

Hyojin Kim

List of Publications by Year in descending order

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2,738
citations

257101

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174990

52
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86
all docs

86
docs citations

86
times ranked

3742
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Walled Carbon Nanotube Biosensors Using Aptamers as Molecular Recognition Elements. <i>Journal of the American Chemical Society</i> , 2005, 127, 11906-11907.	6.6	539
2	Magnetic properties of epitaxially grown semiconducting Zn _{1-x} Co _x O thin films by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2002, 92, 6066-6071.	1.1	323
3	Effects of rapid thermal annealing on the ferromagnetic properties of sputtered Zn _{1-x} (Co _{0.5} Fe _{0.5}) _x O thin films. <i>Applied Physics Letters</i> , 2002, 80, 3358-3360.	1.5	237
4	Synthesis of porous CuO nanowires and its application to hydrogen detection. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 266-272.	4.0	142
5	Porous Au-embedded WO ₃ Nanowire Structure for Efficient Detection of CH ₄ and H ₂ S. <i>Scientific Reports</i> , 2015, 5, 11040.	1.6	135
6	Investigation of the humidity effect on the electrical properties of single-walled carbon nanotube transistors. <i>Applied Physics Letters</i> , 2005, 87, 093101.	1.5	120
7	Optimization of a zinc oxide urchin-like structure for high-performance gas sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 1127-1134.	6.7	73
8	Electrochromic properties of porous WO ₃ @TiO ₂ core-shell nanowires. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3399.	2.7	73
9	Nanocomposite of cobalt oxide nanocrystals and single-walled carbon nanotubes for a gas sensor application. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 160-166.	4.0	68
10	Optical and magnetic properties of laser-deposited Co-doped ZnO thin films. <i>Solid State Communications</i> , 2004, 131, 677-680.	0.9	64
11	Magnetoresistance in laser-deposited Zn _{1-x} Co _x O thin films. <i>Physica B: Condensed Matter</i> , 2003, 327, 304-306.	1.3	63
12	Realization of an open space ensemble for nanowires: a strategy for the maximum response in resistive sensors. <i>Journal of Materials Chemistry</i> , 2012, 22, 6716.	6.7	60
13	The effect of metal cluster coatings on carbon nanotubes. <i>Nanotechnology</i> , 2006, 17, 496-500.	1.3	57
14	Electrical and magnetic properties of spinel-type magnetic semiconductor ZnCo ₂ O ₄ grown by reactive magnetron sputtering. <i>Journal of Applied Physics</i> , 2004, 95, 7387-7389.	1.1	53
15	Enhancement of CO gas sensing properties in ZnO thin films deposited on self-assembled Au nanodots. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 127-132.	4.0	53
16	The origin of room temperature ferromagnetism in cobalt-doped zinc oxide thin films fabricated by PLD. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1847-1851.	2.8	51
17	Surface gas sensing kinetics of a WO ₃ nanowire sensor: Part 2—Reducing gases. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 425-433.	4.0	47
18	Observation of ferromagnetism and anomalous Hall effect in laser-deposited chromium-doped indium tin oxide films. <i>Solid State Communications</i> , 2006, 137, 41-43.	0.9	44

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19	Surface gas sensing kinetics of a WO ₃ nanowire sensor: part 1—oxidizing gases. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 932-941.	4.0	43
20	Polyaniline—chitosan nanocomposite: High performance hydrogen sensor from new principle. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1020-1025.	4.0	40
21	Growth and optical properties of ZnO nanorods prepared through hydrothermal growth followed by chemical vapor deposition. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5137-5141.	2.8	32
22	Synthesis and hydrogen gas sensing properties of ZnO wirelike thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 1347-1351.	0.9	31
23	Synthesis and Gas Sensing Properties of ZnO Nanostructures. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1784-1788.	0.3	30
24	Tin Oxide-Carbon Nanotube Composite for NO _x Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1425-1428.	0.9	26
25	Heat treatment effect on magnetic properties of polycrystalline Si _{1-x} Mnx semiconductors grown by MBE. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 282, 240-243.	1.0	25
26	Structural and transport properties of cubic spinel ZnCo ₂ O ₄ thin films grown by reactive magnetron sputtering. <i>Solid State Communications</i> , 2004, 129, 627-630.	0.9	23
27	Characteristics of cobalt-doped zinc oxide thin films prepared by pulsed laser deposition. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2880-2882.	1.2	21
28	Growth and characterization of spinel-type magnetic semiconductor ZnCo ₂ O ₄ by reactive magnetron sputtering. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 1553-1556.	0.7	20
29	ZnO nanowires prepared by hydrothermal growth followed by chemical vapor deposition for gas sensors. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 1667-1672.	1.3	20
30	A Hydrogen Sulfide Gas Sensor Based on Pd-Decorated ZnO Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10351-10355.	0.9	17
31	Annealing effect on magnetic and electronic properties of polycrystalline Ge _{1-x} Mnx semiconductors grown by MBE. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 282, 385-388.	1.0	14
32	Magneto-transport properties of amorphous Ge _{1-x} Mnx thin films. <i>Current Applied Physics</i> , 2006, 6, 545-548.	1.1	13
33	Valence band structures of the phase change material Ge ₂ Sb ₂ Te ₅ . <i>Applied Physics Letters</i> , 2007, 91, 251901.	1.5	13
34	Ferromagnetism in amorphous Ge _{1-x} Mnx grown by low temperature vapor deposition. <i>Solid State Communications</i> , 2005, 134, 641-645.	0.9	12
35	Inverted hysteresis loops: Experimental artifacts arising from inappropriate or asymmetric sample positioning and the misinterpretation of experimental data. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 308, 56-60.	1.0	12
36	Magnetic and electrical properties of MBE-grown (Ge _{1-x} Si _x) _{1-y} Mny thin films. <i>Current Applied Physics</i> , 2006, 6, 478-481.	1.1	11

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37	Growth and fabrication method of CdTe and its performance as a radiation detector. Journal of the Korean Physical Society, 2015, 66, 31-36.	0.3	9
38	Magnetic phases in polycrystalline $\text{Si}_{1-x}\text{Mn}_x$ semiconductors grown by MBE. Journal of Magnetism and Magnetic Materials, 2004, 282, 244-247.	1.0	8
39	Electrospun Non-Directional Zinc Oxide Nanofibers as Nitrogen Monoxide Gas Sensor. Korean Journal of Materials Research, 2012, 22, 609-614.	0.1	8
40	Transparent Conductive Films of Copper Nanofiber Network Fabricated by Electrospinning. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	7
41	Magneto-electronic properties of $\text{Ge}_{1-x}\text{Mn}_x$ thin films grown by MBE. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1539-E1540.	1.0	6
42	Optical characteristics of MBE grown GaMnAs embedded with MnAs clusters. Applied Surface Science, 2006, 253, 515-518.	3.1	6
43	A simple fabrication method of randomly oriented polycrystalline zinc oxide nanowires and their application to gas sensing. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2011, 2, 015002.	0.7	6
44	Gas-Sensing Properties of ZnO Nanorods at Room Temperature Under Continuous UV Illumination in Humid Air. Journal of Nanoscience and Nanotechnology, 2016, 16, 10346-10350.	0.9	6
45	Effect of annealing on the electric and magnetic properties of GaMnAs and Be-codoped GaMnAs. Journal of Magnetism and Magnetic Materials, 2006, 304, e155-e157.	1.0	5
46	Growth and magnetism in amorphous $\text{Si}_{1-x}\text{Mn}_x$ thin films grown by thermal deposition. Journal of Magnetism and Magnetic Materials, 2006, 304, e167-e169.	1.0	5
47	Preparation of metal-ion containing polymers: Synthesis and characterization of methacrylic copolymers containing copper ion. Polymer, 2015, 77, 297-304.	1.8	5
48	Electrical and Magnetic Properties of Mn-Doped ZnO. Ferroelectrics, 2002, 273, 71-76.	0.3	4
49	Transport and magnetic properties of delafossite $\text{CuAl}_{1-x}\text{Mn}_x\text{O}_2$ ceramics. Physica Status Solidi (B): Basic Research, 2004, 241, 1545-1548.	0.7	4
50	Fabrication and Characterization of CuO Nanoparticles/ZnO Nanorods Heterojunction Structure for Room Temperature NO Gas Sensor Application. Journal of Nanoscience and Nanotechnology, 2016, 16, 11608-11612.	0.9	4
51	Iron Oxide-Carbon Nanotube Composite for NH_3 Detection. Korean Journal of Materials Research, 2016, 26, 187-193.	0.1	4
52	Nitrogen Monoxide Gas Sensing Properties of CuO Nanorods Synthesized by a Hydrothermal Method. Korean Journal of Materials Research, 2014, 24, 19-24.	0.1	4
53	Neutron irradiation effects on polycrystalline $\text{Ge}_{1-x}\text{Mn}_x$ thin films grown by MBE. Current Applied Physics, 2006, 6, 482-485.	1.1	3
54	Transport properties in MnAs-precipitated GaMnAs layers. Journal of Electroceramics, 2006, 17, 1047-1050.	0.8	3

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55	Magnetism in Si ¹⁺ Mn diluted magnetic semiconductor thin films. <i>Thin Solid Films</i> , 2009, 518, 309-312.	0.8	3
56	Rectifying and NO Gas Sensing Properties of an Oxide Heterostructure with ZnO Nanorods Embedded in CuO Thin Film. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 758-762.	0.4	3
57	Detection of H ₂ S Gas with CuO Nanowire Sensor. <i>Korean Journal of Materials Research</i> , 2015, 25, 238-246.	0.1	3
58	Fabrication and Photoelectrochemical Properties of a Cu ₂ O/CuO Heterojunction Photoelectrode for Hydrogen Production from Solar Water Splitting. <i>Korean Journal of Materials Research</i> , 2016, 26, 604-610.	0.1	3
59	A Field Effect Transistor Fabricated with Metallic Single-Walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 141-149.	1.0	2
60	Magnetic and electrical properties of amorphous Ge _{1-x} Cr _x thin films grown by low temperature vapor deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 304, e170-e172.	1.0	2
61	Electronic states of ultrathin Co layers on Cu. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4411-4414.	0.7	2
62	Growth and optical properties of ZnO nanorods prepared through hydrothermal growth followed by chemical vapor deposition. , 2010, . .		2
63	Hydrothermal Synthesis of ZnO Nanorods in the Presence of a Surfactant. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1328-1331.	0.9	2
64	Fabrication of Homogeneous Metal-Organic Hybrid Composite from Copper Containing Methacrylate Copolymer Through Layer-by-Layer Film Processing and e-Beam Irradiation. <i>Macromolecular Research</i> , 2018, 26, 466-471.	1.0	2
65	Fabrication and Characterization of CuO Thin Film/ZnO Nanorods Heterojunction Structure for Efficient Detection of NO Gas. <i>Korean Journal of Materials Research</i> , 2018, 28, 32-37.	0.1	2
66	Lattice dynamics of magnesium fluoride from a semiempirical two-body potential model. <i>Metals and Materials International</i> , 2001, 7, 33-37.	1.8	1
67	Effect of Be codoping on the photoluminescence spectra of GaMnAs. <i>Current Applied Physics</i> , 2011, 11, 735-739.	1.1	1
68	Zinc-oxide nanorod/copper-oxide thin-film heterojunction for a nitrogen-monoxide gas sensor. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1653-1657.	0.3	1
69	Electrical and Magnetic Properties of Mn-Doped ZnO. , 0, .		1
70	Effect of an Au Nanodot Nucleation Layer on CO Gas Sensing Properties of Nanostructured SnO ₂ Thin Films. <i>Korean Journal of Materials Research</i> , 2014, 24, 152-158.	0.1	1
71	Nitrogen Monoxide Gas Sensing Properties of Copper Oxide Thin Films Fabricated by a Spin Coating Method. <i>Korean Journal of Materials Research</i> , 2015, 25, 171-176.	0.1	1
72	Zinc Oxide Wire-Like Thin Films as Nitrogen Monoxide Gas Sensor. <i>Korean Journal of Materials Research</i> , 2015, 25, 358-363.	0.1	1

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73	Rectifying and Nitrogen Monoxide Gas Sensing Properties of a Spin-Coated ZnO/CuO Heterojunction. Korean Journal of Materials Research, 2016, 26, 84-89.	0.1	1
74	Photoelectrochemical Properties of a Cu ₂ O Film/ZnO Nanorods Oxide p-n Heterojunction Photoelectrode for Solar-Driven Water Splitting. Korean Journal of Materials Research, 2018, 28, 214-220.	0.1	1
75	Electrochemical Performance of Li ₄ Ti ₅ O ₁₂ Particles Manufactured Using High Pressure Synthesis Process for Lithium Ion Battery. Korean Journal of Materials Research, 2018, 28, 337-342.	0.1	1
76	Interfacial characteristics and magnetoresistive properties of reactively sputtered Fe-Al ₂ O ₃ -Co magnetic tunnel junctions. Metals and Materials International, 2000, 6, 63-66.	0.2	0
77	Optical and magnetic properties of laser-deposited semiconducting Zn _{1-x} Co _x O thin films. , 0, , .		0
78	Room temperature ferromagnetism and magnetoresistance in chromium-doped indium tin oxide. , 2005, , .		0
79	Ferromagnetism and anomalous Hall effect in Mn-doped ZnO thin films grown by reactive sputtering. , 2005, , .		0
80	Neutron irradiation effect of poly-Si _{1-x} Mn _x semiconductors grown by MBE. Current Applied Physics, 2006, 6, 432-435.	1.1	0
81	Magnetic and Magnetotransport Properties of Annealed Amorphous Ge _{1-x} Mn _x Semiconductor Thin Films. , 2007, , .		0
82	Investigations on growth and hydrogen gas sensing property of ZnO nanowires prepared by hydrothermal growth. , 2010, , .		0
83	NO gas sensing properties of ZnO wire-like thin films synthesized by thermal oxidation of sputtered Zn metallic films in air. , 2010, , .		0
84	p-Type GaN Growth from a Single GaN Precursor via Molecular Beam Epitaxy and Dopant Activation. Journal of the Korean Physical Society, 2007, 51, 112.	0.3	0
85	Nitrogen Monoxide Gas Sensing Characteristics of Transparent p-type Semiconductor CuAlO ₂ Thin Films. Korean Journal of Materials Research, 2013, 23, 477-482.	0.1	0
86	ZnO Hierarchical Nanostructures Fabricated by Electrospinning and Hydrothermal Methods for Photoelectrochemical Cell Electrodes. Korean Journal of Materials Research, 2013, 23, 655-660.	0.1	0