

Seunghun Lee

List of Publications by Year in descending order

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53
papers

908
citations

471371

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docs citations

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times ranked

1662
citing authors

#	ARTICLE	IF	CITATIONS
1	Side reaction in the hydrogen and carbothermal reductions of BaO and BaCO ₃ : The role of an infinitesimal amount of water. <i>Current Applied Physics</i> , 2022, 34, 19-23.	1.1	1
2	Graphene for Nanobiosensors and Nanobiochips. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1351, 203-232.	0.8	1
3	Strong lithium-polysulfide anchoring effect of amorphous carbon for lithium-sulfur batteries. <i>Current Applied Physics</i> , 2021, 22, 94-103.	1.1	6
4	Combinatorial synthesis of non-stoichiometric SiO _x thin films via high-throughput reactive sputtering. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	1
5	Magnetoelastic Gilbert damping in magnetostrictive Fe _{0.7} Ga _{0.3} thin films. <i>Physical Review B</i> , 2021, 103, .	1.1	5
6	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. <i>Nature</i> , 2019, 570, 344-348.	13.7	38
7	Inverse Stranski-Krastanov Growth in Single-Crystalline Sputtered Cu Thin Films for Wafer-Scale Device Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 3300-3306.	2.4	3
8	Microwave Meissner screening properties of proximity-coupled topological-insulator/superconductor bilayers. <i>Physical Review Materials</i> , 2019, 3, .	0.9	3
9	Magnetic and structural anisotropic properties of magnetostrictive Fe-Ga flake particles and their epoxy-bonded composites. <i>Materials Letters</i> , 2018, 213, 326-330.	1.3	17
10	Homogeneous Na incorporation for industrial-scale application of Cu(In,Ga)(Se,S) ₂ solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 112-126.	4.4	5
11	Effects of hydrogen plasma treatment on sol-gel-derived ZnO studied by impedance spectroscopy. <i>Materials Research Express</i> , 2017, 4, 075901.	0.8	0
12	Stability of the oxygen vacancy induced conductivity in BaSnO ₃ thin films on SrTiO ₃ . <i>Applied Physics Letters</i> , 2017, 111, .	1.5	50
13	Systematic Band Gap Tuning of BaSnO ₃ via Chemical Substitutions: The Role of Clustering in Mixed-Valence Perovskites. <i>Chemistry of Materials</i> , 2017, 29, 9378-9385.	3.2	27
14	Formation of ferromagnetic Co-H-Co complex and spin-polarized conduction band in Co-doped ZnO. <i>Scientific Reports</i> , 2017, 7, 11101.	1.6	7
15	Control of magneto-transport characteristics of Co-doped ZnO by electron beam irradiation. <i>RSC Advances</i> , 2016, 6, 41067-41073.	1.7	7
16	Wafer-Scale Single-Crystalline AB ₂ Stacked Bilayer Graphene. <i>Advanced Materials</i> , 2016, 28, 8177-8183.	11.1	79
17	Observation of the Superconducting Proximity Effect in the Surface State of SmB ₆ Thin Films. <i>Physical Review X</i> , 2016, 6, .	2.8	19
18	Magnetic domains in H-mediated Zn _{0.9} Co _{0.1} O microdisk arrays. <i>RSC Advances</i> , 2016, 6, 57375-57379.	1.7	1

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19	Highly Durable Ti-Mesh Based Triboelectric Nanogenerator for Self-Powered Device Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 4864-4869.	0.9	9
20	Rare Earth-Doped BiFeO ₃ Thin Films: Relationship between Structural and Magnetic Properties. Advances in Condensed Matter Physics, 2015, 2015, 1-5.	0.4	2
21	Analysis of oxygen vacancy in Co-doped ZnO using the electron density distribution obtained using MEM. Nanoscale Research Letters, 2015, 10, 186.	3.1	40
22	Effect of the dielectric layer on the electrical output of a ZnO nanosheet-based nanogenerator. Journal of the Korean Physical Society, 2015, 67, 1920-1924.	0.3	12
23	Gallium codoping for high visible and near-infrared transmission in Al-doped ZnO thin films for industrial-scale applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 021508.	0.9	3
24	Study on the formation of magnetic nanoclusters and change in spin ordering in Co-doped ZnO using magnetic susceptibility. RSC Advances, 2015, 5, 65840-65846.	1.7	4
25	Cu Mesh for Flexible Transparent Conductive Electrodes. Scientific Reports, 2015, 5, 10715.	1.6	103
26	Magnetic-Assembly Mechanism of Superparamagneto-Plasmonic Nanoparticles on a Charged Surface. ACS Applied Materials & Interfaces, 2015, 7, 8650-8658.	4.0	22
27	Hydrogen-induced anomalous Hall effect in Co-doped ZnO. New Journal of Physics, 2014, 16, 073030.	1.2	7
28	Effects of Al doping on the magnetic properties of ZnCoO and ZnCoO:H. Applied Physics Letters, 2014, 104, 052412.	1.5	19
29	Hydrogen lithography for nanomagnetic domain on Co-doped ZnO using an anodic aluminum oxide template. Applied Physics Letters, 2014, 104, 052405.	1.5	7
30	Successful melting and density measurements of Cu and Ag single crystals with an electrostatic levitation (ESL) system. CrystEngComm, 2014, 16, 7575-7579.	1.3	5
31	Fabrication of ZnCoO nanowires and characterization of their magnetic properties. Nanoscale Research Letters, 2014, 9, 221.	3.1	2
32	p-type conductivity generated by ferromagnetic ordering via percolative anionic H chain formation in ZnCoO. Journal of Physics Condensed Matter, 2014, 26, 255501.	0.7	0
33	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. Scientific Reports, 2014, 4, 6230.	1.6	43
34	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. Scientific Reports, 2014, 4, 5450.	1.6	33
35	The effect of hydrogen on the electric properties of amorphous InGaZnO with varying Zn content. Journal of the Korean Physical Society, 2013, 63, 209-213.	0.3	3
36	Origin of the ferromagnetism in ZnCoO from chemical reaction of Co_3O_4 . Current Applied Physics, 2013, 13, 2005-2009.	1.1	8

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37	Ferromagnetic spin ordering in amorphous Co-doped InGaZnO based on the Co ²⁺ -H ⁺ -Co complex. Europhysics Letters, 2012, 98, 17008.	0.7	2
38	Strong ferromagnetism in Pt-coated ZnCoO: The role of interstitial hydrogen. Applied Physics Letters, 2012, 100, 172409.	1.5	17
39	Conductive and ferromagnetic contributions of H in ZnCoO using H ₂ hot isostatic pressure. Applied Physics Letters, 2012, 100, 112403.	1.5	18
40	Local structural disorder in Zn _{0.9} Co _{0.1} O nanocrystals studied using neutron total scattering analysis. Journal of Applied Physics, 2012, 112, 073523.	1.1	1
41	A study of the correlation between hydrogen content and magnetism in ZnCoO. Journal of Applied Physics, 2012, 111, 07C304.	1.1	14
42	Fabrication of the best conductor from single-crystal copper and the contribution of grain boundaries to the Debye temperature. CrystEngComm, 2012, 14, 1463-1467.	1.3	11
43	Ferromagnetism in ZnCoO due to Hydrogen-Mediated Co ²⁺ -H ⁺ -Co Complexes: How to Avoid the Formation of Co Metal Clusters?. Journal of Physical Chemistry C, 2012, 116, 12196-12202.	1.5	13
44	Structural evolution across the insulator-metal transition in oxygen-deficient BaTiO ₃ studied using neutron total scattering and Rietveld analysis. Physical Review B, 2011, 84, .	1.1	65
45	Contribution of Pt layer to hydrogen mediation in ZnCoO. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1027-1030.	0.8	3
46	Stable high conductive amorphous InGaZnO driven by hydrogenation using hot isostatic pressing. Applied Physics Letters, 2011, 98, 122109.	1.5	13
47	Direct observation of deuterium in ferromagnetic Zn _{0.9} Mn _{0.1} O. Physical Review B, 2010, 81, .	1.1	22
48	Copper Better than Silver: Electrical Resistivity of the Grain-Free Single-Crystal Copper Wire. Crystal Growth and Design, 2010, 10, 2780-2784.	1.4	41
49	Extrinsic ferromagnetism of ZnMnO nanocrystals fabricated by sol-gel method. Journal of the Korean Physical Society, 2010, 56, 472-475.	0.3	3
50	The comparison of the structural, magnetic, electronic, and optical properties for ZnCoO and Co-precipitation samples. Journal of the Korean Physical Society, 2010, 56, 1374-1377.	0.3	1
51	Seeking for Room Temperature Ferromagnetic Semiconductors Based on ZnO. New Physics: Sae Mulli, 2010, 60, 1231-1246.	0.0	0
52	Reproducible manipulation of spin ordering in ZnCoO nanocrystals by hydrogen mediation. Applied Physics Letters, 2009, 94, 212507.	1.5	42
53	Reversible ferromagnetic spin ordering governed by hydrogen in Co-doped ZnO semiconductor. Applied Physics Letters, 2009, 95, 172514.	1.5	50