

Jeongwon Park

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.

82 papers	4,690 citations	22 h-index	68 g-index
92 ext. papers	5,189 ext. citations	4.5 avg, IF	5.24 L-index

#	Paper	IF	Citations
82	Vacancy-Induced Thermal Transport and Tensile Mechanical Behavior of Monolayer Honeycomb BeO.. <i>ACS Omega</i> , 2022 , 7, 4525-4537	3.9	2
81	Temperature and interlayer coupling induced thermal transport across graphene/2D-SiC van der Waals heterostructure.. <i>Scientific Reports</i> , 2022 , 12, 761	4.9	0
80	Numerical Investigations of Nanowire Gate-All-Around Negative Capacitance GaAs/InN Tunnel FET. <i>IEEE Access</i> , 2022 , 10, 30323-30334	3.5	1
79	Laser-induced patterning for a diffraction grating using the phase change material of Ge ₂ Sb ₂ Te ₅ (GST) as a spatial light modulator in X-ray optics: a proof of concept. <i>Optical Materials Express</i> , 2022 , 12, 1408	2.6	
78	Tensile Mechanical Behavior and the Fracture Mechanism in Monolayer Group-III Nitrides XN (X= Ga, In): Effect of Temperature and Point Vacancies.. <i>ACS Omega</i> , 2022 , 7, 14678-14689	3.9	0
77	Synthesis of Biogenic Silver Nanocatalyst and their Antibacterial and Organic Pollutants Reduction Ability.. <i>ACS Omega</i> , 2022 , 7, 14723-14734	3.9	2
76	Silicene/ZnIvan der Waals heterostructure: tunable structural and electronic properties. <i>Nanotechnology</i> , 2021 , 32,	3.4	6
75	Thermal transport in monolayer zinc-sulfide: effects of length, temperature and vacancy defects. <i>Nanotechnology</i> , 2021 , 32,	3.4	2
74	Germanene/2D-SiC van der Waals heterobilayer: Structural features and tunable electronic properties. <i>Materials Today Communications</i> , 2021 , 26, 101718	2.5	10
73	Germanene/2D-ALP van der Waals heterostructure: Tunable structural and electronic properties. <i>AIP Advances</i> , 2021 , 11, 015126	1.5	7
72	Exceptional antibacterial and cytotoxic potency of monodisperse greener AgNPs prepared under optimized pH and temperature. <i>Scientific Reports</i> , 2021 , 11, 2866	4.9	24
71	Temperature- and Defect-Induced Uniaxial Tensile Mechanical Behaviors and the Fracture Mechanism of Two-Dimensional Silicon Germanide. <i>ACS Omega</i> , 2021 , 6, 21861-21871	3.9	3
70	Superior tunable photocatalytic properties for water splitting in two dimensional GeC/SiC van der Waals heterobilayers. <i>Scientific Reports</i> , 2021 , 11, 17739	4.9	1
69	Strong tribo-piezoelectric effect in bilayer indium nitride (InN). <i>Scientific Reports</i> , 2021 , 11, 18669	4.9	2
68	Dual source negative capacitance GaSb/InGaAsSb/InAs heterostructure based vertical TFET with steep subthreshold swing and high on-off current ratio. <i>Results in Physics</i> , 2021 , 29, 104796	3.7	0
67	Chirality, temperature, and vacancy effects on mechanical behavior of monolayer zinc-sulfide. <i>Computational Materials Science</i> , 2021 , 200, 110824	3.2	3
66	Effect of Synthesis Methods and Conditions on Properties and Applications of Carbon Dots for the Detection of Potential Water Contaminants: A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2021 , 1-24	5.2	

65	Vacancy-induced thermal transport in two-dimensional silicon carbide: a reverse non-equilibrium molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13592-13602	3.6	18
64	New small-signal extraction method applied to GaN HEMTs on different substrates. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020 , 30, e22291	1.5	1
63	HfO ₂ /TiO ₂ /HfO ₂ tri-layer high-K gate oxide based MoS ₂ negative capacitance FET with steep subthreshold swing. <i>AIP Advances</i> , 2020 , 10, 035202	1.5	3
62	Temperature-induced localized exciton dynamics in mixed lead-free based CH ₃ NH ₃ Pb _{1-x} Sn _x I ₃ perovskite materials. <i>AIP Advances</i> , 2020 , 10, 065331	1.5	2
61	Combined effect of ¹³ C isotope and vacancies on the phonon properties in AB stacked bilayer graphene. <i>Carbon</i> , 2020 , 168, 22-31	10.4	8
60	Interlayer vacancy effects on the phonon modes in AB stacked bilayer graphene nanoribbon. <i>Current Applied Physics</i> , 2020 , 20, 572-581	2.6	6
59	Molecular dynamics study of thermal transport in single-layer silicon carbide nanoribbons. <i>AIP Advances</i> , 2020 , 10, 015117	1.5	11
58	Characterizations and analysis of the antioxidant, antimicrobial, and dye reduction ability of green synthesized silver nanoparticles. <i>Green Processing and Synthesis</i> , 2020 , 9, 693-705	3.9	8
57	Lateral and flexural thermal transport in stanene/2D-SiC van der Waals heterostructure. <i>Nanotechnology</i> , 2020 , 31, 505702	3.4	16
56	Mechanistic Insight into the Limiting Factors of Graphene-Based Environmental Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39764-39771	9.5	10
55	Phonon localization in single wall carbon nanotube: Combined effect of ¹³ C isotope and vacancies. <i>Journal of Applied Physics</i> , 2020 , 128, 045108	2.5	1
54	Carbon Nanotube-on-Graphene Heterostructures. <i>Journal of Electronic Materials</i> , 2020 , 49, 6806-6816	1.9	
53	Exceptional in-plane and interfacial thermal transport in graphene/2D-SiC van der Waals heterostructures. <i>Scientific Reports</i> , 2020 , 10, 22050	4.9	10
52	Widely tunable electronic properties in graphene/two-dimensional silicon carbide van der Waals heterostructures. <i>Journal of Computational Electronics</i> , 2019 , 18, 836-845	1.8	15
51	Atmospheric-pressure plasma by remote dielectric barrier discharges for surface cleaning of large area glass substrates. <i>Plasma Research Express</i> , 2019 , 1, 015015	1	2
50	Ambipolarity and Air Stability of Silicon Phthalocyanine Organic Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900087	6.4	22
49	Scanning microwave imaging of optically patterned Ge ₂ Sb ₂ Te ₅ . <i>Applied Physics Letters</i> , 2019 , 114, 093106	10.4	3
48	Anomalous temperature dependent thermal conductivity of two-dimensional silicon carbide. <i>Nanotechnology</i> , 2019 , 30, 445707	3.4	27

47	Tunable electronic properties in stanene and two dimensional silicon-carbide heterobilayer: A first principles investigation. <i>AIP Advances</i> , 2019 , 9, 025120	1.5	19
46	Image-based feedback control of a magnetic catheter to enhance the path-following capability of the position and orientation at its distal part. <i>AIP Advances</i> , 2019 , 9, 125127	1.5	1
45	Anisotropic mechanical behavior of two dimensional silicon carbide: effect of temperature and vacancy defects. <i>Materials Research Express</i> , 2019 , 6, 125073	1.7	19
44	The effects of nanostructures on the mechanical and tribological properties of TiO nanotubes. <i>Nanotechnology</i> , 2018 , 29, 165705	3.4	6
43	Carbon-based Nanostructures for Flexible Electronics 2018 ,		1
42	Effect of the static compressive load on vibration propagation in multistory buildings and resulting heavyweight floor impact sounds. <i>Journal of the Acoustical Society of America</i> , 2017 , 142, 308	2.2	4
41	Direct determination of dynamic properties of railway tracks for flexural vibrations. <i>European Journal of Mechanics, A/Solids</i> , 2017 , 61, 14-21	3.7	9
40	Experimental Method to Evaluate Effective Dynamic Properties of a Meta-Structure for Flexural Vibrations. <i>Experimental Mechanics</i> , 2017 , 57, 417-425	2.6	3
39	Influence of cross-sectional discontinuity on the damping characteristics of viscoelastically supported rectangular plates. <i>Journal of Sound and Vibration</i> , 2016 , 379, 71-83	3.9	
38	Demonstration of organic volatile decomposition and bacterial sterilization by miniature dielectric barrier discharges on low-temperature cofired ceramic electrodes. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 040302	1.4	3
37	Patterning of graphene for flexible electronics with remote atmospheric-pressure plasma using dielectric barrier. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 085102	1.4	1
36	Measurement of the dynamic mechanical properties of high-strength steel using wave propagation characteristics. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1814-1818	0.6	
35	Metal/nanocarbon contacts. <i>Semiconductor Science and Technology</i> , 2014 , 29, 054006	1.8	43
34	Strain solitons and topological defects in bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11256-60	11.5	293
33	Emittance of positron beams produced in intense laser plasma interaction. <i>Physics of Plasmas</i> , 2013 , 20, 013111	2.1	25
32	(Invited) A Novel Approach to Clean Surface for High Mobility Channel Materials with In Situ Atomic Hydrogen Clean. <i>ECS Transactions</i> , 2013 , 58, 275-280	1	1
31	Selective Epitaxial Phosphorus-Doped SiGe Layers for Short-Channel Effect Reduction 2012 ,		1
30	Determination of effective mass density and modulus for resonant metamaterials. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 2793-9	2.2	22

29	Tailoring electrical transport across grain boundaries in polycrystalline graphene. <i>Science</i> , 2012 , 336, 1143-6	33.3	469
28	Measurement of viscoelastic properties from the vibration of a compliantly supported beam. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 3729-35	2.2	5
27	Mobility saturation in tapered edge bottom contact copper phthalocyanine thin film transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C5F22-C5F27	1.3	7
26	Geometry transformation and alterations of periodically patterned Si nanotemplates by dry oxidation. <i>Nanotechnology</i> , 2009 , 20, 015303	3.4	6
25	Ambient induced degradation and chemically activated recovery in copper phthalocyanine thin film transistors. <i>Journal of Applied Physics</i> , 2009 , 106, 034505	2.5	23
24	Damping of Structural Vibration Using Lightweight Granular Materials. <i>Experimental Mechanics</i> , 2009 , 49, 697-705	2.6	15
23	Extremely efficient multiple electron-hole pair generation in carbon nanotube photodiodes. <i>Science</i> , 2009 , 325, 1367-71	33.3	434
22	Analyte chemisorption and sensing on n- and p-channel copper phthalocyanine thin-film transistors. <i>Journal of Chemical Physics</i> , 2009 , 130, 164703	3.9	61
21	Comparative gas sensing in cobalt, nickel, copper, zinc, and metal-free phthalocyanine chemiresistors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 478-85	16.4	234
20	Bilayer processing for an enhanced organic-electrode contact in ultrathin bottom contact organic transistors. <i>Applied Physics Letters</i> , 2008 , 92, 193311	3.4	23
19	Selective detection of vapor phase hydrogen peroxide with phthalocyanine chemiresistors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3712-3	16.4	101
18	Gas sensing mechanism in chemiresistive cobalt and metal-free phthalocyanine thin films. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5640-6	16.4	177
17	Ultrathin organic transistors for chemical sensing. <i>Applied Physics Letters</i> , 2007 , 90, 263506	3.4	89
16	ZnO nanowire UV photodetectors with high internal gain. <i>Nano Letters</i> , 2007 , 7, 1003-9	11.5	2127
15	Ultralow drift in organic thin-film transistor chemical sensors by pulsed gating. <i>Journal of Applied Physics</i> , 2007 , 102, 034515	2.5	29
14	Three-way electrical gating characteristics of metallic Y-junction carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 88, 243113	3.4	16
13	Chemical identification using an impedance sensor based on dispersive charge transport. <i>Applied Physics Letters</i> , 2006 , 88, 074104	3.4	9
12	Enhanced room temperature ferromagnetism in Co- and Mn-ion-implanted silicon. <i>Applied Physics Letters</i> , 2006 , 89, 112502	3.4	40

- 11 Electrical Transport in Carbon Nanotube Y-junctions- a Paradigm for Novel Functionality at the Nanoscale. *Materials Research Society Symposia Proceedings*, **2006**, 922, 1
- 10 Electrode independent chemoresistive response for cobalt phthalocyanine in the space charge limited conductivity regime. *Journal of Physical Chemistry B*, **2006**, 110, 361-6 3.4 31
- 9 Microwave planar capacitors employing low loss, high-K, and tunable BZN thin films **2005**, 5
- 8 An analysis of strain localization in a shear layer under thermally coupled dynamic conditions. Part 1: Continuum thermoplastic models. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 2069-2100 2.4 6
- 7 An analysis of strain localization in a shear layer under thermally coupled dynamic conditions. Part 2: Localized thermoplastic models. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 2101-2133 2.4 6
- 6 Influence of support properties on the sound radiated from the vibrations of rectangular plates. *Journal of Sound and Vibration*, **2003**, 264, 775-794 3.9 38
- 5 Improvement of the biocompatibility and mechanical properties of surgical tools with TiN coating by PACVD. *Thin Solid Films*, **2003**, 435, 102-107 2.2 49
- 4 Thermal stability enhancement of Cu/WN/SiOF/Si multilayers by post-plasma treatment of fluorine-doped silicon dioxide. *Journal of Applied Physics*, **1999**, 85, 473-477 2.5 7
- 3 Effects of Deposition Temperature on Low-Dielectric Fluorinated Amorphous Carbon Films for Ultralarge-Scale Integration Multilevel Interconnects. *Microchemical Journal*, **1999**, 63, 161-167 4.8 5
- 2 Reliability of Cu/Wn Thin Films Deposited on Low Dielectric Constant Siof ILD. *Materials Research Society Symposia Proceedings*, **1998**, 511, 347
- 1 Deep brain stimulation for Parkinson's Disease: A Review and Future Outlook. *Biomedical Engineering Letters*, 1 3.6