

# Seong-Hyeon Hong

## 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.

90  
papers

2,551  
citations

30  
h-index

46  
g-index

92  
ext. papers

2,941  
ext. citations

6.7  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
90	Visible Light Driven Ultrasensitive and Selective NO Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by l-Cysteine.. <i>Small</i> , <b>2022</b> , e2106613	11	2
89	NiP2/C nanocomposite as a high performance anode for sodium ion batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 403, 139686	6.7	1
88	Hydration behavior and radiopacity of strontium substituted Ca3SiO5 cement. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 330-336	2.2	1
87	Electrochemical Properties and Reaction Mechanism of NiTi2S4 Ternary Metal Sulfide as an Anode for Lithium Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 9680-9688	8.3	4
86	Microstructure Modification of Liquid Phase Sintered FeNiBC Alloys for Improved Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 4395-4401	2.3	0
85	Challenges and recent progress in LiNixCoyMn1-x-y-zO2 (NCM) cathodes for lithium ion batteries. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 1-27	2.2	10
84	Revisiting the role of Zr doping in Ni-rich layered cathodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17415-17424	13	9
83	Substantially improved room temperature NO2 sensing in 2-dimensional SnS2 nanoflowers enabled by visible light illumination. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11168-11178	13	24
82	New Insight into Microstructure Engineering of Ni-Rich Layered Oxide Cathode for High Performance Lithium Ion Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010095	15.6	31
81	A Novel Solid Solution Mn1-xVxP Anode with Tunable Alloying/Insertion Hybrid Electrochemical Reaction for High Performance Lithium Ion Batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 41, 310-320	19.4	2
80	Manganese Tetraphosphide (MnP4) as a High Capacity Anode for Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003609	21.8	15
79	A MnVO/graphene nanocomposite as an efficient electrocatalyst for the oxygen evolution reaction. <i>Nanoscale</i> , <b>2020</b> , 12, 16028-16033	7.7	8
78	Photoelectrochemical hydrogen production at neutral pH phosphate buffer solution using TiO2 passivated InAs Nanowire/p-Si heterostructure photocathode. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123688	14.7	13
77	A P2-type Na(NiCoMn)O cathode with excellent cyclability and rate capability for sodium ion batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 11575-11578	5.8	14
76	Revisiting Primary Particles in Layered Lithium Transition-Metal Oxides and Their Impact on Structural Degradation. <i>Advanced Science</i> , <b>2019</b> , 6, 1800843	13.6	39
75	Solid solution phosphide (MnFeP) as a tunable conversion/alloying hybrid anode for lithium-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 13494-13501	7.7	8
74	An in situ formed graphene oxide/polyacrylic acid composite cage on silicon microparticles for lithium ion batteries via an esterification reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12763-12772	13	20

73	The Role of Zr Doping in Stabilizing Li[Ni Co Mn ]O as a Cathode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , <b>2019</b> , 12, 2439-2446	8.3	30
72	Mesoporous Si-Cu nanocomposite anode for a lithium ion battery produced by magnesiothermic reduction and electroless deposition. <i>Nanotechnology</i> , <b>2019</b> , 30, 405401	3.4	10
71	Stable Silicon Anode for Lithium-Ion Batteries through Covalent Bond Formation with a Binder via Esterification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26753-26763	9.5	36
70	Superior electrochemical sodium storage of VP nanoparticles as an anode for rechargeable sodium-ion batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 3207-3210	5.8	11
69	Electrical Transport and Thermoelectric Properties of SnSe-SnTe Solid Solution. <i>Materials</i> , <b>2019</b> , 12,	3.5	9
68	CuBiO Prepared by the Polymerized Complex Method for Gas-Sensing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14901-14913	9.5	29
67	Highly stable SnO-FeO-C hollow spheres for reversible lithium storage with extremely long cycle life. <i>Nanoscale</i> , <b>2018</b> , 10, 4370-4376	7.7	38
66	A nanopore-embedded graphitic carbon shell on silicon anode for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8013-8020	13	64
65	Synthetic Mechanism Discovery of Monophase Cuprous Oxide for Record High Photoelectrochemical Conversion of CO to Methanol in Water. <i>ACS Nano</i> , <b>2018</b> , 12, 8187-8196	16.7	24
64	Novel Calcium Zirconate Silicate Cement Biomineralize and Seal Root Canals. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
63	V4P7@C nanocomposite as a high performance anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 400, 204-211	8.9	17
62	Sn4P3@ nanospheres as high capacitive and ultra-stable anodes for sodium ion and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17437-17443	13	60
61	Effects of sintering conditions on the microstructure and mechanical properties of SiC prepared using powders recovered from kerf loss sludge. <i>Bulletin of Materials Science</i> , <b>2018</b> , 41, 1	1.7	
60	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605929	24	23
59	An approach to flexible Na-ion batteries with exceptional rate capability and long lifespan using Na2FeP2O7 nanoparticles on porous carbon cloth. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5502-5510	13	49
58	Graphene Oxide: Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide (Adv. Mater. 15/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	1
57	TiO2@SnO2@TiO2 triple-shell nanotube anode for high-performance lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 2365-2371	2.6	14
56	p-Type aliovalent Li(I) or Fe(III)-doped CuO hollow spheres self-organized by cationic complex ink printing: Structural and gas sensing characteristics. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 243, 262-270	8.5	35

55	p-Type CuBi <sub>2</sub> O <sub>4</sub> thin films prepared by flux-mediated one-pot solution process with improved structural and photoelectrochemical characteristics. <i>Materials Letters</i> , <b>2017</b> , 188, 192-196	3.3	27
54	Superior sodium storage performance of reduced graphene oxide-supported NaFe(PO) <sub>3</sub> /C nanocomposites. <i>Chemical Communications</i> , <b>2017</b> , 53, 9316-9319	5.8	16
53	Enhanced Lithium Storage in Reduced Graphene Oxide-supported M-phase Vanadium(IV) Dioxide Nanoparticles. <i>Scientific Reports</i> , <b>2016</b> , 6, 30202	4.9	17
52	Effect of ultra-thin SnO <sub>2</sub> coating on Pt catalyst for energy applications. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2016</b> , 17, 691-694	1.7	13
51	Meso-porous silicon-coated carbon nanotube as an anode for lithium-ion battery. <i>Nano Research</i> , <b>2016</b> , 9, 2174-2181	10	54
50	Effect of the Amine Concentration on Phase Evolution and Densification in Printed Films Using Cu(II) Complex Ink. <i>Langmuir</i> , <b>2015</b> , 31, 8101-10	4	45
49	Giant Electroresistive Ferroelectric Diode on 2DEG. <i>Scientific Reports</i> , <b>2015</b> , 5, 10548	4.9	9
48	Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 4297-302	7.7	131
47	Lateral epitaxial growth of faceted SnO <sub>2</sub> nanowires with self-alignment. <i>CrystEngComm</i> , <b>2014</b> , 16, 9340-9344	3.3	7
46	SnO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> hollow nano-spheres for a Li-ion battery anode with extraordinary performance. <i>Nano Research</i> , <b>2014</b> , 7, 1128-1136	10	112
45	Direct printing synthesis of self-organized copper oxide hollow spheres on a substrate using copper(II) complex ink: gas sensing and photoelectrochemical properties. <i>Langmuir</i> , <b>2014</b> , 30, 700-9	4	37
44	Synthesis and hydration behavior of calcium zirconium aluminate (Ca <sub>7</sub> ZrAl <sub>6</sub> O <sub>18</sub> ) cement. <i>Cement and Concrete Research</i> , <b>2014</b> , 56, 106-111	10.3	11
43	Epitaxial recrystallization and luminescence of CaAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> thin films prepared on sapphire substrates. <i>Journal of Electroceramics</i> , <b>2013</b> , 30, 36-40	1.5	1
42	Texture Evolution of Abnormal Grains with Post-Deposition Annealing Temperature in Nanocrystalline Cu Thin Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 152-162	2.3	8
41	Mesoporous Nano-Si Anode for Li-ion Batteries Produced by Magnesio-Mechanochemical Reduction of Amorphous SiO <sub>2</sub> . <i>Energy Technology</i> , <b>2013</b> , 1, 327-331	3.5	15
40	Tunable conductivity at LaAlO <sub>3</sub> /Sr <sub>x</sub> Ca <sub>1-x</sub> TiO <sub>3</sub> (0 ≤ x ≤ 1) heterointerfaces. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 012903	3.4	13
39	Synthesis of SnO <sub>2</sub> nano hollow spheres and their size effects in lithium ion battery anode application. <i>Journal of Power Sources</i> , <b>2013</b> , 225, 108-112	8.9	100
38	H <sub>2</sub> and C <sub>2</sub> H <sub>5</sub> OH sensing characteristics of mesoporous p-type CuO films prepared via a novel precursor-based ink solution route. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 178, 395-403	8.5	50

37	Reversible storage of Li-ion in nano-Si/SnO <sub>2</sub> core-shell nanostructured electrode. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3733	13	33
36	Hetero-epitaxial growth of vertically-aligned TiO <sub>2</sub> nanorods on an m-cut sapphire substrate with an (001) SnO <sub>2</sub> buffer layer. <i>CrystEngComm</i> , <b>2012</b> , 14, 4963	3.3	3
35	Synthesis of well-aligned SnO <sub>2</sub> nanowires with branches on r-cut sapphire substrate. <i>CrystEngComm</i> , <b>2012</b> , 14, 1545	3.3	5
34	Tribological Properties of Si <sub>3</sub> N <sub>4</sub> /SiC Nano-Nano Composite Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3683-3685	3.8	20
33	Photoluminescence Characteristics of Sr <sub>3</sub> SiO <sub>5</sub> : Eu <sup>2+</sup> Yellow Phosphors Synthesized by Solid-State Method and Pechini Process. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, J330	3.9	28
32	Fabrication of Ga <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> core-shell nanowires and their ethanol gas sensing properties. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2322-2327	2.5	29
31	Blue-emitting AlN:Eu <sup>2+</sup> Powder Phosphor Prepared by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 356-358	3.8	20
30	Fabrication of Silicon Nitride Nanoceramics and their Tribological Properties. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 1461	3.8	28
29	Gas sensing properties of MoO <sub>3</sub> nanoparticles synthesized by solvothermal method. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 1889-1896	2.3	96
28	CO gas sensing properties in Pd-added ZnO sensors. <i>Journal of Electroceramics</i> , <b>2009</b> , 23, 196-199	1.5	20
27	Characterization of Ca <sub>2</sub> SiO <sub>4</sub> :Eu <sup>2+</sup> Phosphors Synthesized by Polymeric Precursor Process. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 2025-2028	3.8	31
26	Nanoscale ZnO and Al-Doped ZnO Coatings on ZnS:Ag Phosphors and their Cathodoluminescent Properties. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 451-455	3.8	11
25	Dielectric and magnetic properties in Ta-substituted BiFeO <sub>3</sub> ceramics. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 3397-3403	2.5	30
24	Electric and Dielectric Properties of Nb-Doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2118-2121	3.8	61
23	Synthesis and Photoluminescence Properties of Eu <sup>3+</sup> -Doped Calcium Phosphates. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2795-2798	3.8	30
22	Effect of Al Doping on the Electric and Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 070922001308001-???	3.8	7
21	Effect of Co-Precipitation on the Low-Temperature Sintering of Biphase Calcium Phosphate. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 060427083300032-???	3.8	
20	Preparation of SnO <sub>2</sub> whiskers via the decomposition of tin oxalate. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 895-898	1.5	10

19	Mullite Transformation Kinetics in P2O5-, TiO2-, and B2O3-Doped Aluminosilicate Gels. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 1551-1559	3.8	53
18	Anisotropic Grain Growth in Diphasic-Gel-Derived Titania-Doped Mullite. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 1269-1277	3.8	85
17	Uniform Coating of Nanometer-Scale BaTiO3 Layer on Spherical Ni Particles via Hydrothermal Conversion of Ti-Hydroxide. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 303-307	3.8	26
16	Spark Plasma Sintering of LiTi2(PO4)3-Based Solid Electrolytes. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 1803-1807	3.8	69
15	Apatite Induction on Ca-Containing Titania Formed by Micro-Arc Oxidation. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 2642-2644	3.8	40
14	Coating of TiO2 nanolayer on spherical Ni particles using a novel sol-gel route. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 1669-1675	2.5	18
13	Coarsening Behavior of Tricalcium Silicate (C3S) and Dicalcium Silicate (C2S) Grains Dispersed in a Clinker Melt. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 1247-1252	3.8	36
12	Anisotropic Abnormal Grain Growth in TiO2/SiO2-Doped Alumina. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 2809-2812	3.8	68
11	Effect of Surface Impurities on the Microstructure Development during Sintering of Alumina. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 1386-1388	3.8	16
10	Effect of Liquid Content on the Abnormal Grain Growth of Alumina. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 1597-1600	3.8	59
9	Calcium Phosphate Bioceramics with Various Porosities and Dissolution Rates. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 3129-3131	3.8	71
8	Spark Plasma Sintering (SPS) of NASICON Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 305-307	3.8	69
7	Influence of Minor Ions on the Stability and Hydration Rates of Dicalcium Silicate. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 900-905	3.8	78
6	Alternative Explanation for the Role of Magnesia in the Sintering of Alumina Containing Small Amounts of a Liquid Phase. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 634-39	3.8	21
5	Effect of the Liquid-Forming Additive Content on the Kinetics of Abnormal Grain Growth in Alumina. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 1421-1423	3.8	48
4	Characteristics of Liquid Penetration into Undoped and Magnesia-Doped Alumina. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 2206-2208	3.8	
3	Synthesis and Hydration Characteristics of Alinite Cement. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 1941-1946	3.8	4
2	Interfacial precipitation in titania-doped diphasic mullite gels. <i>Journal of Materials Research</i> , <b>1998</b> , 13, 974-978	2.5	4

1 Stepwise Dopant Selection Process for High-Nickel Layered Oxide Cathodes. *Advanced Energy Materials*,2200136 21.8 4