

Tae-Hoon Kim

List of Publications by Year in descending order

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papers

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citations

331670

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docs citations

66
times ranked

2520
citing authors

#	ARTICLE	IF	CITATIONS
1	4-Pole Hybrid HVDC Circuit Breaker for Pole-to-Pole (PTP) Fault Protection. IEEE Access, 2022, 10, 39789-39799.	4.2	1
2	Controlled optimization of Mg and Zn in Al alloys for improved corrosion resistance <i>via</i> uniform corrosion. Materials Advances, 2022, 3, 4813-4823.	5.4	9
3	Texture development and grain boundary phase formation in Ce- and Ce-La-substituted Nd-Fe-B magnets during hot-deformation process. Journal of Materials Science and Technology, 2022, 126, 71-79.	10.7	9
4	Does the Encapsulation Strategy of Pt Nanoparticles with Carbon Layers Really Ensure Both Highly Active and Durable Electrocatalysis in Fuel Cells?. ACS Catalysis, 2022, 12, 7317-7325.	11.2	20
5	Syntheses and electronic structure engineering of transition metal nitrides for supercapacitor applications. Journal of Materials Chemistry A, 2022, 10, 14655-14673.	10.3	40
6	Kinetics of Magnetic Skyrmion Crystal Formation from the Conical Phase. Nano Letters, 2021, 21, 5547-5554.	9.1	0
7	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. Nature Catalysis, 2021, 4, 882-891.	34.4	63
8	Self-Catalytic Growth of Elementary Semiconductor Nanowires with Controlled Morphology and Crystallographic Orientation. Nano Letters, 2021, 21, 9909-9915.	9.1	2
9	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. Nano Letters, 2020, 20, 136-144.	9.1	129
10	Atomic Structure of the Polarization Modulations in Perovskite Antiferroelectrics. Microscopy and Microanalysis, 2020, 26, 1190-1191.	0.4	0
11	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. Nano Letters, 2020, 20, 4731-4738.	9.1	14
12	Identifying the Molecular Edge Termination of Exfoliated Hexagonal Boron Nitride Nanosheets with Solid-State NMR Spectroscopy and Plane-Wave DFT Calculations. Chemistry of Materials, 2020, 32, 3109-3121.	6.7	41
13	Manipulating magnetism in the topological semimetal EuCd_2As_2 . Physical Review B, 2020, 101, .	10.5	58
14	In-situ TEM analysis of the phase transformation mechanism of a Cu-Al-Ni shape memory alloy. Journal of Alloys and Compounds, 2019, 808, 151743.	5.5	9
15	Atomically Intimate Contact between Solid Electrolytes and Electrodes for Li Batteries. Matter, 2019, 1, 1001-1016.	10.0	52
16	Formation and Relaxation Dynamics of Magnetic Skyrmion. Microscopy and Microanalysis, 2019, 25, 36-37.	0.4	2
17	High-Density Ordered Arrays of CoPt ₃ Nanoparticles with Individually Addressable Out-of-Plane Magnetization. ACS Applied Nano Materials, 2019, 2, 975-982.	5.0	2
18	Low angle boundary migration of shot-peened pure nickel investigated by electron channeling contrast imaging and electron backscatter diffraction. Microscopy Research and Technique, 2019, 82, 849-855.	2.2	4

#	ARTICLE	IF	CITATIONS
19	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo ₅ Systems. <i>Physical Review Applied</i> , 2019, 11, .	3.8	15
20	Effects of High Magnetic Fields on Phase Transformations in Amorphous Nd ₂ Fe ₁₄ B. <i>Magnetochemistry</i> , 2019, 5, 16.	2.4	6
21	A Hydride Route to Ternary Alkali Metal Borides: A Case Study of Lithium Nickel Borides. <i>Chemistry - A European Journal</i> , 2019, 25, 4123-4135.	3.3	22
22	Uncompensated Polarization in Incommensurate Modulations of Perovskite Antiferroelectrics. <i>Physical Review Letters</i> , 2019, 123, 217602.	7.8	50
23	Defect-Rich 2D Material Networks for Advanced Oxygen Evolution Catalysts. <i>ACS Energy Letters</i> , 2019, 4, 328-336.	17.4	148
24	Millimeter-Scale Growth of Single-Oriented Graphene on a Palladium Silicide Amorphous Film. <i>ACS Nano</i> , 2019, 13, 1127-1135. Mechanisms of enhanced thermal stability of polarization in lead-free $\text{Pb}(\text{Mg}_{1-x}\text{Zn}_x\text{O})$	14.6	1
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37	Novel method for measurement of transistor gate length using energy-filtered transmission electron microscopy. Semiconductor Science and Technology, 2016, 31, 124004.	2.0	0
38	Direct observation of texture memory in hydrogenation–disproportionation–desorption–recombination processed Nd-Fe-B magnets using electron backscatter diffraction. Scripta Materialia, 2016, 115, 6-9.	5.2	9
39	Recrystallization Behavior of Shot Peened Pure Nickel Investigated by Backscattered Electron Techniques. Science of Advanced Materials, 2016, 8, 2103-2107.	0.7	1
40	Quantification of Crystallinity in Ge–Sb–Te Chalcogenide Materials Using Energy-Filtered Electron Diffraction. Science of Advanced Materials, 2016, 8, 2276-2280.	0.7	1
41	Direct Observation of Ferroelectric Domain Switching of BaTiO ₃ Using <i>In-Situ</i> Transmission Electron Microscopy. Science of Advanced Materials, 2016, 8, 2281-2285.	0.7	2
42	Phase-Change Behavior of Carbon-Doped Ge ₂ Sb ₂ Te ₅ Investigated by In Situ Electrical Biasing Transmission Electron Microscopy. Science of Advanced Materials, 2016, 8, 2269-2275.	0.7	0
43	B22-P-05 Observation of recrystallization behavior of shot-peened pure nickel using ECCI combined with EBSD. Microscopy (Oxford, England), 2015, 64, i105.1-i105.	1.5	0
44	Effect of surface etching on the magnetic properties and grain-boundary Dy-diffusion in DyH ₂ -dip-coated sintered Nd-Fe-B magnets. Metals and Materials International, 2015, 21, 600-606.	3.4	12
45	Epitaxial Growth of a Single-Crystal Hybridized Boron Nitride and Graphene Layer on a Wide-Band Gap Semiconductor. Journal of the American Chemical Society, 2015, 137, 6897-6905.	13.7	55
46	Atomic structure and growth mechanism of T1 precipitate in Al–Cu–Li–Mg–Ag alloy. Scripta Materialia, 2015, 109, 68-71.	5.2	68
47	Kinetics of the Ni/Ta-Interlayer/Ge Reactions Studied by <i>In Situ</i> Transmission Electron Microscopy. Science of Advanced Materials, 2015, 7, 1497-1501.	0.7	4
48	Temperature Calibration of a Specimen-heating Holder for Transmission Electron Microscopy. Applied Microscopy, 2015, 45, 95-100.	1.4	9
49	In Situ Transmission Electron Microscopy Study on the Reaction Kinetics of the Ni/Zr-interlayer/Ge System. Applied Microscopy, 2015, 45, 16-22.	1.4	0
50	Optimization of the post-sintering annealing condition for the high Cu content Nd-Fe-B sintered magnet. Journal of Applied Physics, 2014, 115, 17A770.	2.5	9
51	Magnetic and microstructural modification of the Nd–Fe–B sintered magnet by mixed DyF ₃ /DyH _x powder doping. Journal of Applied Physics, 2014, 115, 17A763.	2.5	22
52	Effect of the dehydrogenation speed and Nd content on the microstructure and magnetic properties of HDDR processed Nd-Fe-B magnets. Metals and Materials International, 2014, 20, 909-914.	3.4	11
53	UV Enhanced Synthesis of High Density Au Coated ZnO Nanocomposite. Journal of Nanoscience and Nanotechnology, 2014, 14, 8766-8770.	0.9	15
54	Oxidation Mechanism of Nickel Oxide/Carbon Nanotube Composite. Microscopy and Microanalysis, 2013, 19, 202-206.	0.4	7

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55	Magnetic and Microstructural Characteristics of a DyF ₃ Dip-Coated Nd-Fe-B Sintered Magnet. IEEE Transactions on Magnetics, 2013, 49, 3251-3254.	2.1	18
56	Density Control and Wettability Enhancement by Functionalizing Carbon Nanotubes with Nickel Oxide in Aluminum-Carbon Nanotube System. Journal of Nanoscience and Nanotechnology, 2013, 13, 7685-7688.	0.9	1
57	Effects of DyHx and Dy ₂ O ₃ powder addition on magnetic and microstructural properties of Nd-Fe-B sintered magnets. Journal of Applied Physics, 2012, 112, .	2.5	28
58	Thickness contrast of few-layered graphene in SEM. Surface and Interface Analysis, 2012, 44, 1538-1541.	1.8	35
59	Synthesis and Characterization of a Pt/NiO/Pt Heterostructure for Resistance Random Access Memory. Applied Microscopy, 2012, 42, 207-211.	1.4	4
60	Fabrication of CdTe/Te Hetero-Nanostructures by Vapor-Solid Process. Journal of Nanoscience and Nanotechnology, 2011, 11, 6559-6562.	0.9	0
61	Mechanism of Pt Loading on Multi-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 6293-6297.	0.9	0
62	Effect of Dy on the microstructural and magnetic properties of an Nd-Fe-B strip-cast alloy. Metals and Materials International, 2011, 17, 329-334.	3.4	7
63	Microstructural evolution of triple junction and grain boundary phases of a Nd-Fe-B sintered magnet by post-sintering annealing. Journal of Applied Physics, 2011, 109, .	2.5	20
64	Effect of annealing on microstructural changes of Nd-rich phases and magnetic properties of Nd-Fe-B sintered magnet. Journal of Applied Physics, 2010, 107, 09A737.	2.5	21
65	Highly Emissive Self-Assembled Organic Nanoparticles having Dual Color Capacity for Targeted Immunofluorescence Labeling. Advanced Materials, 2008, 20, 1117-1121.	21.0	57
66	Atomic-Level Structure of Mesoporous Hexagonal Boron Nitride Determined by High-Resolution Solid-State Multinuclear Magnetic Resonance Spectroscopy and Density Functional Theory Calculations. Chemistry of Materials, 0, , .	6.7	5