Yongho Seo

List of Publications by Year in descending order

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147566 197535 3,096 132 31 49 h-index citations g-index papers 134 134 134 4742 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	High-mobility and air-stable single-layer WS2 field-effect transistors sandwiched between chemical vapor deposition-grown hexagonal BN films. Scientific Reports, 2015, 5, 10699.	1.6	258
2	Comparison of frictional forces on graphene and graphite. Nanotechnology, 2009, 20, 325701.	1.3	167
3	Atomic force microscopy and spectroscopy. Reports on Progress in Physics, 2008, 71, 016101.	8.1	118
4	Formation, Manipulation, and Elasticity Measurement of a Nanometric Column of Water Molecules. Physical Review Letters, 2005, 95, 187801.	2.9	84
5	Influence of an Al2O3 interlayer in a directly grown graphene-silicon Schottky junction solar cell. Carbon, 2018, 132, 157-164.	5.4	78
6	n-MoS ₂ /p-Si Solar Cells with Al ₂ O ₃ Passivation for Enhanced Photogeneration. ACS Applied Materials & Samp; Interfaces, 2016, 8, 29383-29390.	4.0	77
7	Synthesis and characterization of large-area and continuous MoS ₂ atomic layers by RF magnetron sputtering. Nanoscale, 2016, 8, 4340-4347.	2.8	74
8	Influence of removing PMMA residues on surface of CVD graphene using a contact-mode atomic force microscope. RSC Advances, 2017, 7, 6943-6949.	1.7	68
9	Energy harvesting efficiency of piezoelectric polymer film with graphene and metal electrodes. Scientific Reports, 2017, 7, 17290.	1.6	64
10	Enhanced photoresponse of ZnO quantum dot-decorated MoS ₂ thin films. RSC Advances, 2017, 7, 16890-16900.	1.7	59
11	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. Journal of Alloys and Compounds, 2015, 639, 435-444.	2.8	57
12	Supercapacitors based on Ti3C2Tx MXene extracted from supernatant and current collectors passivated by CVD-graphene. Scientific Reports, 2021, 11 , 649 .	1.6	54
13	Local conductance measurement of graphene layer using conductive atomic force microscopy. Journal of Applied Physics, 2011, 110, .	1.1	49
14	Thickness-dependent efficiency of directly grown graphene based solar cells. Carbon, 2019, 148, 187-195.	5.4	49
15	Study of Graphene-based 2D-Heterostructure Device Fabricated by All-Dry Transfer Process. ACS Applied Materials & Samp; Interfaces, 2016, 8, 3072-3078.	4.0	48
16	Spectroscopic studies and electrical properties of transparent conductive films fabricated by using surfactant-stabilized single-walled carbon nanotube suspensions. Carbon, 2011, 49, 4301-4313.	5.4	47
17	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. Journal of Power Sources, 2015, 275, 563-572.	4.0	47
18	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. Scientific Reports, 2014, 4, 6500.	1.6	46

#	Article	lF	Citations
19	Understanding the relationship between microstructure and mechanical properties of Al–Cu–Si ultrafine eutectic composites. Materials and Design, 2016, 92, 1038-1045.	3.3	45
20	Comparison of Electrical and Photoelectrical Properties of ReS ₂ Field-Effect Transistors on Different Dielectric Substrates. ACS Applied Materials & Interfaces, 2018, 10, 32501-32509.	4.0	44
21	Optical properties and optimized conditions for polymer dispersed liquid crystal containing UV curable polymer and nematic liquid crystal. Current Applied Physics, 2015, 15, 292-297.	1.1	43
22	Nematic Liquid Crystal on a Two Dimensional Hexagonal Lattice and its Application. Scientific Reports, 2015, 5, 13331.	1.6	41
23	Polymer-dispersed liquid-crystal-based switchable glazing fabricated <i>via</i> vacuum glass coupling. RSC Advances, 2020, 10, 32225-32231.	1.7	41
24	Application of Titanium-Carbide MXene-Based Transparent Conducting Electrodes in Flexible Smart Windows. ACS Applied Materials & Samp; Interfaces, 2021, 13, 40976-40985.	4.0	37
25	Acrylate-assisted fractal nanostructured polymer dispersed liquid crystal droplet based vibrant colored smart-windows. RSC Advances, 2019, 9, 12645-12655.	1.7	36
26	Nanoscale investigation of charge transport at the grain boundaries and wrinkles in graphene film. Nanotechnology, 2012, 23, 285705.	1.3	34
27	Effect of Annealing in Ar/H ₂ Environment on Chemical Vapor Deposition-Grown Graphene Transferred With Poly (Methyl Methacrylate). IEEE Nanotechnology Magazine, 2015, 14, 70-74.	1.1	34
28	WSe ₂ Homojunction p–n Diode Formed by Photoinduced Activation of Mid-Gap Defect States in Boron Nitride. ACS Applied Materials & States in Boron Nitride.	4.0	34
29	NIR self-powered photodetection and gate tunable rectification behavior in 2D GeSe/MoSe2 heterojunction diode. Scientific Reports, 2021, 11, 3688.	1.6	34
30	Epitaxial Magnetic Perovskite Nanostructures. Advanced Materials, 2005, 17, 2869-2872.	11.1	33
31	Low-temperature high-resolution magnetic force microscopy using a quartz tuning fork. Applied Physics Letters, 2005, 87, 103103.	1.5	31
32	Inorganic gel and liquid crystal based smart window using silica sol-gel process. Solar Energy Materials and Solar Cells, 2017, 159, 488-495.	3.0	31
33	Heterogeneous eutectic structure in Ti–Fe–Sn alloys. Intermetallics, 2011, 19, 536-540.	1.8	30
34	Tailoring the Electrical Properties of Graphene Layers by Molecular Doping. ACS Applied Materials & Samp; Interfaces, 2013, 5, 5276-5281.	4.0	30
35	PdO-doped BaZr0.8Y0.2O3â^î^electrolyte for intermediate-temperature protonic ceramic fuel cells. Acta Materialia, 2014, 66, 273-283.	3.8	30
36	Atomic-resolution noncontact atomic force microscopy in air. Applied Physics Letters, 2003, 83, 1860-1862.	1.5	29

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37	Flexible polymer dispersed liquid crystal film with graphene transparent electrodes. Current Applied Physics, 2016, 16, 409-414.	1.1	29
38	Optoelectronics of Multijunction Heterostructures of Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 1934-1943.	4.5	27
39	Origin of Nonlinear Transport across the Magnetically Induced Superconductor-Metal-Insulator Transition in Two Dimensions. Physical Review Letters, 2006, 97, 057005.	2.9	26
40	Active Q control in tuning-fork-based atomic force microscopy. Applied Physics Letters, 2007, 91, 023103.	1.5	26
41	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. Journal of Power Sources, 2015, 276, 120-132.	4.0	26
42	Effect of Ti ₃ C ₂ T _x MXenes etched at elevated temperatures using concentrated acid on binder-free supercapacitors. RSC Advances, 2020, 10, 41837-41845.	1.7	26
43	Electrical and Thermal Conductivities of Stycast 1266 Epoxy/Graphite Composites. Journal of the Korean Physical Society, 2011, 59, 2760-2764.	0.3	26
44	Electrostatic force microscopy using a quartz tuning fork. Applied Physics Letters, 2002, 80, 4324-4326.	1,5	25
45	Improving the plasticity and strength of Fe–Nb–B ultrafine eutectic composite. Materials & Design, 2015, 76, 190-195.	5.1	25
46	Characterization of Graphene-based FET Fabricated using a Shadow Mask. Scientific Reports, 2016, 6, 25050.	1.6	25
47	Study of Grains and Boundaries of Molybdenum Diselenide and Tungsten Diselenide Using Liquid Crystal. Nano Letters, 2017, 17, 1474-1481.	4.5	24
48	Solar cell based on vertical graphene nano hills directly grown on silicon. Carbon, 2020, 164, 235-243.	5.4	23
49	High-current field emission of point-type carbon nanotube emitters on Ni-coated metal wires. Carbon, 2012, 50, 2126-2133.	5.4	22
50	Effect of grain boundaries on electrical properties of polycrystalline graphene. Carbon, 2017, 112, 142-148.	5.4	22
51	Gate Tunable Transport in Graphene/MoS2/(Cr/Au) Vertical Field-Effect Transistors. Nanomaterials, 2018, 8, 14.	1.9	22
52	Operating Temperature Dependency on Performance Degradation of Direct Methanol Fuel Cells. Fuel Cells, 2012, 12, 426-438.	1.5	21
53	Effect of the Photoinitiator Concentration on the Electro-optical Properties of Thiol–Acrylate-Based PDLC Smart Windows. ACS Applied Energy Materials, 2022, 5, 6986-6995.	2.5	21
54	Effect of microstructure modulation on mechanical properties of Ti-Fe-Sn ultrafine eutectic composites. Metals and Materials International, 2011, 17, 873-877.	1.8	20

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55	Gate Modulation of the Spin-orbit Interaction in Bilayer Graphene Encapsulated by WS2 films. Scientific Reports, 2018, 8, 3412.	1.6	20
56	Operational characteristics of the direct methanol fuel cell stack on fuel and energy efficiency with performance and stability. International Journal of Hydrogen Energy, 2012, 37, 5946-5957.	3.8	19
57	A facile route to a high-quality graphene/MoS ₂ vertical field-effect transistor with gate-modulated photocurrent response. Journal of Materials Chemistry C, 2017, 5, 2337-2343.	2.7	19
58	Twist-Angle-Dependent Optoelectronics in a Few-Layer Transition-Metal Dichalcogenide Heterostructure. ACS Applied Materials & Samp; Interfaces, 2019, 11, 2470-2478.	4.0	19
59	Efficient gas-phase purification using chloroform for metal-free multi-walled carbon nanotubes. Carbon, 2019, 148, 258-266.	5.4	18
60	Shear-mode magnetic force microscopy with a quartz tuning fork in ambient conditions. Nanotechnology, 2006, 17, S201-S204.	1.3	17
61	CVD-graphene for low equivalent series resistance in rGO/CVD-graphene/Ni-based supercapacitors. Nanotechnology, 2018, 29, 195404.	1.3	17
62	Fast-scanning shear-force microscopy using a high-frequency dithering probe. Applied Physics Letters, 2000, 77, 4274-4276.	1.5	16
63	Real-time atomic force microscopy using mechanical resonator type scanner. Review of Scientific Instruments, 2008, 79, 103703.	0.6	16
64	High- \ddot{A}_{s} dielectric oxide as an interfacial layer with enhanced photo-generation for Gr/Si solar cells. Carbon, 2017, 125, 56-62.	5.4	16
65	Graphite patterning in a controlled gas environment. Nanotechnology, 2011, 22, 335304.	1.3	15
66	The stress-dependent piezoelectric coefficient of ZnO wire measured by piezoresponse force microscopy. Scripta Materialia, 2012, 66, 101-104.	2.6	15
67	Post-mortem analysis of a long-term tested proton exchange membrane fuel cell stack under low cathode humidification conditions. Journal of Power Sources, 2014, 253, 90-97.	4.0	14
68	A progressive route for tailoring electrical transport in MoS2. Nano Research, 2016, 9, 380-391.	5.8	14
69	Improving the thermal stability of carbon nanotubes and their field emission characteristics by adding boron and phosphorus compounds. Carbon, 2018, 139, 404-414.	5.4	14
70	Operation Protocols To Improve Durability of Protonic Ceramic Fuel Cells. ACS Applied Materials & Lamp; Interfaces, 2019, 11, 457-468.	4.0	14
71	Optimization of mechanical properties of Ti–Fe–Sn alloys by controlling heterogeneous eutectic structure. Intermetallics, 2012, 23, 27-31.	1.8	13
72	Heterogeneous duplex structured Ti–Sn–Mo alloys with high strength and large plastic deformability. Journal of Alloys and Compounds, 2013, 574, 546-551.	2.8	13

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73	Surface Morphology of SiN Film Deposited by a Pulsed-Plasma Enhanced Chemical Vapor Deposition at Room Temperature. Journal of Nanoscience and Nanotechnology, 2008, 8, 5363-5366.	0.9	12
74	Solid-state phase transformation-induced heterogeneous duplex structure in Ti–Sn–Fe alloys. Journal of Alloys and Compounds, 2012, 515, 86-89.	2.8	12
75	Studies on directly grown few layer graphene processed using tape-peeling method. Carbon, 2020, 158, 749-755.	5.4	12
76	Necking mechanisms on porous metallic glass and W compacts using electro-discharge sintering. Journal of Alloys and Compounds, 2012, 536, S78-S82.	2.8	11
77	Highâ€Efficiency Supercapacitor Electrodes of <scp>CVD</scp> â€grown Graphenes Hybridized with Multiwalled Carbon Nanotubes. Bulletin of the Korean Chemical Society, 2015, 36, 2111-2115.	1.0	11
78	Cu/MoS ₂ /ITO based hybrid structure for catalysis of hydrazine oxidation. RSC Advances, 2015, 5, 15374-15378.	1.7	11
79	High-speed near-field scanning optical microscopy with a quartz crystal resonator. Review of Scientific Instruments, 2002, 73, 2057-2059.	0.6	10
80	The production of a cellular graphene array by scanning probe lithography and its ability to store electrical charge. Carbon, 2012, 50, 4640-4647.	5.4	10
81	Visualizing Degradation of Black Phosphorus Using Liquid Crystals. Scientific Reports, 2018, 8, 12966.	1.6	10
82	Optimum design for the ballistic diode based on graphene field-effect transistors. Npj 2D Materials and Applications, 2021, 5 , .	3.9	10
83	Field emission characteristics of carbon nanotube films fabricated on a metal mesh by filtration. Journal of Alloys and Compounds, 2012, 521, 126-133.	2.8	9
84	Three-dimensional atomic force microscopy for ultra-high-aspect-ratio imaging. Applied Surface Science, 2019, 469, 582-592.	3.1	9
85	QUARTZ CRYSTAL RESONATOR BASED SCANNING PROBE MICROSCOPY. Modern Physics Letters B, 2005, 19, 1303-1322.	1.0	8
86	Effect of solubility on strengthening of Ag–Cu ultrafine eutectic composites. Journal of Alloys and Compounds, 2011, 509, 9015-9018.	2.8	8
87	Ridge Formation and Removal via Annealing in Exfoliated Graphene. Journal of Nanoscience and Nanotechnology, 2011, 11, 5949-5954.	0.9	8
88	Electrochromic Device Containing Heptyl Viologen, PEDOT, TiO2and TEMPO. Journal of the Electrochemical Society, 2014, 161, H716-H721.	1.3	8
89	Frictional force detection from lateral force microscopic image using a Si grating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 567-570.	2.3	7
90	Mechanical properties of rippled structure in suspended stacks of graphene. Journal of Applied Physics, 2010, 108, .	1.1	7

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91	Viscosity dependence of electrochemical etching for gold tip fabrication. Current Applied Physics, 2011, 11, 1332-1336.	1.1	6
92	High-speed atomic force microscopy with phase-detection. Current Applied Physics, 2012, 12, 989-994.	1.1	6
93	Adsorption of N2 on a porous silica substrate studied by a quartz-crystal microbalance. Physical Review B, 1999, 60, 17003-17007.	1.1	5
94	N2 adsorption study on quartz, silver, and carbon nanotube by inductive pulse quartz crystal microbalance. Journal of Applied Physics, 2007, 101, 053521.	1.1	5
95	Duty Ratio-Controlled Surface Roughness of Silicon Nitride Film deposited using Room-Temperature SiH4-NH3-N2 Plasma. Electronic Materials Letters, 2010, 6, 161-166.	1.0	5
96	Effect of micro and nanoparticle inorganic fillers on the field emission characteristics of photosensitive carbon nanotube pastes. Applied Surface Science, 2010, 256, 2636-2642.	3.1	5
97	Removing graphite flakes for preparing mechanically exfoliated graphene sample. Micro and Nano Letters, 2012, 7, 1133-1135.	0.6	5
98	Mechanically stable tuning fork sensor with high quality factor for the atomic force microscope. Scanning, 2014, 36, 632-639.	0.7	5
99	Designing porous metallic glass compact enclosed with surface iron oxides. Journal of Alloys and Compounds, 2015, 635, 233-237.	2.8	5
100	Dynamics of liquid crystal on hexagonal lattice. 2D Materials, 2018, 5, 045021.	2.0	5
101	Light radiation through a transparent cathode plate with single-walled carbon nanotube field emitters. Applied Surface Science, 2010, 256, 6838-6842.	3.1	4
102	Effect of Si on microstructure and mechanical properties of Fe-based ultrafine eutectic composites. Intermetallics, 2010, 18, 1856-1859.	1.8	4
103	Application of Scanning Probe Lithography to Graphite Patterning. Journal of Nanoscience and Nanotechnology, 2011, 11, 1397-1400.	0.9	4
104	Visibility of hexagonal boron nitride on transparent substrates. Nanotechnology, 2020, 31, 195701.	1.3	4
105	Domain Structures on PS-PMMA Mixture Films. Journal of the Korean Physical Society, 2009, 54, 749-753.	0.3	4
106	Effect of Poly(2-ethyl-2-oxazoline) on Multi-Walled Carbon Nanotubes Reinforced Poly(vinyl alcohol) Composites. Polymers and Polymer Composites, 2010, 18, 251-256.	1.0	3
107	Nanographene device fabrication using atomic force microscope. Micro and Nano Letters, 2013, 8, 422-425.	0.6	3
108	Raman spectroscopic image analysis on micropatterned graphene. Micro and Nano Letters, 2013, 8, 362-365.	0.6	3

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109	Nanolithography on Graphene by Using Scanning Tunneling Microscopy in a Methanol Environment. Microscopy and Microanalysis, 2013, 19, 1569-1574.	0.2	3
110	General algorithm and method for scanning a via hole by using critical-dimension atomic force microscopy. Journal of the Korean Physical Society, 2014, 64, 1643-1647.	0.3	3
111	Amplitude Change of a Quartz Crystal Microbalance. Journal of the Korean Physical Society, 2007, 51, 1948.	0.3	3
112	Edge current switch of two-dimensional electron gas using carrier density control. Solid State Communications, 2004, 130, 391-395.	0.9	2
113	Inductive detection of magnetostrictive resonance. Sensors and Actuators A: Physical, 2007, 140, 84-88.	2.0	2
114	Magnetization anisotropy of Ni dots with several tens of nanometer diameter. Solid State Communications, 2009, 149, 839-842.	0.9	2
115	Real-time atomic force microscopy in lubrication condition. Ultramicroscopy, 2010, 110, 826-830.	0.8	2
116	Deformation mechanisms of a bimodal eutectic Mg72Cu5Zn23 ultrafine composite. Materials Letters, 2010, 64, 534-536.	1.3	2
117	Lateral force microscopy in low normal force limit. Current Applied Physics, 2010, 10, 355-358.	1.1	2
118	Effect of Nb on microstructure and mechanical properties of ultrafine eutectic Fe–Ni–B–Si composites. Journal of Alloys and Compounds, 2010, 504, S487-S490.	2.8	2
119	Characterisation of carbon nanotube pastes for field emission using their sheet resistances. Applied Surface Science, 2015, 353, 54-62.	3.1	2
120	Measurement of Gas Flow Through a Single-Wall Carbon Nanotube by Using the BET Method. Journal of the Korean Physical Society, 2007, 51, 107.	0.3	2
121	Compact Coarse Approach Mechanism for a Scanning Probe Microscope. Journal of the Korean Physical Society, 2008, 52, 209-211.	0.3	2
122	Catalytic Effect of PbO Glass Frit on the Degradation of the Carbon Nanotubes in a Field Emitter Paste. Journal of the Korean Physical Society, 2009, 54, 729-735.	0.3	2
123	Rectifying Effect in a High-Performance Ballistic Diode Bridge Based on Encapsulated Graphene with a Unique Design. ACS Applied Electronic Materials, 2022, 4, 1518-1524.	2.0	2
124	Tapping mode quartz crystal resonator based scanning force microscopy. Review of Scientific Instruments, 2005, 76, 016106.	0.6	1
125	Magnetic effect of bias current in superconducting thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 693-696.	1.3	1
126	Quartz tuning fork based three-dimensional topography imaging for sidewall with blind features. Ultramicroscopy, 2020, 210, 112916.	0.8	1

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127	<title>Fast-scanning near-field scanning optical microscopy using a high-frequency dithering probe</title> ., 2001,,.		O
128	Current-Induced First-order Superconducting Transitions in Tantalum Thin Films at Zero Magnetic Field. AIP Conference Proceedings, 2006, , .	0.3	0
129	Room temperature, ion energy-controlled deposition of silicon nitride films in a SiH4-N2 plasma. Metals and Materials International, 2010, 16, 621-625.	1.8	O
130	Impact of Duty Ratio-Controlled Ion Energy on Surface Roughness of Silicon Nitride Films Deposited Using a SiH ₄ –NH ₃ Plasma. Journal of Nanoscience and Nanotechnology, 2011, 11, 5744-5748.	0.9	0
131	Experimental data of inorganic gel based smart window using silica sol–gel process. Data in Brief, 2016, 9, 716-722.	0.5	0
132	Measuring the Blind Holes: Three-Dimensional Imaging of through Silicon via Using High Aspect Ratio AFM Probe. , 0 , , .		0