

Woo Lee

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

80
papers

6,986
citations

36
h-index

83
g-index

83
ext. papers

7,537
ext. citations

9.9
avg, IF

6.01
L-index

#	Paper	IF	Citations
80	Quantitative Local Probing of Polarization with Application on HfO ₂ -Based Thin Films.. <i>Small Methods</i> , 2021 , 5, e2100781	12.8	1
79	Anodically Induced Chemical Etching of GaAs Wafers for a GaAs Nanowire-Based Flexible Terahertz Wave Emitter. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50703-50712	9.5	3
78	Ionic Current Rectification of Porous Anodic Aluminum Oxide (AAO) with a Barrier Oxide Layer. <i>ACS Nano</i> , 2020 , 14, 13727-13738	16.7	3
77	Anodized Aluminum Oxide/Polydimethylsiloxane Hybrid Mold for Roll-to-Roll Nanoimprinting. <i>Advanced Functional Materials</i> , 2018 , 28, 1800197	15.6	14
76	Direct Probing of Polarization Charge at Nanoscale Level. <i>Advanced Materials</i> , 2018 , 30, 1703675	24	18
75	Adsorption on alumina nanopores with conical shape. <i>Nanoscale</i> , 2018 , 10, 18300-18305	7.7	1
74	Thermoelectric materials by using two-dimensional materials with negative correlation between electrical and thermal conductivity. <i>Nature Communications</i> , 2016 , 7, 12011	17.4	136
73	Nanosculpting of complex oxides by massive ionic transfer. <i>Nanotechnology</i> , 2016 , 27, 505703	3.4	1
72	Adsorption on Highly Ordered Porous Alumina. <i>Journal of Low Temperature Physics</i> , 2016 , 185, 138-160	1.3	12
71	Structural Engineering of Porous Anodic Aluminum Oxide (AAO) and Applications. <i>Springer Series in Materials Science</i> , 2015 , 107-153	0.9	4
70	Adsorption in alumina pores open at one and at both ends. <i>Nanoscale</i> , 2015 , 7, 2587-96	7.7	20
69	Adsorption on ordered and disordered duplex layers of porous anodic alumina. <i>Langmuir</i> , 2015 , 31, 4895-4905	4.9	4
68	Adsorption of argon on mesoporous anodic alumina. <i>Adsorption</i> , 2014 , 20, 889-897	2.6	6
67	High efficiency n-ZnO/p-Si core-shell nanowire photodiode based on well-ordered Si nanowire array with smooth surface. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 297-302	4.3	15
66	Porous anodic aluminum oxide: anodization and templated synthesis of functional nanostructures. <i>Chemical Reviews</i> , 2014 , 114, 7487-556	68.1	854
65	Metal-assisted chemical etching of silicon and nanotechnology applications. <i>Nano Today</i> , 2014 , 9, 271-304	7.9	289
64	Origins of domain wall pinning in ferroelectric nanocapacitors. <i>Nano Convergence</i> , 2014 , 1,	9.2	13

63	A versatile ultra-thin Au nanomesh from a reusable anodic aluminium oxide (AAO) membrane. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5330	7.1	20
62	In situ control of oxygen vacancies in TiO ₂ by atomic layer deposition for resistive switching devices. <i>Nanotechnology</i> , 2013 , 24, 295202	3.4	92
61	Towards the limit of ferroelectric nanostructures: switchable sub-10 nm nanoisland arrays. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5299	7.1	15
60	Local probing of electrochemically induced negative differential resistance in TiO ₂ memristive materials. <i>Nanotechnology</i> , 2013 , 24, 085702	3.4	17
59	In situ determination of the pore opening point during wet-chemical etching of the barrier layer of porous anodic aluminum oxide: nonuniform impurity distribution in anodic oxide. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3441-8	9.5	83
58	Novel three-dimensional nanoporous alumina as a template for hierarchical TiO ₂ nanotube arrays. <i>Small</i> , 2013 , 9, 1025-9	11	33
57	First-order reversal curve probing of spatially resolved polarization switching dynamics in ferroelectric nanocapacitors. <i>ACS Nano</i> , 2012 , 6, 491-500	16.7	47
56	Air-bridged Ohmic contact on vertically aligned si nanowire arrays: application to molecule sensors. <i>Advanced Materials</i> , 2012 , 24, 2284-8	24	32
55	Formation of a Top Electrode on Vertical Si Nanowire Devices Using Graphene as a Supporting Layer. <i>Applied Physics Express</i> , 2012 , 5, 105103	2.4	5
54	Active doping of B in silicon nanostructures and development of a Si quantum dot solar cell. <i>Nanotechnology</i> , 2011 , 22, 425203	3.4	30
53	Curved silicon nanowires with ribbon-like cross sections by metal-assisted chemical etching. <i>ACS Nano</i> , 2011 , 5, 5242-8	16.7	98
52	A continuous process for Si nanowires with prescribed lengths. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15889		26
51	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , 2011 , 5, 9104-12	16.7	65
50	Au/Ag bilayered metal mesh as a si etching catalyst for controlled fabrication of si nanowires. <i>ACS Nano</i> , 2011 , 5, 3222-9	16.7	155
49	Nanostructured ferroelectrics: fabrication and structure-property relations. <i>Advanced Materials</i> , 2011 , 23, 4599-613	24	70
48	Cross talk by extensive domain wall motion in arrays of ferroelectric nanocapacitors. <i>Applied Physics Letters</i> , 2011 , 99, 202901	3.4	7
47	Domain structures and piezoelectric properties of Pb(Zr _{0.2} Ti _{0.8})O ₃ nanocapacitors. <i>Journal of Applied Physics</i> , 2010 , 108, 044102	2.5	6
46	Individual switching of film-based nanoscale epitaxial ferroelectric capacitors. <i>Journal of Applied Physics</i> , 2010 , 108, 042005	2.5	18

45	Capillary condensation and evaporation in alumina nanopores with controlled modulations. <i>Langmuir</i> , 2010 , 26, 11894-8	4	51
44	Highly ordered porous alumina with tailor-made pore structures fabricated by pulse anodization. <i>Nanotechnology</i> , 2010 , 21, 485304	3.4	80
43	Non-Kolmogorov-Avrami-Ishibashi switching dynamics in nanoscale ferroelectric capacitors. <i>Nano Letters</i> , 2010 , 10, 1266-70	11.5	52
42	Ultrahigh density array of epitaxial ferroelectric nanoislands on conducting substrates. <i>Nano Letters</i> , 2010 , 10, 2141-6	11.5	67
41	Tribological properties of nanoporous anodic aluminum oxide film. <i>Surface and Coatings Technology</i> , 2010 , 205, 1431-1437	4.4	45
40	The anodization of aluminum for nanotechnology applications. <i>Jom</i> , 2010 , 62, 57-63	2.1	53
39	Spontaneous Current Oscillations during Hard Anodization of Aluminum under Potentiostatic Conditions. <i>Advanced Functional Materials</i> , 2010 , 20, 21-27	15.6	129
38	Polymer nanotubules obtained by layer-by-layer deposition within AAO-membrane templates with sub-100-nm pore diameters. <i>Small</i> , 2010 , 6, 2683-9	11	28
37	High-Density Periodically Ordered Magnetic Cobalt Ferrite Nanodot Arrays by Template-Assisted Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2009 , 19, 3450-3455	15.6	67
36	Ordered arrays of vertically aligned [110] silicon nanowires by suppressing the crystallographically preferred etching directions. <i>Nano Letters</i> , 2009 , 9, 2519-25	11.5	155
35	Individually addressable epitaxial ferroelectric nanocapacitor arrays with near Tb inch ² density. <i>Nature Nanotechnology</i> , 2008 , 3, 402-7	28.7	254
34	Structural engineering of nanoporous anodic aluminium oxide by pulse anodization of aluminium. <i>Nature Nanotechnology</i> , 2008 , 3, 234-9	28.7	352
33	Self-ordered anodic aluminum oxide formed by H ₂ SO ₄ hard anodization. <i>ACS Nano</i> , 2008 , 2, 302-10	16.7	198
32	A continuous process for structurally well-defined Al ₂ O ₃ nanotubes based on pulse anodization of aluminum. <i>Nano Letters</i> , 2008 , 8, 2155-60	11.5	134
31	Extended arrays of vertically aligned sub-10 nm diameter [100] Si nanowires by metal-assisted chemical etching. <i>Nano Letters</i> , 2008 , 8, 3046-51	11.5	290
30	Enhanced ionic conductivity of AgI nanowires/AAO composites fabricated by a simple approach. <i>Nanotechnology</i> , 2008 , 19, 495706	3.4	15
29	Quantitative analysis of the grain morphology in self-assembled hexagonal lattices. <i>ACS Nano</i> , 2008 , 2, 913-20	16.7	59
28	Tailor-made inorganic nanopeapods: structural design of linear noble metal nanoparticle chains. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7004-8	16.4	60

27	Inside Cover: Tailor-Made Inorganic Nanopeapods: Structural Design of Linear Noble Metal Nanoparticle Chains (Angew. Chem. Int. Ed. 37/2008). <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6926-6926	16.4	
26	Tailor-Made Inorganic Nanopeapods: Structural Design of Linear Noble Metal Nanoparticle Chains. <i>Angewandte Chemie</i> , 2008 , 120, 7112-7116	3.6	12
25	Innentitelbild: Tailor-Made Inorganic Nanopeapods: Structural Design of Linear Noble Metal Nanoparticle Chains (Angew. Chem. 37/2008). <i>Angewandte Chemie</i> , 2008 , 120, 7032-7032	3.6	
24	Fabrication of hierarchical structures on a polymer surface using patterned anodic aluminum oxide as a replication master. <i>Thin Solid Films</i> , 2008 , 516, 3431-3435	2.2	8
23	Microstructured horizontal alumina pore arrays as growth templates for large area few and single nanowire devices. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 59-61	2.5	11
22	Template-assisted large-scale ordered arrays of ZnO pillars for optical and piezoelectric applications. <i>Small</i> , 2006 , 2, 561-8	11	194
21	Wafer-scale Ni imprint stamps for porous alumina membranes based on interference lithography. <i>Small</i> , 2006 , 2, 978-82	11	126
20	Fast fabrication of long-range ordered porous alumina membranes by hard anodization. <i>Nature Materials</i> , 2006 , 5, 741-7	27	1112
19	Growth and characterization of epitaxial ferroelectric lanthanum-substituted bismuth titanate nanostructures with three different orientations. <i>Journal of Applied Physics</i> , 2005 , 98, 124302	2.5	7
18	Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. <i>Nanotechnology</i> , 2005 , 16, 913-917	3.4	138
17	A template-based electrochemical method for the synthesis of multisegmented metallic nanotubes. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6050-4	16.4	231
16	Well-ordered large-area arrays of epitaxial ferroelectric (Bi,La)4Ti3O12 nanostructures fabricated by gold nanotube-membrane lithography. <i>Applied Physics Letters</i> , 2005 , 86, 152906	3.4	31
15	Nanostructuring of a polymeric substrate with well-defined nanometer-scale topography and tailored surface wettability. <i>Langmuir</i> , 2004 , 20, 7665-9	4	351
14	Nanostructured metal surfaces fabricated by a nonlithographic template method. <i>Langmuir</i> , 2004 , 20, 287-90	4	15
13	Novel non-lithographic large area fabrication method to generate various polymeric nanostructures. <i>Studies in Surface Science and Catalysis</i> , 2003 , 146, 85-88	1.8	1
12	Magnetic nanoparticles as a catalyst vehicle for simple and easy recycling. <i>New Journal of Chemistry</i> , 2003 , 27, 227-229	3.6	237
11	A novel quantum dot pillared layered transition metal sulfide: CdS/MoS2 semiconductor/metal nanohybrid. <i>Journal of Materials Chemistry</i> , 2002 , 12, 614-618		39
10	Dynamics of microwave-induced fluxons in HgI2-intercalated Bi2Sr2CaCu2O8+ δ Josephson stacks. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 362, 97-101	1.3	2

9	Coherent mode splitting of microwave-induced fluxons in HgI ₂ -intercalated Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ single crystals. <i>Physical Review B</i> , 2001 , 63,	3.3	17
8	Template route toward a novel nanostructured superionic conductor film; AgI nanorod/ γ -Al ₂ O ₃ . <i>Chemical Communications</i> , 2001 , 2530-2531	5.8	25
7	Origin of the Metallization of c-Axis Resistivity upon Iodine Intercalation into Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5174-5177	3.4	2
6	Tunneling characteristics of I- and HgI ₂ -intercalated Bi ₂ Sr ₂ CaCu ₂ O ₈ + x single crystals. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1844-1845	2.8	3
5	Intercalation Route to Novel Superconducting Nano-Hybrids. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 341, 479-484		1
4	γ -RuCl ₃ /Polymer Nanocomposites: The First Group of Intercalative Nanocomposites with Transition Metal Halides. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6629-6640	16.4	74
3	A new cointercalated superconducting bismuth cuprate, (HgI ₂) _{0.5} I _{0.5} Bi _{1.85} Pb _{0.35} Sr _{1.9} Ca _{2.1} Cu _{3.1} O ₁₀ + δ . <i>Journal of Materials Chemistry</i> , 2000 , 10, 1679-1684		4
2	Evolution of crystal and electronic structures of Sr ₂ CuO ₃ upon fluorination reaction. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 322, 93-99	1.3	2
1	Intercalation route to nano-hybrids: inorganic/organic-high T _c cuprate hybrid materials. <i>Journal of Materials Chemistry</i> , 1999 , 9, 129-135		39