

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	Flat-surface-assisted and self-regulated oxidation resistance of Cu(111). <i>Nature</i> , 2022, 603, 434-438.	27.8	59
2	Color of Copper/Copper Oxide. <i>Advanced Materials</i> , 2021, 33, e2007345.	21.0	28
3	Abnormally High Lithium Storage in Pure Crystalline Cu ₆₀ Nanoparticles (<i>Adv. Mater.</i>)	21.0	1
4	Layer-controlled single-crystalline graphene film with stacking order via Cu-Si alloy formation. <i>Nature Nanotechnology</i> , 2020, 15, 861-867.	31.5	79
5	Wafer-scale high-quality Ag thin film using a ZnO buffer layer for plasmonic applications. <i>Applied Surface Science</i> , 2020, 512, 145705.	6.1	5
6	Transparent conductive hybrid thin-films based on copper-mesh/conductive polymer for ITO-Free organic light-emitting diodes. <i>Organic Electronics</i> , 2019, 73, 13-17.	2.6	14
7	Growing Ultrathin Cu ₂ O Films on Highly Crystalline Cu(111): A Closer Inspection from Microscopy and Theory. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12716-12721.	3.1	14
8	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.	5.0	3
9	Single-crystalline Cu ₂ O thin films of optical quality as obtained by the oxidation of single-crystal Cu thin films at low temperature. <i>APL Materials</i> , 2019, 7, .	5.1	19
10	Magnetic and structural anisotropic properties of magnetostrictive Fe-Ga flake particles and their epoxy-bonded composites. <i>Materials Letters</i> , 2018, 213, 326-330.	2.6	17
11	A study of the density of states of ZnCoO:H from resistivity measurements. <i>RSC Advances</i> , 2018, 8, 9895-9900.	3.6	3
12	Electrochemical behavior of interconnected Ti ₂ Nb ₁₀ O ₂₉ nanoparticles for high-power Li-ion battery anodes. <i>Electrochimica Acta</i> , 2017, 236, 451-459.	5.2	42
13	Enhanced cycle stability of silicon nanoparticles coated with nitrogen-doped carbon layer for lithium-ion battery anode. <i>Current Applied Physics</i> , 2017, 17, 1087-1093.	2.4	26
14	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.	6.7	27
15	Formation of ferromagnetic Co-H-Co complex and spin-polarized conduction band in Co-doped ZnO. <i>Scientific Reports</i> , 2017, 7, 11101.	3.3	7
16	Multiple pathways of crystal nucleation in an extremely supersaturated aqueous potassium dihydrogen phosphate (KDP) solution droplet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13618-13623.	7.1	65
17	Gate voltage-dependent magnetoresistance of Zn _{0.8} Co _{0.2} O:H. <i>RSC Advances</i> , 2016, 6, 97555-97559.	3.6	1
18	Control of magneto-transport characteristics of Co-doped ZnO by electron beam irradiation. <i>RSC Advances</i> , 2016, 6, 41067-41073.	3.6	7

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19	Wafer-scale Single-Crystalline AB-Stacked Bilayer Graphene. <i>Advanced Materials</i> , 2016, 28, 8177-8183.	21.0	79
20	Magnetic domains in H-mediated Zn _{0.9} Co _{0.10} microdisk arrays. <i>RSC Advances</i> , 2016, 6, 57375-57379.	3.6	1
21	Bandgap-designed TiO ₂ /SnO ₂ hollow hierarchical nanofibers: Synthesis, properties, and their photocatalytic mechanism. <i>Current Applied Physics</i> , 2016, 16, 251-260.	2.4	47
22	Analysis of oxygen vacancy in Co-doped ZnO using the electron density distribution obtained using MEM. <i>Nanoscale Research Letters</i> , 2015, 10, 186.	5.7	40
23	Conductive framework supported high rate performance of SnO ₂ hollow nanofibers for lithium battery anodes. <i>Electrochimica Acta</i> , 2015, 161, 1-9.	5.2	22
24	Study on the formation of magnetic nanoclusters and change in spin ordering in Co-doped ZnO using magnetic susceptibility. <i>RSC Advances</i> , 2015, 5, 65840-65846.	3.6	4
25	Cu Mesh for Flexible Transparent Conductive Electrodes. <i>Scientific Reports</i> , 2015, 5, 10715.	3.3	103
26	Magnetic-Assembly Mechanism of Superparamagneto-Plasmonic Nanoparticles on a Charged Surface. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8650-8658.	8.0	22
27	Enhanced electrochemical performance of carbon-coated TiO ₂ nanobarbed fibers as anode material for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2015, 60, 204-207.	4.7	18
28	Hydrogen-induced anomalous Hall effect in Co-doped ZnO. <i>New Journal of Physics</i> , 2014, 16, 073030.	2.9	7
29	Effects of Al doping on the magnetic properties of ZnCoO and ZnCoO:H. <i>Applied Physics Letters</i> , 2014, 104, 052412.	3.3	19
30	Hydrogen lithography for nanomagnetic domain on Co-doped ZnO using an anodic aluminum oxide template. <i>Applied Physics Letters</i> , 2014, 104, 052405.	3.3	7
31	Fabrication of ZnCoO nanowires and characterization of their magnetic properties. <i>Nanoscale Research Letters</i> , 2014, 9, 221.	5.7	2
32	Thickness effect of the TiO ₂ nanofiber scattering layer on the performance of the TiO ₂ nanoparticle/TiO ₂ nanofiber-structured dye-sensitized solar cells. <i>Current Applied Physics</i> , 2014, 14, 856-861.	2.4	21
33	Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering. <i>Scientific Reports</i> , 2014, 4, 6230.	3.3	43
34	Abnormal drop in electrical resistivity with impurity doping of single-crystal Ag. <i>Scientific Reports</i> , 2014, 4, 5450.	3.3	33
35	The effect of hydrogen on the electric properties of amorphous InGaZnO with varying Zn content. <i>Journal of the Korean Physical Society</i> , 2013, 63, 209-213.	0.7	3
36	Strong ferromagnetism in Pt-coated ZnCoO: The role of interstitial hydrogen. <i>Applied Physics Letters</i> , 2012, 100, 172409.	3.3	17

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37	Conductive and ferromagnetic contributions of H in ZnCoO using H ₂ hot isostatic pressure. Applied Physics Letters, 2012, 100, 112403.	3.3	18
38	Improving the precision of Hall effect measurements using a single-crystal copper probe. Review of Scientific Instruments, 2012, 83, 013901.	1.3	5
39	A study of the correlation between hydrogen content and magnetism in ZnCoO. Journal of Applied Physics, 2012, 111, 07C304.	2.5	14
40	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
41	Ferromagnetism in ZnCoO due to Hydrogen-Mediated Co ²⁺ Co Complexes: How to Avoid the Formation of Co Metal Clusters?. Journal of Physical Chemistry C, 2012, 116, 12196-12202.	3.1	13
42	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, .	3.2	65
43	ZnO nanobarbed fibers: Fabrication, sensing NO ₂ gas, and their sensing mechanism. Applied Physics Letters, 2011, 98, .	3.3	56
44	Contribution of Pt layer to hydrogen mediation in ZnCoO. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1027-1030.	1.8	3
45	Stable high conductive amorphous InGaZnO driven by hydrogenation using hot isostatic pressing. Applied Physics Letters, 2011, 98, 122109.	3.3	13
46	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
47	Enhanced photocatalytic activity of TiO ₂ nanobarbed fibers treated with atmospheric pressure plasma using O ₂ gas. Applied Physics Letters, 2010, 97, .	3.3	23
48	Direct observation of deuterium in ferromagnetic Zn _{0.9} Physical Review B, 2010, 81, .	3.2	22
49	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
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.	0.7	1
51	Reproducible manipulation of spin ordering in ZnCoO nanocrystals by hydrogen mediation. Applied Physics Letters, 2009, 94, 212507.	3.3	42
52	Reversible ferromagnetic spin ordering governed by hydrogen in Co-doped ZnO semiconductor. Applied Physics Letters, 2009, 95, 172514.	3.3	50
53	Annealing effect of platinum-based electrodes on physical properties of PZT thin films. Current Applied Physics, 2009, 9, 115-119.	2.4	14
54	Role of reactive gas in atmospheric plasma for cell attachment and proliferation on biocompatible poly ϵ -caprolactone film. Applied Surface Science, 2008, 254, 5700-5705.	6.1	72

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55	High-temperature ferromagnetism in amorphous semiconductor Ge ₃ Mn thin films. Applied Physics Letters, 2007, 90, 192505.	3.3	22
56	Proton NMR study of the effect of paramagnetic impurities in the mixed crystals [N(CH ₃) ₄] ₂ Zn _{1-x} CoxCl ₄ (x=0,0.1,and 1) and [N(CH ₃) ₄] ₂ Zn _{1-x} CuxCl ₄ (x=0,0.1,and 1). Solid State Communications, 2007, 143, 432-436.	1.9	16
57	Dielectric characterization of transparent epitaxial Ga ₂ O ₃ thin film on n-GaN/Al ₂ O ₃ prepared by pulsed laser deposition. Applied Physics Letters, 2006, 89, 182906.	3.3	56
58	DIELECTRIC CHARACTERIZATION OF METAL-OXIDE-SEMICONDUCTOR CAPACITOR USING Ga ₂ O ₃ DIELECTRICS ON p-Si (100). Integrated Ferroelectrics, 2005, 74, 173-180.	0.7	11
59	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
60	Growth and Characterization of (Ba _{0.5} Sr _{0.5})TiO ₃ Films Epitaxially Grown on (002) GaN/(0006) Al ₂ O ₃ Electrode. Japanese Journal of Applied Physics, 2004, 43, L1425-L1428.	1.5	18
61	Ferromagnetism of Heteroepitaxial Zn _{1-x} Cu _x O Films Grown on n-GaN Substrates. Japanese Journal of Applied Physics, 2004, 43, L1383-L1386.	1.5	24
62	UV-Exposure Effect on Ferroelectricity of the Sol-Gel Processed PZT Thin Film. Integrated Ferroelectrics, 2004, 62, 97-103.	0.7	5
63	A study of magnetic and optical properties of Cu-doped ZnO. Physica Status Solidi (B): Basic Research, 2004, 241, 1533-1536.	1.5	83
64	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
65	The structural and optical behaviors of K-doped ZnO/Al ₂ O ₃ (0001) films. Applied Physics Letters, 2004, 85, 419-421.	3.3	52
66	Ferroelastic Property and Nuclear Magnetic Resonance in a K ₃ H(SO ₄) ₂ Single Crystal. Journal of the Physical Society of Japan, 2004, 73, 2863-2867.	1.6	1
67	Structural reconstruction of hexagonal to cubic ZnO films on Pt/Ti/SiO ₂ /Si substrate by annealing. Applied Physics Letters, 2003, 82, 562-564.	3.3	111
68	Transferred hyperfine interaction and spin-lattice relaxation time for ¹³³ Cs in a Cs ₂ CoCl ₄ single crystal. Physical Review B, 2002, 65, .	3.2	7
69	Room-temperature ferromagnetism in Cr-doped GaN single crystals. Applied Physics Letters, 2002, 80, 4187-4189.	3.3	186
70	Structural study of the intermediate phase of the ferroelastic Pb ₃ (PO ₄) ₂ crystal. Physical Review B, 2002, 66, .	3.2	5
71	Paramagnetic to antiferromagnetic transition in AMnCl ₃ (A=Rb and Cs) single crystals as observed by ⁸⁷ Rb and ¹³³ Cs spin-lattice relaxation. Journal of Applied Physics, 2002, 91, 3095-3098.	2.5	10
72	Tunable Photoluminescence in Sol-Gel Processed SrTiO ₃ :Pr. Ferroelectrics, 2002, 271, 155-160.	0.6	3

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73	The Mechanical Study on the Low Temperature Phases of LiCsSO ₄ Crystal. Journal of the Physical Society of Japan, 2002, 71, 1072-1075.	1.6	7
74	Properties of superconducting MgB ₂ single crystal grown by a modified flux method. Applied Physics Letters, 2002, 80, 3569-3571.	3.3	8
75	Proton magnetic resonance study of the low-temperature phase transition in a LiNH ₄ SO ₄ single crystal. Journal of Physics and Chemistry of Solids, 2002, 63, 625-630.	4.0	12
76	Study of diluted magnetic semiconductor: Co-doped ZnO. Applied Physics Letters, 2002, 81, 4020-4022.	3.3	641
77	Photoluminescence and Raman Spectra of Flux Processed Bulk Single Crystal GaN. Materials Research Society Symposia Proceedings, 2001, 680, 1.	0.1	0
78	Group-Theoretical Analysis for the Ferroelastic Domain Walls. Journal of the Physical Society of Japan, 2001, 70, 2588-2592.	1.6	0
79	Raman process studied by ⁸⁷ Rb spin-lattice relaxation in a Rb ₂ ZnCl ₄ single crystal at low temperature. Solid State Communications, 2001, 118, 453-457.	1.9	14
80	Ferroelastic phase transition and twin structure by ¹³³ Cs NMR in a CsPbCl ₃ single crystal. Physica B: Condensed Matter, 2001, 304, 79-85.	2.7	17
81	Ferroelastic Domain Switching Behaviour of [N(CH ₃) ₄] ₂ CuCl ₄ and [N(CH ₃) ₄] ₂ ZnCl ₄ Single Crystals Studied by External Stress. Journal of the Physical Society of Japan, 2001, 70, 1937-1941.	1.6	12
82	Consideration on Domain Walls Orientations in CsPbCl ₃ Ferroelastic Crystal in the Monoclinic Phase. Journal of the Physical Society of Japan, 2001, 70, 717-722.	1.6	5
83	Molecular Motion Studied by Proton Magnetic Resonance in a [N(CH ₃) ₄] ₂ ZnCl ₄ Single Crystal. Physica Status Solidi (B): Basic Research, 2000, 219, 389-394.	1.5	13
84	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
85	Phase-dependence of dielectric constants on ferroelastic domain switching stress for Pb ₃ (PO ₄) ₂ . Ferroelectrics, 2000, 240, 1267-1274.	0.6	0
86	The coupling between an electric field and mechanical stress in the incommensurate phase. Ferroelectrics, 1999, 229, 89-94.	0.6	0
87	⁷ Li Spin-Lattice Relaxation Time in a LiNH ₄ SO ₄ Single Crystal. Physica Status Solidi (B): Basic Research, 1999, 214, 375-379.	1.5	9
88	Low Temperature Ferroelastic Property of LiKSO ₄ Single Crystals. Physica Status Solidi (B): Basic Research, 1998, 207, 81-87.	1.5	3
89	Temperature dependence of ⁷ Li NMR in a LiKSO ₄ single crystal. Solid State Communications, 1997, 103, 693-698.	1.9	14
90	Nuclear Magnetic Resonance and Transferred Hyperfine Interactions for ¹³³ Cs in a CsMnCl ₃ · ½ H ₂ O Single Crystal. Physica Status Solidi (B): Basic Research, 1997, 200, 229-237.	1.5	2

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91	⁷ Li Spin-Lattice Relaxation in a LiKSO ₄ Single Crystal. Physica Status Solidi (B): Basic Research, 1997, 201, 285-290.	1.5	4
92	Ferroelastic Property of LiNH ₄ SO ₄ Single Crystals. Physica Status Solidi A, 1997, 164, 673-677.	1.7	6
93	Magnetic properties in XMnCl ₃ (X = Na, K, Rb, and Cs) single crystals. Physica Status Solidi (B): Basic Research, 1996, 196, 425-431.	1.5	5
94	Phase transition of RbMnCl ₃ single crystals studied by ⁸⁷ Rb spin relaxation times. Ferroelectrics, 1994, 156, 321-326.	0.6	1
95	⁸⁷ Rb nmrina paramagnetic RbMnCl ₃ single crystal. Ferroelectrics, 1994, 156, 327-332.	0.6	5
96	Structural and Electrical Properties of BaTiO ₃ Thin Films on Si(100) Substrate by Hydrothermal Synthesis. Japanese Journal of Applied Physics, 1994, 33, 4984-4990.	1.5	22