Seunghun Lee

List of Publications by Year
in descending order

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53	908	471371	477173
papers	citations	17 h-index	29 g-index

53	53	53	1662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cu Mesh for Flexible Transparent Conductive Electrodes. Scientific Reports, 2015, 5, 10715.	1.6	103
2	Waferâ€Scale Singleâ€Crystalline ABâ€Stacked Bilayer Graphene. Advanced Materials, 2016, 28, 8177-8183.	11.1	79
3	Structural evolution across the insulator-metal transition in oxygen-deficient BaTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>studied using neutron total scattering and Rietveld analysis. Physical Review B, 2011, 84, .	1.1	65
4	Reversible ferromagnetic spin ordering governed by hydrogen in Co-doped ZnO semiconductor. Applied Physics Letters, 2009, 95, 172514.	1.5	50
5	Stability of the oxygen vacancy induced conductivity in BaSnO3 thin films on SrTiO3. Applied Physics Letters, 2017, 111, .	1.5	50
6	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. Scientific Reports, 2014, 4, 6230.	1.6	43
7	Reproducible manipulation of spin ordering in ZnCoO nanocrystals by hydrogen mediation. Applied Physics Letters, 2009, 94, 212507.	1.5	42
8	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
9	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
10	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. Nature, 2019, 570, 344-348.	13.7	38
11	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. Scientific Reports, 2014, 4, 5450.	1.6	33
12	Systematic Band Gap Tuning of BaSnO₃ via Chemical Substitutions: The Role of Clustering in Mixed-Valence Perovskites. Chemistry of Materials, 2017, 29, 9378-9385.	3.2	27
13	Direct observation of deuterium in ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Zn</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.9</mml:mn></mml:mrow></mml:msub></mml:math>Physical Review B, 2010, 81, .	1.1	22
14	Magnetic-Assembly Mechanism of Superparamagneto-Plasmonic Nanoparticles on a Charged Surface. ACS Applied Materials & Interfaces, 2015, 7, 8650-8658.	4.0	22
15	Effects of Al doping on the magnetic properties of ZnCoO and ZnCoO:H. Applied Physics Letters, 2014, 104, 052412.	1.5	19
16	Observation of the Superconducting Proximity Effect in the Surface State ofSmB6Thin Films. Physical Review X, 2016, 6, .	2.8	19
17	Conductive and ferromagnetic contributions of H in ZnCoO using H₂ hot isostatic pressure. Applied Physics Letters, 2012, 100, 112403.	1.5	18
18	Strong ferromagnetism in Pt-coated ZnCoO: The role of interstitial hydrogen. Applied Physics Letters, 2012, 100, 172409.	1.5	17

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19	Magnetic and structural anisotropic properties of magnetostrictive Fe-Ga flake particles and their epoxy-bonded composites. Materials Letters, 2018, 213, 326-330.	1.3	17
20	A study of the correlation between hydrogen content and magnetism in ZnCoO. Journal of Applied Physics, 2012, 111, 07C304.	1.1	14
21	Stable high conductive amorphous InGaZnO driven by hydrogenation using hot isostatic pressing. Applied Physics Letters, 2011, 98, 122109.	1.5	13
22	Ferromagnetism in ZnCoO due to Hydrogen-Mediated Coâ€“Hâ€“Co Complexes: How to Avoid the Formation of Co Metal Clusters?. Journal of Physical Chemistry C, 2012, 116, 12196-12202.	1.5	13
23	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
24	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
25	Highly Durable Ti-Mesh Based Triboelectric Nanogenerator for Self-Powered Device Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 4864-4869.	0.9	9
26	Origin of the ferromagnetism in ZnCoO from chemical reaction ofÂCo3O4. Current Applied Physics, 2013, 13, 2005-2009.	1.1	8
27	Hydrogen-induced anomalous Hall effect in Co-doped ZnO. New Journal of Physics, 2014, 16, 073030.	1.2	7
28	Hydrogen lithography for nanomagnetic domain on Co-doped ZnO using an anodic aluminum oxide template. Applied Physics Letters, 2014, 104, 052405.	1.5	7
29	Control of magneto-transport characteristics of Co-doped ZnO by electron beam irradiation. RSC Advances, 2016, 6, 41067-41073.	1.7	7
30	Formation of ferromagnetic Coâ€“Hâ€“Co complex and spin-polarized conduction band in Co-doped ZnO. Scientific Reports, 2017, 7, 11101.	1.6	7
31	Strong lithium-polysulfide anchoring effect of amorphous carbon for lithiumâ€“sulfur batteries. Current Applied Physics, 2021, 22, 94-103.	1.1	6
32	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
33	Homogeneous <scp>Na</scp> incorporation for industrialâ€scale application of <scp>Cu</scp>(<scp>In</scp>,<scp>Ga</scp>)(<scp>Se</scp>,<scp>S</scp>)₂ solar cells. Progress in Photovoltaics: Research and Applications, 2018, 26, 112-126.	4.4	5
34	Magnetoelastic Gilbert damping in magnetostrictive Fe0.7Ga0.3 thin films. Physical Review B, 2021, 103, .	1.1	5
35	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
36	Contribution of Pt layer to hydrogen mediation in ZnCoO. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1027-1030.	0.8	3

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37	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
38	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
39	Inverse Stranskiâ€“Krastanov Growth in Single-Crystalline Sputtered Cu Thin Films for Wafer-Scale Device Applications. ACS Applied Nano Materials, 2019, 2, 3300-3306.	2.4	3
40	Microwave Meissner screening properties of proximity-coupled topological-insulatorâ€‰/â€‰superconductor bilayers. Physical Review Materials, 2019, 3, .	0.9	3
41	Extrinsic ferromagnetism of ZnMnO nanocrystals fabricated by sol-gel method. Journal of the Korean Physical Society, 2010, 56, 472-475.	0.3	3
42	Ferromagnetic spin ordering in amorphous Co-doped InGaZnO based on the Coâ€“Hâ€“Co complex. Europhysics Letters, 2012, 98, 17008.	0.7	2
43	Fabrication of ZnCoO nanowires and characterization of their magnetic properties. Nanoscale Research Letters, 2014, 9, 221.	3.1	2
44	Rare Earth-Doped BiFeO₃Thin Films: Relationship between Structural and Magnetic Properties. Advances in Condensed Matter Physics, 2015, 2015, 1-5.	0.4	2
45	Local structural disorder in Zn0.9Co0.1O nanocrystals studied using neutron total scattering analysis. Journal of Applied Physics, 2012, 112, 073523.	1.1	1
46	Magnetic domains in H-mediated Zn0.9Co0.1O microdisk arrays. RSC Advances, 2016, 6, 57375-57379.	1.7	1
47	Combinatorial synthesis of non-stoichiometric SiOx thin films via high-throughput reactive sputtering. Journal of Applied Physics, 2021, 129, .	1.1	1
48	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
49	Side reaction in the hydrogen and carbothermal reductions of BaO and BaCO3: The role of an infinitesimal amount of water. Current Applied Physics, 2022, 34, 19-23.	1.1	1
50	Graphene for Nanobiosensors and Nanobiochips. Advances in Experimental Medicine and Biology, 2022, 1351, 203-232.	0.8	1
51	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
52	Effects of hydrogen plasma treatment on sol-gel-derived ZnO studied by impedance spectroscopy. Materials Research Express, 2017, 4, 075901.	0.8	0
53	Seeking for Room Temperature Ferromagnetic Semiconductors Based on ZnO. New Physics: Sae Mulli, 2010, 60, 1231-1246.	0.0	0