

Hyojin Kim

List of Publications by Year in descending order

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86
papers

2,738
citations

257450

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docs citations

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times ranked

3742
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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. | 2.4 | 2 |
| 2 | 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. | 0.2 | 2 |
| 3 | Photoelectrochemical Properties of a Cu ₂ O Film/ZnO Nanorods Oxide p-n Heterojunction Photoelectrode for Solar-Driven Water Splitting. <i>Korean Journal of Materials Research</i> , 2018, 28, 214-220. | 0.2 | 1 |
| 4 | Electrochemical Performance of Li ₄ Ti ₅ O ₁₂ Particles Manufactured Using High Pressure Synthesis Process for Lithium Ion Battery. <i>Korean Journal of Materials Research</i> , 2018, 28, 337-342. | 0.2 | 1 |
| 5 | Fabrication and Characterization of CuO Nanoparticles/ZnO Nanorods Heterojunction Structure for Room Temperature NO Gas Sensor Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11608-11612. | 0.9 | 4 |
| 6 | 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 |
| 7 | Gas-Sensing Properties of ZnO Nanorods at Room Temperature Under Continuous UV Illumination in Humid Air. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10346-10350. | 0.9 | 6 |
| 8 | 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. | 7.8 | 47 |
| 9 | Iron Oxide-Carbon Nanotube Composite for NH ₃ Detection. <i>Korean Journal of Materials Research</i> , 2016, 26, 187-193. | 0.2 | 4 |
| 10 | Rectifying and Nitrogen Monoxide Gas Sensing Properties of a Spin-Coated ZnO/CuO Heterojunction. <i>Korean Journal of Materials Research</i> , 2016, 26, 84-89. | 0.2 | 1 |
| 11 | 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. | 0.2 | 3 |
| 12 | Transparent Conductive Films of Copper Nanofiber Network Fabricated by Electrospinning. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8. | 2.7 | 7 |
| 13 | Growth and fabrication method of CdTe and its performance as a radiation detector. <i>Journal of the Korean Physical Society</i> , 2015, 66, 31-36. | 0.7 | 9 |
| 14 | 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. | 7.8 | 43 |
| 15 | Porous Au-embedded WO ₃ Nanowire Structure for Efficient Detection of CH ₄ and H ₂ S. <i>Scientific Reports</i> , 2015, 5, 11040. | 3.3 | 135 |
| 16 | Preparation of metal-ion containing polymers: Synthesis and characterization of methacrylicopolymers containing copper ion. <i>Polymer</i> , 2015, 77, 297-304. | 3.8 | 5 |
| 17 | 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 |
| 18 | Detection of H ₂ S Gas with CuO Nanowire Sensor. <i>Korean Journal of Materials Research</i> , 2015, 25, 238-246. | 0.2 | 3 |

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|----|--|-----|-----------|
| 19 | Nitrogen Monoxide Gas Sensing Properties of Copper Oxide Thin Films Fabricated by a Spin Coating Method. Korean Journal of Materials Research, 2015, 25, 171-176. | 0.2 | 1 |
| 20 | Zinc Oxide Wire-Like Thin Films as Nitrogen Monoxide Gas Sensor. Korean Journal of Materials Research, 2015, 25, 358-363. | 0.2 | 1 |
| 21 | Zinc-oxide nanorod/copper-oxide thin-film heterojunction for a nitrogen-monoxide gas sensor. Journal of the Korean Physical Society, 2014, 65, 1653-1657. | 0.7 | 1 |
| 22 | Effect of an Au Nanodot Nucleation Layer on CO Gas Sensing Properties of Nanostructured SnO ₂ Thin Films. Korean Journal of Materials Research, 2014, 24, 152-158. | 0.2 | 1 |
| 23 | Nitrogen Monoxide Gas Sensing Properties of CuO Nanorods Synthesized by a Hydrothermal Method. Korean Journal of Materials Research, 2014, 24, 19-24. | 0.2 | 4 |
| 24 | Electrochromic properties of porous WO ₃ @TiO ₂ core-shell nanowires. Journal of Materials Chemistry C, 2013, 1, 3399. | 5.5 | 73 |
| 25 | Nitrogen Monoxide Gas Sensing Characteristics of Transparent p-type Semiconductor CuAlO ₂ Thin Films. Korean Journal of Materials Research, 2013, 23, 477-482. | 0.2 | 0 |
| 26 | ZnO Hierarchical Nanostructures Fabricated by Electrospinning and Hydrothermal Methods for Photoelectrochemical Cell Electrodes. Korean Journal of Materials Research, 2013, 23, 655-660. | 0.2 | 0 |
| 27 | Hydrothermal Synthesis of ZnO Nanorods in the Presence of a Surfactant. Journal of Nanoscience and Nanotechnology, 2012, 12, 1328-1331. | 0.9 | 2 |
| 28 | Tin Oxide-Carbon Nanotube Composite for NO _x Sensing. Journal of Nanoscience and Nanotechnology, 2012, 12, 1425-1428. | 0.9 | 26 |
| 29 | Realization of an open space ensemble for nanowires: a strategy for the maximum response in resistive sensors. Journal of Materials Chemistry, 2012, 22, 6716. | 6.7 | 60 |
| 30 | Optimization of a zinc oxide urchin-like structure for high-performance gas sensing. Journal of Materials Chemistry, 2012, 22, 1127-1134. | 6.7 | 73 |
| 31 | Electrospun Non-Directional Zinc Oxide Nanofibers as Nitrogen Monoxide Gas Sensor. Korean Journal of Materials Research, 2012, 22, 609-614-609-614. | 0.2 | 8 |
| 32 | 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. | 1.5 | 6 |
| 33 | Growth and optical properties of ZnO nanorods prepared through hydrothermal growth followed by chemical vapor deposition. Journal of Alloys and Compounds, 2011, 509, 5137-5141. | 5.5 | 32 |
| 34 | Polyaniline-chitosan nanocomposite: High performance hydrogen sensor from new principle. Sensors and Actuators B: Chemical, 2011, 160, 1020-1025. | 7.8 | 40 |
| 35 | Effect of Be codoping on the photoluminescence spectra of GaMnAs. Current Applied Physics, 2011, 11, 735-739. | 2.4 | 1 |
| 36 | Growth and optical properties of ZnO nanorods prepared through hydrothermal growth followed by chemical vapor deposition. , 2010, , . | | 2 |

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|----|--|-----|-----------|
| 37 | Synthesis of porous CuO nanowires and its application to hydrogen detection. Sensors and Actuators B: Chemical, 2010, 146, 266-272. | 7.8 | 142 |
| 38 | Nanocomposite of cobalt oxide nanocrystals and single-walled carbon nanotubes for a gas sensor application. Sensors and Actuators B: Chemical, 2010, 150, 160-166. | 7.8 | 68 |
| 39 | Enhancement of CO gas sensing properties in ZnO thin films deposited on self-assembled Au nanodots. Sensors and Actuators B: Chemical, 2010, 151, 127-132. | 7.8 | 53 |
| 40 | Investigations on growth and hydrogen gas sensing property of ZnO nanowires prepared by hydrothermal growth. , 2010, , . | | 0 |
| 41 | NO gas sensing properties of ZnO wire-like thin films synthesized by thermal oxidation of sputtered Zn metallic films in air. , 2010, , . | | 0 |
| 42 | Synthesis and Gas Sensing Properties of ZnO Nanostructures. Journal of the Korean Physical Society, 2010, 57, 1784-1788. | 0.7 | 30 |
| 43 | Synthesis and hydrogen gas sensing properties of ZnO wirelike thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 1347-1351. | 2.1 | 31 |
| 44 | ZnO nanowires prepared by hydrothermal growth followed by chemical vapor deposition for gas sensors. Journal of Vacuum Science & Technology B, 2009, 27, 1667-1672. | 1.3 | 20 |
| 45 | Magnetism in Si _{1-x} Mn diluted magnetic semiconductor thin films. Thin Solid Films, 2009, 518, 309-312. | 1.8 | 3 |
| 46 | Valence band structures of the phase change material Ge ₂ Sb ₂ Te ₅ . Applied Physics Letters, 2007, 91, 251901. | 3.3 | 13 |
| 47 | Magnetic and Magnetotransport Properties of Annealed Amorphous Ge _{1-x} Mn _x Semiconductor Thin Films. , 2007, , . | | 0 |
| 48 | Inverted hysteresis loops: Experimental artifacts arising from inappropriate or asymmetric sample positioning and the misinterpretation of experimental data. Journal of Magnetism and Magnetic Materials, 2007, 308, 56-60. | 2.3 | 12 |
| 49 | Electronic states of ultrathin Co layers on Cu. Physica Status Solidi (B): Basic Research, 2007, 244, 4411-4414. | 1.5 | 2 |
| 50 | 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. | 0.7 | 0 |
| 51 | A Field Effect Transistor Fabricated with Metallic Single-Walled Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 141-149. | 2.1 | 2 |
| 52 | The effect of metal cluster coatings on carbon nanotubes. Nanotechnology, 2006, 17, 496-500. | 2.6 | 57 |
| 53 | Magnetic and electrical properties of MBE-grown (Ge _{1-x} Si _x) _{1-y} Mn _y thin films. Current Applied Physics, 2006, 6, 478-481. | 2.4 | 11 |
| 54 | Magneto-transport properties of amorphous Ge _{1-x} Mn _x thin films. Current Applied Physics, 2006, 6, 545-548. | 2.4 | 13 |

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|----|---|------|-----------|
| 55 | Neutron irradiation effect of poly-Si $_{1-x}$ Mnx semiconductors grown by MBE. Current Applied Physics, 2006, 6, 432-435. | 2.4 | 0 |
| 56 | Neutron irradiation effects on polycrystalline Ge $_{1-x}$ Mnx thin films grown by MBE. Current Applied Physics, 2006, 6, 482-485. | 2.4 | 3 |
| 57 | Optical characteristics of MBE grown GaMnAs embedded with MnAs clusters. Applied Surface Science, 2006, 253, 515-518. | 6.1 | 6 |
| 58 | 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. | 2.3 | 5 |
| 59 | Growth and magnetism in amorphous Si $_{1-x}$ Mnx thin films grown by thermal deposition. Journal of Magnetism and Magnetic Materials, 2006, 304, e167-e169. | 2.3 | 5 |
| 60 | Magnetic and electrical properties of amorphous Ge $_{1-x}$ Crx thin films grown by low temperature vapor deposition. Journal of Magnetism and Magnetic Materials, 2006, 304, e170-e172. | 2.3 | 2 |
| 61 | Observation of ferromagnetism and anomalous Hall effect in laser-deposited chromium-doped indium tin oxide films. Solid State Communications, 2006, 137, 41-43. | 1.9 | 44 |
| 62 | Transport properties in MnAs-precipitated GaMnAs layers. Journal of Electroceramics, 2006, 17, 1047-1050. | 2.0 | 3 |
| 63 | Room temperature ferromagnetism and magnetoresistance in chromium-doped indium tin oxide. , 2005, , . | | 0 |
| 64 | Ferromagnetism in amorphous Ge $_{1-x}$ Mnx grown by low temperature vapor deposition. Solid State Communications, 2005, 134, 641-645. | 1.9 | 12 |
| 65 | Single-Walled Carbon Nanotube Biosensors Using Aptamers as Molecular Recognition Elements. Journal of the American Chemical Society, 2005, 127, 11906-11907. | 13.7 | 539 |
| 66 | Investigation of the humidity effect on the electrical properties of single-walled carbon nanotube transistors. Applied Physics Letters, 2005, 87, 093101. | 3.3 | 120 |
| 67 | Ferromagnetism and anomalous Hall effect in Mn-doped ZnO thin films grown by reactive sputtering. , 2005, , . | | 0 |
| 68 | Magneto-electronic properties of Ge $_{1-x}$ Mn thin films grown by MBE. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1539-E1540. | 2.3 | 6 |
| 69 | Heat treatment effect on magnetic properties of polycrystalline Si $_{1-x}$ Mnx semiconductors grown by MBE. Journal of Magnetism and Magnetic Materials, 2004, 282, 240-243. | 2.3 | 25 |
| 70 | The origin of room temperature ferromagnetism in cobalt-doped zinc oxide thin films fabricated by PLD. Journal of the European Ceramic Society, 2004, 24, 1847-1851. | 5.7 | 51 |
| 71 | Transport and magnetic properties of delafossite CuAl $_{1-x}$ MnxO ₂ ceramics. Physica Status Solidi (B): Basic Research, 2004, 241, 1545-1548. | 1.5 | 4 |
| 72 | Growth and characterization of spinel-type magnetic semiconductor ZnCo ₂ O ₄ by reactive magnetron sputtering. Physica Status Solidi (B): Basic Research, 2004, 241, 1553-1556. | 1.5 | 20 |

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|----|---|-----|-----------|
| 73 | Structural and transport properties of cubic spinel ZnCo ₂ O ₄ thin films grown by reactive magnetron sputtering. Solid State Communications, 2004, 129, 627-630. | 1.9 | 23 |
| 74 | Optical and magnetic properties of laser-deposited Co-doped ZnO thin films. Solid State Communications, 2004, 131, 677-680. | 1.9 | 64 |
| 75 | Magnetic phases in polycrystalline Si _{1-x} Mnx semiconductors grown by MBE. Journal of Magnetism and Magnetic Materials, 2004, 282, 244-247. | 2.3 | 8 |
| 76 | Annealing effect on magnetic and electronic properties of polycrystalline Ge _{1-x} Mnx semiconductors grown by MBE. Journal of Magnetism and Magnetic Materials, 2004, 282, 385-388. | 2.3 | 14 |
| 77 | Electrical and magnetic properties of spinel-type magnetic semiconductor ZnCo ₂ O ₄ grown by reactive magnetron sputtering. Journal of Applied Physics, 2004, 95, 7387-7389. | 2.5 | 53 |
| 78 | Magnetoresistance in laser-deposited Zn _{1-x} Co _x O thin films. Physica B: Condensed Matter, 2003, 327, 304-306. | 2.7 | 63 |
| 79 | Magnetic properties of epitaxially grown semiconducting Zn _{1-x} Co _x O thin films by pulsed laser deposition. Journal of Applied Physics, 2002, 92, 6066-6071. | 2.5 | 323 |
| 80 | Characteristics of cobalt-doped zinc oxide thin films prepared by pulsed laser deposition. IEEE Transactions on Magnetics, 2002, 38, 2880-2882. | 2.1 | 21 |
| 81 | Electrical and Magnetic Properties of Mn-Doped ZnO. Ferroelectrics, 2002, 273, 71-76. | 0.6 | 4 |
| 82 | Effects of rapid thermal annealing on the ferromagnetic properties of sputtered Zn _{1-x} (Co _{0.5} Fe _{0.5}) _x O thin films. Applied Physics Letters, 2002, 80, 3358-3360. | 3.3 | 237 |
| 83 | Electrical and Magnetic Properties of Mn-Doped ZnO. Ferroelectrics, 2002, 273, 71-76. | 0.6 | 1 |
| 84 | Lattice dynamics of magnesium fluoride from a semiempirical two-body potential model. Metals and Materials International, 2001, 7, 33-37. | 3.4 | 1 |
| 85 | 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 |
| 86 | Optical and magnetic properties of laser-deposited semiconducting Zn _{1-x} /Co _x /O thin films. , 0, .. | | 0 |