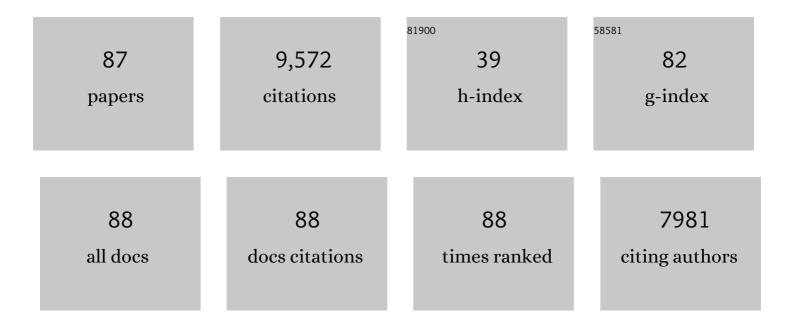
## Myoung-Jae Lee

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Photocurrent response in few-layered ReS2 devices with short and open circuits. Journal of the<br>Korean Physical Society, 2022, 80, 53-58.   | 0.7  | 3         |
| 2  | Parasitic Current Induced by Gate Overlap in Thin-Film Transistors. Materials, 2021, 14, 2299.  | 2.9  | 0         |
| 3  | Non-equilibrium chiral domain wall dynamics excited by transverse magnetic field pulses. Journal of<br>Physics Condensed Matter, 2021, 33, 015803.  | 1.8  | 3         |
| 4  | Comparative Study of SnSe <sub>2</sub> Exfoliation and the Photothermal Current from the Products. Crystal Growth and Design, 2021, 21, 6648-6654.  | 3.0  | 3         |
| 5  | Measurement of Exciton and Trion Energies in Multistacked hBN/WS2 Coupled Quantum Wells for<br>Resonant Tunneling Diodes. ACS Nano, 2020, 14, 16114-16121.  | 14.6 | 15        |
| 6  | Analysis of the hump phenomenon and needle defect states formed by driving stress in the oxide semiconductor. Scientific Reports, 2019, 9, 11977.   | 3.3  | 19        |
| 7  | High-Speed and Low-Temperature Atmospheric Photo-Annealing of Large-Area Solution-Processed IGZO<br>Thin-Film Transistors by Using Programmable Pulsed Operation of Xenon Flash Lamp. Journal of the<br>Korean Physical Society, 2019, 74, 1052-1058.                               | 0.7  | 6         |
| 8  | Role of Hydrogen in Active Layer of Oxide-Semiconductor-Based Thin Film Transistors. Crystals, 2019,<br>9, 75.  | 2.2  | 32        |
| 9  | Synthesis of Bi <sub>2</sub> Te <sub>3</sub> Single Crystals with Lateral Size up to Tens of<br>Micrometers by Vapor Transport and Its Potential for Thermoelectric Applications. Crystal Growth<br>and Design, 2019, 19, 2024-2029.  | 3.0  | 10        |
| 10 | A skin-like two-dimensionally pixelized full-color quantum dot photodetector. Science Advances, 2019,<br>5, eaax8801.   | 10.3 | 95        |
| 11 | High-performance and scalable metal-chalcogenide semiconductors and devices via chalco-gel routes.<br>Science Advances, 2018, 4, eaap9104.  | 10.3 | 53        |
| 12 | Improved Distribution of Resistance Switching Through Localized Ti-Doped NiO Layer With<br>InZnO <sub>x</sub> /CuO <sub>x</sub> Oxide Diode. IEEE Journal of the Electron Devices Society, 2018,<br>6, 905-909.   | 2.1  | 5         |
| 13 | Reliable Multivalued Conductance States in TaO <sub><i>x</i></sub> Memristors through Oxygen<br>Plasma-Assisted Electrode Deposition with in Situ-Biased Conductance State Transmission Electron<br>Microscopy Analysis. ACS Applied Materials & Interfaces, 2018, 10, 29757-29765. | 8.0  | 26        |
| 14 | Drain-Induced Barrier Lowering in Oxide Semiconductor Thin-Film Transistors With Asymmetrical<br>Local Density of States. IEEE Journal of the Electron Devices Society, 2018, 6, 830-834.   | 2.1  | 10        |
| 15 | A Hybrid Gate Dielectrics of Ion Gel with Ultra-Thin Passivation Layer for High-Performance<br>Transistors Based on Two-Dimensional Semiconductor Channels. Scientific Reports, 2017, 7, 14194.   | 3.3  | 9         |
| 16 | Impact of transient currents caused by alternating drain stress in oxide semiconductors. Scientific Reports, 2017, 7, 9782.   | 3.3  | 17        |
| 17 | Photo-thermoelectric properties of SnS nanocrystals with orthorhombic layered structure. Applied Physics Letters, 2017, 111, 013104.  | 3.3  | 4         |
| 18 | Electron-blocking by the potential barrier originated from the asymmetrical local density of state in the oxide semiconductor. Scientific Reports, 2017, 7, 17963.  | 3.3  | 12        |

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|----|---|------|-----------|
| 19 | Multilevel resistance in ZnO nanowire memristors enabled by hydrogen annealing treatment. AIP<br>Advances, 2016, 6, 125010.   | 1.3  | 19        |
| 20 | Thermoelectric materials by using two-dimensional materials with negative correlation between electrical and thermal conductivity. Nature Communications, 2016, 7, 12011.   | 12.8 | 173       |
| 21 | Vapor Transport Synthesis of Two-Dimensional SnS <sub>2</sub> Nanocrystals Using a<br>SnS <sub>2</sub> Precursor Obtained from the Sulfurization of SnO <sub>2</sub> . Crystal Growth<br>and Design, 2016, 16, 3884-3889. | 3.0  | 23        |
| 22 | Optical and photoelectric properties of Mn-doped ZnS thin film on a flexible<br>indium-tin-oxide/polyethylene terephthalate substrate prepared by pulsed laser deposition. Optical<br>Materials Express, 2016, 6, 2336.   | 3.0  | 19        |
| 23 | Schottky barrier contrasts in single and bi-layer graphene contacts for MoS2 field-effect transistors.<br>Applied Physics Letters, 2015, 107, .   | 3.3  | 8         |
| 24 | Rotationâ€Misfitâ€Free Heteroepitaxial Stacking and Stitching Growth of Hexagonal Transitionâ€Metal<br>Dichalcogenide Monolayers by Nucleation Kinetics Controls. Advanced Materials, 2015, 27, 3803-3810.                | 21.0 | 113       |
| 25 | Effects of growth temperature on surface morphology of InP grown on patterned Si(0 0 1) substrates.<br>Journal of Crystal Growth, 2015, 416, 113-117.   | 1.5  | 10        |
| 26 | Interlayer orientation-dependent light absorption and emission in monolayer semiconductor stacks.<br>Nature Communications, 2015, 6, 7372.  | 12.8 | 154       |
| 27 | Deterministic Two-Dimensional Polymorphism Growth of Hexagonal <i>n</i> -Type SnS <sub>2</sub><br>and Orthorhombic <i>p</i> -Type SnS Crystals. Nano Letters, 2015, 15, 3703-3708.  | 9.1  | 289       |
| 28 | The role of contact resistance in GeTe and Ge2Sb2Te5 nanowire phase change memory reset switching current. Applied Physics Letters, 2015, 106, .  | 3.3  | 16        |
| 29 | Interpretation of set and reset switching in nickel oxide thin films. Applied Physics Letters, 2014, 104, .   | 3.3  | 5         |
| 30 | Anomalous effect due to oxygen vacancy accumulation below the electrode in bipolar resistance switching Pt/Nb:SrTiO3 cells. APL Materials, 2014, 2, .   | 5.1  | 39        |
| 31 | Interface sulfur passivation using H 2 S annealing for atomic-layer-deposited Al 2 O 3 films on an ultrathin-body In 0.53 Ga 0.47 As-on-insulator. Applied Surface Science, 2014, 315, 178-183.                           | 6.1  | 15        |
| 32 | Emerging Oxide Resistance Change Memories. , 2014, , 195-218.   |      | 3         |
| 33 | In situ observation of filamentary conducting channels in an asymmetric Ta2O5â^'x/TaO2â^'x bilayer structure. Nature Communications, 2013, 4, 2382.   | 12.8 | 308       |
| 34 | A plasma-treated chalcogenide switch device for stackable scalable 3D nanoscale memory. Nature<br>Communications, 2013, 4, 2629.  | 12.8 | 130       |
| 35 | Highâ€Performance Nanowire Oxide Photoâ€Thin Film Transistor. Advanced Materials, 2013, 25, 5549-5554.  | 21.0 | 49        |
| 36 | Theoretical studies on distribution of resistances in multilevel bipolar oxide resistive memory by<br>Monte Carlo method. Applied Physics Letters, 2013, 103, .   | 3.3  | 13        |

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|----|--|------|-----------|
| 37 | Multi-level switching of triple-layered TaOx RRAM with excellent reliability for storage class memory. , 2012, , .   |      | 119       |
| 38 | Effects of a Load Resistor on Conducting Filament Characteristics and Unipolar Resistive Switching Behaviors in a Pt/NiO/Pt Structure. IEEE Electron Device Letters, 2012, 33, 881-883.                                | 3.9  | 16        |
| 39 | Investigation for Resistive Switching by Controlling Overflow Current in Resistance Change<br>Nonvolatile Memory. IEEE Nanotechnology Magazine, 2012, 11, 1122-1125.   | 2.0  | 5         |
| 40 | Highly-scalable threshold switching select device based on chaclogenide glasses for 3D nanoscaled memory arrays. , 2012, , .   |      | 53        |
| 41 | Modeling for multilevel switching in oxide-based bipolar resistive memory. Nanotechnology, 2012, 23, 225702.   | 2.6  | 52        |
| 42 | Fabication of one-diode-one-resistor memory cell structure of Pt/CuO/Pt/TiN/Pt/CuO/InZnOx/Pt and the effect of TiN layer on the improved resistance switching characteristics. Thin Solid Films, 2012, 520, 2272-2277. | 1.8  | 4         |
| 43 | Highly Uniform Switching of Tantalum Embedded Amorphous Oxide Using Self-Compliance Bipolar<br>Resistive Switching. IEEE Electron Device Letters, 2011, 32, 399-401.   | 3.9  | 68        |
| 44 | A Simple Device Unit Consisting of All NiO Storage and Switch Elements for Multilevel Terabit<br>Nonvolatile Random Access Memory. ACS Applied Materials & Interfaces, 2011, 3, 4475-4479.                             | 8.0  | 26        |
| 45 | A fast, high-endurance and scalable non-volatile memory device made from asymmetric<br>Ta2O5â^x/TaO2â^'x bilayer structures. Nature Materials, 2011, 10, 625-630.  | 27.5 | 1,930     |
| 46 | Three-Dimensional Integration Approach to High-Density Memory Devices. IEEE Transactions on Electron Devices, 2011, 58, 3820-3828.   | 3.0  | 18        |
| 47 | Oxide Doubleâ€Layer Nanocrossbar for Ultrahighâ€Density Bipolar Resistive Memory. Advanced Materials,<br>2011, 23, 4063-4067.  | 21.0 | 108       |
| 48 | Interface-modified random circuit breaker network model applicable to both bipolar and unipolar resistance switching. Applied Physics Letters, 2011, 98, .   | 3.3  | 41        |
| 49 | Conversion from unipolar to bipolar resistance switching by inserting Ta2O5 layer in Pt/TaOx/Pt cells.<br>Applied Physics Letters, 2011, 98, 183507.   | 3.3  | 35        |
| 50 | Time-dependent current-voltage curves during the forming process in unipolar resistance switching.<br>Applied Physics Letters, 2011, 98, .   | 3.3  | 21        |
| 51 | Scaling Theory for Unipolar Resistance Switching. Physical Review Letters, 2010, 105, 205701.  | 7.8  | 74        |
| 52 | Fractal Dimension of Conducting Paths in Nickel Oxide (NiO) Thin Films During Resistance Switching.<br>IEEE Nanotechnology Magazine, 2010, 9, 131-133.   | 2.0  | 29        |
| 53 | Reduction in high reset currents in unipolar resistance switching Pt/SrTiOx/Pt capacitors using acceptor doping. Applied Physics Letters, 2010, 97, 093505.  | 3.3  | 21        |
| 54 | Improved Resistive Switching Reliability in Graded NiO Multilayer for Resistive Nonvolatile Memory<br>Devices. IEEE Electron Device Letters, 2010, 31, 725-727.  | 3.9  | 20        |

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|----|---|------|-----------|
| 55 | Modeling for bipolar resistive memory switching in transition-metal oxides. Physical Review B, 2010, 82, .  | 3.2  | 163       |
| 56 | Resistive switching transition induced by a voltage pulse in a Pt/NiO/Pt structure. Applied Physics<br>Letters, 2010, 97, .   | 3.3  | 65        |
| 57 | Large 1/f noise of unipolar resistance switching and its percolating nature. Applied Physics Letters, 2009, 95, .   | 3.3  | 45        |
| 58 | Multilevel Programmable Oxide Diode for Cross-Point Memory by Electrical-Pulse-Induced Resistance<br>Change. IEEE Electron Device Letters, 2009, 30, 1036-1038.                             | 3.9  | 9         |
| 59 | Lowâ€Temperatureâ€Grown Transition Metal Oxide Based Storage Materials and Oxide Transistors for<br>Highâ€Density Nonâ€volatile Memory. Advanced Functional Materials, 2009, 19, 1587-1593. | 14.9 | 206       |
| 60 | Stackable All-Oxide-Based Nonvolatile Memory With \$ hbox{Al}_{2}hbox{O}_{3}\$ Antifuse and \$hbox{p-CuO}_{x}/ hbox{n-InZnO}_{x}\$ Diode. IEEE Electron Device Letters, 2009, 30, 550-552.  | 3.9  | 36        |
| 61 | Different resistance switching behaviors of NiO thin films deposited on Pt and SrRuO3 electrodes.<br>Applied Physics Letters, 2009, 95, .   | 3.3  | 110       |
| 62 | Electrical Manipulation of Nanofilaments in Transition-Metal Oxides for Resistance-Based Memory.<br>Nano Letters, 2009, 9, 1476-1481.   | 9.1  | 383       |
| 63 | Random Circuit Breaker Network Model for Unipolar Resistance Switching. Advanced Materials, 2008, 20, 1154-1159.  | 21.0 | 330       |
| 64 | Write Current Reduction in Transition Metal Oxide Based Resistance Change Memory. Advanced<br>Materials, 2008, 20, 924-928.   | 21.0 | 159       |
| 65 | High urrentâ€Đensity CuO <sub>x</sub> /InZnO <sub>x</sub> Thinâ€Film Diodes for Crossâ€Point Memory<br>Applications. Advanced Materials, 2008, 20, 3066-3069.                               | 21.0 | 118       |
| 66 | Interpretation of nanoscale conducting paths and their control in nickel oxide (NiO) thin films.<br>Applied Physics Letters, 2008, 92, .  | 3.3  | 37        |
| 67 | Effects of metal electrodes on the resistive memory switching property of NiO thin films. Applied Physics Letters, 2008, 93, .  | 3.3  | 165       |
| 68 | Defect-induced degradation of rectification properties of aged Ptâ^•n-InxZn1â^'xOy Schottky diodes.<br>Applied Physics Letters, 2008, 92, 233507.   | 3.3  | 14        |
| 69 | Comparative structural and electrical analysis of NiO and Ti doped NiO as materials for resistance random access memory. Journal of Applied Physics, 2008, 103, 013706.                     | 2.5  | 46        |
| 70 | Decrease in switching voltage fluctuation of Ptâ^•NiOxâ^•Pt structure by process control. Applied Physics<br>Letters, 2007, 91, 022112.   | 3.3  | 63        |
| 71 | Electromigration effect of Ni electrodes on the resistive switching characteristics of NiO thin films.<br>Applied Physics Letters, 2007, 91, 082104.  | 3.3  | 66        |
| 72 | Observation of electric-field induced Ni filament channels in polycrystalline NiOx film. Applied<br>Physics Letters, 2007, 91, .  | 3.3  | 230       |

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|----|--|------|-----------|
| 73 | A Low-Temperature-Grown Oxide Diode as a New Switch Element for High-Density, Nonvolatile<br>Memories. Advanced Materials, 2007, 19, 73-76.                        | 21.0 | 224       |
| 74 | Two Series Oxide Resistors Applicable to High Speed and High Density Nonvolatile Memory. Advanced<br>Materials, 2007, 19, 3919-3923.                               | 21.0 | 407       |
| 75 | Random and localized resistive switching observation in Pt/NiO/Pt. Physica Status Solidi - Rapid<br>Research Letters, 2007, 1, 280-282.                            | 2.4  | 75        |
| 76 | 2-stack 1D-1R Cross-point Structure with Oxide Diodes as Switch Elements for High Density Resistance RAM Applications. , 2007, , .                                 |      | 166       |
| 77 | Electrical observations of filamentary conductions for the resistive memory switching in NiO films.<br>Applied Physics Letters, 2006, 88, 202102.                  | 3.3  | 498       |
| 78 | Improvement of resistive memory switching in NiO using IrO2. Applied Physics Letters, 2006, 88, 232106.  | 3.3  | 186       |
| 79 | Resistance-switching Characteristics of polycrystalline Nb/sub 2/O/sub 5/ for nonvolatile memory application. IEEE Electron Device Letters, 2005, 26, 292-294.     | 3.9  | 101       |
| 80 | Resistance switching of the nonstoichiometric zirconium oxide for nonvolatile memory applications.<br>IEEE Electron Device Letters, 2005, 26, 719-721.             | 3.9  | 107       |
| 81 | Electrode dependence of resistance switching in polycrystalline NiO films. Applied Physics Letters, 2005, 87, 263507.  | 3.3  | 95        |
| 82 | Study of Transport and Dielectric of Resistive Memory States in NiO Thin Film. Japanese Journal of Applied Physics, 2005, 44, L1301-L1303.                         | 1.5  | 35        |
| 83 | Giant and Stable Conductivity Switching Behaviors in ZrO2Films Deposited by Pulsed Laser<br>Depositions. Japanese Journal of Applied Physics, 2005, 44, L345-L347. | 1.5  | 25        |
| 84 | Conductivity switching characteristics and reset currents in NiO films. Applied Physics Letters, 2005, 86, 093509.   | 3.3  | 151       |
| 85 | Properties of Nickel Oxide Films by DC Reactive Sputtering. Integrated Ferroelectrics, 2004, 68, 19-25.  | 0.7  | 12        |
| 86 | The Dielectric Properties of Pb0.65Ba0.35ZrO3 Thin Films Applicable to Microwave Tunable Devices.<br>Integrated Ferroelectrics, 2004, 66, 205-211.                 | 0.7  | 7         |
| 87 | Reproducible resistance switching in polycrystalline NiO films. Applied Physics Letters, 2004, 85, 5655-5657.  | 3.3  | 890       |