Se-Young Jeong

List of Publications by Year
in descending order

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96 papers	2,845 citations	257450 24 h-index	182427 51 g-index
100 all docs	100 docs citations	100 times ranked	3999 citing authors

#	Article	IF	Citations
1	Study of diluted magnetic semiconductor: Co-doped ZnO. Applied Physics Letters, 2002, 81, 4020-4022.	3.3	641
2	Room-temperature ferromagnetism in Cr-doped GaN single crystals. Applied Physics Letters, 2002, 80, 4187-4189.	3.3	186
3	Structural reconstruction of hexagonal to cubic ZnO films on Pt/Ti/SiO2/Si substrate by annealing. Applied Physics Letters, 2003, 82, 562-564.	3.3	111
4	Cu Mesh for Flexible Transparent Conductive Electrodes. Scientific Reports, 2015, 5, 10715.	3.3	103
5	A study of magnetic and optical properties of Cu-doped ZnO. Physica Status Solidi (B): Basic Research, 2004, 241, 1533-1536.	1.5	83
6	Waferâ€Scale Singleâ€Crystalline ABâ€Stacked Bilayer Graphene. Advanced Materials, 2016, 28, 8177-8183.	21.0	79
7	Layer-controlled single-crystalline graphene film with stacking order via Cuâ€“Si alloy formation. Nature Nanotechnology, 2020, 15, 861-867.	31.5	79
8	Role of reactive gas in atmospheric plasma for cell attachment and proliferation on biocompatible poly É›-caprolactone film. Applied Surface Science, 2008, 254, 5700-5705.	6.1	72
9	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, .	3.2	65
10	Multiple pathways of crystal nucleation in an extremely supersaturated aqueous potassium dihydrogen phosphate (KDP) solution droplet. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13618-13623.	7.1	65
11	Flat-surface-assisted and self-regulated oxidation resistance of Cu(111). Nature, 2022, 603, 434-438.	27.8	59
12	Dielectric characterization of transparent epitaxial Ga2O3 thin film on n-GaNâ•Al2O3 prepared by pulsed laser deposition. Applied Physics Letters, 2006, 89, 182906.	3.3	56
13	ZnO nanobarbed fibers: Fabrication, sensing NO2 gas, and their sensing mechanism. Applied Physics Letters, 2011, 98, .	3.3	56
14	The structural and optical behaviors of K-doped ZnOâ•Al2O3(0001) films. Applied Physics Letters, 2004, 85, 419-421.	3.3	52
15	Reversible ferromagnetic spin ordering governed by hydrogen in Co-doped ZnO semiconductor. Applied Physics Letters, 2009, 95, 172514.	3.3	50
16	Bandgap-designed TiO2/SnO2 hollow hierarchical nanofibers: Synthesis, properties, and their photocatalytic mechanism. Current Applied Physics, 2016, 16, 251-260.	2.4	47
17	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. Scientific Reports, 2014, 4, 6230.	3.3	43
18	Reproducible manipulation of spin ordering in ZnCoO nanocrystals by hydrogen mediation. Applied Physics Letters, 2009, 94, 212507.	3.3	42

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19	Electrochemical behavior of interconnected Ti 2 Nb 10 O 29 nanoparticles for high-power Li-ion battery anodes. Electrochimica Acta, 2017, 236, 451-459.	5.2	42
20	Copper Better than Silver: Electrical Resistivity of the Grain-Free Single-Crystal Copper Wire. Crystal Growth and Design, 2010, 10, 2780-2784.	3.0	41
21	Analysis of oxygen vacancy in Co-doped ZnO using the electron density distribution obtained using MEM. Nanoscale Research Letters, 2015, 10, 186.	5.7	40
22	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. Scientific Reports, 2014, 4, 5450.	3.3	33
23	Color of Copper/Copper Oxide. Advanced Materials, 2021, 33, e2007345.	21.0	28
24	Systematic Band Gap Tuning of BaSnO₃ via Chemical Substitutions: The Role of Clustering in Mixed-Valence Perovskites. Chemistry of Materials, 2017, 29, 9378-9385.	6.7	27
25	Enhanced cycle stability of silicon nanoparticles coated with nitrogen-doped carbon layer for lithium-ion battery anode. Current Applied Physics, 2017, 17, 1087-1093.	2.4	26
26	Ferromagnetism of Heteroepitaxial Zn1-xCuxO Films Grown on n-GaN Substrates. Japanese Journal of Applied Physics, 2004, 43, L1383-L1386.	1.5	24
27	Transparent Flexible Substrates Based on Polyimides with Aluminum Doped Zinc Oxide (AZO) Thin Films. Proceedings of the IEEE, 2005, 93, 1447-1450.	21.3	23
28	Enhanced photocatalytic activity of TiO2 nanobarbed fibers treated with atmospheric pressure plasma using O2 gas. Applied Physics Letters, 2010, 97, .	3.3	23
29	Structural and Electrical Properties ofBaTiO3Thin Films on Si(100) Substrate by Hydrothermal Synthesis. Japanese Journal of Applied Physics, 1994, 33, 4984-4990.	1.5	22
30	High-temperature ferromagnetism in amorphous semiconductor Ge3Mn thin films. Applied Physics Letters, 2007, 90, 192505.	3.3	22
31	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:mrow></mml:math>Physical Review B, 2010, 81, .	3.2	22
32	Conductive framework supported high rate performance of SnO2 hollow nanofibers for lithium battery anodes. Electrochimica Acta, 2015, 161, 1-9.	5.2	22
33	Magnetic-Assembly Mechanism of Superparamagneto-Plasmonic Nanoparticles on a Charged Surface. ACS Applied Materials & Interfaces, 2015, 7, 8650-8658.	8.0	22
34	Thickness effect of the TiO2 nanofiber scattering layer on the performance of the TiO2 nanoparticle/TiO2 nanofiber-structured dye-sensitized solar cells. Current Applied Physics, 2014, 14, 856-861.	2.4	21
35	A study of magnetic clusters in Co-doped ZnO using neutron scattering. Physica Status Solidi (B): Basic Research, 2004, 241, 2858-2861.	1.5	19
36	Effects of Al doping on the magnetic properties of ZnCoO and ZnCoO:H. Applied Physics Letters, 2014, 104, 052412.	3.3	19

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37	Single-crystalline Cu2O thin films of optical quality as obtained by the oxidation of single-crystal Cu thin films at low temperature. APL Materials, 2019, 7, .	5.1	19
38	Growth and Characterization of (Ba0.5Sr0.5)TiO3Films Epitaxially Grown on (002) GaN/(0006) Al2O3Electrode. Japanese Journal of Applied Physics, 2004, 43, L1425-L1428.	1.5	18
39	Conductive and ferromagnetic contributions of H in ZnCoO using H₂ hot isostatic pressure. Applied Physics Letters, 2012, 100, 112403.	3.3	18
40	Enhanced electrochemical performance of carbon-coated TiO2 nanobarbed fibers as anode material for lithium-ion batteries. Electrochemistry Communications, 2015, 60, 204-207.	4.7	18
41	Ferroelastic phase transition and twin structure by 133Cs NMR in a CsPbCl3 single crystal. Physica B: Condensed Matter, 2001, 304, 79-85.	2.7	17
42	Strong ferromagnetism in Pt-coated ZnCoO: The role of interstitial hydrogen. Applied Physics Letters, 2012, 100, 172409.	3.3	17
43	Magnetic and structural anisotropic properties of magnetostrictive Fe-Ga flake particles and their epoxy-bonded composites. Materials Letters, 2018, 213, 326-330.	2.6	17
44	Proton NMR study of the effect of paramagnetic impurities in the mixed crystals [N(CH3)4]2Zn1â^'xCoxCl4Â(x=0,0.1,andÂ1) and [N(CH3)4]2Zn1â^'xCuxCl4Â(x=0,0.1,andÂ1). Solid State Communications, 2007, 143, 432-436.	1.9	16
45	Temperature dependence of 7Li NMR in a LiKSO4 single crystal. Solid State Communications, 1997, 103, 693-698.	1.9	14
46	Raman process studied by 87Rb spin-lattice relaxation in a Rb2ZnCl4 single crystal at low temperature. Solid State Communications, 2001, 118, 453-457.	1.9	14
47	Annealing effect of platinum-based electrodes on physical properties of PZT thin films. Current Applied Physics, 2009, 9, 115-119.	2.4	14
48	Surface modification of and selective protein attachment to a flexible microarray pattern using atmospheric plasma with a reactive gas. Acta Biomaterialia, 2010, 6, 519-525.	8.3	14
49	A study of the correlation between hydrogen content and magnetism in ZnCoO. Journal of Applied Physics, 2012, 111, 07C304.	2.5	14
50	Transparent conductive hybrid thin-films based on copper-mesh/conductive polymer for ITO-Free organic light-emitting diodes. Organic Electronics, 2019, 73, 13-17.	2.6	14
51	Growing Ultrathin Cu₂O Films on Highly Crystalline Cu(111): A Closer Inspection from Microscopy and Theory. Journal of Physical Chemistry C, 2019, 123, 12716-12721.	3.1	14
52	Molecular Motion Studied by Proton Magnetic Resonance in a [N(CH3)4]2ZnCl4 Single Crystal. Physica Status Solidi (B): Basic Research, 2000, 219, 389-394.	1.5	13
53	Stable high conductive amorphous InGaZnO driven by hydrogenation using hot isostatic pressing. Applied Physics Letters, 2011, 98, 122109.	3.3	13
54	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.	3.1	13

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55	Ferroelastic Domain Switching Behaviour of [N(CH3)4]2CuCl4and [N(CH3)4]2ZnCl4Single Crystals Studied by External Stress. Journal of the Physical Society of Japan, 2001, 70, 1937-1941.	1.6	12
56	Proton magnetic resonance study of the low-temperature phase transition in a LiNH4SO4 single crystal. Journal of Physics and Chemistry of Solids, 2002, 63, 625-630.	4.0	12
57	DIELECTRIC CHARACTERIZATION OF METAL-OXIDE-SEMICONDUCTOR CAPACITOR USING Ga2O3 DIELECTRICS ON p-Si (100). Integrated Ferroelectrics, 2005, 74, 173-180.	0.7	11
58	Fabrication of the best conductor from single-crystal copper and the contribution of grain boundaries to the Debye temperature. CrystEngComm, 2012, 14, 1463-1467.	2.6	11
59	Paramagnetic to antiferromagnetic transition in AMnCl3 (A=Rb and Cs) single crystals as observed by 87Rb and 133Cs spin-lattice relaxation. Journal of Applied Physics, 2002, 91, 3095-3098.	2.5	10
60	7Li Spin-Lattice Relaxation Time in a LiNH4SO4 Single Crystal. Physica Status Solidi (B): Basic Research, 1999, 214, 375-379.	1.5	9
61	Properties of superconducting MgB2 single crystal grown by a modified flux method. Applied Physics Letters, 2002, 80, 3569-3571.	3.3	8
62	The Experimental Evidence on the Existence of Fourfold Ferroelastic Domain Wall. Journal of the Physical Society of Japan, 2000, 69, 306-308.	1.6	7
63	Transferred hyperfine interaction and spin-lattice relaxation time for133Csin aCs2CoCl4single crystal. Physical Review B, 2002, 65, .	3.2	7
64	The Mechanical Study on the Low Temperature Phases of LiCsSO4 Crystal. Journal of the Physical Society of Japan, 2002, 71, 1072-1075.	1.6	7
65	Hydrogen-induced anomalous Hall effect in Co-doped ZnO. New Journal of Physics, 2014, 16, 073030.	2.9	7
66	Hydrogen lithography for nanomagnetic domain on Co-doped ZnO using an anodic aluminum oxide template. Applied Physics Letters, 2014, 104, 052405.	3.3	7
67	Control of magneto-transport characteristics of Co-doped ZnO by electron beam irradiation. RSC Advances, 2016, 6, 41067-41073.	3.6	7
68	Formation of ferromagnetic Coâ€“Hâ€“Co complex and spin-polarized conduction band in Co-doped ZnO. Scientific Reports, 2017, 7, 11101.	3.3	7
69	Ferroelastic Property of LiNH4SO4 Single Crystals. Physica Status Solidi A, 1997, 164, 673-677.	1.7	6
70	⁸⁷Rb nmrina paramagnetic RbMnCl₃single crystal. Ferroelectrics, 1994, 156, 327-332.	0.6	5
71	Magnetic properties in XMnCl₃ (X = Na, K, Rb, and Cs) single crystals. Physica Status Solidi (B): Basic Research, 1996, 196, 425-431.	1.5	5
72	Consideration on Domain Walls Orientations in CsPbCl3Ferroelastic Crystal in the Monoclinic Phase. Journal of the Physical Society of Japan, 2001, 70, 717-722.	1.6	5

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73	Structural study of the intermediate phase of the ferroelasticPb3(PO4)2crystal. Physical Review B, 2002, 66, .	3.2	5
74	UV-Exposure Effect on Ferroelectricity of the Sol-Gel Processed PZT Thin Film. Integrated Ferroelectrics, 2004, 62, 97-103.	0.7	5
75	Improving the precision of Hall effect measurements using a single-crystal copper probe. Review of Scientific Instruments, 2012, 83, 013901.	1.3	5
76	Wafer-scale high-quality Ag thin film using a ZnO buffer layer for plasmonic applications. Applied Surface Science, 2020, 512, 145705.	6.1	5
77	7Li Spin-Lattice Relaxation in a LiKSO4 Single Crystal. Physica Status Solidi (B): Basic Research, 1997, 201, 285-290.	1.5	4
78	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.	3.6	4
79	Low Temperature Ferroelastic Property of LiKSO4 Single Crystals. Physica Status Solidi (B): Basic Research, 1998, 207, 81-87.	1.5	3
80	Tunable Photoluminescence in Sol-Gel Processed SrTiO 3 :Pr. Ferroelectrics, 2002, 271, 155-160.	0.6	3
81	Contribution of Pt layer to hydrogen mediation in ZnCoO. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1027-1030.	1.8	3
82	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.	0.7	3
83	A study of the density of states of ZnCoO:H from resistivity measurements. RSC Advances, 2018, 8, 9895-9900.	3.6	3
84	Inverse Stranskiâ€“Krastanov Growth in Single-Crystalline Sputtered Cu Thin Films for Wafer-Scale Device Applications. ACS Applied Nano Materials, 2019, 2, 3300-3306.	5.0	3
85	Nuclear Magnetic Resonance and Transferred Hyperfine Interactions for133Cs in a CsMnCl3 ï¿½ 2 H2 O Single Crystal. Physica Status Solidi (B): Basic Research, 1997, 200, 229-237.	1.5	2
86	Fabrication of ZnCoO nanowires and characterization of their magnetic properties. Nanoscale Research Letters, 2014, 9, 221.	5.7	2
87	Phase transition of RbMnCl₃single crystals studied by⁸⁷Rb spin relaxation times. Ferroelectrics, 1994, 156, 321-326.	0.6	1
88	Ferroelastic Property and Nuclear Magnetic Resonance in a K3H(SO4)2Single Crystal. Journal of the Physical Society of Japan, 2004, 73, 2863-2867.	1.6	1
89	Gate voltage-dependent magnetoresistance of Zn_{0.8}Co_{0.2}O:H. RSC Advances, 2016, 6, 97555-97559.	3.6	1
90	Magnetic domains in H-mediated Zn0.9Co0.1O microdisk arrays. RSC Advances, 2016, 6, 57375-57379.	3.6	1

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91	Abnormally Highâ€Lithium Storage in Pure Crystalline C₆₀ Nanoparticles (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	21.0	1
92	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.	0.7	1
93	The coupling between an electric field and mechanical stress in the incommensurate phase. Ferroelectrics, 1999, 229, 89-94.	0.6	0
94	Phase-dependence of dielectric constants on ferroelastic domain switching stress for Pb3(PO4)2. Ferroelectrics, 2000, 240, 1267-1274.	0.6	0
95	Photoluminescence and Raman Spectra of Flux Processed Bulk Single Crystal GaN. Materials Research Society Symposia Proceedings, 2001, 680, 1.	0.1	0
96	Group-Theoretical Analysis for the Ferroelastic Domain Walls. Journal of the Physical Society of Japan, 2001, 70, 2588-2592.	1.6	0