

# Hae-Jin Hwang

## List of Publications by Year in descending order

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55  
papers

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525886

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55  
docs citations

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1143  
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#	ARTICLE	IF	CITATIONS
1	Electrochemical performance of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>x</sub> Fe <sub>1-x</sub> O <sub>3</sub> (x=0.2~0.8) cathode on a ScSZ electrolyte for intermediate temperature SOFCs. Journal of Power Sources, 2007, 171, 79-85.	4.0	74
2	Synthesis of nanoporous silica aerogel by ambient pressure drying. Journal of Sol-Gel Science and Technology, 2009, 49, 47-52.	1.1	67
3	The effect of pH on the physicochemical properties of silica aerogels prepared by an ambient pressure drying method. Materials Letters, 2007, 61, 3130-3133.	1.3	61
4	Lanthanum oxide-coated stainless steel for bipolar plates in solid oxide fuel cells (SOFCs). Journal of Power Sources, 2008, 181, 281-286.	4.0	46
5	Fabrication of silica aerogel composite blankets from an aqueous silica aerogel slurry. Ceramics International, 2018, 44, 2204-2208.	2.3	44
6	Fabrication of PEO-PMMA-LiClO <sub>4</sub> -Based Solid Polymer Electrolytes Containing Silica Aerogel Particles for All-Solid-State Lithium Batteries. Energies, 2018, 11, 2559.	1.6	40
7	Fabrication and electrochemical properties of Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> solid electrolytes by sol-gel method. Applied Surface Science, 2019, 473, 622-626.	3.1	34
8	Fabrication of Spherical Silica Aerogel Granules from Water Glass by Ambient Pressure Drying. Journal of the American Ceramic Society, 2011, 94, 3198-3201.	1.9	33
9	Fabrication of a regenerable Ni supported NiO-MgO catalyst for methane steam reforming by exsolution. Journal of Power Sources, 2018, 397, 318-324.	4.0	33
10	Power-Generation Characteristics After Vibration and Thermal Stresses of Thermoelectric Unicouples with CoSb <sub>3</sub> /Ti/Mo(Cu) Interfaces. Journal of Electronic Materials, 2015, 44, 2124-2131.	1.0	26
11	Fabrication of Li-polymer/silica aerogel nanocomposite electrolyte for an all-solid-state lithium battery. Ceramics International, 2013, 39, 9659-9663.	2.3	24
12	New fabrication technique for a Ni-YSZ composite anode from a core-shell structured particle. Solid State Ionics, 2012, 207, 64-68.	1.3	23
13	Removal of Nitric Oxide (NO) by Perovskite-Type Composite Catalytic Thick Film, La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> and Gadolinia-Doped Ceria Electrolyte, Gd <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2</sub> . Journal of the American Ceramic Society, 2005, 88, 79-84.	1.9	20
14	Fabrication of spherical silica aerogel/magnetite nanocomposite particles. Materials Letters, 2013, 112, 153-157.	1.3	18
15	Influence of Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2</sub> particles on microstructure and oxygen permeability of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> composite membrane. Solid State Ionics, 2010, 181, 1387-1393.	1.3	17
16	Preparation and properties of a MnCo <sub>2</sub> O <sub>4</sub> for ceramic interconnect of solid oxide fuel cell via glycine nitrate process. Metals and Materials International, 2011, 17, 1039-1043.	1.8	17
17	Synthesis of Fe <sub>3</sub> O <sub>4</sub> -coated silica aerogel nanocomposites. Transactions of Nonferrous Metals Society of China, 2012, 22, s702-s706.	1.7	17
18	Catalytic activity of Y and Fe co-doped SrTiO <sub>3</sub> perovskites for methane oxidation. Electronic Materials Letters, 2011, 7, 209-213.	1.0	15

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19	Oxide ion diffusion in Ba-doped LaInO <sub>3</sub> perovskite: A molecular dynamics study. Journal of Power Sources, 2013, 222, 282-287.	4.0	14
20	All-Solid-State Lithium-Ion Batteries with Oxide/Sulfide Composite Electrolytes. Materials, 2021, 14, 1998.	1.3	14
21	Nanostructured thermoelectric cobalt oxide by exfoliation/restacking route. Journal of Applied Physics, 2012, 112, .	1.1	13
22	Molecular dynamics simulation of the effect of dopant distribution homogeneity on the oxide ion conductivity of Ba-doped LaInO <sub>3</sub> . Journal of Power Sources, 2014, 248, 1085-1089.	4.0	13
23	Fabrication and performance of solid oxide fuel cell anodes from core-shell structured Ni/yttria-stabilized zirconia (YSZ) powders. Ceramics International, 2016, 42, 10110-10115.	2.3	12
24	Fast Synthesis of Spherical Silica Aerogel Powders by Emulsion Polymerization from Water Glass. ChemistrySelect, 2018, 3, 1257-1261.	0.7	12
25	Carbon nanotube-based thermoplastic polyurethane-poly(methyl methacrylate) nanocomposites for pressure sensing applications. Polymer Engineering and Science, 2016, 56, 1031-1036.	1.5	11
26	Characteristics of flat-tubular ceramic supported segmented-in-series solid oxide fuel cell on all sides laminating using decalcomania method. Journal of Power Sources, 2014, 262, 323-327.	4.0	10
27	Fabrication of novel type solid electrolyte membrane reactors for exhaust gas purification. Journal of the European Ceramic Society, 2004, 24, 1325-1328.	2.8	9
28	Effect of (La <sub>0.8</sub> Sr <sub>0.2</sub> )CrO <sub>3</sub> Coating on Carbon Deposition onto a Stainless-Steel (SUS430) Substrate. Journal of the American Ceramic Society, 2005, 88, 3275-3278.	1.9	9
29	Synthesis and sintering behavior of La <sub>0.8</sub> Sr <sub>0.2</sub> CrO <sub>3</sub> by a glycine nitrate process. Ceramics International, 2011, 37, 2269-2274.	2.3	9
30	Thermal Gelation for Synthesis of Surface-Modified Silica Aerogel Powders. Gels, 2021, 7, 242.	2.1	9
31	Synthesis of Silica Aerogel Thin Film from Waterglass. Solid State Phenomena, 2007, 124-126, 671-674.	0.3	8
32	Methane oxidation behavior over La <sub>0.08</sub> Sr <sub>0.92</sub> Fe <sub>0.20</sub> Ti <sub>0.80</sub> O <sub>3</sub> perovskite oxide for SOFC anode. Ceramics International, 2014, 40, 1525-1529.	2.3	8
33	Thermodynamic analysis of the synthesis of silicon carbide nanofibers from exfoliated graphite and amorphous silica. CrystEngComm, 2014, 16, 2348.	1.3	8
34	Synthesis of Silicon Carbide Powders from Methyl-Modified Silica Aerogels. Applied Sciences (Switzerland), 2020, 10, 6161.	1.3	7
35	Digital inkjet printing in three dimensions with multiple ceramic compositions. Journal of the European Ceramic Society, 2021, 41, 1490-1497.	2.8	7
36	Microstructure and electrical properties of nano-sized Ce <sub>1-x</sub> Gd <sub>x</sub> O <sub>2</sub> (0 ≤ x ≤ 0.2) particles prepared by spray pyrolysis. Journal of the Ceramic Society of Japan, 2008, 116, 969-974.	0.5	6

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37	Properties of modified Nafion® membranes with heavy amount of (3-mercaptopropyl) trimethoxysilane prepared by long-term infiltration. <i>Metals and Materials International</i> , 2010, 16, 477-481.	1.8	6
38	Effect of cell-to-cell distance in segmented-in-series solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2320-2325.	3.8	6
39	Fabrication and Cell Properties of Flattened Tube Segmented-in-Series Solid Oxide Fuel Cell-Stack Using Decalcomania Paper. <i>Korean Journal of Materials Research</i> , 2013, 23, 206-210.	0.1	6
40	Synthesis of Ceramic/Polymer Nanocomposite Electrolytes for All-Solid-State Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4494-4497.	0.9	5
41	Ionic and Electronic Conductivities of Lithium Argyrodite Li6PS5Cl Electrolytes Prepared via Wet Milling and Post-Annealing. <i>Frontiers in Chemistry</i> , 2021, 9, 778057.	1.8	5
42	Catalysts characteristics of Ni/YSZ core-shell according to plating conditions using electroless plating. <i>Metals and Materials International</i> , 2017, 23, 1227-1233.	1.8	4
43	Strengthening of Water Glass Based Aerogel by TEOS. <i>Materials Science Forum</i> , 2007, 544-545, 1053-1056.	0.3	3
44	Effect of cell length on the performance of segmented-in-series solid oxide fuel cells fabricated using decalcomania method. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 178-181.	0.5	3
45	Computational Analysis of Oxide Ion Conduction in Orthorhombic Perovskite Structured $\text{La}_{0.9}\text{A}_{0.1}\text{InO}_{2.95}$ (A=Ca, Sr and Ba). <i>Journal of the American Ceramic Society</i> , 2015, 98, 515-519.	1.9	3
46	Behavior of precipitation and morphological, structural properties during the synthesis of spherical Ni and Ni <sub>0.95</sub> M <sub>0.05</sub> (M=Cu, Cr, Co, Fe) nano-particles. <i>Metals and Materials International</i> , 2015, 21, 1074-1080.	1.8	2
47	Fabrication of Durable Ni-YSZ Hydrogen Electrode for High-Temperature Solid Electrolyzer Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3842-3846.	0.9	2
48	Fabrication of Ce-Promoted Ni/Al <sub>2</sub> O <sub>3</sub> Methane Steam Reforming Catalysts by Impregnation. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4327-4330.	0.9	2
49	Electrochemical Removal of NO <sub>x</sub> by Scandium Doped Zirconia Membrane Reactor with Ceria Buffer Layer. <i>Journal of Electroceramics</i> , 2004, 13, 727-732.	0.8	1
50	Fabrication and characterization of a dual layer ceramic interconnect on a porous NiO-YSZ anode support. <i>Ceramics International</i> , 2012, 38, 6843-6847.	2.3	1
51	The Effect of Co-Doping at the A-Site on the Structure and Oxide Ion Conductivity in $(\text{Ba}_{0.5-x}\text{Sr}_x)\text{La}_{0.5}\text{InO}_{3-\delta}$ : A Molecular Dynamics Study. <i>Materials</i> , 2019, 12, 3739.	1.3	1
52	Fabrication $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ (BSCF)/ $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{2-\delta}$ (GDC) and $\text{La}_{0.6}\text{Ba}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ (LBCF)/ $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{2-\delta}$ (GDC) Composite Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. <i>Journal of the Korean Ceramic Society</i> , 2007, 44, 740-746.	1.1	1
53	Preparation and Characterization of Lithium Ion Conductive Organic/Inorganic Composite Solid Electrolyte. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3742-3746.	0.9	0
54	Electrochemical Properties of Segmented-in-series SOFC Using Ni-Fe/YSZ Core-shell Anode. <i>Journal of the Korean Ceramic Society</i> , 2014, 51, 357-361.	1.1	0

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55	Polymer Solution Route for Synthesis of Nano-Sized, SiO <sub>2</sub> Based Ceramic Powders. Journal of Nanoscience and Nanotechnology, 2020, 20, 4498-4501.	0.9	0