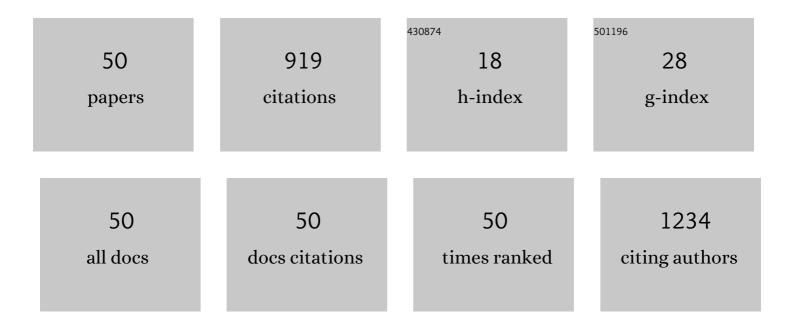
## Suyoun Lee

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Three-Terminal Ovonic Threshold Switch (3T-OTS) with Tunable Threshold Voltage for Versatile Artificial Sensory Neurons. Nano Letters, 2022, 22, 733-739.	9.1	10
2	SPICE Study of STDP Characteristics in a Drift and Diffusive Memristor-Based Synapse for Neuromorphic Computing. IEEE Access, 2022, 10, 6381-6392.	4.2	1
3	Emulating the short-term plasticity of a biological synapse with a ruthenium complex-based organic mixed ionic–electronic conductor. Materials Advances, 2022, 3, 2827-2837.	5.4	6
4	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis. Advanced Materials, 2022, 34, e2201608.	21.0	20
5	Reconfigurable heterogeneous integration using stackable chips with embedded artificial intelligence. Nature Electronics, 2022, 5, 386-393.	26.0	57
6	Cluster-type analogue memristor by engineering redox dynamics for high-performance neuromorphic computing. Nature Communications, 2022, 13, .	12.8	26
7	A Comparison Study on Multilayered Barrier Oxide Structure in Charge Trap Flash for Synaptic Operation. Crystals, 2021, 11, 70.	2.2	5
8	Modulating Curie Temperature and Magnetic Anisotropy in Nanoscale-Layered Cr <sub>2</sub> Te <sub>3</sub> Films: Implications for Room-Temperature Spintronics. ACS Applied Nano Materials, 2021, 4, 4810-4819.	5.0	25
9	Tailoring topological Hall effect in SrRuO3/SrTiO3 superlattices. Acta Materialia, 2021, 216, 117153.	7.9	9
10	Field-like spin–orbit torque induced by bulk Rashba channels in GeTe/NiFe bilayers. NPG Asia Materials, 2021, 13, .	7.9	7
11	Improved polaronic transport under a strong Mott–Hubbard interaction in Cu-substituted NiO. Inorganic Chemistry Frontiers, 2020, 7, 853-858.	6.0	6
12	Large Temperature-Independent Magnetoresistance without Gating Operation in Monolayer Graphene. ACS Applied Materials & Interfaces, 2020, 12, 53134-53140.	8.0	1
13	A 2D material-based floating gate device with linear synaptic weight update. Nanoscale, 2020, 12, 24503-24509.	5.6	34
14	Enhanced analog synaptic behavior of SiNx/a-Si bilayer memristors through Ge implantation. NPG Asia Materials, 2020, 12, .	7.9	16
15	Simple Artificial Neuron Using an Ovonic Threshold Switch Featuring Spike-Frequency Adaptation and Chaotic Activity. Physical Review Applied, 2020, 13, .	3.8	19
16	Reversible switching mode change in Ta2O5-based resistive switching memory (ReRAM). Scientific Reports, 2020, 10, 11247.	3.3	20
17	Phase Instability amid Dimensional Crossover in Artificial Oxide Crystal. Physical Review Letters, 2020, 124, 026401.	7.8	32
18	Correlation between Ru–O hybridization and the oxygen evolution reaction in ruthenate epitaxial thin films. Sustainable Energy and Fuels, 2019, 3, 2867-2872.	4.9	7

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19	Composition-dependent topological-insulator properties of epitaxial (Bi1-Sb )2(Te1-Se )3 thin films. Journal of Alloys and Compounds, 2019, 800, 81-87.	5.5	3
20	Dimensional Crossover Transport Induced by Substitutional Atomic Doping in SnSe <sub>2</sub> . Advanced Electronic Materials, 2018, 4, 1700563.	5.1	18
21	Effect of Nb concentration on the spin-orbit coupling strength in Nb-doped SrTiO3 epitaxial thin films. Scientific Reports, 2018, 8, 5739.	3.3	3
22	Enhanced electrocatalytic activity via phase transitions in strongly correlated SrRuO <sub>3</sub> thin films. Energy and Environmental Science, 2017, 10, 924-930.	30.8	82
23	Tuning electromagnetic properties of SrRuO3 epitaxial thin films via atomic control of cation vacancies. Scientific Reports, 2017, 7, 11583.	3.3	36
24	Suppression of bulk conductivity and large phase relaxation length in topological insulator Bi2-δSnδTe3 epitaxial thin films grown by Metal-Organic Chemical Vapor Deposition (MOCVD). Journal of Alloys and Compounds, 2017, 723, 942-947.	5.5	5
25	A study on the interface between an amorphous chalcogenide and the electrode: Effect of the electrode on the characteristics of the Ovonic Threshold Switch (OTS). Journal of Alloys and Compounds, 2017, 691, 880-883.	5.5	13
26	Large linear magnetoresistance in heavily-doped Nb:SrTiO3 epitaxial thin films. Scientific Reports, 2016, 6, 34295.	3.3	12
27	Resonant tunnelling in a quantum oxide superlattice. Nature Communications, 2015, 6, 7424.	12.8	44
28	A new simple method for point contact Andreev reflection (PCAR) using a self-aligned atomic filament in transition-metal oxides. Nanoscale, 2015, 7, 8531-8535.	5.6	5
29	High mobility, large linear magnetoresistance, and quantum transport phenomena in Bi <sub>2</sub> Te <sub>3</sub> films grown by metallo-organic chemical vapor deposition (MOCVD). Nanoscale, 2015, 7, 17359-17365.	5.6	7
30	Anomalous reduction of the switching voltage of Bi-doped Ge <sub>0.5</sub> Se <sub>0.5</sub> ovonic threshold switching devices. Applied Physics Letters, 2014, 104, 153503.	3.3	21
31	Nanosecond switching in GeSe phase change memory films by atomic force microscopy. Applied Physics Letters, 2014, 104, .	3.3	29
32	Optical properties of amorphous Ge1â^'x Se x and Ge1â^'xâ^'y Se x As y thin films — optical gap bowing and phonon modes. Journal of the Korean Physical Society, 2014, 64, 1726-1736.	0.7	1
33	Transparent conducting oxides: A δ-doped superlattice approach. Scientific Reports, 2014, 4, 6021.	3.3	11
34	The effect of doping Sb on the electronic structure and the device characteristics of Ovonic Threshold Switches based on Ge-Se. Scientific Reports, 2014, 4, 7099.	3.3	46
35	Effect of density of localized states on the ovonic threshold switching characteristics of the amorphous GeSe films. Applied Physics Letters, 2013, 103, .	3.3	28
36	Threshold resistive and capacitive switching behavior in binary amorphous GeSe. Journal of Applied Physics, 2012, 111, 102807.	2.5	33

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37	Fractionally δ-Doped Oxide Superlattices for Higher Carrier Mobilities. Nano Letters, 2012, 12, 4590-4594.	9.1	36
38	Fast and scalable memory characteristics of Geâ€doped SbTe phase change materials. Physica Status Solidi (B): Basic Research, 2012, 249, 1985-1991.	1.5	17
39	Numerical study on passive crossbar arrays employing threshold switches as cell-selection-devices. Electronic Materials Letters, 2012, 8, 169-174.	2.2	3
40	Dc current transport behavior in amorphous GeSe films. Applied Physics A: Materials Science and Processing, 2011, 102, 1027-1032.	2.3	6
41	A study on the temperature dependence of the threshold switching characteristics of Ge2Sb2Te5. Applied Physics Letters, 2010, 96, .	3.3	24
42	Improved stability of a phase change memory device using Ge-doped SbTe at varying ambient temperature. Applied Physics Letters, 2010, 96, 133510.	3.3	16
43	A study on the temperature dependence of characteristics of phase change memory devices. Applied Physics Letters, 2009, 95, 093504.	3.3	6
44	Investigation on the role of nitrogen in crystallization of Sb-rich phase change materials. Applied Physics Letters, 2009, 95, .	3.3	14
45	Analysis and improvement of interfacial adhesion of growth-dominant Ge-doped SbTe phase change materials. Applied Physics Letters, 2009, 94, .	3.3	7
46	A Study on the Failure Mechanism of a Phase-Change Memory in Write/Erase Cycling. IEEE Electron Device Letters, 2009, 30, 448-450.	3.9	38
47	Bias polarity dependence of a phase change memory with a Ge-doped SbTe: A method for multilevel programing. Applied Physics Letters, 2008, 92, 243507.	3.3	28
48	A Novel Programming Method to Refresh a Long-Cycled Phase Change Memory Cell. , 2008, , .		5
49	Microstructural and optical analysis of superresolution phenomena due to Ge2Sb2Te5 thin films at blue light regime. Applied Physics Letters, 2008, 93, 221108.	3.3	7
50	Measurement of the superconducting gap of MgB2 by point contact spectroscopy. Physica C: Superconductivity and Its Applications, 2002, 377, 202-207.	1.2	14