32
12	Direct experimental observation of the molecular J _{eff} = 3/2 ground state in the lacunar spinel GaTa ₄ Se ₈ . <i>Nature Communications</i> , 2017, 8, 782.	5.8	30
13	Oxygen Vacancy Engineering for Highly Tunable Ferromagnetic Properties: A Case of SrRuO ₃ Ultrathin Film with a SrTiO ₃ Capping Layer. <i>Advanced Functional Materials</i> , 2020, 30, 2001486.	7.8	26
14	Modulating Curie Temperature and Magnetic Anisotropy in Nanoscale-Layered Cr ₂ Te ₃ Films: Implications for Room-Temperature Spintronics. <i>ACS Applied Nano Materials</i> , 2021, 4, 4810-4819.	2.4	25
15	Polarity-driven oxygen vacancy formation in ultrathin LaNiO ₃ films on SrTiO ₃ . <i>Physical Review Materials</i> , 2017, 1, .	0.9	25
16	Engineering 1D Quantum Stripes from Superlattices of 2D Layered Materials. <i>Advanced Materials</i> , 2017, 29, 1603798.	11.1	22
17	Correlated Magnetic Weyl Semimetal State in Strained Pr ₂ Ir ₂ O ₇ . <i>Advanced Materials</i> , 2021, 33, e2008528.	11.1	21
18	Stable humplike Hall effect and noncoplanar spin textures in SrRuO ₃ ultrathin films. <i>Physical Review Research</i> , 2021, 3, .	11.1	16

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19	Superconducting Sr ₂ RuO ₄ Thin Films without Out-of-Phase Boundaries by Higher-Order Ruddlesden-Popper Intergrowth. <i>Nano Letters</i> , 2021, 21, 4185-4192.	4.5	13
20	Oxygen Partial Pressure during Pulsed Laser Deposition: Deterministic Role on Thermodynamic Stability of Atomic Termination Sequence at SrRuO ₃ /BaTiO ₃ Interface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27305-27312.	4.0	12
21	Correlation between Ru ^{4d} hybridization and the oxygen evolution reaction in ruthenate epitaxial thin films. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2867-2872.	0.9	8
22	In operando studies of CO oxidation on epitaxial SrCoO _{2.5} + δ thin films. <i>APL Materials</i> , 2019, 7, .	2.2	5
23	Confined polaronic transport in (LaFeO ₃) _n /(SrFeO ₃) ₁ superlattices. <i>APL Materials</i> , 2019, 7, .	2.2	5
24	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54466-54475.	4.0	5
25	metallic phase and unconventional superconductivity in GaTa ₄ . <i>Physical Review B</i> , 2021, 103, .	1.1	4
26	Experimental Verification of Ir 5d Orbital States and Atomic Structures in Highly Active Amorphous Iridium Oxide Catalysts. <i>ACS Catalysis</i> , 2021, 11, 10084-10094.	5.5	4
27	Structural and Optical Properties of Epitaxial Iron Oxide Thin Films Deposited by Pulsed Laser Deposition. <i>Journal of the Korean Physical Society</i> , 2020, 76, 512-516.	0.3	3
28	Tunable Two-Channel Magnetotransport in SrRuO ₃ Ultrathin Films Achieved by Controlling the Kinetics of Heterostructure Deposition. <i>Advanced Electronic Materials</i> , 2022, 8, 2100804.	2.6	3
29	Quasihydrostatic versus nonhydrostatic pressure effects on the electrical properties of NiPS ₃ . <i>Physical Review Materials</i> , 2021, 5, .	0.3	1
30	Understanding the transition between memory and threshold switching due to the compliance current. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1420-1423.	0.3	1
31	Structural, vibrational and band gap tunability of lead-free (1-x)NaBiTO ₃ -xBiMnO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18508-18514.	1.1	1
32	Nanoscale antiferromagnetic domain imaging using full-field resonant x-ray magnetic diffraction microscopy. <i>Advanced Materials</i> , 2022, , 2200639.	11.1	1
33	Frontispiece: Using Surface Segregation To Design Stable Ru-Ir Oxides for the Oxygen Evolution Reaction in Acidic Environments. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	7.2	0
34	Superconducting antimonates. <i>Nature Materials</i> , 2022, 21, 612-613.	13.3	0