Eun Kyu Kim

List of Publications by Year in descending order

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124 papers 6,172 citations

430442 18 h-index 66788 78 g-index

124 all docs

124 docs citations

times ranked

124

10030 citing authors

#	Article	IF	CITATIONS
1	lodide management in formamidinium-lead-halide–based perovskite layers for efficient solar cells. Science, 2017, 356, 1376-1379.	6.0	4,721
2	Highly Improved Sb ₂ S ₃ Sensitizedâ€Inorganic–Organic Heterojunction Solar Cells and Quantification of Traps by Deepâ€Level Transient Spectroscopy. Advanced Functional Materials, 2014, 24, 3587-3592.	7.8	454
3	Electrically Tunable and Negative Schottky Barriers in Multi-layered Graphene/MoS2 Heterostructured Transistors. Scientific Reports, 2015, 5, 13743.	1.6	55
4	Creation of deep levels in horizontal Bridgmanâ€grown GaAs by hydrogenation. Applied Physics Letters, 1988, 53, 856-858.	1.5	41
5	The effect of oxygen partial pressure on band gap modulation of Ga2O3 grown by pulsed laser deposition. Journal of Alloys and Compounds, 2019, 806, 874-880.	2.8	40
6	Toward negligible charge loss in charge injection memories based on vertically integrated 2D heterostructures. Nano Research, 2016, 9, 2319-2326.	5.8	36
7	Post-annealing effects on Si-doped Ga2O3 photodetectors grown by pulsed laser deposition. Journal of Alloys and Compounds, 2021, 877, 160291.	2.8	36
8	Structural and optical characterization of MoS 2 quantum dots defined by thermal annealing. Journal of Luminescence, 2017, 183, 62-67.	1.5	29
9	Enhancement of near-infrared detectability from InGaZnO thin film transistor with MoS ₂ light absorbing layer. Nanotechnology, 2017, 28, 475206.	1.3	26
10	Selective control of electron and hole tunneling in 2D assembly. Science Advances, 2017, 3, e1602726.	4.7	25
11	High power conversion efficiency of intermediate band photovoltaic solar cell based on Cr-doped ZnTe. Solar Energy Materials and Solar Cells, 2017, 170, 27-32.	3.0	25
12	Characteristics of p-Type Conduction in P-Doped MoS2 by Phosphorous Pentoxide during Chemical Vapor Deposition. Nanomaterials, 2019, 9, 1278.	1.9	24
13	Improvement of charge storage characteristics on floating gated nonvolatile memory devices with In2O3 nanoparticles embedded polyimide gate insulator. Applied Physics Letters, 2007, 91, .	1.5	21
14	Characterization of electron irradiated GaN n+–p diode. Thin Solid Films, 2008, 516, 3482-3485.	0.8	21
15	Locally Gated SnS2/hBN Thin Film Transistors with a Broadband Photoresponse. Scientific Reports, 2018, 8, 10585.	1.6	21
16	Defect states in hybrid solar cells consisting of Sb2S3 quantum dots and TiO2 nanoparticles. Applied Physics Letters, 2013, 103, 023901.	1.5	20
17	Fabry-Perot cavity resonance enabling highly polarization-sensitive double-layer gold grating. Scientific Reports, 2018, 8, 14787.	1.6	19
18	Dependence of ferromagnetic properties on conductivity for As-doped p-type (Zn0.93Mn0.07)O layers. Applied Physics Letters, 2008, 93, .	1.5	18

#	Article	IF	Citations
19	Electrical and photovoltaic properties of residue-free MoS ₂ thin films by liquid exfoliation method. Nanotechnology, 2017, 28, 195703.	1.3	18
20	Low operation voltage and high thermal stability of a WSi2nanocrystal memory device using an Al2O3/HfO2/Al2O3tunnel layer. Applied Physics Letters, 2012, 100, 072901.	1.5	16
21	Structural and optical properties of MoS2 layers grown by successive two-step chemical vapor deposition method. Thin Solid Films, 2015, 587, 47-51.	0.8	16
22	Formation of transition metal dichalcogenides thin films with liquid phase exfoliation technique and photovoltaic applications. Solar Energy Materials and Solar Cells, 2018, 184, 9-14.	3.0	16
23	Growth of high quality a-plane GaN epi-layer on r-plane sapphire substrates with optimization of multi-buffer layer. Journal of Crystal Growth, 2010, 312, 3122-3126.	0.7	15
24	Electronic Transport Mechanism for Schottky Diodes Formed by Au/HVPE a-Plane GaN Templates Grown via In Situ GaN Nanodot Formation. Nanomaterials, 2018, 8, 397.	1.9	15
25	The enhancement mechanism of photo-response depending on oxygen pressure for Ga ₂ O ₃ photo detectors. Nanotechnology, 2020, 31, 245201.	1.3	15
26	Tunneling magnetoresistance from non-collinear alignment of magnetization in Fe/GaAlAs/GaMnAs magnetic tunnel junctions. Applied Physics Letters, 2013, 102, 212404.	1,5	14
27	Transport properties of unrestricted carriers in bridge-channel MoS ₂ field-effect transistors. Nanoscale, 2015, 7, 17556-17562.	2.8	14
28	Analysis of charge loss in nonvolatile memory with multi-layered SiC nanocrystals. Applied Physics Letters, 2009, 95, 063501.	1,5	13
29	Long-Term Chemical Aging of Hybrid Halide Perovskites. Nano Letters, 2019, 19, 5604-5611.	4.5	13
30	Current Transport Mechanism in Palladium Schottky Contact on Si-Based Freestanding GaN. Nanomaterials, 2020, 10, 297.	1.9	13
31	Charging effect of In2O3 nano-particles embedded in polyimide layer for application as non-volatile nano-floating gate memory. Current Applied Physics, 2009, 9, S43-S46.	1.1	12
32	Fabrication of a n-ZnO/p-Si heterojunction diode by ultra-high vacuum magnetron sputtering. Thin Solid Films, 2012, 520, 5997-6000.	0.8	12
33	Electrical properties of metal-oxide semiconductor nano-particle device. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 432-435.	1.3	11
34	Photoresponse of n-ZnO/p-Si photodiodes to violet-green bandwidth light caused by defect states. Thin Solid Films, 2013, 545, 517-520.	0.8	11
35	High photoresponsivity from multilayer MoS2/Si heterojunction diodes formed by vertically stacking. Journal of Applied Physics, 2017, 122, .	1.1	11
36	Recent Advances in Synthesis and Assembly of van der Waals Materials. Journal of the Korean Physical Society, 2018, 73, 805-816.	0.3	11

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37	Defect suppression and photoresponsivity enhancement in methylammonium lead halide perovskites by CdSe/ZnS quantum dots. Journal of Colloid and Interface Science, 2021, 590, 19-27.	5.0	11
38	Growth of p-type ZnTe thin films by using nitrogen doping during pulsed laser deposition. Journal of the Korean Physical Society, 2015, 67, 672-675.	0.3	10
39	Stable p-type properties of single walled carbon nanotubes by electrochemical doping. Physical Chemistry Chemical Physics, 2015, 17, 16243-16245.	1.3	10
40	High performance intermediate-band solar cells based on ZnTe:Cr with ZnO:Al electron transport layer. Solar Energy, 2018, 164, 262-266.	2.9	10
41	Study on carrier trapping and emission processes in InAs/GaAs self-assembled quantum dots by varying filling pulse width during DLTS measurements. Superlattices and Microstructures, 2009, 46, 312-317.	1.4	9
42	Properties of room-temperature ferromagnetic semiconductor in manganese-doped bilayer graphene by chemical vapor deposition. Journal of Materials Chemistry C, 2015, 3, 4235-4238.	2.7	9
43	Photovoltaic property of n-ZnO/p-Si heterojunctions grown by pulsed laser deposition. Thin Solid Films, 2018, 658, 22-26.	0.8	9
44	Defect states of organic lead halide single crystals grown by inverse-temperature crystallization. Applied Physics Letters, 2019, 115, .	1.5	9
45	Antireflection Coatings with Graded Refractive Index of Indium Tin Oxide for Si-based Solar Cells. Journal of the Korean Physical Society, 2019, 74, 127-131.	0.3	9
46	Resistance switching properties of In2O3 nanocrystals memory device with organic and inorganic hybrid structure. Applied Physics A: Materials Science and Processing, 2011, 102, 933-938.	1.1	8
47	Charge loss mechanism of non-volatile V3Si nano-particles memory device. Applied Physics Letters, 2012, 101, 233510.	1.5	8
48	Defect states of a-plane GaN grown on r-plane sapphire by controlled integration of silica nano-spheres. Journal of Crystal Growth, 2013, 370, 78-81.	0.7	7
49	Hole Conduction of Tungsten Diselenide Crystalline Transistors by Niobium Dopant. Advanced Electronic Materials, 2019, 5, 1800695.	2.6	7
50	Photoelectric Characteristics of a Large-Area n-MoS2/p-Si Heterojunction Structure Formed through Sulfurization Process. Sensors, 2020, 20, 7340.	2.1	7
51	Room temperature ferromagnetic and ambipolar behaviors of MoS2 doped by manganese oxide using an electrochemical method. Applied Physics Letters, $2017,110,$.	1.5	7
52	High-performance MoS2/p+-Si heterojunction field-effect transistors by interface modulation. Nano Research, 2022, 15, 6500-6506.	5.8	7
53	Electrical properties of ZnO Nano-particles embedded in polyimide. Journal of Electronic Materials, 2006, 35, 512-515.	1.0	6
54	Studies of defect states of ZnO thin films under different annealing conditions. Microelectronics Journal, 2009, 40, 313-315.	1.1	6

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55	Magnetic properties of cobalt nanodots fabricated by a new laser irradiation method: anisotropy and superparamagnetism. IEEE Transactions on Magnetics, 2005, 41, 3313-3315.	1.2	5
56	Enhanced of electrical characteristics of nano-crystal floating gate memory with In2O3 nano-particles embedded in polyimide. Journal of Electroceramics, 2009, 23, 150-153.	0.8	5
57	Nonpolar growth and characterization of a-plane InGaN/GaN quantum well structures with different indium compositions. Solid-State Electronics, 2010, 54, 1221-1226.	0.8	5
58	Characterization of deep levels in a-plane GaN epi-layers grown using various growth techniques. Journal of Crystal Growth, 2012, 340, 23-27.	0.7	5
59	Electrical characterization of flash memory structure with vanadium silicide nano-particles. Journal of Alloys and Compounds, 2013, 559, 1-4.	2.8	5
60	Magnetotransport properties of Fe/GaAlAs/GaMnAs hybrid magnetic trilayer structures. Journal of Applied Physics, 2014, 115, 17C715.	1.1	5
61	Oxygen incorporation in ZnTe thin films grown by plasma-assisted pulsed laser deposition. Current Applied Physics, 2014, 14, S49-S52.	1.1	5
62	Optimization of the p+-ZnTe layer for back contacts of ZnTe thin-film solar cells. Journal of the Korean Physical Society, 2016, 69, 416-420.	0.3	5
63	Electronic states of deep trap levels in a-plane GaN templates grown on r-plane sapphire by HVPE. Scientific Reports, 2018, 8, 7814.	1.6	5
64	First observation of electronic trap levels in freestanding GaN crystals extracted from Si substrates by hydride vapour phase epitaxy. Scientific Reports, 2019, 9, 7128.	1.6	5
65	Characteristics of plasma hydrogenated ZnO films oriented along the (11–20) plane grown by pulsed laser deposition. Thin Solid Films, 2009, 517, 3927-3930.	0.8	4
66	Electrical properties of WSi2 nanocrystal memory with SiO2/Si3N4/SiO2 tunnel barriers. Current Applied Physics, 2010, 10, e5-e8.	1.1	4
67	Resistive switching effect for ZnO hybrid memory with metal-oxide nanocrystals. Thin Solid Films, 2012, 521, 98-101.	0.8	4
68	Electrical characteristics of resistive switching memory with metal oxide nanoparticles on a graphene layer. Thin Solid Films, 2013, 543, 106-109.	0.8	4
69	Semiconducting properties of perchlorate-doped graphene using an electrochemical method. RSC Advances, 2017, 7, 16823-16825.	1.7	4
70	Optimization of optoelectrical properties during synthesizing methylammonium lead iodide perovskites via a two-step dry process. Journal of Materials Research and Technology, 2021, 14, 1-9.	2.6	4
71	Growth of ZnTe:O Thin Films by Oxygen-Plasma-Assisted Pulsed Laser Deposition. Japanese Journal of Applied Physics, 2012, 51, 01AD04.	0.8	4
72	Enhanced Curie temperature persisting between 100 and 200K (â^1/450K by theory) with Mn (â^1/40.290%) based on InMnP:Zn. Journal of Crystal Growth, 2006, 297, 289-293.	0.7	3

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73	Magnetotransport properties of GaMnAs with ferromagnetic nanodots. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1043-1046.	0.8	3
74	Field dependence of barrier heights and luminescence properties in polar and nonpolar InGaN/GaN single quantum wells. Applied Physics Letters, 2009, 95, 182109.	1.5	3
75	Nanoâ€floating gate capacitor with SnO ₂ quantum dots distributed in polyimide dielectrics. Physica Status Solidi (B): Basic Research, 2009, 246, 893-896.	0.7	3
76	Quaternary memory device fabricated from a single layer Fe film. Journal of Applied Physics, 2012, 111, 07C704.	1.1	3
77	Reversible conductance switching characteristics in a polymer-In2O3 nanocrystals junction. AIP Advances, 2014, 4, .	0.6	3
78	Effect of space layer doping on photoelectric conversion efficiency of InAs/GaAs quantum dot solar cells. Applied Physics Letters, 2015, 107, 203503.	1.5	3
79	Room temperature transparent conducting magnetic oxide (TCMO) properties in heavy ion doped oxide semiconductor. AIP Advances, 2017, 7, 085114.	0.6	3
80	Plasmonic-Layered InAs/InGaAs Quantum-Dots-in-a-Well Pixel Detector for Spectral-Shaping and Photocurrent Enhancement. Nanomaterials, 2020, 10, 1827.	1.9	3
81	Influence of titanium adhesion layer on performance of \hat{l}^2 -Ga2O3 solar-blind photodetector. Materials Chemistry and Physics, 2020, 252, 123248.	2.0	3
82	Electrical Characterization of ZnO Nano-Particles Embedded in a Polyimide for Application as a Nano-Floating Gate Memory. Journal of the Korean Physical Society, 2008, 53, 327-330.	0.3	3
83	Electronic transport mechanism and defect states for p-lnP/i-lnGaAs/n-lnP photodiodes. Journal of Materials Research and Technology, 2022, 19, 2742-2749.	2.6	3
84	Study on defect states using deep level transient spectroscopy of ZnO grown by pulsed laser deposition. Physica Status Solidi (B): Basic Research, 2007, 244, 1500-1503.	0.7	2
85	Study of magnetic impurity as defects in ZnO grown by pulsed laser deposition. Microelectronics Journal, 2009, 40, 283-285.	1.1	2
86	Charge loss in WSi2 nanocrystals nonvolatile memory with SiO2/Si3N4/SiO2 tunnel layer. Current Applied Physics, 2011, 11, e6-e9.	1,1	2
87	Decimal Tunneling Magnetoresistance States in Fe/GaAlAs/GaMnAs Magnetic Tunnel Junction. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	2
88	Enhancement of photoluminescence efficiency from semi-polar InGaN/GaN multiple quantum wells with silver metal. Journal of Luminescence, 2015, 162, 115-118.	1.5	2
89	Reduction of interface traps between poly-Si and SiO ₂ layers through the dielectric recovery effect during delayed pulse bias stress. Nanotechnology, 2017, 28, 225702.	1.3	2
90	Electrical properties of thin film transistors with zinc tin oxide channel layer. Journal of the Korean Physical Society, 2017, 71, 500-505.	0.3	2

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91	Defect States in InP/InGaAs/InP Heterostructures by Current–Voltage Characteristics and Deep Level Transient Spectroscopy. Journal of Nanoscience and Nanotechnology, 2018, 18, 6239-6243.	0.9	2
92	Polarization-Sensitive and Wide Incidence Angle-Insensitive Fabry–Perot Optical Cavity Bounded by Two Metal Grating Layers. Sensors, 2020, 20, 5382.	2.1	2
93	Structural characteristics and defect states of intrinsic GaN epi-layers in a high power device structure. Journal of the Korean Physical Society, 2021, 79, 57-63.	0.3	2
94	Mixed Phase Confirmation of InAsxP1 \hat{a} 'x Nanowire Array Using Modified Reciprocal Space Mapping. Electronic Materials Letters, 0, , 1.	1.0	2
95	Effect of Silver Nanoparticles with Indium Tin Oxide Thin Layers on Silicon Solar Cells. Applied Science and Convergence Technology, 2017, 26, 91-94.	0.3	2
96	Effect of oxygen on defect states of AlO.4GaO.6N layers grown by hydride vapor phase epitaxy. Journal of Materials Research and Technology, 2022, 17, 1485-1490.	2.6	2
97	Relevant correlation between electrical and magnetic properties for p-type InP:Zn implanted with Mn (10â€,at. %). Applied Physics Letters, 2008, 93, .	1.5	1
98	Performance of thyristor memory device formed by a wet etching process. Nanotechnology, 2019, 30, 035205.	1.3	1
99	Performance Enhancement of a ZnO-based UV Photodetector Using Patterned Ag Nanoparticles. Journal of the Korean Physical Society, 2020, 77, 234-239.	0.3	1
100	Analysis of ZnS and MgF ₂ layered nanostructures grown by glancing angle deposition for optical design. Nanotechnology, 2020, 31, 245301.	1.3	1
101	Controllable Growth of Single Layer MoS ₂ and Resistance Switching Effect in Polymer/MoS ₂ Structure. Applied Science and Convergence Technology, 2017, 26, 129-132.	0.3	1
102	Photolumineseence analysis of white-emitting si nanoparticles using effective mass approximation method., 2004,,.		0
103	Characterization of nanofloating gate memory with ZnO nanoparticles embedded in polymeric matrix. , 2005, , .		0
104	Electrical properties of InAs/InGaAs/GaAs quantum-dot infrared photodetectors., 2005,,.		0
105	Electrical Characterization of Nano-Floating Gate Capacitor with Silicon Carbide Nano-Particles. , 2007, , .		0
106	High magnetoresistance of InSb with an embedded Au core. , 2007, , .		0
107	Fabrication of Nonvolatile Nano-Floating Gate Memory with Self-Assembled Metal-Oxide Nano-Particles Embedded in Polyimide. , 2007, , .		0
108	Electrical and optical properties of p-type InMnP:Zn for nano-spintronics., 2007,,.		0

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109	Optical, structural, and magnetic properties of p-type InMnP:Zn implanted with the Mn (1 and 10Âat.%). Solid State Communications, 2007, 144, 128-133.	0.9	O
110	Optical, structural, and magnetic properties of p-type GaN implanted with Fe+(5 and 10 at%). Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 78-85.	0.8	0
111	Dislocation related defect states in GaN irradiated with 1 MeV electronâ€beam. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1630-1632.	0.8	O
112	Multi-Layered SiC Nanocrystals Embedded in SiO2 Dielectrics for Nonvolatile Memory Application. Materials Research Society Symposia Proceedings, 2009, 1160, 1.	0.1	0
113	Fabrication and Electrical Characterization of Metal-Silicide Nanocrystals for Nano Floating Gate Nonvolatile Memory. Materials Research Society Symposia Proceedings, 2009, 1160, 1.	0.1	0
114	Analysis of energy levels of InAs/GaAs selfâ€assembled quantum dots by using <i>C</i> – <i>V</i> and deep level transient spectroscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 808-811.	0.7	0
115	Polarization effect on electronic band structure of InGaN/GaN multiâ€quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S731.	0.8	0
116	Carrier dynamics in energy states of InAs/GaAs quantum dots by measuring selective carrier filling and extracting techniques. , 2009 , , .		0
117	SiC nano-particles application to nano-floating gate memory. , 2010, , .		0
118	Field enhancement effect by multi-tunnel layer in metal-silicide nanocrystals nonvolatile memory. AIP Conference Proceedings, $2011,\ldots$	0.3	0
119	Effect of vanadium oxide interfacial layer for electrical contact on p-type silicon. Current Applied Physics, 2016, 16, 1315-1319.	1.1	0
120	Resistive switching memory device with metalâ€oxide quantum dots on a graphene layer. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 325-328.	0.8	0
121	Room temperature ferromagnetic and semiconducting properties of graphene adsorbed with cobalt oxide using electrochemical method. Journal of Magnetism and Magnetic Materials, 2017, 444, 361-363.	1.0	0
122	Structural, electrical, and optical characterizations of a-plane $InGaN/GaN$ quantum well structures., 2009,,.		0
123	Speed Enhancement of WSi2Nanocrystal Memory with Barrier-Engineered Si3N4/HfAlO Tunnel Layer. Japanese Journal of Applied Physics, 2012, 51, 06FE13.	0.8	0
124	Structural Analysis of InAs1â^'xSbx Epilayer Considering Occurrence of Crystallographic Tilt Exploiting High-Resolution X-Ray Diffraction. Electronic Materials Letters, 2022, 18, 205-214.	1.0	0