

Yongho Seo

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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.

126
papers

2,313
citations

26
h-index

41
g-index

134
ext. papers

2,679
ext. citations

5
avg, IF

4.96
L-index

#	Paper	IF	Citations
126	High-mobility and air-stable single-layer WS ₂ field-effect transistors sandwiched between chemical vapor deposition-grown hexagonal BN films. <i>Scientific Reports</i> , 2015 , 5, 10699	4.9	187
125	Comparison of frictional forces on graphene and graphite. <i>Nanotechnology</i> , 2009 , 20, 325701	3.4	141
124	Atomic force microscopy and spectroscopy. <i>Reports on Progress in Physics</i> , 2008 , 71, 016101	14.4	98
123	Formation, manipulation, and elasticity measurement of a nanometric column of water molecules. <i>Physical Review Letters</i> , 2005 , 95, 187801	7.4	75
122	Synthesis and characterization of large-area and continuous MoS ₂ atomic layers by RF magnetron sputtering. <i>Nanoscale</i> , 2016 , 8, 4340-7	7.7	62
121	n-MoS/p-Si Solar Cells with AlO Passivation for Enhanced Photogeneration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29383-29390	9.5	61
120	Influence of an Al ₂ O ₃ interlayer in a directly grown graphene-silicon Schottky junction solar cell. <i>Carbon</i> , 2018 , 132, 157-164	10.4	50
119	Spectroscopic studies and electrical properties of transparent conductive films fabricated by using surfactant-stabilized single-walled carbon nanotube suspensions. <i>Carbon</i> , 2011 , 49, 4301-4313	10.4	46
118	Influence of removing PMMA residues on surface of CVD graphene using a contact-mode atomic force microscope. <i>RSC Advances</i> , 2017 , 7, 6943-6949	3.7	44
117	Energy harvesting efficiency of piezoelectric polymer film with graphene and metal electrodes. <i>Scientific Reports</i> , 2017 , 7, 17290	4.9	44
116	Local conductance measurement of graphene layer using conductive atomic force microscopy. <i>Journal of Applied Physics</i> , 2011 , 110, 054307	2.5	43
115	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 435-444	5.7	42
114	Enhanced photoresponse of ZnO quantum dot-decorated MoS ₂ thin films. <i>RSC Advances</i> , 2017 , 7, 16890-16903	3.8	38
113	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. <i>Journal of Power Sources</i> , 2015 , 275, 563-572	8.9	38
112	Study of Graphene-based 2D-Heterostructure Device Fabricated by All-Dry Transfer Process. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3072-8	9.5	38
111	Understanding the relationship between microstructure and mechanical properties of AlCuBi ultrafine eutectic composites. <i>Materials and Design</i> , 2016 , 92, 1038-1045	8.1	37
110	Nematic Liquid Crystal on a Two Dimensional Hexagonal Lattice and its Application. <i>Scientific Reports</i> , 2015 , 5, 13331	4.9	36

109	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. <i>Scientific Reports</i> , 2014 , 4, 6500	4.9	36
108	Optical properties and optimized conditions for polymer dispersed liquid crystal containing UV curable polymer and nematic liquid crystal. <i>Current Applied Physics</i> , 2015 , 15, 292-297	2.6	35
107	Epitaxial Magnetic Perovskite Nanostructures. <i>Advanced Materials</i> , 2005 , 17, 2869-2872	24	32
106	Low-temperature high-resolution magnetic force microscopy using a quartz tuning fork. <i>Applied Physics Letters</i> , 2005 , 87, 103103	3.4	29
105	Thickness-dependent efficiency of directly grown graphene based solar cells. <i>Carbon</i> , 2019 , 148, 187-195	10.4	28
104	Heterogeneous eutectic structure in TiBeSn alloys. <i>Intermetallics</i> , 2011 , 19, 536-540	3.5	27
103	Comparison of Electrical and Photoelectrical Properties of ReS Field-Effect Transistors on Different Dielectric Substrates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32501-32509	9.5	27
102	Tailoring the electrical properties of graphene layers by molecular doping. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5276-81	9.5	26
101	Nanoscale investigation of charge transport at the grain boundaries and wrinkles in graphene film. <i>Nanotechnology</i> , 2012 , 23, 285705	3.4	26
100	Atomic-resolution noncontact atomic force microscopy in air. <i>Applied Physics Letters</i> , 2003 , 83, 1860-1863	3.4	26
99	Effect of Annealing in Ar/H ₂ Environment on Chemical Vapor Deposition-Grown Graphene Transferred With Poly (Methyl Methacrylate). <i>IEEE Nanotechnology Magazine</i> , 2015 , 14, 70-74	2.6	25
98	Active Q control in tuning-fork-based atomic force microscopy. <i>Applied Physics Letters</i> , 2007 , 91, 023103	3.4	25
97	Inorganic gel and liquid crystal based smart window using silica sol-gel process. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 488-495	6.4	24
96	Origin of nonlinear transport across the magnetically induced superconductor-metal-insulator transition in two dimensions. <i>Physical Review Letters</i> , 2006 , 97, 057005	7.4	24
95	Acrylate-assisted fractal nanostructured polymer dispersed liquid crystal droplet based vibrant colored smart-windows.. <i>RSC Advances</i> , 2019 , 9, 12645-12655	3.7	23
94	Flexible polymer dispersed liquid crystal film with graphene transparent electrodes. <i>Current Applied Physics</i> , 2016 , 16, 409-414	2.6	23
93	Electrical and Thermal Conductivities of Stycast 1266 Epoxy/Graphite Composites. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 2760-2764	0.6	23
92	Improving the plasticity and strength of Fe ₃ Si ultrafine eutectic composite. <i>Materials & Design</i> , 2015 , 76, 190-195		22

91	PdO-doped BaZr _{0.8} Y _{0.2} O ₃ Electrolyte for intermediate-temperature protonic ceramic fuel cells. <i>Acta Materialia</i> , 2014 , 66, 273-283	8.4	22
90	Electrostatic force microscopy using a quartz tuning fork. <i>Applied Physics Letters</i> , 2002 , 80, 4324-4326	3.4	22
89	Polymer-dispersed liquid-crystal-based switchable glazing fabricated vacuum glass coupling.. <i>RSC Advances</i> , 2020 , 10, 32225-32231	3.7	22
88	WSe Homo Junction p-n Diode Formed by Photoinduced Activation of Mid-Gap Defect States in Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42007-42015	9.5	21
87	Study of Grains and Boundaries of Molybdenum Diselenide and Tungsten Diselenide Using Liquid Crystal. <i>Nano Letters</i> , 2017 , 17, 1474-1481	11.5	20
86	Characterization of Graphene-based FET Fabricated using a Shadow Mask. <i>Scientific Reports</i> , 2016 , 6, 25050	4.9	20
85	Operating Temperature Dependency on Performance Degradation of Direct Methanol Fuel Cells. <i>Fuel Cells</i> , 2012 , 12, 426-438	2.9	20
84	High-current field emission of point-type carbon nanotube emitters on Ni-coated metal wires. <i>Carbon</i> , 2012 , 50, 2126-2133	10.4	19
83	NIR self-powered photodetection and gate tunable rectification behavior in 2D GeSe/MoSe heterojunction diode. <i>Scientific Reports</i> , 2021 , 11, 3688	4.9	19
82	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. <i>Journal of Power Sources</i> , 2015 , 276, 120-132	8.9	18
81	Operational characteristics of the direct methanol fuel cell stack on fuel and energy efficiency with performance and stability. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5946-5957	6.7	18
80	Effect of grain boundaries on electrical properties of polycrystalline graphene. <i>Carbon</i> , 2017 , 112, 142-148.	14.4	17
79	Shear-mode magnetic force microscopy with a quartz tuning fork in ambient conditions. <i>Nanotechnology</i> , 2006 , 17, S201-4	3.4	17
78	Effect of microstructure modulation on mechanical properties of Ti-Fe-Sn ultrafine eutectic composites. <i>Metals and Materials International</i> , 2011 , 17, 873-877	2.4	16
77	Real-time atomic force microscopy using mechanical resonator type scanner. <i>Review of Scientific Instruments</i> , 2008 , 79, 103703	1.7	15
76	Fast-scanning shear-force microscopy using a high-frequency dithering probe. <i>Applied Physics Letters</i> , 2000 , 77, 4274-4276	3.4	15
75	Twist-Angle-Dependent Optoelectronics in a Few-Layer Transition-Metal Dichalcogenide Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2470-2478	9.5	15
74	Gate Tunable Transport in Graphene/MoS ₂ (Cr/Au) Vertical Field-Effect Transistors. <i>Nanomaterials</i> , 2017 , 8,	5.4	14

73	A facile route to a high-quality graphene/MoS ₂ vertical field-effect transistor with gate-modulated photocurrent response. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2337-2343	7.1	13
72	Optoelectronics of Multijunction Heterostructures of Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 1934-1943	11.5	13
71	A progressive route for tailoring electrical transport in MoS ₂ . <i>Nano Research</i> , 2016 , 9, 380-391	10	13
70	The stress-dependent piezoelectric coefficient of ZnO wire measured by piezoresponse force microscopy. <i>Scripta Materialia</i> , 2012 , 66, 101-104	5.6	13
69	Optimization of mechanical properties of TiBeSn alloys by controlling heterogeneous eutectic structure. <i>Intermetallics</i> , 2012 , 23, 27-31	3.5	13
68	Graphite patterning in a controlled gas environment. <i>Nanotechnology</i> , 2011 , 22, 335304	3.4	13
67	CVD-graphene for low equivalent series resistance in rGO/CVD-graphene/Ni-based supercapacitors. <i>Nanotechnology</i> , 2018 , 29, 195404	3.4	12
66	Post-mortem analysis of a long-term tested proton exchange membrane fuel cell stack under low cathode humidification conditions. <i>Journal of Power Sources</i> , 2014 , 253, 90-97	8.9	12
65	Heterogeneous duplex structured TiSnMo alloys with high strength and large plastic deformability. <i>Journal of Alloys and Compounds</i> , 2013 , 574, 546-551	5.7	12
64	High- κ dielectric oxide as an interfacial layer with enhanced photo-generation for Gr/Si solar cells. <i>Carbon</i> , 2017 , 125, 56-62	10.4	12
63	Supercapacitors based on TiCT MXene extracted from supernatant and current collectors passivated by CVD-graphene. <i>Scientific Reports</i> , 2021 , 11, 649	4.9	12
62	Surface morphology of SiN film deposited by a pulsed-plasma enhanced chemical vapor deposition at room temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5363-6	1.3	11
61	Solar cell based on vertical graphene nano hills directly grown on silicon. <i>Carbon</i> , 2020 , 164, 235-243	10.4	10
60	Cu/MoS ₂ /ITO based hybrid structure for catalysis of hydrazine oxidation. <i>RSC Advances</i> , 2015 , 5, 15374-15378	3.7	10
59	Solid-state phase transformation-induced heterogeneous duplex structure in TiSnBe alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 515, 86-89	5.7	10
58	Necking mechanisms on porous metallic glass and W compacts using electro-discharge sintering. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S78-S82	5.7	10
57	Gate Modulation of the Spin-orbit Interaction in Bilayer Graphene Encapsulated by WS films. <i>Scientific Reports</i> , 2018 , 8, 3412	4.9	9
56	Field emission characteristics of carbon nanotube films fabricated on a metal mesh by filtration. <i>Journal of Alloys and Compounds</i> , 2012 , 521, 126-133	5.7	9

55	The production of a cellular graphene array by scanning probe lithography and its ability to store electrical charge. <i>Carbon</i> , 2012 , 50, 4640-4647	10.4	9
54	High-speed near-field scanning optical microscopy with a quartz crystal resonator. <i>Review of Scientific Instruments</i> , 2002 , 73, 2057-2059	1.7	9
53	Effect of TiCT MXenes etched at elevated temperatures using concentrated acid on binder-free supercapacitors.. <i>RSC Advances</i> , 2020 , 10, 41837-41845	3.7	8
52	Improving the thermal stability of carbon nanotubes and their field emission characteristics by adding boron and phosphorus compounds. <i>Carbon</i> , 2018 , 139, 404-414	10.4	8
51	High-Efficiency Supercapacitor Electrodes of CVD-grown Graphenes Hybridized with Multiwalled Carbon Nanotubes. <i>Bulletin of the Korean Chemical Society</i> , 2015 , 36, 2111-2115	1.2	7
50	Electrochromic Device Containing Heptyl Viologen, PEDOT, TiO ₂ and TEMPO. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H716-H721	3.9	7
49	Effect of solubility on strengthening of AgCu ultrafine eutectic composites. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9015-9018	5.7	7
48	Ridge formation and removal via annealing in exfoliated graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5949-54	1.3	7
47	Mechanical properties of rippled structure in suspended stacks of graphene. <i>Journal of Applied Physics</i> , 2010 , 108, 014302	2.5	7
46	Studies on directly grown few layer graphene processed using tape-peeling method. <i>Carbon</i> , 2020 , 158, 749-755	10.4	7
45	Operation Protocols To Improve Durability of Protonic Ceramic Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 457-468	9.5	7
44	Efficient gas-phase purification using chloroform for metal-free multi-walled carbon nanotubes. <i>Carbon</i> , 2019 , 148, 258-266	10.4	6
43	Viscosity dependence of electrochemical etching for gold tip fabrication. <i>Current Applied Physics</i> , 2011 , 11, 1332-1336	2.6	6
42	Frictional force detection from lateral force microscopic image using a Si grating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 567-570	5.1	6
41	Designing porous metallic glass compact enclosed with surface iron oxides. <i>Journal of Alloys and Compounds</i> , 2015 , 635, 233-237	5.7	5
40	Removing graphite flakes for preparing mechanically exfoliated graphene sample. <i>Micro and Nano Letters</i> , 2012 , 7, 1133-1135	0.9	5
39	High-speed atomic force microscopy with phase-detection. <i>Current Applied Physics</i> , 2012 , 12, 989-994	2.6	5
38	Duty ratio-controlled surface roughness of silicon nitride film deposited using room-temperature SiH ₄ /H ₃ N ₂ Plasma. <i>Electronic Materials Letters</i> , 2010 , 6, 161-166	2.9	5

37	Effect of micro and nanoparticle inorganic fillers on the field emission characteristics of photosensitive carbon nanotube pastes. <i>Applied Surface Science</i> , 2010 , 256, 2636-2642	6.7	5
36	N ₂ adsorption study on quartz, silver, and carbon nanotube by inductive pulse quartz crystal microbalance. <i>Journal of Applied Physics</i> , 2007 , 101, 053521	2.5	5
35	Adsorption of N ₂ on a porous silica substrate studied by a quartz-crystal microbalance. <i>Physical Review B</i> , 1999 , 60, 17003-17007	3.3	5
34	Application of Titanium-Carbide MXene-Based Transparent Conducting Electrodes in Flexible Smart Windows. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40976-40985	9.5	5
33	Effect of Si on microstructure and mechanical properties of Fe-based ultrafine eutectic composites. <i>Intermetallics</i> , 2010 , 18, 1856-1859	3.5	4
32	Light radiation through a transparent cathode plate with single-walled carbon nanotube field emitters. <i>Applied Surface Science</i> , 2010 , 256, 6838-6842	6.7	4
31	QUARTZ CRYSTAL RESONATOR BASED SCANNING PROBE MICROSCOPY. <i>Modern Physics Letters B</i> , 2005 , 19, 1303-1322	1.6	4
30	Three-dimensional atomic force microscopy for ultra-high-aspect-ratio imaging. <i>Applied Surface Science</i> , 2019 , 469, 582-592	6.7	4
29	Dynamics of liquid crystal on hexagonal lattice. <i>2D Materials</i> , 2018 , 5, 045021	5.9	4
28	Visualizing Degradation of Black Phosphorus Using Liquid Crystals. <i>Scientific Reports</i> , 2018 , 8, 12966	4.9	4
27	Mechanically stable tuning fork sensor with high quality factor for the atomic force microscope. <i>Scanning</i> , 2014 , 36, 632-9	1.6	3
26	Nanographene device fabrication using atomic force microscope. <i>Micro and Nano Letters</i> , 2013 , 8, 422-425	9	3
25	Raman spectroscopic image analysis on micropatterned graphene. <i>Micro and Nano Letters</i> , 2013 , 8, 362-365	3	3
24	Application of scanning probe lithography to graphite patterning. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1397-400	1.3	3
23	Amplitude Change of a Quartz Crystal Microbalance. <i>Journal of the Korean Physical Society</i> , 2007 , 51, 1948	0.6	3
22	Visibility of hexagonal boron nitride on transparent substrates. <i>Nanotechnology</i> , 2020 , 31, 195701	3.4	2
21	General algorithm and method for scanning a via hole by using critical-dimension atomic force microscopy. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1643-1647	0.6	2
20	Effect of Poly(2-ethyl-2-oxazoline) on Multi-Walled Carbon Nanotubes Reinforced Poly(vinyl alcohol) Composites. <i>Polymers and Polymer Composites</i> , 2010 , 18, 251-256	0.8	2

19	Effect of Nb on microstructure and mechanical properties of ultrafine eutectic Fe ₈₀ Ni ₁₅ Si ₅ composites. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S487-S490	5.7	2
18	Magnetization anisotropy of Ni dots with several tens of nanometer diameter. <i>Solid State Communications</i> , 2009 , 149, 839-842	1.6	2
17	Real-time atomic force microscopy in lubrication condition. <i>Ultramicroscopy</i> , 2010 , 110, 826-30	3.1	2
16	Deformation mechanisms of a bimodal eutectic Mg ₇₂ Cu ₅ Zn ₂₃ ultrafine composite. <i>Materials Letters</i> , 2010 , 64, 534-536	3.3	2
15	Lateral force microscopy in low normal force limit. <i>Current Applied Physics</i> , 2010 , 10, 355-358	2.6	2
14	Inductive detection of magnetostrictive resonance. <i>Sensors and Actuators A: Physical</i> , 2007 , 140, 84-88	3.9	2
13	Edge current switch of two-dimensional electron gas using carrier density control. <i>Solid State Communications</i> , 2004 , 130, 391-395	1.6	2
12	Measurement of Gas Flow Through a Single-Wall Carbon Nanotube by Using the BET Method. <i>Journal of the Korean Physical Society</i> , 2007 , 51, 107	0.6	2
11	Compact Coarse Approach Mechanism for a Scanning Probe Microscope. <i>Journal of the Korean Physical Society</i> , 2008 , 52, 209-211	0.6	2
10	Catalytic Effect of PbO Glass Frit on the Degradation of the Carbon Nanotubes in a Field Emitter Paste. <i>Journal of the Korean Physical Society</i> , 2009 , 54, 729-735	0.6	2
9	Characterisation of carbon nanotube pastes for field emission using their sheet resistances. <i>Applied Surface Science</i> , 2015 , 353, 54-62	6.7	1
8	Nanolithography on graphene by using scanning tunneling microscopy in a methanol environment. <i>Microscopy and Microanalysis</i> , 2013 , 19, 1569-74	0.5	1
7	Magnetic effect of bias current in superconducting thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 693-696	3	1
6	Tapping mode quartz crystal resonator based scanning force microscopy. <i>Review of Scientific Instruments</i> , 2005 , 76, 016106	1.7	1
5	Optimum design for the ballistic diode based on graphene field-effect transistors. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	1
4	Quartz tuning fork based three-dimensional topography imaging for sidewall with blind features. <i>Ultramicroscopy</i> , 2019 , 210, 112916	3.1	0
3	Experimental data of inorganic gel based smart window using silica sol-gel process. <i>Data in Brief</i> , 2016 , 9, 716-722	1.2	
2	Impact of duty ratio-controlled ion energy on surface roughness of silicon nitride films deposited using a SiH ₄ -NH ₃ plasma. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5744-8	1.3	

- 1 Room temperature, ion energy-controlled deposition of silicon nitride films in a SiH₄-N₂ plasma. *Metals and Materials International*, **2010**, 16, 621-625 2.4