

# Woo Lee

## List of Publications by Citations

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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 | Fast fabrication of long-range ordered porous alumina membranes by hard anodization. <i>Nature Materials</i> , <b>2006</b> , 5, 741-7  | 27   | 1112      |
| 79 | Porous anodic aluminum oxide: anodization and templated synthesis of functional nanostructures. <i>Chemical Reviews</i> , <b>2014</b> , 114, 7487-556                                    | 68.1 | 854       |
| 78 | Structural engineering of nanoporous anodic aluminium oxide by pulse anodization of aluminium. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 234-9                                     | 28.7 | 352       |
| 77 | Nanostructuring of a polymeric substrate with well-defined nanometer-scale topography and tailored surface wettability. <i>Langmuir</i> , <b>2004</b> , 20, 7665-9                       | 4    | 351       |
| 76 | Extended arrays of vertically aligned sub-10 nm diameter [100] Si nanowires by metal-assisted chemical etching. <i>Nano Letters</i> , <b>2008</b> , 8, 3046-51                           | 11.5 | 290       |
| 75 | Metal-assisted chemical etching of silicon and nanotechnology applications. <i>Nano Today</i> , <b>2014</b> , 9, 271-304   | 17.9 | 289       |
| 74 | Individually addressable epitaxial ferroelectric nanocapacitor arrays with near Tb inch <sup>2</sup> density. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 402-7                      | 28.7 | 254       |
| 73 | Magnetic nanoparticles as a catalyst vehicle for simple and easy recycling. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 227-229  | 3.6  | 237       |
| 72 | A template-based electrochemical method for the synthesis of multisegmented metallic nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6050-4              | 16.4 | 231       |
| 71 | Self-ordered anodic aluminum oxide formed by H <sub>2</sub> SO <sub>4</sub> hard anodization. <i>ACS Nano</i> , <b>2008</b> , 2, 302-10  | 16.7 | 198       |
| 70 | Template-assisted large-scale ordered arrays of ZnO pillars for optical and piezoelectric applications. <i>Small</i> , <b>2006</b> , 2, 561-8  | 11   | 194       |
| 69 | Au/Ag bilayered metal mesh as a si etching catalyst for controlled fabrication of si nanowires. <i>ACS Nano</i> , <b>2011</b> , 5, 3222-9  | 16.7 | 155       |
| 68 | Ordered arrays of vertically aligned [110] silicon nanowires by suppressing the crystallographically preferred etching directions. <i>Nano Letters</i> , <b>2009</b> , 9, 2519-25        | 11.5 | 155       |
| 67 | Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. <i>Nanotechnology</i> , <b>2005</b> , 16, 913-917                                 | 3.4  | 138       |
| 66 | Thermoelectric materials by using two-dimensional materials with negative correlation between electrical and thermal conductivity. <i>Nature Communications</i> , <b>2016</b> , 7, 12011 | 17.4 | 136       |
| 65 | A continuous process for structurally well-defined Al <sub>2</sub> O <sub>3</sub> nanotubes based on pulse anodization of aluminum. <i>Nano Letters</i> , <b>2008</b> , 8, 2155-60       | 11.5 | 134       |
| 64 | Spontaneous Current Oscillations during Hard Anodization of Aluminum under Potentiostatic Conditions. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 21-27                     | 15.6 | 129       |

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| 63 | Wafer-scale Ni imprint stamps for porous alumina membranes based on interference lithography. <i>Small</i> , <b>2006</b> , 2, 978-82  | 11   | 126 |
| 62 | Curved silicon nanowires with ribbon-like cross sections by metal-assisted chemical etching. <i>ACS Nano</i> , <b>2011</b> , 5, 5242-8  | 16.7 | 98  |
| 61 | In situ control of oxygen vacancies in TiO <sub>2</sub> by atomic layer deposition for resistive switching devices. <i>Nanotechnology</i> , <b>2013</b> , 24, 295202  | 3.4  | 92  |
| 60 | 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 &amp; Interfaces</i> , <b>2013</b> , 5, 3441-8 | 9.5  | 83  |
| 59 | Highly ordered porous alumina with tailor-made pore structures fabricated by pulse anodization. <i>Nanotechnology</i> , <b>2010</b> , 21, 485304  | 3.4  | 80  |
| 58 | ERuCl <sub>3</sub> /Polymer Nanocomposites: The First Group of Intercalative Nanocomposites with Transition Metal Halides. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 6629-6640   | 16.4 | 74  |
| 57 | Nanostructured ferroelectrics: fabrication and structure-property relations. <i>Advanced Materials</i> , <b>2011</b> , 23, 4599-613   | 24   | 70  |
| 56 | Ultrahigh density array of epitaxial ferroelectric nanoislands on conducting substrates. <i>Nano Letters</i> , <b>2010</b> , 10, 2141-6   | 11.5 | 67  |
| 55 | High-Density Periodically Ordered Magnetic Cobalt Ferrite Nanodot Arrays by Template-Assisted Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3450-3455   | 15.6 | 67  |
| 54 | Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , <b>2011</b> , 5, 9104-12   | 16.7 | 65  |
| 53 | Tailor-made inorganic nanopeapods: structural design of linear noble metal nanoparticle chains. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7004-8   | 16.4 | 60  |
| 52 | Quantitative analysis of the grain morphology in self-assembled hexagonal lattices. <i>ACS Nano</i> , <b>2008</b> , 2, 913-20   | 16.7 | 59  |
| 51 | The anodization of aluminum for nanotechnology applications. <i>Jom</i> , <b>2010</b> , 62, 57-63   | 2.1  | 53  |
| 50 | Non-Kolmogorov-Avrami-Ishibashi switching dynamics in nanoscale ferroelectric capacitors. <i>Nano Letters</i> , <b>2010</b> , 10, 1266-70   | 11.5 | 52  |
| 49 | Capillary condensation and evaporation in alumina nanopores with controlled modulations. <i>Langmuir</i> , <b>2010</b> , 26, 11894-8  | 4    | 51  |
| 48 | First-order reversal curve probing of spatially resolved polarization switching dynamics in ferroelectric nanocapacitors. <i>ACS Nano</i> , <b>2012</b> , 6, 491-500  | 16.7 | 47  |
| 47 | Tribological properties of nanoporous anodic aluminum oxide film. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 1431-1437   | 4.4  | 45  |
| 46 | A novel quantum dot pillared layered transition metal sulfide: CdS/MoS <sub>2</sub> semiconductor/metal nanohybrid. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 614-618   |      | 39  |

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|----|--|-----|----|
| 45 | Intercalation route to nano-hybrids: inorganic/organic-high Tc cuprate hybrid materials. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 129-135  |     | 39 |
| 44 | Novel three-dimensional nanoporous alumina as a template for hierarchical TiO <sub>2</sub> nanotube arrays. <i>Small</i> , <b>2013</b> , 9, 1025-9   | 11  | 33 |
| 43 | Air-bridged Ohmic contact on vertically aligned Si nanowire arrays: application to molecule sensors. <i>Advanced Materials</i> , <b>2012</b> , 24, 2284-8  | 24  | 32 |
| 42 | Well-ordered large-area arrays of epitaxial ferroelectric (Bi,Lu)TiO <sub>3</sub> nanostructures fabricated by gold nanotube-membrane lithography. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 152906 | 3-4 | 31 |
| 41 | Active doping of B in silicon nanostructures and development of a Si quantum dot solar cell. <i>Nanotechnology</i> , <b>2011</b> , 22, 425203  | 3-4 | 30 |
| 40 | Polymer nanotubules obtained by layer-by-layer deposition within AAO-membrane templates with sub-100-nm pore diameters. <i>Small</i> , <b>2010</b> , 6, 2683-9   | 11  | 28 |
| 39 | A continuous process for Si nanowires with prescribed lengths. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15889   |     | 26 |
| 38 | Template route toward a novel nanostructured superionic conductor film; AgI nanorod/AAO. <i>Chemical Communications</i> , <b>2001</b> , 2530-2531  | 5-8 | 25 |
| 37 | Adsorption in alumina pores open at one and at both ends. <i>Nanoscale</i> , <b>2015</b> , 7, 2587-96  | 7-7 | 20 |
| 36 | A versatile ultra-thin Au nanomesh from a reusable anodic aluminium oxide (AAO) membrane. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5330  | 7-1 | 20 |
| 35 | Individual switching of film-based nanoscale epitaxial ferroelectric capacitors. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 042005   | 2-5 | 18 |
| 34 | Direct Probing of Polarization Charge at Nanoscale Level. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703675  | 24  | 18 |
| 33 | Local probing of electrochemically induced negative differential resistance in TiO <sub>2</sub> memristive materials. <i>Nanotechnology</i> , <b>2013</b> , 24, 085702                                       | 3-4 | 17 |
| 32 | Coherent mode splitting of microwave-induced fluxons in HgTe/InTe heterostructure single crystals. <i>Physical Review B</i> , <b>2001</b> , 63,  | 3-3 | 17 |
| 31 | 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> , <b>2014</b> , 27, 297-302      | 4-3 | 15 |
| 30 | Towards the limit of ferroelectric nanostructures: switchable sub-10 nm nanoisland arrays. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5299   | 7-1 | 15 |
| 29 | Enhanced ionic conductivity of AgI nanowires/AAO composites fabricated by a simple approach. <i>Nanotechnology</i> , <b>2008</b> , 19, 495706  | 3-4 | 15 |
| 28 | Nanostructured metal surfaces fabricated by a nonlithographic template method. <i>Langmuir</i> , <b>2004</b> , 20, 287-90  | 4   | 15 |

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|----|--|------|----|
| 27 | Anodized Aluminum Oxide/Polydimethylsiloxane Hybrid Mold for Roll-to-Roll Nanoimprinting. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800197   | 15.6 | 14 |
| 26 | Origins of domain wall pinning in ferroelectric nanocapacitors. <i>Nano Convergence</i> , <b>2014</b> , 1,   | 9.2  | 13 |
| 25 | Tailor-Made Inorganic Nanopeapods: Structural Design of Linear Noble Metal Nanoparticle Chains. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7112-7116  | 3.6  | 12 |
| 24 | Adsorption on Highly Ordered Porous Alumina. <i>Journal of Low Temperature Physics</i> , <b>2016</b> , 185, 138-160  | 1.3  | 12 |
| 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> , <b>2008</b> , 2, 59-61  | 2.5  | 11 |
| 22 | Fabrication of hierarchical structures on a polymer surface using patterned anodic aluminum oxide as a replication master. <i>Thin Solid Films</i> , <b>2008</b> , 516, 3431-3435  | 2.2  | 8  |
| 21 | Cross talk by extensive domain wall motion in arrays of ferroelectric nanocapacitors. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 202901  | 3.4  | 7  |
| 20 | Growth and characterization of epitaxial ferroelectric lanthanum-substituted bismuth titanate nanostructures with three different orientations. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 124302   | 2.5  | 7  |
| 19 | Adsorption of argon on mesoporous anodic alumina. <i>Adsorption</i> , <b>2014</b> , 20, 889-897  | 2.6  | 6  |
| 18 | Domain structures and piezoelectric properties of Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> nanocapacitors. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 044102   | 2.5  | 6  |
| 17 | Formation of a Top Electrode on Vertical Si Nanowire Devices Using Graphene as a Supporting Layer. <i>Applied Physics Express</i> , <b>2012</b> , 5, 105103  | 2.4  | 5  |
| 16 | Structural Engineering of Porous Anodic Aluminum Oxide (AAO) and Applications. <i>Springer Series in Materials Science</i> , <b>2015</b> , 107-153   | 0.9  | 4  |
| 15 | Adsorption on ordered and disordered duplex layers of porous anodic alumina. <i>Langmuir</i> , <b>2015</b> , 31, 4895-4905   | 4.9  | 4  |
| 14 | A new cointercalated superconducting bismuth cuprate, (HgI <sub>2</sub> ) <sub>0.5</sub> I <sub>0.5</sub> Bi <sub>1.85</sub> Pb <sub>0.35</sub> Sr <sub>1.9</sub> Ca <sub>2.1</sub> Cu <sub>3.1</sub> O <sub>10</sub> + $\delta$ <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1679-1684 |      | 4  |
| 13 | Tunneling characteristics of I- and HgI <sub>2</sub> -intercalated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> single crystals. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 1844-1845   | 2.8  | 3  |
| 12 | Anodically Induced Chemical Etching of GaAs Wafers for a GaAs Nanowire-Based Flexible Terahertz Wave Emitter. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50703-50712  | 9.5  | 3  |
| 11 | Ionic Current Rectification of Porous Anodic Aluminum Oxide (AAO) with a Barrier Oxide Layer. <i>ACS Nano</i> , <b>2020</b> , 14, 13727-13738  | 16.7 | 3  |
| 10 | Dynamics of microwave-induced fluxons in HgI <sub>2</sub> -intercalated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ Josephson stacks. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 362, 97-101   | 1.3  | 2  |

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| 9 | Origin of the Metallization of c-Axis Resistivity upon Iodine Intercalation into Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> +□<br><i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 5174-5177 | 3.4  | 2 |
| 8 | Evolution of crystal and electronic structures of Sr <sub>2</sub> CuO <sub>3</sub> upon fluorination reaction. <i>Physica C: Superconductivity and Its Applications</i> , <b>1999</b> , 322, 93-99                            | 1.3  | 2 |
| 7 | Novel non-lithographic large area fabrication method to generate various polymeric nanostructures. <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 146, 85-88   | 1.8  | 1 |
| 6 | Intercalation Route to Novel Superconducting Nano-Hybrids. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 341, 479-484   |      | 1 |
| 5 | Quantitative Local Probing of Polarization with Application on HfO <sub>2</sub> -Based Thin Films.. <i>Small Methods</i> , <b>2021</b> , 5, e2100781  | 12.8 | 1 |
| 4 | Nanosculpting of complex oxides by massive ionic transfer. <i>Nanotechnology</i> , <b>2016</b> , 27, 505703   | 3.4  | 1 |
| 3 | Adsorption on alumina nanopores with conical shape. <i>Nanoscale</i> , <b>2018</b> , 10, 18300-18305  | 7.7  | 1 |
| 2 | 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> , <b>2008</b> , 47, 6926-6926  | 16.4 |   |
| 1 | Innentitelbild: Tailor-Made Inorganic Nanopeapods: Structural Design of Linear Noble Metal Nanoparticle Chains (Angew. Chem. 37/2008). <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7032-7032                                | 3.6  |   |