

Hyunjeong Kim

List of Publications by Year in descending order

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56
papers

1,653
citations

304743

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289244

40
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docs citations

58
times ranked

2674
citing authors

#	ARTICLE	IF	CITATIONS
1	High-energy ϵ -composite TM layered manganese-rich cathode materials via controlling Li ₂ MnO ₃ phase activation for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6584.	2.8	260
2	Mercury Binding Sites in Thiol-Functionalized Mesostructured Silica. <i>Journal of the American Chemical Society</i> , 2005, 127, 8492-8498.	13.7	130
3	Square Nets of Tellurium: A Rare-Earth Dependent Variation in the Charge-Density Wave of RETe ₃ (RE = Tj, ET, Qq, 1, 0, 784314, rgBT / ON	13.7	99
4	Determination of Structure and Phase Transition of Light Element Nanocomposites in Mesoporous Silica: Case study of NH ₃ BH ₃ in MCM-41. <i>Journal of the American Chemical Society</i> , 2009, 131, 13749-13755.	13.7	93
5	Nature of the Monoclinic to Cubic Phase Transition in the Fast Oxygen Ion Conductor La ₂ Mo ₂ O ₉ (LAMOX). <i>Journal of the American Chemical Society</i> , 2007, 129, 6903-6907.	13.7	84
6	Study of Local Structure in Selected Organic-Inorganic Perovskites in the $Pm\bar{3}l$ Phase. <i>Chemistry of Materials</i> , 2008, 20, 1272-1277.	6.7	70
7	Nyquist-Shannon sampling theorem applied to refinements of the atomic pair distribution function. <i>Physical Review B</i> , 2011, 84, .	3.2	62
8	Local Atomic Structure and Discommensurations in the Charge Density Wave of CeTe ₃ . <i>Physical Review Letters</i> , 2006, 96, 226401.	7.8	61
9	Advances in total scattering analysis. <i>Journal of Materials Chemistry</i> , 2009, 19, 5078.	6.7	57
10	Origin of Degradation in the Reversible Hydrogen Storage Capacity of V _{1-x} Ti _x Alloys from the Atomic Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26543-26550.	3.1	50
11	High temporal stability of supercurrents in MgB ₂ materials. <i>Superconductor Science and Technology</i> , 2001, 14, L17-L20.	3.5	48
12	Novel Synthesis and Structural Analysis of Ferrihydrite. <i>Inorganic Chemistry</i> , 2012, 51, 6421-6424.	4.0	46
13	Melting of Pb Charge Glass and Simultaneous Pb-Cr Charge Transfer in PbCrO ₃ as the Origin of Volume Collapse. <i>Journal of the American Chemical Society</i> , 2015, 137, 12719-12728.	13.7	45
14	Local and average structures of the spin-glass pyrochlore $Y_2Fe_2O_7$ by neutron diffraction and neutron pair distribution function analysis. <i>Physical Review B</i> , 2009, 79, .	3.2	44
15	Growth of Crystalline Polyaminoborane through Catalytic Dehydrogenation of Ammonia Borane on FeB Nanoalloy. <i>Chemistry - A European Journal</i> , 2010, 16, 12814-12817.	3.3	40
16	Critical current density of YBa ₂ Cu ₃ O _{7-δ} low-angle grain boundaries in self-field. <i>Applied Physics Letters</i> , 2001, 78, 2031-2033.	3.3	34
17	Glassy Distribution of Bi ³⁺ /Bi ⁵⁺ in Bi _{1-x} Pb _x NiO ₃ and Negative Thermal Expansion Induced by Intermetallic Charge Transfer. <i>Chemistry of Materials</i> , 2016, 28, 6062-6067.	6.7	31
18	Nanoscale structural domains in the phonon-glass thermoelectric material Zn_4Sb_3 . <i>Physical Review B</i> , 2007, 75, .	3.2	30

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19	Magnesium- and intermetallic alloys-based hydrides for energy storage: modelling, synthesis and properties. <i>Progress in Energy</i> , 2022, 4, 032007.	10.9	29
20	Crystal Structure and Local Structure of $Mg_{2-x}Pr_xNi_4$ ($x=0.6$ and 1.0) Deuteride Using in Situ Neutron Total Scattering. <i>Inorganic Chemistry</i> , 2013, 52, 7010-7019.	4.0	28
21	Insight into the Hydrogenation Properties of Mechanically Alloyed $Mg_{50}Co_{50}$ from the Local Structure. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20335-20341.	3.1	23
22	Degradation Mechanism against Hydrogenation Cycles in $Mg_{2-x}Pr_xNi_4$ ($x=0.6$ and 1.0). <i>Journal of Physical Chemistry C</i> , 2014, 118, 6697-6705.	3.1	23
23	Destabilizing the Dehydrogenation Thermodynamics of Magnesium Hydride by Utilizing the Immiscibility of Mn with Mg. <i>Inorganic Chemistry</i> , 2019, 58, 14600-14607.	4.0	19
24	Local and average structures of the proton conducting Y-doped $BaCeO_3$ from neutron diffraction and neutron pair distribution function analysis. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	18
25	Controlling embedment and surface chemistry of nanoclusters in metal-organic frameworks. <i>Chemical Communications</i> , 2016, 52, 5175-5178.	4.1	18
26	Local Structural Evolution of Mechanically Alloyed $Mg_{50}Co_{50}$ Using Atomic Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7723-7728.	3.1	17
27	$BaHg_2Ti_2$. An Unusual Polar Intermetallic Phase with Strong Differentiation between the Neighboring Elements Mercury and Thallium. <i>Journal of the American Chemical Society</i> , 2009, 131, 8677-8682.	13.7	16
28	Synthesis and structural study of Ti-rich $Mg-Ti$ hydrides. <i>Journal of Alloys and Compounds</i> , 2014, 593, 132-136.	5.5	15
29	Self-organized current transport through low-angle grain boundaries in $YBa_2Cu_3O_{7-\delta}$ thin films studied magnetometrically. <i>Physical Review B</i> , 2004, 69, .	3.2	14
30	Reduction and unusual recovery in the reversible hydrogen storage capacity of V_1-xTi_x during hydrogen cycling. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10546-10551.	7.1	13
31	Study of the negative thermal expansion of cuprite-type structures by means of temperature-dependent pair distribution function analysis: Preliminary results. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2182-2186.	4.0	11
32	Structural Variation of Self-Organized Mg Hydride Nanoclusters in Immiscible Ti Matrix by Hydrogenation. <i>Inorganic Chemistry</i> , 2018, 57, 11831-11838.	4.0	11
33	Influence of randomly oriented columnar defects on the irreversible and reversible magnetization of $Tl_2Ba_2CaCu_2O_x$ superconductor. <i>Superconductor Science and Technology</i> , 2001, 14, 666-671.	3.5	10
34	Variation in the ratio of Mg_2Co and $MgCo_2$ in amorphous-like mechanically alloyed Mg_xCo_{100-x} using atomic pair distribution function analysis. <i>Zeitschrift für Kristallographie</i> , 2012, 227, 299-303.	1.1	9
35	Vortex pinning in high- T_c materials via randomly oriented columnar defects, created by GeV proton-induced fission fragments. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 378-381, 409-415.	1.2	8
36	Development of Ti-Zr-Mn Based Hydrogen Storage Alloys for a Soft Actuator. <i>Materials Transactions</i> , 2014, 55, 1168-1174.	1.2	8

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37	Improving the Cyclic Stability of V–Ti–Mn bcc Alloys Using Interstitial Elements. <i>Materials Transactions</i> , 2014, 55, 1144-1148.	1.2	8
38	Extremely Slow Diffusion of Argon Atoms in Clathrate Cages: Implications for Gas Storage in Solid Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7479-7488.	6.7	8
39	Pinning action of correlated disorder against equilibrium properties of HgBa ₂ Ca ₂ Cu ₃ O _x . <i>Physical Review B</i> , 2004, 69, .	3.2	7
40	Local structural investigation of SmFeAsO _{1-x} F _x high temperature superconductors. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 272201.	1.8	7
41	Interstitial-atom-induced phase transformation upon hydrogenation in vanadium. <i>Journal of Alloys and Compounds</i> , 2018, 750, 33-41.	5.5	7
42	Hydrogenation Properties of Mg _{83.3} Cu _{7.2} Y _{9.5} with Long Period Stacking Ordered Structure and Formation of Polymorphic β -MgH ₂ . <i>Inorganic Chemistry</i> , 2020, 59, 14263-14274.	4.0	6
43	Suppression of the Phase Coexistence of the fcc-fct Transition in Hafnium-Hydride Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10969-10974.	4.6	6
44	Development of an <i>in situ</i> synchrotron X-ray total scattering setup under pressurized hydrogen gas. <i>Journal of Applied Crystallography</i> , 2018, 51, 796-801.	4.5	5
45	Unveiling Nanoscale Compositional and Structural Heterogeneities of Highly Textured Mg _{0.7} Ti _{0.3} H _y Thin Films. <i>Inorganic Chemistry</i> , 2020, 59, 6800-6807.	4.0	5
46	Nanostructural Perspective for Destabilization of Mg Hydride Using the Immiscible Transition Metal Mn. <i>Inorganic Chemistry</i> , 2021, 60, 15024-15030.	4.0	5
47	Observation of Transient Structural Changes on Hydrogen Absorption Process of LaNi _{4.75} Sn _{0.25} by Time Resolved X-Ray Diffraction. <i>Nippon Kinzoku Gakkaishi</i> / <i>Journal of the Japan Institute of Metals</i> , 2015, 79, 124-130.	0.4	4
48	Current decay from quantum tunneling of vortices in Bi-2212 superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 335, 170-174.	1.2	3
49	New Insight into the Properties of Proton-Conducting Oxides from Neutron Total Scattering. <i>ChemPhysChem</i> , 2008, 9, 2309-2312.	2.1	3
50	Development of Zr _{1-x} Ti _{1-x} Mn _{0.8} V _{0.2} Ni _{0.9} M _{0.1} (M=Ni, Al, Fe, Cu) Alloys for a Soft Actuator Using Hydrogen Storage Alloys. <i>Nippon Kinzoku Gakkaishi</i> / <i>Journal of the Japan Institute of Metals</i> , 2015, 79, 257-264.	0.4	2
51	Metallurgical Synthesis of Mg ₂ Fe _x Si _{1-x} Hydride: Destabilization of Mg ₂ FeH ₆ Nanostructured in Templated Mg ₂ Si. <i>Inorganic Chemistry</i> , 2020, 59, 2758-2764.	4.0	2
52	Properties of polycrystalline Hg _{1-x} BixBa ₂ Ca ₂ Cu ₃ O _y superconductors. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1089-1090.	2.7	0
53	Diminished equilibrium magnetization in Hg-1223 and Tl-2212 superconductors with fission-generated columnar defects. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 733-734.	1.2	0
54	Structural Studies of Hydrogen Storage Alloys using X-ray/Neutron Diffraction and Total Scattering. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1334, 20601.	0.1	0

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55	Effect of a Quenching Rate on Hydrogen Storage Properties of $V_{0.79}Ti_{0.2}Zr_{0.01}$. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2015, 79, 131-136.	0.4	0
56	Chapter 7 Structure of Crystallographically Challenged Hydrogen Storage Materials from Total Scattering. , 2016, , 191-222.		0