

Seong-Hyeon Hong

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1605019/seong-hyeon-hong-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. <i>Nanoscale</i> , 2014 , 6, 4297-302	7.7	131
89	SnO ₂ @Co ₃ O ₄ hollow nano-spheres for a Li-ion battery anode with extraordinary performance. <i>Nano Research</i> , 2014 , 7, 1128-1136	10	112
88	Synthesis of SnO ₂ nano hollow spheres and their size effects in lithium ion battery anode application. <i>Journal of Power Sources</i> , 2013 , 225, 108-112	8.9	100
87	Gas sensing properties of MoO ₃ nanoparticles synthesized by solvothermal method. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1889-1896	2.3	96
86	Anisotropic Grain Growth in Diphasic-Gel-Derived Titania-Doped Mullite. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1269-1277	3.8	85
85	Influence of Minor Ions on the Stability and Hydration Rates of β -Dicalcium Silicate. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 900-905	3.8	78
84	Calcium Phosphate Bioceramics with Various Porosities and Dissolution Rates. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 3129-3131	3.8	71
83	Spark Plasma Sintering (SPS) of NASICON Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 305-307	3.8	69
82	Spark Plasma Sintering of LiTi ₂ (PO ₄) ₃ -Based Solid Electrolytes. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1803-1807	3.8	69
81	Anisotropic Abnormal Grain Growth in TiO ₂ /SiO ₂ -Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2809-2812	3.8	68
80	A nanopore-embedded graphitic carbon shell on silicon anode for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8013-8020	13	64
79	Electric and Dielectric Properties of Nb-Doped CaCu ₃ Ti ₄ O ₁₂ Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2118-2121	3.8	61
78	Sn ₄ P ₃ O ₁₃ nanospheres as high capacitive and ultra-stable anodes for sodium ion and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17437-17443	13	60
77	Effect of Liquid Content on the Abnormal Grain Growth of Alumina. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1597-1600	3.8	59
76	Meso-porous silicon-coated carbon nanotube as an anode for lithium-ion battery. <i>Nano Research</i> , 2016 , 9, 2174-2181	10	54
75	Mullite Transformation Kinetics in P ₂ O ₅ -, TiO ₂ -, and B ₂ O ₃ -Doped Aluminosilicate Gels. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1551-1559	3.8	53
74	H ₂ and C ₂ H ₅ 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> , 2013 , 178, 395-403	8.5	50

73	An approach to flexible Na-ion batteries with exceptional rate capability and long lifespan using Na ₂ FeP ₂ O ₇ nanoparticles on porous carbon cloth. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5502-5510	13	49
72	Effect of the Liquid-Forming Additive Content on the Kinetics of Abnormal Grain Growth in Alumina. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1421-1423	3.8	48
71	Effect of the Amine Concentration on Phase Evolution and Densification in Printed Films Using Cu(II) Complex Ink. <i>Langmuir</i> , 2015 , 31, 8101-10	4	45
70	Apatite Induction on Ca-Containing Titania Formed by Micro-Arc Oxidation. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2642-2644	3.8	40
69	Revisiting Primary Particles in Layered Lithium Transition-Metal Oxides and Their Impact on Structural Degradation. <i>Advanced Science</i> , 2019 , 6, 1800843	13.6	39
68	Highly stable SnO-FeO-C hollow spheres for reversible lithium storage with extremely long cycle life. <i>Nanoscale</i> , 2018 , 10, 4370-4376	7.7	38
67	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> , 2014 , 30, 700-9	4	37
66	Stable Silicon Anode for Lithium-Ion Batteries through Covalent Bond Formation with a Binder via Esterification. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26753-26763	9.5	36
65	Coarsening Behavior of Tricalcium Silicate (C3S) and Dicalcium Silicate (C2S) Grains Dispersed in a Clinker Melt. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1247-1252	3.8	36
64	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> , 2017 , 243, 262-270	8.5	35
63	Reversible storage of Li-ion in nano-Si/SnO ₂ core-shell nanostructured electrode. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3733	13	33
62	Characterization of Ca ₂ SiO ₄ :Eu ²⁺ Phosphors Synthesized by Polymeric Precursor Process. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2025-2028	3.8	31
61	New Insight into Microstructure Engineering of Ni-Rich Layered Oxide Cathode for High Performance Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2010095	15.6	31
60	The Role of Zr Doping in Stabilizing Li[Ni Co Mn]O as a Cathode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 2439-2446	8.3	30
59	Dielectric and magnetic properties in Ta-substituted BiFeO ₃ ceramics. <i>Journal of Materials Research</i> , 2007 , 22, 3397-3403	2.5	30
58	Synthesis and Photoluminescence Properties of Eu ³⁺ -Doped Calcium Phosphates. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2795-2798	3.8	30
57	CuBiO Prepared by the Polymerized Complex Method for Gas-Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14901-14913	9.5	29
56	Fabrication of Ga ₂ O ₃ /SnO ₂ core-shell nanowires and their ethanol gas sensing properties. <i>Journal of Materials Research</i> , 2011 , 26, 2322-2327	2.5	29

55	Fabrication of Silicon Nitride Nanoceramics and their Tribological Properties. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1461	3.8	28
54	Photoluminescence Characteristics of Sr ₃ SiO ₅ : Eu ²⁺ Yellow Phosphors Synthesized by Solid-State Method and Pechini Process. <i>Journal of the Electrochemical Society</i> , 2011 , 158, J330	3.9	28
53	p-Type CuBi ₂ O ₄ thin films prepared by flux-mediated one-pot solution process with improved structural and photoelectrochemical characteristics. <i>Materials Letters</i> , 2017 , 188, 192-196	3.3	27
52	Uniform Coating of Nanometer-Scale BaTiO ₃ Layer on Spherical Ni Particles via Hydrothermal Conversion of Ti-Hydroxide. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 303-307	3.8	26
51	Synthetic Mechanism Discovery of Monophase Cuprous Oxide for Record High Photoelectrochemical Conversion of CO to Methanol in Water. <i>ACS Nano</i> , 2018 , 12, 8187-8196	16.7	24
50	Substantially improved room temperature NO ₂ sensing in 2-dimensional SnS ₂ nanoflowers enabled by visible light illumination. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11168-11178	13	24
49	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , 2017 , 29, 1605929	24	23
48	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> , 2003 , 86, 634-39	3.8	21
47	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> , 2019 , 7, 12763-12772	13	20
46	Tribological Properties of Si ₃ N ₄ /SiC Nano/Nano Composite Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3683-3685	3.8	20
45	Blue-emitting AlN:Eu ²⁺ Powder Phosphor Prepared by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 356-358	3.8	20
44	CO gas sensing properties in Pd-added ZnO sensors. <i>Journal of Electroceramics</i> , 2009 , 23, 196-199	1.5	20
43	Coating of TiO ₂ nanolayer on spherical Ni particles using a novel sol-gel route. <i>Journal of Materials Research</i> , 2004 , 19, 1669-1675	2.5	18
42	Enhanced Lithium Storage in Reduced Graphene Oxide-supported M-phase Vanadium(IV) Dioxide Nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 30202	4.9	17
41	V4P7@C nanocomposite as a high performance anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 400, 204-211	8.9	17
40	Superior sodium storage performance of reduced graphene oxide-supported NaFe(PO) ₃ /C nanocomposites. <i>Chemical Communications</i> , 2017 , 53, 9316-9319	5.8	16
39	Effect of Surface Impurities on the Microstructure Development during Sintering of Alumina. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1386-1388	3.8	16
38	Mesoporous Nano-Si Anode for Li-ion Batteries Produced by Magnesium-Mechanochemical Reduction of Amorphous SiO ₂ . <i>Energy Technology</i> , 2013 , 1, 327-331	3.5	15

37	Manganese Tetrphosphide (MnP ₄) as a High Capacity Anode for Lithium-Ion and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003609	21.8	15
36	TiO ₂ @SnO ₂ @TiO ₂ triple-shell nanotube anode for high-performance lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2365-2371	2.6	14
35	A P2-type Na(NiCoMn)O cathode with excellent cyclability and rate capability for sodium ion batteries. <i>Chemical Communications</i> , 2019 , 55, 11575-11578	5.8	14
34	Effect of ultra-thin SnO ₂ coating on Pt catalyst for energy applications. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 691-694	1.7	13
33	Tunable conductivity at LaAlO ₃ /SrxCaxTiO ₃ (0 ≤ x ≤ 1) heterointerfaces. <i>Applied Physics Letters</i> , 2013 , 102, 012903	3.4	13
32	Photoelectrochemical hydrogen production at neutral pH phosphate buffer solution using TiO ₂ passivated InAs Nanowire/p-Si heterostructure photocathode. <i>Chemical Engineering Journal</i> , 2020 , 392, 123688	14.7	13
31	Synthesis and hydration behavior of calcium zirconium aluminate (Ca ₇ ZrAl ₆ O ₁₈) cement. <i>Cement and Concrete Research</i> , 2014 , 56, 106-111	10.3	11
30	Nanoscale ZnO and Al-Doped ZnO Coatings on ZnS:Ag Phosphors and their Cathodoluminescent Properties. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 451-455	3.8	11
29	Superior electrochemical sodium storage of VP nanoparticles as an anode for rechargeable sodium-ion batteries. <i>Chemical Communications</i> , 2019 , 55, 3207-3210	5.8	11
28	Mesoporous Si-Cu nanocomposite anode for a lithium ion battery produced by magnesiothermic reduction and electroless deposition. <i>Nanotechnology</i> , 2019 , 30, 405401	3.4	10
27	Preparation of SnO ₂ whiskers via the decomposition of tin oxalate. <i>Journal of Electroceramics</i> , 2006 , 17, 895-898	1.5	10
26	Challenges and recent progress in Li _{1-x} Co _y Mn _{1-x-y} O ₂ (NCM) cathodes for lithium ion batteries. <i>Journal of the Korean Ceramic Society</i> , 2021 , 58, 1-27	2.2	10
25	Giant Electroresistive Ferroelectric Diode on 2DEG. <i>Scientific Reports</i> , 2015 , 5, 10548	4.9	9
24	Electrical Transport and Thermoelectric Properties of SnSe-SnTe Solid Solution. <i>Materials</i> , 2019 , 12,	3.5	9
23	Revisiting the role of Zr doping in Ni-rich layered cathodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17415-17424	13	9
22	Solid solution phosphide (MnFeP) as a tunable conversion/alloying hybrid anode for lithium-ion batteries. <i>Nanoscale</i> , 2019 , 11, 13494-13501	7.7	8
21	A MnVO/graphene nanocomposite as an efficient electrocatalyst for the oxygen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 16028-16033	7.7	8
20	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> , 2013 , 44, 152-162	2.3	8

19	Lateral epitaxial growth of faceted SnO ₂ nanowires with self-alignment. <i>CrystEngComm</i> , 2014 , 16, 9340-9344	3.3	7
18	Effect of Al Doping on the Electric and Dielectric Properties of CaCu ₃ Ti ₄ O ₁₂ . <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070922001308001-???	3.8	7
17	Synthesis of well-aligned SnO ₂ nanowires with branches on r-cut sapphire substrate. <i>CrystEngComm</i> , 2012 , 14, 1545	3.3	5
16	Synthesis and Hydration Characteristics of Alinite Cement. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 1941-1946	3.8	4
15	Interfacial precipitation in titania-doped diphasic mullite gels. <i>Journal of Materials Research</i> , 1998 , 13, 974-978	2.5	4
14	Electrochemical Properties and Reaction Mechanism of NiTi ₂ S ₄ Ternary Metal Sulfide as an Anode for Lithium Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9680-9688	8.3	4
13	Stepwise Dopant Selection Process for High-Nickel Layered Oxide Cathodes. <i>Advanced Energy Materials</i> , 2200136	21.8	4
12	Novel Calcium Zirconate Silicate Cement Biomineralize and Seal Root Canals. <i>Materials</i> , 2018 , 11,	3.5	3
11	Hetero-epitaxial growth of vertically-aligned TiO ₂ nanorods on an m-cut sapphire substrate with an (001) SnO ₂ buffer layer. <i>CrystEngComm</i> , 2012 , 14, 4963	3.3	3
10	Visible Light Driven Ultrasensitive and Selective NO Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by l-Cysteine.. <i>Small</i> , 2022 , e2106613	11	2
9	A Novel Solid Solution Mn _{1-x} V _x P Anode with Tunable Alloying/Insertion Hybrid Electrochemical Reaction for High Performance Lithium Ion Batteries. <i>Energy Storage Materials</i> , 2021 , 41, 310-320	19.4	2
8	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> , 2017 , 29,	24	1
7	Epitaxial recrystallization and luminescence of CaAl ₂ O ₄ :Eu ²⁺ thin films prepared on sapphire substrates. <i>Journal of Electroceramics</i> , 2013 , 30, 36-40	1.5	1
6	NiP ₂ /C nanocomposite as a high performance anode for sodium ion batteries. <i>Electrochimica Acta</i> , 2021 , 403, 139686	6.7	1
5	Hydration behavior and radiopacity of strontium substituted Ca ₃ SiO ₅ cement. <i>Journal of the Korean Ceramic Society</i> , 2021 , 58, 330-336	2.2	1
4	Microstructure Modification of Liquid Phase Sintered Fe-Ni-B Alloys for Improved Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 4395-4401	2.3	0
3	Effect of Co-Precipitation on the Low-Temperature Sintering of Biphasic Calcium Phosphate. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060427083300032-???	3.8	
2	Characteristics of Liquid Penetration into Undoped and Magnesia-Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2206-2208	3.8	

- 1 Effects of sintering conditions on the microstructure and mechanical properties of SiC prepared using powders recovered from kerf loss sludge. *Bulletin of Materials Science*, **2018**, 41, 1 1.7