

Seong-Hyeon Hong

List of Publications by Year in descending order

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92
papers

3,486
citations

109137

35
h-index

149479

56
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92
all docs

92
docs citations

92
times ranked

4809
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable synthesis of silicon nanosheets from sand as an anode for Li-ion batteries. <i>Nanoscale</i> , 2014, 6, 4297.	2.8	149
2	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.	5.8	123
3	Gas sensing properties of MoO ₃ nanoparticles synthesized by solvothermal method. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1889-1896.	0.8	114
4	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.	7.8	113
5	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.	4.0	110
6	Anisotropic Grain Growth in Diphasic Gel-Derived Titania-Doped Mullite. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1269-1277.	1.9	97
7	Calcium Phosphate Bioceramics with Various Porosities and Dissolution Rates. <i>Journal of the American Ceramic Society</i> , 2002, 85, 3129-3131.	1.9	96
8	Influence of Minor Ions on the Stability and Hydration Rates of ¹²⁵ I-Dicalcium Silicate. <i>Journal of the American Ceramic Society</i> , 2004, 87, 900-905.	1.9	92
9	Spark Plasma Sintering (SPS) of NASICON Ceramics. <i>Journal of the American Ceramic Society</i> , 2004, 87, 305-307.	1.9	88
10	Spark Plasma Sintering of LiTi ₂ (PO ₄) ₃ -Based Solid Electrolytes. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1803-1807.	1.9	86
11	Sn ₄ P ₃ -C 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.	5.2	82
12	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.	5.2	81
13	Anisotropic Abnormal Grain Growth in TiO ₂ /SiO ₂ -Doped Alumina. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2809-2812.	1.9	77
14	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.	4.0	75
15	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.	5.2	75
16	Revisiting Primary Particles in Layered Lithium Transition-Metal Oxides and Their Impact on Structural Degradation. <i>Advanced Science</i> , 2019, 6, 1800843.	5.6	68
17	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.	1.9	67
18	Meso-porous silicon-coated carbon nanotube as an anode for lithium-ion battery. <i>Nano Research</i> , 2016, 9, 2174-2181.	5.8	67

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19	Effect of Liquid Content on the Abnormal Grain Growth of Alumina. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1597-1600.	1.9	65
20	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.	5.2	64
21	The Role of Zr Doping in Stabilizing Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ as a Cathode Material for Lithium-ion Batteries. <i>ChemSusChem</i> , 2019, 12, 2439-2446.	3.6	61
22	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> , 1997, 80, 1551-1559.	1.9	59
23	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.	4.0	58
24	CuBi ₂ O ₄ Prepared by the Polymerized Complex Method for Gas-Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14901-14913.	4.0	57
25	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.	5.2	56
26	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.	1.9	54
27	Effect of the Amine Concentration on Phase Evolution and Densification in Printed Films Using Cu(II) Complex Ink. <i>Langmuir</i> , 2015, 31, 8101-8110.	1.6	54
28	Challenges and recent progress in Li _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.	1.1	49
29	Highly stable SnO ₂ -Fe ₂ O ₃ hollow spheres for reversible lithium storage with extremely long cycle life. <i>Nanoscale</i> , 2018, 10, 4370-4376.	2.8	46
30	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.	4.0	44
31	Synthetic Mechanism Discovery of Monophase Cuprous Oxide for Record High Photoelectrochemical Conversion of CO ₂ to Methanol in Water. <i>ACS Nano</i> , 2018, 12, 8187-8196.	7.3	44
32	Apatite Induction on Ca-Containing Titania Formed by Micro-Arc Oxidation. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2642-2644.	1.9	42
33	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, 700-709.	1.6	41
34	Coarsening Behavior of Tricalcium Silicate (C ₃ S) and Dicalcium Silicate (C ₂ S) Grains Dispersed in a Clinker Melt. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1247-1252.	1.9	40
35	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, 4009-4011.	1.9	38
36	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.	1.2	36

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37	Stepwise Dopant Selection Process for High-Nickel Layered Oxide Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	35
38	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.	1.3	34
39	Manganese Tetraphosphide (MnP ₄) as a High Capacity Anode for Lithium-ion and Sodium-ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003609.	10.2	34
40	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.	1.9	33
41	Fabrication of Silicon Nitride Nanoceramics and their Tribological Properties. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1461-1466.	1.9	33
42	Reversible storage of Li-ion in nano-Si/SnO ₂ core-shell nanostructured electrode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3733.	5.2	33
43	Synthesis and Photoluminescence Properties of Eu ³⁺ -Doped Calcium Phosphates. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2795-2798.	1.9	32
44	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.	1.3	32
45	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decorated-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , 2017, 29, 1605929.	11.1	32
46	Dielectric and magnetic properties in Ta-substituted BiFeO ₃ ceramics. <i>Journal of Materials Research</i> , 2007, 22, 3397-3403.	1.2	31
47	<i>in situ</i> 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.	5.2	31
48	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.	1.9	29
49	CO gas sensing properties in Pd-added ZnO sensors. <i>Journal of Electroceramics</i> , 2009, 23, 196-199.	0.8	29
50	Superior sodium storage performance of reduced graphene oxide-supported Na _{3.12} Fe _{2.44} (P ₂ O ₇) ₂ /C nanocomposites. <i>Chemical Communications</i> , 2017, 53, 9316-9319.	2.2	25
51	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.	6.6	23
52	Enhanced Lithium Storage in Reduced Graphene Oxide-supported M-phase Vanadium(IV) Dioxide Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 30202.	1.6	22
53	V4P7@C nanocomposite as a high performance anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 400, 204-211.	4.0	22
54	A P2-type Na _{0.7} (Ni _{0.6} Co _{0.2} Mn _{0.2})O ₂ cathode with excellent cyclability and rate capability for sodium ion batteries. <i>Chemical Communications</i> , 2019, 55, 11575-11578.	2.2	22

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55	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.	1.9	21
56	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.	1.2	20
57	Blue-emitting AlN:Eu ²⁺ Powder Phosphor Prepared by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2010, 93, 356-358.	1.9	20
58	Tribological Properties of Si ₃ N ₄ /SiC Nano "Nano Composite Ceramics. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3683-3685.	1.9	20
59	Effect of Surface Impurities on the Microstructure Development during Sintering of Alumina. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1386-1388.	1.9	19
60	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.	1.2	17
61	Electrical Transport and Thermoelectric Properties of SnSe "SnTe Solid Solution. <i>Materials</i> , 2019, 12, 3854.	1.3	17
62	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.	1.8	16
63	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.	1.1	16
64	A MnV ₂ O ₆ /graphene nanocomposite as an efficient electrocatalyst for the oxygen evolution reaction. <i>Nanoscale</i> , 2020, 12, 16028-16033.	2.8	16
65	Tunable conductivity at LaAlO ₃ /SrxCa1-xTiO ₃ (0 ≤ x ≤ 1) heterointerfaces. <i>Applied Physics Letters</i> , 2013, 102, 012903.	1.5	14
66	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.	4.6	14
67	Solid solution phosphide (Mn ^x Fe _x P) as a tunable conversion/alloying hybrid anode for lithium-ion batteries. <i>Nanoscale</i> , 2019, 11, 13494-13501.	2.8	14
68	Visible Light Driven Ultrasensitive and Selective NO ₂ Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by Cysteine. <i>Small</i> , 2022, 18, e2106613.	5.2	14
69	Superior electrochemical sodium storage of V ₄ P ₇ nanoparticles as an anode for rechargeable sodium-ion batteries. <i>Chemical Communications</i> , 2019, 55, 3207-3210.	2.2	13
70	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.	3.2	13
71	Mesoporous Si "Cu nanocomposite anode for a lithium ion battery produced by magnesiothermic reduction and electroless deposition. <i>Nanotechnology</i> , 2019, 30, 405401.	1.3	12
72	Preparation of SnO ₂ whiskers via the decomposition of tin oxalate. <i>Journal of Electroceramics</i> , 2006, 17, 895-898.	0.8	11

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73	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.	1.9	11
74	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.	1.1	11
75	Giant Electroresistive Ferroelectric Diode on 2DEG. <i>Scientific Reports</i> , 2015, 5, 10548.	1.6	10
76	Lateral epitaxial growth of faceted SnO ₂ nanowires with self-alignment. <i>CrystEngComm</i> , 2014, 16, 9340-9344.	1.3	8
77	Synthesis and Hydration Characteristics of Alinite Cement. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1941-1946.	1.9	7
78	Novel Calcium Zirconate Silicate Cement Biomineralize and Seal Root Canals. <i>Materials</i> , 2018, 11, 588.	1.3	7
79	NiP ₂ /C nanocomposite as a high performance anode for sodium ion batteries. <i>Electrochimica Acta</i> , 2022, 403, 139686.	2.6	7
80	Synthesis of well-aligned SnO ₂ nanowires with branches on r-cut sapphire substrate. <i>CrystEngComm</i> , 2012, 14, 1545.	1.3	6
81	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.	9.5	6
82	Interfacial precipitation in titania-doped diphasic mullite gels. <i>Journal of Materials Research</i> , 1998, 13, 974-978.	1.2	5
83	Hydration behavior and radiopacity of strontium substituted Ca ₃ SiO ₅ cement. <i>Journal of the Korean Ceramic Society</i> , 2021, 58, 330-336.	1.1	4
84	Effect of Co-Precipitation on the Low-Temperature Sintering of Biphasic Calcium Phosphate. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060427083300032-???	1.9	3
85	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.	1.3	3
86	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.	0.8	3
87	Microstructure Modification of Liquid Phase Sintered Fe-Ni-C Alloys for Improved Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 4395-4401.	1.1	3
88	Kinetic stabilization of a topotactically transformed texture morphology <i>via</i> doping in Ni-rich lithium layered oxides. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13735-13743.	5.2	3
89	Graphene Oxide: Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-decoration-induced Reduction of Graphene Oxide (<i>Adv. Mater.</i> 15/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	1
90	Mapping the electrocatalytic water splitting activity of VO ₂ across its insulator-to-metal phase transition. <i>Nanoscale</i> , 2022, 14, 8281-8290.	2.8	1

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91	Characteristics of Liquid Penetration into Undoped and Magnesia-Doped Alumina. Journal of the American Ceramic Society, 2003, 86, 2206-2208.	1.9	0
92	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.	0.8	0