

# Min Hwan Lee

## List of Publications by Citations

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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.

58 papers	3,576 citations	25 h-index	59 g-index
81 ext. papers	3,912 ext. citations	6 avg, IF	4.86 L-index

#	Paper	IF	Citations
58	Atomic structure of conducting nanofilaments in TiO <sub>2</sub> resistive switching memory. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 148-53	28.7	1672
57	Highly improved uniformity in the resistive switching parameters of TiO <sub>2</sub> thin films by inserting Ru nanodots. <i>Advanced Materials</i> , <b>2013</b> , 25, 1987-92	24	152
56	A detailed understanding of the electronic bipolar resistance switching behavior in Pt/TiO <sub>2</sub> /Pt structure. <i>Nanotechnology</i> , <b>2011</b> , 22, 254010	3.4	140
55	A Pt/TiO <sub>2</sub> /Ti Schottky-type selection diode for alleviating the sneak current in resistance switching memory arrays. <i>Nanotechnology</i> , <b>2010</b> , 21, 195201	3.4	113
54	Oxygen Surface Exchange at Grain Boundaries of Oxide Ion Conductors. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 965-971	15.6	109
53	Electrically configurable electroforming and bipolar resistive switching in Pt/TiO <sub>2</sub> /Pt structures. <i>Nanotechnology</i> , <b>2010</b> , 21, 305203	3.4	104
52	Resistive switching memory: observations with scanning probe microscopy. <i>Nanoscale</i> , <b>2011</b> , 3, 490-502	7.7	96
51	Plasma-enhanced atomic layer deposition of nanoscale yttria-stabilized zirconia electrolyte for solid oxide fuel cells with porous substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2998-3002	9.5	83
50	Ultrathin YSZ Coating on Pt Cathode for High Thermal Stability and Enhanced Oxygen Reduction Reaction Activity. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402251	21.8	75
49	Collective Motion of Conducting Filaments in Pt/n-Type TiO <sub>2</sub> /p-Type NiO/Pt Stacked Resistance Switching Memory. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1587-1592	15.6	69
48	Study on the electrical conduction mechanism of bipolar resistive switching TiO <sub>2</sub> thin films using impedance spectroscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 152909	3.4	67
47	Real-time identification of the evolution of conducting nano-filaments in TiO <sub>2</sub> thin film ReRAM. <i>Scientific Reports</i> , <b>2013</b> , 3, 3443	4.9	64
46	Memristive tri-stable resistive switching at ruptured conducting filaments of a Pt/TiO <sub>2</sub> /Pt cell. <i>Nanotechnology</i> , <b>2012</b> , 23, 185202	3.4	62
45	Improved endurance of resistive switching TiO <sub>2</sub> thin film by hourglass shaped Magn <sub>2</sub> filaments. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 262901	3.4	60
44	Bendable polymer electrolyte fuel cell using highly flexible Ag nanowire percolation network current collectors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8541	13	58
43	Fabrication of low-temperature solid oxide fuel cells with a nanothin protective layer by atomic layer deposition. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 48	5	48
42	Performance enhancement in bendable fuel cell using highly conductive Ag nanowires. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7422-7427	6.7	46

41	Role of Ru nano-dots embedded in TiO <sub>2</sub> thin films for improving the resistive switching behavior. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 232904	3.4	43
40	Identification of the controlling parameter for the set-state resistance of a TiO <sub>2</sub> resistive switching cell. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 112904	3.4	41
39	Process-property relationship in high-k ALD SrTiO <sub>3</sub> and BaTiO <sub>3</sub> : a review. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8000-8013	7.1	36
38	High performance Bi-layered electrolytes via atomic layer deposition for solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 253, 114-122	8.9	31
37	Schottky diode with excellent performance for large integration density of crossbar resistive memory. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 213508	3.4	30
36	Influence of the Interconnection Line Resistance and Performance of a Resistive Cross Bar Array Memory. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, G211	3.9	27
35	Scanning probe based observation of bipolar resistive switching NiO films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 062909	3.4	26
34	Understanding structure-property relationship of resistive switching oxide thin films using a conical filament model. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 162912	3.4	25
33	Effects of surface chemistry and microstructure of electrolyte on oxygen reduction kinetics of solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 295, 74-78	8.9	24
32	Progress in durability of metal-supported solid oxide fuel cells with infiltrated electrodes. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226935	8.9	23
31	Surface redox induced bipolar switching of transition metal oxide films examined by scanning probe microscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 102, 827-834	2.6	20
30	Critical Impact of Graphene Functionalization for Transition Metal Oxide/Graphene Hybrids on Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10017-10026	3.8	17
29	Air-breathing flexible Polydimethylsiloxane (PDMS)-based fuel cell. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2013</b> , 14, 501-504	1.7	17
28	Mechanism of Cathodic Performance Enhancement by a Few-Nanometer-Thick Oxide Overcoat on Porous Pt Cathodes of Solid Oxide Fuel Cells. <i>ACS Omega</i> , <b>2017</b> , 2, 806-813	3.9	16
27	The Exact Run Length Distribution and Design of the Shewhart Chart with Estimated Parameters Based on Median Run Length. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2016</b> , 45, 2081-2103	0.6	16
26	Economically Optimal Design of a Multivariate Synthetic T <sup>2</sup> Chart. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2014</b> , 43, 1333-1361	0.6	12
25	Performance enhancement of thin-film ceramic electrolyte fuel cell using bi-layered yttrium-doped barium zirconate. <i>Thin Solid Films</i> , <b>2013</b> , 539, 117-121	2.2	12
24	Bias polarity dependent local electrical conduction in resistive switching TiO <sub>2</sub> thin films. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2010</b> , 4, 112-114	2.5	12

23	Multivariate EWMA Control Chart with Adaptive Sample Sizes. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2010</b> , 39, 1548-1561	0.6	11
22	Nanoscale Surface and Interface Engineering of Solid Oxide Fuel Cells by Atomic Layer Deposition. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , <b>2019</b> , 6, 611-628	3.8	10
21	Size and load dependence of nanoscale electric contact resistance. <i>Tribology International</i> , <b>2014</b> , 71, 109-113	4.9	10
20	Graphite foil based assembled bipolar plates for polymer electrolyte fuel cells. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2012</b> , 13, 2183-2186	1.7	10
19	Economic Design of Cumulative Sum Control Charts for Monitoring a Process with Correlated Samples. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2010</b> , 39, 1909-1922	0.6	8
18	Methods of Set Switching for Improving the Uniformity of Filament Formation in the TiO <sub>2</sub> Thin Film. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, G51		8
17	Resistive Switching in $\text{TiO}_2$ Thin Films Using the Semiconducting In-Ga-Zn-O Electrode. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 582-584	4.4	7
16	Influence of target to substrate distance on properties of Y-doped BaZrO <sub>3</sub> Thin films grown by pulsed laser deposition. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2013</b> , 14, 839-843	1.7	7
15	MOF-derived Co/Cu-embedded N-doped carbon for trifunctional ORR/OER/HER catalysis in alkaline media. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5473-5482	4.3	7
14	Graphene-based Oxygen Reduction Electrodes for Low Temperature Solid Oxide Fuel Cells. <i>Fuel Cells</i> , <b>2017</b> , 17, 344-352	2.9	6
13	Interfacial chemical bonding-mediated ionic resistive switching. <i>Scientific Reports</i> , <b>2017</b> , 7, 1264	4.9	6
12	Effect of Surface-Specific Treatment by Infiltration into LaNi <sub>6</sub> Fe <sub>4</sub> O <sub>3</sub> - $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Cathodic Backbone for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F255-F263	3.9	5
11	Freestanding Micro-SOFCs with Electrodes Prepared by Electrostatic Spray Deposition. <i>Fuel Cells</i> , <b>2014</b> , 14, 332-335	2.9	5
10	Multivariate EWMA Charts with Variable Sampling Intervals. <i>Economic Quality Control</i> , <b>2009</b> , 24,		5
9	Chemical Protection of Polycarbonate Surfaces by Atomic Layer Deposition of Alumina with Oxygen Plasma Pretreatment. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600340	4.6	4
8	How an angstrom-thick oxide overcoat enhances durability and activity of nanoparticle-decorated cathodes in solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15927-15935	13	3
7	Effect of mechanical and electrical stimuli in conductive atomic force microscopy with noble metal-coated tips. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 015301	2.5	2
6	NANOSCALE ELECTROCHEMISTRY IN ENERGY RELATED SYSTEMS USING ATOMIC FORCE MICROSCOPY. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , <b>2013</b> , 317-340	0.1	2

5	Trace amount of ceria incorporation by atomic layer deposition in Co/CoOx-embedded N-doped carbon for efficient bifunctional oxygen electrocatalysis: Demonstration and quasi-operando observations. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 38258-38269	6.7	2
4	Effect of Sintering Process with Co <sub>3</sub> O <sub>4</sub> on the Performance of LSCF-Based Cathodes for Solid Oxide Fuel Cells. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , <b>2018</b> , 5, 637-642	3.8	2
3	Highly Active Bifunctional Oxygen Electrocatalytic Sites Realized in Ceria-Functionalized Graphene. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 2000048	5.9	1
2	Electrical AFM for the Analysis of Resistive Switching. <i>Nanoscience and Technology</i> , <b>2019</b> , 205-229	0.6	
1	Poster: Memristive Systems	523-587	