

Dong-Wook Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155
papers

3,423
citations

29
h-index

51
g-index

171
ext. papers

3,766
ext. citations

4.6
avg, IF

4.93
L-index

#	Paper	IF	Citations
155	Carrier transport and working mechanism of transparent photovoltaic cells. <i>Applied Materials Today</i> , 2022 , 26, 101344	6.6	1
154	Orbital gating driven by giant Stark effect in tunneling phototransistors. <i>Advanced Materials</i> , 2021 , e2106625	6.6	1
153	Large Surface Photovoltage of WS ₂ /MoS ₂ and MoS ₂ /WS ₂ Vertical Hetero-bilayers. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2601-2606	4	4
152	Enhanced optical absorption in conformally grown MoS ₂ layers on SiO ₂ /Si substrates with SiO ₂ nanopillars with a height of 50 nm. <i>Nanoscale Advances</i> , 2021 , 3, 710-715	5.1	0
151	Electronic structures and optical characteristics of fluorescent pyrazinoquinoxaline assemblies and Au interfaces. <i>Scientific Reports</i> , 2021 , 11, 16978	4.9	0
150	Morphological-Electrical Property Relation in Cu(In,Ga)(S,Se) Solar Cells: Significance of Crystal Grain Growth and Band Grading by Potassium Treatment. <i>Small</i> , 2020 , 16, e2003865	11	7
149	Enhanced photoluminescence of MoS ₂ /Au nanostructures: Nanotriangle and nanohole arrays. <i>Current Applied Physics</i> , 2020 , 20, 703-706	2.6	3
148	MoS Monolayers on Au Nanodot Arrays: Surface Plasmon, Local Strain, and Interfacial Electronic Interaction. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3039-3044	6.4	7
147	Interfacial engineering of a ZnO electron transporting layer using self-assembled monolayers for high performance and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2105-2113	13	33
146	Opposite Polarity Surface Photovoltage of MoS Monolayers on Au Nanodot versus Nanohole Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48991-48997	9.5	4
145	Boosting Solar Cell Performance via Centrally Localized Ag in Solution-Processed Cu(In,Ga)(S,Se) Thin Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36082-36091	9.5	8
144	Polarization-Dependent Light Emission and Charge Creation in MoS Monolayers on Plasmonic Au Nanogratings. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44088-44093	9.5	2
143	Internal Fields in Multilayer WS ₂ /MoS ₂ Heterostructures Epitaxially Grown on Sapphire Substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000033	1.6	1
142	Translucent Photodetector with Blended Nanowires-Metal Oxide Transparent Selective Electrode Utilizing Photovoltaic and Pyro-Phototronic Coupling Effect. <i>Small</i> , 2019 , 15, e1804346	11	19
141	Light-Induced Surface Potential Modification in MoS Monolayers on Au Nanostripe Arrays. <i>Scientific Reports</i> , 2019 , 9, 14434	4.9	7
140	Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. <i>Nanoscale</i> , 2019 , 11, 19586-19594	7.7	22
139	Interference-Enhanced Broadband Absorption of Monolayer MoS ₂ on Sub-100 nm Thick SiO ₂ /Si Substrates: Reflection and Transmission Phase Changes at Interfaces. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701637	4.6	7

138	Layer-by-layer assembled graphene multilayers on multidimensional surfaces for highly durable, scalable, and wearable triboelectric nanogenerators. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3108-3115	13	44
137	Achieving 14.4% Alcohol-Based Solution-Processed Cu(In,Ga)(S,Se) Thin Film Solar Cell through Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9894-9899	9.5	31
136	Influence of perfluorinated ionomer in PEDOT:PSS on the rectification and degradation of organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16012-16028	13	19
135	Electrical Properties of Au/n-GaN Schottky Junctions with an Atomic-Layer-Deposited Al ₂ O ₃ Interlayer. <i>Journal of the Korean Physical Society</i> , 2018 , 73, 349-354	0.6	2
134	Facile Fabrication of a Two-Dimensional TMD/Si Heterojunction Photodiode by Atmospheric-Pressure Plasma-Enhanced Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36136-36143	9.5	10
133	High Photoresponse in Conformally Grown Monolayer MoS on a Rugged Substrate. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40824-40830	9.5	12
132	MoS monolayers on Si and SiO nanocone arrays: influences of 3D dielectric material refractive index on 2D MoS optical absorption. <i>Nanoscale</i> , 2018 , 10, 18920-18925	7.7	6
131	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene/Gold Interface. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800433	4.6	10
130	Broad-Band Photocurrent Enhancement in MoS Layers Directly Grown on Light-Trapping Si Nanocone Arrays. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6314-6319	9.5	15
129	Strong Light Confinement in Metal-Coated Si Nanopillars: Interplay of Plasmonic Effects and Geometric Resonance. <i>Nanoscale Research Letters</i> , 2017 , 12, 151	5	1
128	Direct investigation on energy bandgap of Si added ZnSnO system for stability enhancement by X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , 2017 , 715, 9-15	5.7	17
127	Time-Resolved Pump-Probe Measurement of Optical Rotatory Dispersion in Chiral Metamaterial. <i>Advanced Optical Materials</i> , 2017 , 5, 1700141	8.1	2
126	Routes for realizing high-performing Si solar cells by using periodic structures. <i>Materials Research Bulletin</i> , 2017 , 94, 92-99	5.1	2
125	Upconversion-Triggered Charge Separation in Polymer Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 364-369	6.4	11
124	Highly flexible and semi-transparent Ag ₂ Cu alloy electrodes for high performance flexible thin film heaters. <i>RSC Advances</i> , 2017 , 7, 45484-45494	3.7	21
123	Band Alignment at Au/MoS ₂ Contacts: Thickness Dependence of Exfoliated Flakes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22517-22522	3.8	23
122	Ten-Micrometer-Thick Si Wafers with Ag Nanoclusters: Substrate Effects on Plasmon-Enhanced Optical Absorption. <i>Plasmonics</i> , 2017 , 12, 405-410	2.4	
121	Conducting LaAlO ₃ /SrTiO ₃ heterointerfaces on atomically-flat substrates prepared by deionized-water. <i>Scientific Reports</i> , 2016 , 6, 23621	4.9	3

120	Mie Resonance-Modulated Spatial Distributions of Photogenerated Carriers in Poly(3-hexylthiophene-2,5-diyl)/Silicon Nanopillars. <i>Scientific Reports</i> , 2016 , 6, 29472	4.9	5
119	A comparative electrical transport study on Cu/n-type InP Schottky diode measured at 300 and 100 K. <i>Current Applied Physics</i> , 2016 , 16, 37-44	2.6	5
118	Surface photovoltage characterizations of Si nanopillar arrays for verifying field-effect passivation using a SiNx layer. <i>Current Applied Physics</i> , 2016 , 16, 141-144	2.6	4
117	Enhanced organic solar cells efficiency through electronic and electro-optic effects resulting from charge transfers in polymer hole transport blends. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4252-4263	13	20
116	Epitaxial Brownmillerite Oxide Thin Films for Reliable Switching Memory. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7902-11	9.5	48
115	Enhanced metallic properties of SrRuO ₃ thin films via kinetically controlled pulsed laser epitaxy. <i>Applied Physics Letters</i> , 2016 , 109, 161902	3.4	12
114	Optical and electrical properties of Cu-based all oxide semi-transparent photodetector. <i>Applied Physics Letters</i> , 2016 , 109, 101902	3.4	17
113	Influence of Gas Adsorption and Gold Nanoparticles on the Electrical Properties of CVD-Grown MoS ₂ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21612-7	9.5	13
112	Fractal Nature of Metallic and Insulating Domain Configurations in a VO ₂ Thin Film Revealed by Kelvin Probe Force Microscopy. <i>Scientific Reports</i> , 2015 , 5, 10417	4.9	28
111	Enhanced surface-and-interface coupling in Pd-nanoparticle-coated LaAlO ₃ /SrTiO ₃ heterostructures: strong gas- and photo-induced conductance modulation. <i>Scientific Reports</i> , 2015 , 5, 8531	4.9	23
110	Mie resonance-mediated antireflection effects of Si nanocone arrays fabricated on 8-in. wafers using a nanoimprint technique. <i>Nanoscale Research Letters</i> , 2015 , 10, 164	5	8
109	Transparent conductor-embedding nanocones for selective emitters: optical and electrical improvements of Si solar cells. <i>Scientific Reports</i> , 2015 , 5, 9256	4.9	30
108	Analysis of temperature-dependent current transport mechanism in Cu/n-type Ge Schottky junction. <i>Vacuum</i> , 2015 , 121, 125-128	3.7	1
107	Transparent conductor-embedding nanolens for Si solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 151904	3.4	3
106	Selective photochemical synthesis of Ag nanoparticles on position-controlled ZnO nanorods for the enhancement of yellow-green light emission. <i>Nanoscale</i> , 2015 , 7, 20717-24	7.7	14
105	Chalcogenization-Derived Band Gap Grading in Solution-Processed CuIn _x Ga _(1-x) (Se,S) Thin-Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27391-6	9.5	30
104	Design of surface nanowire arrays for high efficiency thin (100 nm) Si solar cells. <i>Current Applied Physics</i> , 2015 , 15, 34-37	2.6	5
103	Modulation of electrical properties in Cu/n-type InP Schottky junctions using oxygen plasma treatment. <i>Semiconductor Science and Technology</i> , 2015 , 30, 125016	1.8	3

102	Plasmon-Enhanced Surface Photovoltage of ZnO/Ag Nanogratings. <i>Scientific Reports</i> , 2015 , 5, 16727	4.9	12
101	Influence of wetting state on optical reflectance spectra of Si nanopillar arrays. <i>Journal of Applied Physics</i> , 2015 , 118, 213102	2.5	5
100	SiNx layers on nanostructured Si solar cells: Effective for optical absorption and carrier collection. <i>Applied Physics Letters</i> , 2015 , 107, 153101	3.4	7
99	Visualization of local phase transition behaviors near dislocations in epitaxial VO ₂ /TiO ₂ thin films. <i>Applied Physics Letters</i> , 2015 , 107, 171603	3.4	12
98	A simple chemical route for composition graded Cu(In,Ga)S ₂ thin film solar cells: multi-stage paste coating. <i>RSC Advances</i> , 2015 , 5, 103439-103444	3.7	6
97	Indirect probing of defects in unipolar resistive switching NiO _x thin films by Ni K-edge resonant inelastic X-ray scattering. <i>Applied Physics Express</i> , 2015 , 8, 021101	2.4	
96	Forward Current Transport Mechanism of Cu Schottky Barrier Formed on n-type Ge Wafer. <i>Transactions on Electrical and Electronic Materials</i> , 2015 , 16, 151-155	1.7	2
95	Incident light adjustable solar cell by periodic nanolens architecture. <i>Scientific Reports</i> , 2014 , 4, 6879	4.9	38
94	Printable, wide band-gap chalcopyrite thin films for power generating window applications. <i>Scientific Reports</i> , 2014 , 4, 4408	4.9	47
93	Transparent flexible graphene triboelectric nanogenerators. <i>Advanced Materials</i> , 2014 , 26, 3918-25	2.4	313
92	Capturing wetting states in nanopatterned silicon. <i>ACS Nano</i> , 2014 , 8, 885-93	16.7	51
91	Novel architecture of plasmon excitation based on self-assembled nanoparticle arrays for photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1030-5	9.5	4
90	Wafer-scale nanoconical frustum array crystalline silicon solar cells: promising candidates for ultrathin device applications. <i>Nanoscale</i> , 2014 , 6, 9568-73	7.7	25
89	Photophysical, amplified spontaneous emission and charge transport properties of oligofluorene derivatives in thin films. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16941-56	3.6	43
88	Asymmetrically Coupled Plasmonic Core and Nanotriplet Satellites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18659-18667	3.8	10
87	Influence of gas ambient on charge writing at the LaAlO ₃ /SrTiO ₃ heterointerface. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14037-42	9.5	4
86	Cocktails of paste coatings for performance enhancement of CuInGaS ₂ thin-film solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 888-93	9.5	11
85	Effect of oxygen plasma treatment on the electrical properties in Ag/bulk ZnO Schottky diodes. <i>Vacuum</i> , 2014 , 101, 92-97	3.7	21

84	A comparative study of solution-processed low- and high-band-gap chalcopyrite thin-film solar cells. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 135105	3	15
83	Influence of InAs quantum dots on the transport properties of GaAs-based solar cell devices. <i>Current Applied Physics</i> , 2014 , 14, 192-195	2.6	5
82	Polarization-independent light emission enhancement of ZnO/Ag nanograting via surface plasmon polariton excitation and cavity resonance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8602-5	9.5	9
81	Analysis of current transport properties in nonpolar a-plane ZnO-based Schottky diodes. <i>Journal of the Korean Physical Society</i> , 2014 , 65, 751-756	0.6	3
80	Wafer-scale surface roughening for enhanced light extraction of high power AlGaInP-based light-emitting diodes. <i>Optics Express</i> , 2014 , 22 Suppl 3, A723-34	3.3	14
79	Resistance switching in epitaxial SrCoOx thin films. <i>Applied Physics Letters</i> , 2014 , 105, 063507	3.4	29
78	Band gap grading and photovoltaic performance of solution-processed Cu(In,Ga)S2 thin-film solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 27112-8	3.6	9
77	Interface State Effects on Resistive Switching Behaviors of Pt/Nb-Doped SrTiO3 Single-Crystal Schottky Junctions. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, N95-N101	2	23
76	A silicon nanowire photodetector using Au plasmonic nanoantennas. <i>Nano Convergence</i> , 2014 , 1,	9.2	13
75	Effect of the short collection length in silicon microscale wire solar cells. <i>Applied Physics Letters</i> , 2013 , 102, 193904	3.4	27
74	Analysis of interface states and series resistance in Ag/m-plane ZnO Schottky diodes. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 2034-2038	0.6	4
73	Influence of shunt conduction on determining the dominant recombination processes in CIGS thin-film solar cells. <i>Current Applied Physics</i> , 2013 , 13, 37-40	2.6	13
72	Plasmonic Coupling in Three-Dimensional Au Nanoparticle Assemblies Fabricated by Anodic Aluminum Oxide Templates. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6	3.2	2
71	Exciton diffusion in near-infrared absorbing solution-processed organic thin films. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2867-72	3.6	16
70	Conductance spectroscopy of resistive switching Pt/Nb:STO single crystal Schottky junctions in air and vacuum. <i>Current Applied Physics</i> , 2013 , 13, 505-509	2.6	14
69	Multi-level storage in a nano-floating gate MOS capacitor using a stepped control oxide. <i>Microelectronics Reliability</i> , 2013 , 53, 528-532	1.2	
68	Recombination in Cu(In,Ga)Se2 thin-film solar cells containing ordered vacancy compound phases. <i>Thin Solid Films</i> , 2013 , 546, 358-361	2.2	14
67	Nanoscale resistive switching Schottky contacts on self-assembled Pt nanodots on SrTiO(3). <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11668-72	9.5	26

66	Surface-concentrated light and efficient carrier collection in microhole-patterned Si solar cells. <i>Optics Express</i> , 2013 , 21 Suppl 4, A607-15	3.3	15
65	Beneficial roles of Al back reflectors in optical absorption of Si nanowire array solar cells. <i>Journal of Applied Physics</i> , 2013 , 114, 093516	2.5	8
64	Temperature-Dependent Electrical Characteristics of Ag Schottky Contacts to Differently Grown O-Polar Bulk ZnO. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2013 , 135,	2	3
63	Comparative experimental and simulative investigations of radial p-n junction Si microwire array solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 103, 93-97	6.4	19
62	Schottky contacts to polar and nonpolar n-type GaN. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 104-107	0.6	2
61	Electrical properties of Ag Schottky contacts to hydrothermally-grown polar and nonpolar bulk ZnO. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 1314-1318	0.6	4
60	Ferroelectricity-induced resistive switching in Pb(Zr _{0.52} Ti _{0.48})O ₃ /Pr _{0.7} Ca _{0.3} MnO ₃ /Nb-doped SrTiO ₃ epitaxial heterostructure. <i>Applied Physics Letters</i> , 2012 , 100, 113505	3.4	26
59	Effective light management of three-dimensionally patterned transparent conductive oxide layers. <i>Applied Physics Letters</i> , 2012 , 101, 143904	3.4	16
58	Barrier inhomogeneity in Ag Schottky contacts to bulk ZnO grown by different methods. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 509-513	0.6	
57	Ambient effects on electric-field-induced local charge modification of TiO ₂ . <i>Applied Physics Letters</i> , 2012 , 100, 022901	3.4	24
56	Evolution of local work function in epitaxial VO ₂ thin films spanning the metal-insulator transition. <i>Applied Physics Letters</i> , 2012 , 101, 191605	3.4	30
55	Highly selective spectral response with enhanced responsivity of n-ZnO/p-Si radial heterojunction nanowire photodiodes. <i>Applied Physics Letters</i> , 2011 , 98, 033102	3.4	83
54	Ultrathin TiO ₂ Films on ZnO Electron-Collecting Layers of Inverted Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21517-21520	3.8	63
53	Surface-plasmon-enhanced visible-light emission of ZnO/Ag grating structures. <i>Optics Express</i> , 2011 , 19, 5895-901	3.3	20
52	Local current-voltage behaviors of preferentially and randomly textured Cu(In,Ga)Se ₂ thin films investigated by conductive atomic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 1189-1194	2.6	14
51	Characterization of Pt/a-plane GaN Schottky contacts using conductive atomic force microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1413-6	1.3	1
50	Transport characteristics and surface potential distribution of electrically stressed TiO ₂ single crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 949-953	2.6	5
49	Resistance state-dependent barrier inhomogeneity and transport mechanisms in resistive-switching Pt/SrTiO ₃ junctions. <i>Applied Physics Letters</i> , 2011 , 98, 132905	3.4	36

48	Resistive Switching and Transport Characteristics of Cu/a-Si/Si Devices. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 1156-1159	0.6	4
47	Observation of Barrier Inhomogeneity in Pt/a-plane n-type GaN Schottky Contacts. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 1356-1360	0.6	4
46	Current transport in Pt Schottky contacts to a-plane n-type GaN. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 165102	3	28
45	Transport behaviours and nanoscopic resistance profiles of electrically stressed Pt/TiO ₂ /Ti planar junctions. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 505305	3	4
44	Silver Schottky contacts to a-plane bulk ZnO. <i>Journal of Applied Physics</i> , 2010 , 108, 074514	2.5	27
43	Scanning probe lithography for fabrication of Ti metal nanodot arrays. <i>Ultramicroscopy</i> , 2010 , 110, 737-401	4.1	4
42	? Bipolar resistive switching characteristics of Cu/TaO _x /Pt structures. <i>Journal of the Korean Physical Society</i> , 2010 , 56, 846-850	0.6	11
41	Doping-level Dependences of Switching Speeds and the Retention Characteristics of Resistive Switching Pt/SrTiO ₃ Junctions. <i>Journal of the Korean Physical Society</i> , 2010 , 57, 1432-1436	0.6	9
40	Photoluminescence induced by thermal annealing in SrTiO ₃ thin film. <i>Applied Physics Letters</i> , 2009 , 95, 241906	3.4	14
39	Inhomogeneous barrier and hysteretic transport properties of Pt/SrTiO ₃ junctions. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055306	3	11
38	Abnormal resistance switching behaviours of NiO thin films: possible occurrence of both formation and rupturing of conducting channels. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015506	3	12
37	Magnetic properties of insulating RTiO ₃ thin films. <i>Journal of Electroceramics</i> , 2009 , 22, 216-220	1.5	13
36	Occurrence of both unipolar memory and threshold resistance switching in a NiO film. <i>Physical Review Letters</i> , 2009 , 102, 026801	7.4	203
35	Interfacial reactions and resistive switching behaviors of metal/NiO/metal structures. <i>Applied Physics Letters</i> , 2009 , 94, 022906	3.4	21
34	Electronic Structure of the NiO _x Film Fabricated by Using a Thermal Oxidation Technique. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 129-133	0.6	6
33	Role of structural defects in the unipolar resistive switching characteristics of Pt/NiO/Pt structures. <i>Applied Physics Letters</i> , 2008 , 93, 042102	3.4	72
32	Structural Properties and Resistance-Switching Behavior of Thermally Grown NiO Thin Films. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1635-1638	1.4	10
31	Electrode-dependent electrical properties of metal/Nb-doped SrTiO ₃ junctions. <i>Journal of Applied Physics</i> , 2008 , 103, 054106	2.5	103

30	Effects of heat dissipation on unipolar resistance switching in Pt/NiO/Pt capacitors. <i>Applied Physics Letters</i> , 2008 , 92, 183507	3.4	128
29	Random Circuit Breaker Network Model for Unipolar Resistance Switching. <i>Advanced Materials</i> , 2008 , 20, 1154-1159	24	302
28	Growth behaviour of ZnO thin films and nanowires on SrTiO ₃ substrates. <i>Solid State Communications</i> , 2007 , 143, 140-143	1.6	9
27	Reversible Resistance Switching Behaviors of Pt/NiO/Pt Structures. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 5205-5207	1.4	7
26	Surface versus bulk characterizations of electronic inhomogeneity in a VO ₂ thin film. <i>Physical Review B</i> , 2007 , 76,	3.3	46
25	Initial growth behavior and resulting microstructural properties of heteroepitaxial ZnO thin films on sapphire (0001) substrates. <i>Applied Physics Letters</i> , 2007 , 90, 011906	3.4	32
24	Epitaxial growth and the magnetic properties of orthorhombic YTiO ₃ thin films. <i>Applied Physics Letters</i> , 2006 , 89, 182512	3.4	20
23	Fabrication and electrical characteristics of dual-gate ZnO nanorod metaloxide semiconductor field-effect transistors. <i>Nanotechnology</i> , 2006 , 17, S327-S331	3.4	58
22	Fabrication and photoluminescent properties of heteroepitaxial ZnO/Zn _{0.8} Mg _{0.2} O coaxial nanorod heterostructures. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1516-9	3.4	55
21	Interfacial spin interactions of ferromagnetic and antiferromagnetic manganite bilayers. <i>Solid State Communications</i> , 2006 , 137, 545-548	1.6	1
20	Prevention of Si-contaminated nanocone formation during plasma enhanced CVD growth of carbon nanotubes. <i>Carbon</i> , 2005 , 43, 835-840	10.4	5
19	Magnetization reversal of a structurally disordered manganite thin film with perpendicular anisotropy. <i>Physical Review B</i> , 2005 , 71,	3.3	27
18	Self-focused electron beams from pyroelectric LiNbO ₃ crystals and their pattern-replication capability. <i>Journal of Applied Physics</i> , 2004 , 96, 6884-6887	2.5	2
17	Pyroelectric Electron Emission Behaviors of Congruent and Stoichiometric Lithium Niobate Single Crystals. <i>Journal of Electroceramics</i> , 2004 , 13, 293-297	1.5	9
16	Pyroelectric electron emissions and domain inversion of LiNbO ₃ single crystals. <i>Physica B: Condensed Matter</i> , 2004 , 352, 200-205	2.8	10
15	Tilted magnetization of a La _{0.7} Sr _{0.3} MnO ₃ /LaAlO ₃ (001) thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 280, 51-59	2.8	6
14	Multiple Sharp Bendings of Carbon Nanotubes during Growth to Produce Zigzag Morphology. <i>Nano Letters</i> , 2004 , 4, 1781-1784	11.5	49
13	Patterned Pyroelectric Electron Emitters and their Feasibility Study for Lithography Applications. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 3523-3525	1.4	7

12	Domain nucleation and growth of La _{0.7} Ca _{0.3} MnO ₃ /LaAlO ₃ films studied by low temperature magnetic force microscopy. <i>Journal of Applied Physics</i> , 2003 , 93, 8319-8321	2.5	13
11	Influence of microstructures on exchange bias behaviors of La _{0.7} Sr _{0.3} MnO ₃ /La _{0.33} Ca _{0.67} MnO ₃ bilayers. <i>Solid State Communications</i> , 2003 , 125, 305-309	1.6	12
10	Superparamagnetism in Co-ion-implanted anatase TiO ₂ thin films and effects of postannealing. <i>Applied Physics Letters</i> , 2003 , 83, 4574-4576	3.4	39
9	Investigations on the nature of observed ferromagnetism and possible spin polarization in Co-doped anatase TiO ₂ thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 6125-6132	2.5	52
8	Properties of La _{0.7} Sr _{0.3} MnO ₃ thin films grown on gallium nitrides. <i>Solid State Communications</i> , 2002 , 121, 631-634	1.6	4
7	Electrical properties of SrVO ₃ /SrTiO ₃ superlattices grown by laser molecular beam epitaxy. <i>Solid State Communications</i> , 2000 , 114, 473-476	1.6	27
6	Interface chemistry and electrical properties of SrVO ₃ /LaAlO ₃ heterostructures. <i>Journal of Applied Physics</i> , 2000 , 88, 7056-7059	2.5	8
5	Atomic control of homoepitaxial SrTiO ₃ films using laser molecular beam epitaxy. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 313, 246-254	1.3	8
4	Roles of the first atomic layers in growth of SrTiO ₃ films on LaAlO ₃ substrates. <i>Applied Physics Letters</i> , 1999 , 74, 2176-2178	3.4	50
3	Structural and nonlinear optical properties of epitaxial LiNbO ₃ films grown by pulsed laser deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998 , 56, 251-255	3.1	25
2	Structural and Optical Properties of LiNbO ₃ Films Grown by Pulsed Laser Deposition with a Shadow Mask. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 2016-2020	1.4	13
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