

# Haigun Lee

## List of Publications by Year in Descending Order

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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.

59  
papers

982  
citations

20  
h-index

29  
g-index

59  
ext. papers

1,128  
ext. citations

2.7  
avg, IF

3.73  
L-index

#	Paper	IF	Citations
59	MOF-derived CoP-nitrogen-doped carbon@NiFeP nanoflakes as an efficient and durable electrocatalyst with multiple catalytically active sites for OER, HER, ORR and rechargeable zinc-air batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131115	14.7	42
58	Future Prospects of Positron Emission Tomography/Magnetic Resonance Imaging Hybrid Systems and Applications in Psychiatric Disorders. <i>Pharmaceuticals</i> , <b>2022</b> , 15, 583	5.2	1
57	3D Reconstruction of the Human Pallidothalamic and Nigrothalamic Pathways With Super-Resolution 7T MR Track Density Imaging and Fiber Tractography. <i>Frontiers in Neuroanatomy</i> , <b>2021</b> , 15, 739576	3.6	2
56	Thermal-quench behavior of non-insulated high-temperature superconducting (HTS) racetrack pancake coil with cooling channels through the epoxy surface. <i>Results in Physics</i> , <b>2021</b> , 24, 104131	3.7	
55	Three-dimensional bimetal TMO supported carbon based electrocatalyst developed via dry synthesis for hydrogen and oxygen evolution. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144642	6.7	23
54	Ultrasonication-dry-based synthesis of gold nanoparticle-supported CuFe on rGO nanosheets for competent detection of biological molecules. <i>Applied Surface Science</i> , <b>2020</b> , 531, 147415	6.7	7
53	Fabrication and Charging Test of HTS Field Windings Using HTS Contactless Rotary Excitation Device. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-7	1.8	7
52	Design, analysis, and fabrication of salient field-pole for a 1-kW-class HTS rotating machine. <i>Cryogenics</i> , <b>2019</b> , 97, 126-132	1.8	7
51	Challenging endeavor to integrate gallium and carbon via direct bonding to evolve GaN on diamond architecture. <i>Scripta Materialia</i> , <b>2018</b> , 142, 138-142	5.6	13
50	Micro-architecture embedding ultra-thin interlayer to bond diamond and silicon via direct fusion. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 211601	3.4	
49	Study on Thermal-Quench Behaviors of GdBCO Coils Wound With Silicon Grease as an Insulation Material. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-5	1.8	5
48	A Study on Charge/Discharge Characteristics of No-Insulation GdBCO Magnets Energized via a Flux Injector. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-6	1.8	7
47	Effect of micro-ceramic fillers in epoxy composites on thermal and electrical stabilities of GdBCO coils. <i>Composites Part B: Engineering</i> , <b>2016</b> , 94, 190-196	10	18
46	Cooling Performance and Thermal Characteristics of No-Insulation GdBCO Magnet Cooled by a Mixed Cryogen Cooling System. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	4
45	Magnetic Field Stability Analysis on No-Insulation and Turn-to-Turn Soldered HTS Magnets Under Sinusoidal Noise Operation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	0
44	Effects of Stabilizer Thickness of 2G HTS Wire on the Design of a 1.5-MW-Class HTS Synchronous Machine. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	7
43	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-5	1.8	7

42	Fabrication and testing of high performance acoustic emission sensor with Ta-Doped lead zirconate titanate. <i>Journal of Electroceramics</i> , <b>2015</b> , 35, 53-58	1.5	2
41	A superconducting joint for GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> coated conductors. <i>NPG Asia Materials</i> , <b>2014</b> , 6, e98-e98	10.3	88
40	Practical Design of a 10 MW Superconducting Wind Power Generator Considering Weight Issue. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 5201805-5201805	1.8	26
39	Effects of Melting Diffusion and Annealing in Oxygen on Superconducting Characteristics of GdBCO Coated Conductors: Preliminary Results. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 6600804-6600804	1.8	7
38	High- $T_c$ Superconducting High Gradient Magnetic Separator Using Solid Nitrogen Cooling System for Purification of CMP Wastewater. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 3700505-3700505	1.8	17
37	Mixed cryogen cooling systems for HTS power applications: A status report of progress in Korea University. <i>Cryogenics</i> , <b>2012</b> , 52, 648-655	1.8	6
36	A Study on Recovery Characteristics of Joined Tapes From the View of Thermal and Electrical Variation for Superconducting Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 4703505-4703505	1.8	3
35	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 5602504-5602504	1.8	0
34	A Research About Bending Strain Effect on Splice Characteristics in $YBa_2Cu_3O_{7-x}$ Coated Conductors Under Various Pressures in Splicing. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2011</b> , 21, 3001-3004	1.8	4
33	Experimental Analysis of a Splice Method Between YBCO Coated Conductors on Various Bending Diameters. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 1577-1580	1.8	8
32	Analytical Design Method of High- $T_c$ Coated Conductor for a Resistive Superconducting Fault Current Limiter Using Finite Element Method. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 1172-1176	1.8	5
31	Fabrication of a high performance acoustic emission (AE) sensor to monitor and diagnose disturbances in HTS tapes and magnet systems. <i>Metals and Materials International</i> , <b>2010</b> , 16, 109-113	2.4	2
30	Operation and performance analyses of 350 and 700 MHz low-/high-temperature superconductor nuclear magnetic resonance magnets: A march toward operating frequencies above 1 GHz. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 024501	2.5	38
29	Repetitive Over-Current Characteristics of the Joints Between the YBCO Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 2419-2422	1.8	10
28	Joint Characteristics of the YBCO Coated Conductor (CC) by Chemical Etching. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 2835-2838	1.8	18
27	Joint Characteristics of YBCO Coated Conductor by Removing a Metallic Stabilizer. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2008</b> , 18, 1220-1223	1.8	27
26	A Solid Nitrogen Cooled MgB <sub>2</sub> "Demonstration" Coil for MRI Applications. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2008</b> , 18, 912-915	1.8	58
25	Field Mapping, NMR Lineshape, and Screening Currents Induced Field Analyses for Homogeneity Improvement in LTS/HTS NMR Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2008</b> , 18, 856-859	1.8	64

24	Oxygen out-diffusion in partially melted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> 0.325Ag superconductor at reduced oxygen partial pressure. <i>Metals and Materials International</i> , <b>2008</b> , 14, 673-678	2.4	
23	Oxygen out-diffusion in partially melted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> 0.325Ag superconductor at reduced oxygen partial pressure <b>2008</b> , 14, 673		1
22	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 1446-1449	1.8	22
21	Stability and quench protection of coated YBCO "Composite" tape. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 1683-1686	1.8	55
20	A "persistent-mode" magnet comprised of YBCO annuli. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 2352-2355	1.8	35
19	Stability of bare and copper-laminated YBCO samples: experimental & simulation results. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2004</b> , 14, 1290-1293	1.8	30
18	Detection of 'hot spots' in HTS coils and test samples with acoustic emission signals. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2004</b> , 14, 1298-1301	1.8	12
17	Development of vapor-cooled HTS-copper 6-kA current lead incorporating operation in the current-sharing mode. <i>Cryogenics</i> , <b>2004</b> , 44, 7-14	1.8	6
16	A high-temperature superconducting double-pancake insert for an NMR magnet. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1546-1549	1.8	27
15	Synthesis of Melted Yttrium Barium Copper Oxide-0.325Ag Superconductors Contained in a Solid Silver Cladding at Reduced Oxygen Partial Pressures. <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, 6841-6847 <sup>1,4</sup> <sup>3</sup>	1.4	3
14	Quench and recovery of YBCO tape experimental and simulation results. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1772-1775	1.8	39
13	A solid-nitrogen cooled Nb/sub 3/Sn NMR magnet operating in the range 8-10 K. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1636-1639	1.8	6
12	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1640-1643	1.8	21
11	A low- and high-temperature superconducting NMR magnet: design and performance results. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1550-1553	1.8	24
10	Design analysis of a solid nitrogen cooled permanent high-temperature superconducting magnet system. <i>Cryogenics</i> , <b>2002</b> , 42, 617-634	1.8	28
9	A permanent high-temperature superconducting magnet operated in thermal communication with a mass of solid nitrogen. <i>Cryogenics</i> , <b>2002</b> , 42, 229-244	1.8	28
8	AMI-MIT 1-kA leads with high-temperature superconducting sections-design concept and key parameters. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2001</b> , 11, 2539-2542	1.8	3
7	High-temperature superconducting current lead incorporating operation in the current-sharing mode. <i>Cryogenics</i> , <b>2000</b> , 40, 209-219	1.8	13

6	Synthesis of yttrium barium copper oxide-0.325Ag superconductors via intermediate precursor with overall composition Y:Ba:Cu:O=l:2:3:Y, Y>7 produced by high-energy attrition milling. <i>Metals and Materials International</i> , <b>2000</b> , 6, 473-489		4
5	Electromaglev(Active-maglev)Magnetic levitation of a superconducting disk with a DC field generated by electromagnets. Part 4: theoretical and experimental results on supercurrent distributions in field-cooled YBCO disks. <i>Cryogenics</i> , <b>1999</b> , 39, 893-903	1.8	18
4	'Electromaglev' ('Active-Maglev') Magnetic levitation of a superconducting disk with a DC field generated by electromagnets: Part 2 Theoretical and experimental results on lift-to-weight ratio and lateral stiffness. <i>Cryogenics</i> , <b>1998</b> , 38, 419-427	1.8	9
3	'Electromaglev' ('active-maglev')Magnetic levitation of a superconducting disk with a DC field generated by electromagnets: Part 3. Theoretical results on levitation height and stability. <i>Cryogenics</i> , <b>1998</b> , 38, 743-756	1.8	22
2	ElectromaglevMagnetic levitation of a superconducting disc with a DC field generated by electromagnets: Part 1. Theoretical and experimental results on operating modes, lift-to-weight ratio, and suspension stiffness. <i>Cryogenics</i> , <b>1997</b> , 37, 807-816	1.8	36
1	Active Magnetic Levitation with YBCO Samples <b>1997</b> , 1379-1384		8