Dong-Wook Kim

List of Publications by Citations

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	Transparent flexible graphene triboelectric nanogenerators. *Advanced Materials*, **2014**, 26, 3918-25	24	313
154	Random Circuit Breaker Network Model for Unipolar Resistance Switching. *Advanced Materials*, **2008**, 20, 1154-1159	24	302
153	Occurrence of both unipolar memory and threshold resistance switching in a NiO film. *Physical Review Letters*, **2009**, 102, 026801	7.4	203
152	Effects of heat dissipation on unipolar resistance switching in Pt/NiO/Pt capacitors. *Applied Physics Letters*, **2008**, 92, 183507	3.4	128
151	Electrode-dependent electrical properties of metal/Nb-doped SrTiO3 junctions. *Journal of Applied Physics*, **2008**, 103, 054106	2.5	103
150	Highly selective spectral response with enhanced responsivity of n-ZnO/p-Si radial heterojunction nanowire photodiodes. *Applied Physics Letters*, **2011**, 98, 033102	3.4	83
149	Role of structural defects in the unipolar resistive switching characteristics of Pt/NiO/Pt structures. *Applied Physics Letters*, **2008**, 93, 042102	3.4	72
148	Ultrathin TiO2 Films on ZnO Electron-Collecting Layers of Inverted Organic Solar Cell. *Journal of Physical Chemistry C*, **2011**, 115, 21517-21520	3.8	63
147	Fabrication and electrical characteristics of dual-gate ZnO nanorod metal–oxide semiconductor field-effect transistors. *Nanotechnology*, **2006**, 17, S327-S331	3.4	58
146	Fabrication and photoluminescent properties of heteroepitaxial ZnO/Zn0.8Mg0.2O coaxial nanorod heterostructures. *Journal of Physical Chemistry B*, **2006**, 110, 1516-9	3.4	55
145	Investigations on the nature of observed ferromagnetism and possible spin polarization in Co-doped anatase TiO2 thin films. *Journal of Applied Physics*, **2003**, 93, 6125-6132	2.5	52
144	Capturing wetting states in nanopatterned silicon. *ACS Nano*, **2014**, 8, 885-93	16.7	51
143	Roles of the first atomic layers in growth of SrTiO3 films on LaAlO3 substrates. *Applied Physics Letters*, **1999**, 74, 2176-2178	3.4	50
142	Multiple Sharp Bendings of Carbon Nanotubes during Growth to Produce Zigzag Morphology. *Nano Letters*, **2004**, 4, 1781-1784	11.5	49
141	Epitaxial Brownmillerite Oxide Thin Films for Reliable Switching Memory. *ACS Applied Materials & Interfaces*, **2016**, 8, 7902-11	9.5	48
140	Printable, wide band-gap chalcopyrite thin films for power generating window applications. *Scientific Reports*, **2014**, 4, 4408	4.9	47
139	Surface versus bulk characterizations of electronic inhomogeneity in a VO2 thin film. *Physical Review B*, **2007**, 76,	3.3	46

138	Layer-by-layer assembled graphene multilayers on multidimensional surfaces for highly durable, scalable, and wearable triboelectric nanogenerators. *Journal of Materials Chemistry A*, **2018**, 6, 3108-3115	13	44
137	Photophysical, amplified spontaneous emission and charge transport properties of oligofluorene derivatives in thin films. *Physical Chemistry Chemical Physics*, **2014**, 16, 16941-56	3.6	43
136	Superparamagnetism in Co-ion-implanted anatase TiO2 thin films and effects of postannealing. *Applied Physics Letters*, **2003**, 83, 4574-4576	3.4	39
135	Incident light adjustable solar cell by periodic nanolens architecture. *Scientific Reports*, **2014**, 4, 6879	4.9	38
134	Resistance state-dependent barrier inhomogeneity and transport mechanisms in resistive-switching Pt/SrTiO3 junctions. *Applied Physics Letters*, **2011**, 98, 132905	3.4	36
133	Interfacial engineering of a ZnO electron transporting layer using self-assembled monolayers for high performance and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 2105-2113	13	33
132	Initial growth behavior and resulting microstructural properties of heteroepitaxial ZnO thin films on sapphire (0001) substrates. *Applied Physics Letters*, **2007**, 90, 011906	3.4	32
131	Achieving 14.4% Alcohol-Based Solution-Processed Cu(In,Ga)(S,Se) Thin Film Solar Cell through Interface Engineering. *ACS Applied Materials & Interfaces*, **2018**, 10, 9894-9899	9.5	31
130	Transparent conductor-embedding nanocones for selective emitters: optical and electrical improvements of Si solar cells. *Scientific Reports*, **2015**, 5, 9256	4.9	30
129	Chalcogenization-Derived Band Gap Grading in Solution-Processed CuIn(x)Ga(1-x)(Se,S)□Thin-Film Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 27391-6	9.5	30
128	Evolution of local work function in epitaxial VO2 thin films spanning the metal-insulator transition. *Applied Physics Letters*, **2012**, 101, 191605	3.4	30
127	Resistance switching in epitaxial SrCoOx thin films. *Applied Physics Letters*, **2014**, 105, 063507	3.4	29
126	Fractal Nature of Metallic and Insulating Domain Configurations in a VO2 Thin Film Revealed by Kelvin Probe Force Microscopy. *Scientific Reports*, **2015**, 5, 10417	4.9	28
125	Current transport in Pt Schottky contacts toa-plane n-type GaN. *Journal Physics D: Applied Physics*, **2010**, 43, 165102	3	28
124	Effect of the short collection length in silicon microscale wire solar cells. *Applied Physics Letters*, **2013**, 102, 193904	3.4	27
123	Silver Schottky contacts to a-plane bulk ZnO. *Journal of Applied Physics*, **2010**, 108, 074514	2.5	27
122	Magnetization reversal of a structurally disordered manganite thin film with perpendicular anisotropy. *Physical Review B*, **2005**, 71,	3.3	27
121	Electrical properties of SrVO3/SrTiO3 superlattices grown by laser molecular beam epitaxy. *Solid State Communications*, **2000**, 114, 473-476	1.6	27

120	Ferroelectricity-induced resistive switching in Pb(Zr0.52Ti0.48)O3/Pr0.7Ca0.3MnO3/Nb-doped SrTiO3 epitaxial heterostructure. *Applied Physics Letters*, **2012**, 100, 113505	3.4	26
119	Nanoscale resistive switching Schottky contacts on self-assembled Pt nanodots on SrTiO(3). *ACS Applied Materials & Interfaces*, **2013**, 5, 11668-72	9.5	26
118	Wafer-scale nanoconical frustum array crystalline silicon solar cells: promising candidates for ultrathin device applications. *Nanoscale*, **2014**, 6, 9568-73	7.7	25
117	Structural and nonlinear optical properties of epitaxial LiNbO3 films grown by pulsed laser deposition. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1998**, 56, 251-255	3.1	25
116	Ambient effects on electric-field-induced local charge modification of TiO2. *Applied Physics Letters*, **2012**, 100, 022901	3.4	24
115	Band Alignment at Au/MoS2 Contacts: Thickness Dependence of Exfoliated Flakes. *Journal of Physical Chemistry C*, **2017**, 121, 22517-22522	3.8	23
114	Enhanced surface-and-interface coupling in Pd-nanoparticle-coated LaAlO3/SrTiO3 heterostructures: strong gas- and photo-induced conductance modulation. *Scientific Reports*, **2015**, 5, 8531	4.9	23
113	Interface State Effects on Resistive Switching Behaviors of Pt/Nb-Doped SrTiO3Single-Crystal Schottky Junctions. *ECS Journal of Solid State Science and Technology*, **2014**, 3, N95-N101	2	23
112	Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. *Nanoscale*, **2019**, 11, 19586-19594	7.7	22
111	Highly flexible and semi-transparent Ag□u alloy electrodes for high performance flexible thin film heaters. *RSC Advances*, **2017**, 7, 45484-45494	3.7	21
110	Effect of oxygen plasma treatment on the electrical properties in Ag/bulk ZnO Schottky diodes. *Vacuum*, **2014**, 101, 92-97	3.7	21
109	Interfacial reactions and resistive switching behaviors of metal/NiO/metal structures. *Applied Physics Letters*, **2009**, 94, 022906	3.4	21
108	Enhanced organic solar cells efficiency through electronic and electro-optic effects resulting from charge transfers in polymer hole transport blends. *Journal of Materials Chemistry A*, **2016**, 4, 4252-4263	13	20
107	Surface-plasmon-enhanced visible-light emission of ZnO/Ag grating structures. *Optics Express*, **2011**, 19, 5895-901	3.3	20
106	Epitaxial growth and the magnetic properties of orthorhombic YTiO3 thin films. *Applied Physics Letters*, **2006**, 89, 182512	3.4	20
105	Translucent Photodetector with Blended Nanowires-Metal Oxide Transparent Selective Electrode Utilizing Photovoltaic and Pyro-Phototronic Coupling Effect. *Small*, **2019**, 15, e1804346	11	19
104	Influence of perfluorinated ionomer in PEDOT:PSS on the rectification and degradation of organic photovoltaic cells. *Journal of Materials Chemistry A*, **2018**, 6, 16012-16028	13	19
103	Comparative experimental and simulative investigations of radial p□ junction Si microwire array solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 103, 93-97	6.4	19

102	Direct investigation on energy bandgap of Si added ZnSnO system for stability enhancement by X-ray photoelectron spectroscopy. *Journal of Alloys and Compounds*, **2017**, 715, 9-15	5.7	17
101	Optical and electrical properties of Cu-based all oxide semi-transparent photodetector. *Applied Physics Letters*, **2016**, 109, 101902	3.4	17
100	Exciton diffusion in near-infrared absorbing solution-processed organic thin films. *Physical Chemistry Chemical Physics*, **2013**, 15, 2867-72	3.6	16
99	Effective light management of three-dimensionally patterned transparent conductive oxide layers. *Applied Physics Letters*, **2012**, 101, 143904	3.4	16
98	Broad-Band Photocurrent Enhancement in MoS Layers Directly Grown on Light-Trapping Si Nanocone Arrays. *ACS Applied Materials & Interfaces*, **2017**, 9, 6314-6319	9.5	15
97	A comparative study of solution-processed low- and high-band-gap chalcopyrite thin-film solar cells. *Journal Physics D: Applied Physics*, **2014**, 47, 135105	3	15
96	Surface-concentrated light and efficient carrier collection in microhole-patterned Si solar cells. *Optics Express*, **2013**, 21 Suppl 4, A607-15	3.3	15
95	Selective photochemical synthesis of Ag nanoparticles on position-controlled ZnO nanorods for the enhancement of yellow-green light emission. *Nanoscale*, **2015**, 7, 20717-24	7.7	14
94	Conductance spectroscopy of resistive switching Pt/Nb:STO single crystal Schottky junctions in air and vacuum. *Current Applied Physics*, **2013**, 13, 505-509	2.6	14
93	Wafer-scale surface roughening for enhanced light extraction of high power AlGaInP-based light-emitting diodes. *Optics Express*, **2014**, 22 Suppl 3, A723-34	3.3	14
92	Recombination in Cu(In,Ga)Se2 thin-film solar cells containing ordered vacancy compound phases. *Thin Solid Films*, **2013**, 546, 358-361	2.2	14
91	Local current–voltage behaviors of preferentially and randomly textured Cu(In,Ga)Se2 thin films investigated by conductive atomic force microscopy. *Applied Physics A: Materials Science and Processing*, **2011**, 104, 1189-1194	2.6	14
90	Photoluminescence induced by thermal annealing in SrTiO3 thin film. *Applied Physics Letters*, **2009**, 95, 241906	3.4	14
89	Influence of shunt conduction on determining the dominant recombination processes in CIGS thin-film solar cells. *Current Applied Physics*, **2013**, 13, 37-40	2.6	13
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87	Magnetic properties of insulating RTiO3 thin films. *Journal of Electroceramics*, **2009**, 22, 216-220	1.5	13
86	Domain nucleation and growth of La0.7Ca0.3MnO3/LaAlO3 films studied by low temperature magnetic force microscopy. *Journal of Applied Physics*, **2003**, 93, 8319-8321	2.5	13
85	Structural and Optical Properties of LiNbO3Films Grown by Pulsed Laser Deposition with a Shadow Mask. *Japanese Journal of Applied Physics*, **1998**, 37, 2016-2020	1.4	13

84	Influence of Gas Adsorption and Gold Nanoparticles on the Electrical Properties of CVD-Grown MoS2 Thin Films. *ACS Applied Materials & Interfaces*, **2016**, 8, 21612-7	9.5	13
83	Plasmon-Enhanced Surface Photovoltage of ZnO/Ag Nanogratings. *Scientific Reports*, **2015**, 5, 16727	4.9	12
82	Visualization of local phase transition behaviors near dislocations in epitaxial VO2/TiO2 thin films. *Applied Physics Letters*, **2015**, 107, 171603	3.4	12
81	Abnormal resistance switching behaviours of NiO thin films: possible occurrence of both formation and rupturing of conducting channels. *Journal Physics D: Applied Physics*, **2009**, 42, 015506	3	12
80	Influence of microstructures on exchange bias behaviors of La0.7Sr0.3MnO3/La0.33Ca0.67MnO3 bilayers. *Solid State Communications*, **2003**, 125, 305-309	1.6	12
79	Enhanced metallic properties of SrRuO3 thin films via kinetically controlled pulsed laser epitaxy. *Applied Physics Letters*, **2016**, 109, 161902	3.4	12
78	High Photoresponse in Conformally Grown Monolayer MoS on a Rugged Substrate. *ACS Applied Materials & Interfaces*, **2018**, 10, 40824-40830	9.5	12
77	Upconversion-Triggered Charge Separation in Polymer Semiconductors. *Journal of Physical Chemistry Letters*, **2017**, 8, 364-369	6.4	11
76	Cocktails of paste coatings for performance enhancement of CuInGaS(2) thin-film solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 888-93	9.5	11
75	Inhomogeneous barrier and hysteretic transport properties of Pt/SrTiO3junctions. *Journal Physics D: Applied Physics*, **2009**, 42, 055306	3	11
74	? Bipolar resistive switching characteristics of Cu/TaOx/Pt structures. *Journal of the Korean Physical Society*, **2010**, 56, 846-850	0.6	11
73	Asymmetrically Coupled Plasmonic Core and Nanotriplet Satellites. *Journal of Physical Chemistry C*, **2014**, 118, 18659-18667	3.8	10
72	Structural Properties and Resistance-Switching Behavior of Thermally Grown NiO Thin Films. *Japanese Journal of Applied Physics*, **2008**, 47, 1635-1638	1.4	10
71	Pyroelectric electron emissions and domain inversion of LiNbO3 single crystals. *Physica B: Condensed Matter*, **2004**, 352, 200-205	2.8	10
70	Facile Fabrication of a Two-Dimensional TMD/Si Heterojunction Photodiode by Atmospheric-Pressure Plasma-Enhanced Chemical Vapor Deposition. *ACS Applied Materials & Interfaces*, **2018**, 10, 36136-36143	9.5	10
69	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene□old Interface. *Advanced Materials Interfaces*, **2018**, 5, 1800433	4.6	10
68	Polarization-independent light emission enhancement of ZnO/Ag nanograting via surface plasmon polariton excitation and cavity resonance. *ACS Applied Materials & Interfaces*, **2014**, 6, 8602-5	9.5	9
67	Band gap grading and photovoltaic performance of solution-processed Cu(In,Ga)S2 thin-film solar cells. *Physical Chemistry Chemical Physics*, **2014**, 16, 27112-8	3.6	9

66	Growth behaviour of ZnO thin films and nanowires on SrTiO3 substrates. *Solid State Communications*, **2007**, 143, 140-143	1.6	9
65	Pyroelectric Electron Emission Behaviors of Congruent and Stoichiometric Lithium Niobate Single Crystals. *Journal of Electroceramics*, **2004**, 13, 293-297	1.5	9
64	Doping-level Dependences of Switching Speeds and the Retention Characteristics of Resistive Switching Pt/SrTiO3 Junctions. *Journal of the Korean Physical Society*, **2010**, 57, 1432-1436	0.6	9
63	Mie resonance-mediated antireflection effects of Si nanocone arrays fabricated on 8-in. wafers using a nanoimprint technique. *Nanoscale Research Letters*, **2015**, 10, 164	5	8
62	Beneficial roles of Al back reflectors in optical absorption of Si nanowire array solar cells. *Journal of Applied Physics*, **2013**, 114, 093516	2.5	8
61	Interface chemistry and electrical properties of SrVO3/LaAlO3 heterostructures. *Journal of Applied Physics*, **2000**, 88, 7056-7059	2.5	8
60	Atomic control of homoepitaxial SrTiO3 films using laser molecular beam epitaxy. *Physica C: Superconductivity and Its Applications*, **1999**, 313, 246-254	1.3	8
59	Boosting Solar Cell Performance via Centrally Localized Ag in Solution-Processed Cu(In,Ga)(S,Se) Thin Film Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 36082-36091	9.5	8
58	Morphological-Electrical Property Relation in Cu(In,Ga)(S,Se) Solar Cells: Significance of Crystal Grain Growth and Band Grading by Potassium Treatment. *Small*, **2020**, 16, e2003865	11	7
57	MoS Monolayers on Au Nanodot Arrays: Surface Plasmon, Local Strain, and Interfacial Electronic Interaction. *Journal of Physical Chemistry Letters*, **2020**, 11, 3039-3044	6.4	7
56	Interference-Enhanced Broadband Absorption of Monolayer MoS2 on Sub-100 nm Thick SiO2/Si Substrates: Reflection and Transmission Phase Changes at Interfaces. *Advanced Materials Interfaces* , **2018**, 5, 1701637	4.6	7
55	Light-Induced Surface Potential Modification in MoS Monolayers on Au Nanostripe Arrays. *Scientific Reports*, **2019**, 9, 14434	4.9	7
54	SiNx layers on nanostructured Si solar cells: Effective for optical absorption and carrier collection. *Applied Physics Letters*, **2015**, 107, 153101	3.4	7
53	Reversible Resistance Switching Behaviors of Pt/NiO/Pt Structures. *Japanese Journal of Applied Physics*, **2007**, 46, 5205-5207	1.4	7
52	Patterned Pyroelectric Electron Emitters and their Feasibility Study for Lithography Applications. *Japanese Journal of Applied Physics*, **2003**, 42, 3523-3525	1.4	7
51	A simple chemical route for composition graded Cu(In,Ga)S2 thin film solar cells: multi-stage paste coating. *RSC Advances*, **2015**, 5, 103439-103444	3.7	6
50	Tilted magnetization of a La0.7Sr0.3MnO3/LaAlO3 (001) thin film. *Journal of Magnetism and Magnetic Materials*, **2004**, 280, 51-59	2.8	6
49	Electronic Structure of the NiO$_{x}$ Film Fabricated by Using aThermal Oxidation Technique. *Journal of the Korean Physical Society*, **2009**, 55, 129-133	0.6	6

48	MoS monolayers on Si and SiO nanocone arrays: influences of 3D dielectric material refractive index on 2D MoS optical absorption. *Nanoscale*, **2018**, 10, 18920-18925	7.7	6
47	Design of surface nanowire arrays for high efficiency thin (≤10 μm) Si solar cells. *Current Applied Physics*, **2015**, 15, 34-37	2.6	5
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45	A comparative electrical transport study on Cu/n-type InP Schottky diode measured at 300 and 100 K. *Current Applied Physics*, **2016**, 16, 37-44	2.6	5
44	Influence of InAs quantum dots on the transport properties of GaAs-based solar cell devices. *Current Applied Physics*, **2014**, 14, 192-195	2.6	5
43	Influence of wetting state on optical reflectance spectra of Si nanopillar arrays. *Journal of Applied Physics*, **2015**, 118, 213102	2.5	5
42	Transport characteristics and surface potential distribution of electrically stressed TiO2 single crystals. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 949-953	2.6	5
41	Prevention of Si-contaminated nanocone formation during plasma enhanced CVD growth of carbon nanotubes. *Carbon*, **2005**, 43, 835-840	10.4	5
40	Surface photovoltage characterizations of Si nanopillar arrays for verifying field-effect passivation using a SiNx layer. *Current Applied Physics*, **2016**, 16, 141-144	2.6	4
39	Novel architecture of plasmon excitation based on self-assembled nanoparticle arrays for photovoltaics. *ACS Applied Materials & Interfaces*, **2014**, 6, 1030-5	9.5	4
38	Influence of gas ambient on charge writing at the LaAlO/SrTiO heterointerface. *ACS Applied Materials & Interfaces*, **2014**, 6, 14037-42	9.5	4
37	Analysis of interface states and series resistance in Ag/m-plane ZnO Schottky diodes. *Journal of the Korean Physical Society*, **2013**, 63, 2034-2038	0.6	4
36	Electrical properties of Ag Schottky contacts to hydrothermally-grown polar and nonpolar bulk ZnO. *Journal of the Korean Physical Society*, **2012**, 61, 1314-1318	0.6	4
35	Transport behaviours and nanoscopic resistance profiles of electrically stressed Pt/TiO2/Ti planar junctions. *Journal Physics D: Applied Physics*, **2010**, 43, 505305	3	4
34	Scanning probe lithography for fabrication of Ti metal nanodot arrays. *Ultramicroscopy*, **2010**, 110, 737-40	3.1	4
33	Properties of La0.7Sr0.3MnO3 thin films grown on gallium nitrides. *Solid State Communications*, **2002**, 121, 631-634	1.6	4
32	Resistive Switching and Transport Characteristics of Cu/a-Si/Si Devices. *Journal of the Korean Physical Society*, **2011**, 58, 1156-1159	0.6	4
31	Observation of Barrier Inhomogeneity in Pt/a-plane n-type GaN Schottky Contacts. *Journal of the Korean Physical Society*, **2011**, 58, 1356-1360	0.6	4

30	Opposite Polarity Surface Photovoltage of MoS Monolayers on Au Nanodot versus Nanohole Arrays. *ACS Applied Materials & Interfaces*, **2020**, 12, 48991-48997	9.5	4
29	Large Surface Photovoltage of WS2/MoS2 and MoS2/WS2 Vertical Hetero-bilayers. *ACS Applied Electronic Materials*, **2021**, 3, 2601-2606	4	4
28	Transparent conductor-embedding nanolens for Si solar cells. *Applied Physics Letters*, **2015**, 106, 151904	3.4	3
27	Enhanced photoluminescence of MoS2/Au nanostructures: Nanotriangle and nanohole arrays. *Current Applied Physics*, **2020**, 20, 703-706	2.6	3
26	Conducting LaAlO3/SrTiO3 heterointerfaces on atomically-flat substrates prepared by deionized-water. *Scientific Reports*, **2016**, 6, 23621	4.9	3
25	Modulation of electrical properties in Cu/n-type InP Schottky junctions using oxygen plasma treatment. *Semiconductor Science and Technology*, **2015**, 30, 125016	1.8	3
24	Analysis of current transport properties in nonpolar a-plane ZnO-based Schottky diodes. *Journal of the Korean Physical Society*, **2014**, 65, 751-756	0.6	3
23	Temperature-Dependent Electrical Characteristics of Ag Schottky Contacts to Differently Grown O-Polar Bulk ZnO. *Journal of Electronic Packaging, Transactions of the ASME*, **2013**, 135,	2	3
22	Time-Resolved Pump/Probe Measurement of Optical Rotatory Dispersion in Chiral Metamaterial. *Advanced Optical Materials*, **2017**, 5, 1700141	8.1	2
21	Routes for realizing high-performing Si solar cells by using periodic structures. *Materials Research Bulletin*, **2017**, 94, 92-99	5.1	2
20	Electrical Properties of Au/n-GaN Schottky Junctions with an Atomic-Layer-Deposited Al2O3 Interlayer. *Journal of the Korean Physical Society*, **2018**, 73, 349-354	0.6	2
19	Plasmonic Coupling in Three-Dimensional Au Nanoparticle Assemblies Fabricated by Anodic Aluminum Oxide Templates. *Journal of Nanomaterials*, **2013**, 2013, 1-6	3.2	2
18	Schottky contacts to polar and nonpolar n-type GaN. *Journal of the Korean Physical Society*, **2012**, 60, 104-107	0.6	2
17	Self-focused electron beams from pyroelectric LiNbO3 crystals and their pattern-replication capability. *Journal of Applied Physics*, **2004**, 96, 6884-6887	2.5	2
16	Forward Current Transport Mechanism of Cu Schottky Barrier Formed on n-type Ge Wafer. *Transactions on Electrical and Electronic Materials*, **2015**, 16, 151-155	1.7	2
15	Polarization-Dependent Light Emission and Charge Creation in MoS Monolayers on Plasmonic Au Nanogratings. *ACS Applied Materials & Interfaces*, **2020**, 12, 44088-44093	9.5	2
14	Strong Light Confinement in Metal-Coated Si Nanopillars: Interplay of Plasmonic Effects and Geometric Resonance. *Nanoscale Research Letters*, **2017**, 12, 151	5	1
13	Analysis of temperature-dependent current transport mechanism in Cu/n-type Ge Schottky junction. *Vacuum*, **2015**, 121, 125-128	3.7	1

12	Characterization of Pt/a-plane GaN Schottky contacts using conductive atomic force microscopy. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 1413-6	1.3	1
11	Interfacial spin interactions of ferromagnetic and antiferromagnetic manganite bilayers. *Solid State Communications*, **2006**, 137, 545-548	1.6	1
10	Orbital gating driven by giant Stark effect in tunneling phototransistors. *Advanced Materials*, **2021**, e2106625	2.4	1
9	Carrier transport and working mechanism of transparent photovoltaic cells. *Applied Materials Today* , **2022**, 26, 101344	6.6	1
8	Internal Fields in Multilayer WS2/MoS2 Heterostructures Epitaxially Grown on Sapphire Substrates. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 2000033	1.6	1
7	Enhanced optical absorption in conformally grown MoS2 layers on SiO2/Si substrates with SiO2 nanopillars with a height of 50 nm. *Nanoscale Advances*, **2021**, 3, 710-715	5.1	0
6	Electronic structures and optical characteristics of fluorescent pyrazinoquinoxaline assemblies and Au interfaces. *Scientific Reports*, **2021**, 11, 16978	4.9	0
5	Ten-Micrometer-Thick Si Wafers with Ag Nanoclusters: Substrate Effects on Plasmon-Enhanced Optical Absorption. *Plasmonics*, **2017**, 12, 405-410	2.4	
4	Indirect probing of defects in unipolar resistive switching NiOxthin films by Ni K-edge resonant inelastic X-ray scattering. *Applied Physics Express*, **2015**, 8, 021101	2.4	
3	Barrier inhomogeneity in Ag Schottky contacts to bulk ZnO grown by different methods. *Journal of the Korean Physical Society*, **2012**, 60, 509-513	0.6	
2	Multi-level storage in a nano-floating gate MOS capacitor using a stepped control oxide. *Microelectronics Reliability*, **2013**, 53, 528-532	1.2	
1	Poster: Memristive Systems523-587		