

Kibog Park

List of Publications by Year in descending order

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52
papers

1,196
citations

430754

18
h-index

377752

34
g-index

54
all docs

54
docs citations

54
times ranked

2319
citing authors

#	ARTICLE	IF	CITATIONS
1	Near room-temperature synthesis of transfer-free graphene films. <i>Nature Communications</i> , 2012, 3, 645.	5.8	205
2	Growth and characterization of In^{2+} -Ga ₂ O ₃ thin films by molecular beam epitaxy for deep-UV photodetectors. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	124
3	Negative Poisson's ratios in metal nanoplates. <i>Nature Communications</i> , 2014, 5, 3255.	5.8	112
4	Research on flexible display at Ulsan National Institute of Science and Technology. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	59
5	Growth and Simultaneous Valleys Manipulation of Two-Dimensional MoSe ₂ -WSe ₂ Lateral Heterostructure. <i>ACS Nano</i> , 2017, 11, 8822-8829.	7.3	54
6	Growth of Wrinkle-Free Graphene on Texture-Controlled Platinum Films and Thermal-Assisted Transfer of Large-Scale Patterned Graphene. <i>ACS Nano</i> , 2015, 9, 679-686.	7.3	52
7	High-Performance Plasmonic THz Detector Based on Asymmetric FET With Vertically Integrated Antenna in CMOS Technology. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 1742-1748.	1.6	41
8	Stretchable Dual-Capacitor Multi-Sensor for Touch-Curvature-Pressure-Strain Sensing. <i>Scientific Reports</i> , 2017, 7, 10854.	1.6	37
9	On-Display Transparent Half-Diamond Pattern Capacitive Fingerprint Sensor Compatible With AMOLED Display. <i>IEEE Sensors Journal</i> , 2016, 16, 8124-8131.	2.4	35
10	One-step graphene coating of heteroepitaxial GaN films. <i>Nanotechnology</i> , 2012, 23, 435603.	1.3	33
11	Monolithic graphene oxide sheets with controllable composition. <i>Nature Communications</i> , 2014, 5, 3383.	5.8	31
12	Quantum well state of self-forming 3C [*] SiC inclusions in 4H-SiC determined by ballistic electron emission microscopy. <i>Physical Review B</i> , 2004, 69, .	1.1	30
13	One-Dimensional Assembly on Two-Dimensions: AuCN Nanowire Epitaxy on Graphene for Hybrid Phototransistors. <i>Nano Letters</i> , 2018, 18, 6214-6221.	4.5	30
14	Facile Synthesis of Few-Layer Graphene with a Controllable Thickness Using Rapid Thermal Annealing. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1777-1782.	4.0	28
15	Strong Fermi-Level Pinning at Metal/n-Si(001) Interface Ensured by Forming an Intact Schottky Contact with a Graphene Insertion Layer. <i>Nano Letters</i> , 2017, 17, 44-49.	4.5	26
16	Performance Enhancement of Plasmonic Sub-Terahertz Detector Based on Antenna Integrated Low-Impedance Silicon MOSFET. <i>IEEE Electron Device Letters</i> , 2015, 36, 220-222.	2.2	23
17	In situ observations of gas phase dynamics during graphene growth using solid-state carbon sources. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10446.	1.3	21
18	Ferroelectric enhancement of La-doped BaTiO ₃ thin films using SrTiO ₃ buffer layer. <i>Thin Solid Films</i> , 2014, 551, 127-130.	0.8	19

#	ARTICLE	IF	CITATIONS
19	Logarithmic temperature variations of the elastic constant of barium titanate near the ferroelectric phase transition. <i>Current Applied Physics</i> , 2012, 12, 1185-1189.	1.1	18
20	Schottky barrier modulation of metal/4H-SiC junction with thin interface spacer driven by surface polarization charge on 4H-SiC substrate. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	17
21	Effect of inclined quantum wells on macroscopic capacitance-voltage response of Schottky contacts: Cubic inclusions in hexagonal SiC. <i>Applied Physics Letters</i> , 2005, 86, 222109.	1.5	15
22	Quantum well behavior of single stacking fault 3C inclusions in 4H-SiC p-i-n diodes studied by ballistic electron emission microscopy. <i>Applied Physics Letters</i> , 2005, 87, 232103.	1.5	15
23	Photoresponse enhancement of plasmonic terahertz wave detector based on asymmetric silicon MOSFETs with antenna integration. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04EJ05.	0.8	14
24	Precursor polar clusters in the paraelectric phase of ferroelectric Ba _{0.80} Ca _{0.20} TiO ₃ single crystals studied by Brillouin light scattering. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 225904.	0.7	12
25	Reduction of water-molecule-induced current-voltage hysteresis in graphene field effect transistor with semi-dry transfer using flexible supporter. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	12
26	Low-temperature formation of epitaxial graphene on 6H-SiC induced by continuous electron beam irradiation. <i>Applied Physics Letters</i> , 2012, 101, 092105.	1.5	11
27	Negative Fermi-Level Pinning Effect of Metal/n-GaAs(001) Junction Induced by a Graphene Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47182-47189.	4.0	11
28	Highly Flexible Touch Screen Panel Fabricated with Silver Nanowire Crossing Electrodes and Transparent Bridges. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 508-513.	0.6	11
29	Valence band structure and band offset of 3C- and 4H-SiC studied by ballistic hole emission microscopy. <i>Applied Physics Letters</i> , 2006, 89, 042103.	1.5	10
30	Design and Characterization of Plasmonic Terahertz Wave Detectors Based on Silicon Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FE17.	0.8	9
31	Simulations of denuded-zone formation during growth on surfaces with anisotropic diffusion. <i>Physical Review B</i> , 2003, 68, .	1.1	8
32	Enhanced Crystallinity of Epitaxial Graphene Grown on Hexagonal SiC Surface with Molybdenum Plate Capping. <i>Scientific Reports</i> , 2015, 5, 9615.	1.6	7
33	Highly-Sensitive Thin Film THz Detector Based on Edge Metal-Semiconductor-Metal Junction. <i>Scientific Reports</i> , 2017, 7, 16830.	1.6	7
34	Low-Cost and Fast-Response Resistive Humidity Sensor Comprising Biopolymer-Derived Carbon Thin Film and Carbon Microelectrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 147511.	1.3	7
35	Giant Electroresistance in Edge Metal-Insulator-Metal Tunnel Junctions Induced by Ferroelectric Fringe Fields. <i>Scientific Reports</i> , 2016, 6, 30646.	1.6	6
36	Capacitive Heart-Rate Sensing on Touch Screen Panel with Laterally Interspaced Electrodes. <i>Sensors</i> , 2020, 20, 3986.	2.1	5

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37	C ₆₀ Adsorbed on TiO ₂ Drives Dark Generation of Hydroxyl Radicals. ACS Catalysis, 2022, 12, 5990-5996.	5.5	5
38	Nanometer-resolution measurement and modeling of lateral variations of the effective work function at the bilayer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mrow} < \text{mml:mtext} > \text{Pt} < \text{mml:mo} > / < \text{mml:mo} > < \text{mml:mtext} > \text{Al} < \text{mml:mo} > / < \text{mml:mo} > < \text{mml:mtext} > \text{Pt} < \text{mml:mo} > / < \text{mml:mo} > < \text{mml:mtext} > \text{Al} < \text{mml:mo} > / < \text{mml:mo} > } \rangle$ Physical Review B, 2009, 80, .	1.1	4
39	Ferroelectric phase transitions studied by dielectric and light scattering spectroscopies on Ba _{1-x} CaTiO ₃ single crystals (x= 0.12, 0.20). Ceramics International, 2012, 38, S21-S24.	2.3	4
40	Unveiling the Direct Correlation between the CVD-Grown Graphene and the Growth Template. Journal of Nanomaterials, 2018, 2018, 1-6.	1.5	4
41	Self-selective ferroelectric memory realized with semimetallic graphene channel. Npj 2D Materials and Applications, 2021, 5, .	3.9	4
42	Dependence of spontaneous polarization on stacking sequence in SiC revealed by local Schottky barrier height variations over a partially formed 8H-SiC layer on a 4H-SiC substrate. Applied Physics Letters, 2011, 99, .	1.5	3
43	TCAD modeling and simulation of non-resonant plasmonic THz detector based on asymmetric silicon MOSFETs. , 2013, , .		3
44	Controllable Synthesis of Graphene-Encapsulated Low-Dimensional Nanocomposites. Advanced Materials Interfaces, 2015, 2, 1500112.	1.9	3
45	Cubic inclusions in 4H-SiC studied with ballistic electron-emission microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1351-1355.	0.9	2
46	Formation of graphene on amorphous SiC film by surface-confined heating with electron beam irradiation. Current Applied Physics, 2018, 18, 335-339.	1.1	2
47	Effect of Ca Content on the Acoustic Anomalies of Ba _{1-x} Ca _x TiO ₃ Single Crystals Studied by Brillouin Light Scattering. Journal of the Korean Physical Society, 2011, 59, 2575-2578.	0.3	2
48	Terahertz antenna compatible with CMOS array detector for a real-time T-ray imaging system. , 2012, , .		1
49	Surface-induced transition of nematic liquid crystals on graphene/SiC substrate. Europhysics Letters, 2018, 124, 46004.	0.7	1
50	Multi-Level Capacitive Memory Effect in Metal/Oxide/Floating-Schottky Junction. Journal of the Korean Physical Society, 2019, 74, 979-983.	0.3	1
51	Optical and microstructural properties of InGaN/GaN multiple quantum wells with embedded graphene coating. Journal of Alloys and Compounds, 2017, 713, 87-94.	2.8	0
52	Edge-over MOSFET with poly-Si thin film channel for achieving thermodynamic limit of subthreshold swing in nanometer scale. Semiconductor Science and Technology, 2019, 34, 095014.	1.0	0