

Daisuke Nishio-Hamane

List of Publications by Year in descending order

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99
papers

2,949
citations

236925

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103
all docs

103
docs citations

103
times ranked

3803
citing authors

#	ARTICLE	IF	CITATIONS
1	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. <i>Nature Physics</i> , 2017, 13, 1085-1090.	16.7	432
2	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. <i>Nature Physics</i> , 2018, 14, 1119-1124.	16.7	366
3	Gold nanoparticles stabilized on nanocrystalline magnesium oxide as an active catalyst for reduction of nitroarenes in aqueous medium at room temperature. <i>Green Chemistry</i> , 2012, 14, 3164.	9.0	326
4	Development of a Software Suite on X-ray Diffraction Experiments. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2010, 20, 269-276.	0.0	208
5	Iron-based binary ferromagnets for transverse thermoelectric conversion. <i>Nature</i> , 2020, 581, 53-57.	27.8	162
6	Anomalous transport due to Weyl fermions in the chiral antiferromagnets Mn_3X , $X = \text{As, Sn, Ge}$. <i>Nature Communications</i> , 2021, 12, 572.	12.8	90
7	Hybrid Amine-Functionalized Graphene Oxide as a Robust Bifunctional Catalyst for Atmospheric Pressure Fixation of Carbon Dioxide using Cyclic Carbonates. <i>ChemSusChem</i> , 2016, 9, 644-650.	6.8	75
8	Partitioning of iron between perovskite/postperovskite and ferropericlase in the lower mantle. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	73
9	The stability and equation of state for the cotunnite phase of TiO_2 up to 70 GPa. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 129-136.	0.8	60
10	Electrospinning Synthesis of Wire-Structured $LiCoO_2$ for Electrode Materials of High-Power Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10774-10780.	3.1	51
11	Spin transition of ferric iron in Al-bearing Mg -perovskite up to 200 GPa and its implication for the lower mantle. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 407-412.	4.4	47
12	Synthesis of $LiNi_{0.5}Mn_{1.5}O_4$ and $0.5Li_2MnO_3 \cdot 0.5LiNi_{1/3}Co_{1/3}Mn_{1/3}O_2$ hollow nanowires by electrospinning. <i>CrystEngComm</i> , 2013, 15, 2592.	2.6	39
13	Effect of $FeAlO_3$ incorporation into $MgSiO_3$ on the bulk modulus of perovskite. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 166, 219-225.	1.9	37
14	Synthesis of oxamate and urea by oxidative single and double carbonylation of amines using immobilized palladium metal-containing ionic liquid@SBA-15. <i>Journal of Molecular Catalysis A</i> , 2015, 400, 170-178.	4.8	37
15	Continuous Hydrothermal Synthesis of Nickel Ferrite Nanoparticles Using a Central Collision-Type Micromixer: Effects of Temperature, Residence Time, Metal Salt Molality, and NaOH Addition on Conversion, Particle Size, and Crystal Phase. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9625-9631.	3.7	36
16	Magnetic properties of Mn - Bi melt-spun ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 349, 9-14.	2.3	35
17	Topochemical synthesis of phase-pure Mo_2AlB_2 through staging mechanism. <i>Chemical Communications</i> , 2019, 55, 9295-9298.	4.1	34
18	Fe_3+ and Al solubilities in $MgSiO_3$ perovskite: implication of the Fe_3+ - AlO_3 substitution in $MgSiO_3$ perovskite at the lower mantle condition. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	33

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19	A new high-pressure polymorph of Ti_2O_3 : implication for high-pressure phase transition in sesquioxides. High Pressure Research, 2009, 29, 379-388.	1.2	33
20	Magnetic properties of Sm-Fe-Ti nanocomposite magnets with a ThMn_{12} structure. Journal of Alloys and Compounds, 2012, 519, 144-148.	5.5	33
21	Magnetic properties of $\text{SmCo}_5\text{-xFe}_x$ ($x=0-4$) melt-spun ribbon. Journal of Alloys and Compounds, 2014, 585, 423-427.	5.5	33
22	Stability of the perovskite structure and possibility of the transition to the post-perovskite structure in CaSiO_3 , FeSiO_3 , MnSiO_3 and CoSiO_3 . Physics of the Earth and Planetary Interiors, 2009, 177, 147-151.	1.9	29
23	Quantum valence criticality in a correlated metal. Science Advances, 2018, 4, eaao3547.	10.3	28
24	Electrochemical properties of $\text{LiMn}_x\text{Fe}_{1-x}\text{PO}_4$ ($x=0, 0.2, 0.4, 0.6, 0.8$ and 1.0)/vapor grown carbon fiber core-sheath composite nanowire synthesized by electrospinning method. Journal of Power Sources, 2014, 248, 615-620.	7.8	27
25	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	14.9	26
26	Semimetallic transport properties of epitaxially stabilized perovskite CaIrO_3 films. Applied Physics Letters, 2015, 107, .	3.3	25
27	Effect of the incorporation of FeAlO_3 into MgSiO_3 perovskite on the post-perovskite transition. Geophysical Research Letters, 2007, 34, .	4.0	24
28	Theoretical and experimental evidence for the post-cotunnite phase transition in zirconia at high pressure. Physics and Chemistry of Minerals, 2015, 42, 385-392.	0.8	24
29	High-pressure phase behavior of MnTiO_3 : decomposition of perovskite into MnO and MnTi_2O_5 . Physics and Chemistry of Minerals, 2011, 38, 251-258.	0.8	21
30	Visible 5d Orbital States in a Pleochroic Oxychloride. Journal of the American Chemical Society, 2017, 139, 10784-10789.	13.7	21
31	Direct Observation of Short-Range Structural Coherence During a Charge Transfer Induced Spin Transition in a CoFe Prussian Blue Analogue by Transmission Electron Microscopy. Journal of the American Chemical Society, 2015, 137, 14686-14693.	13.7	20
32	Successive phase transitions driven by orbital ordering and electron transfer in quasi-two-dimensional CrSe_2 on a triangular lattice. Physical Review B, 2014, 89, .	3.2	19
33	Magnetic properties of SmFe_{12} -based magnets produced by spark plasma sintering method. Journal of Alloys and Compounds, 2019, 773, 1018-1022.	5.5	19
34	Equations of state for postperovskite phases in the $\text{MgSiO}_3\text{-FeSiO}_3\text{-FeAlO}_3$ system. Physics of the Earth and Planetary Interiors, 2009, 175, 145-150.	1.9	18
35	Structural discrimination of double-walled carbon nanotubes by chiral diporphyrin nanocalipers. Journal of Materials Chemistry A, 2014, 2, 19067-19074.	10.3	16
36	Synthesis of Polyester Amide by Carbonylation-Polycondensation Reaction Using Immobilized Palladium Metal Containing Ionic Liquid on SBA-15 as a Phosphine-Free Catalytic System. Catalysis Letters, 2015, 145, 824-833.	2.6	16

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37	Enhancement of magnetic properties by Zn addition in Nd-Fe-B hot-deformed magnets produced by spark plasma sintering method. <i>Journal of Alloys and Compounds</i> , 2016, 687, 662-666.	5.5	16
38	High-coercivity SmCo ₅ /±-Fe nanocomposite magnets. <i>Journal of Alloys and Compounds</i> , 2018, 735, 218-223.	5.5	15
39	Spin transition, substitution, and partitioning of iron in lower mantle minerals. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 186-191.	1.9	14
40	Epidote-(Sr), CaSrAl ₂ Fe ₃ +(Si ₂ O ₇)(SiO ₄)(OH), a new mineral from the Ananai mine, Kochi Prefecture, Japan. <i>Journal of Mineralogical and Petrological Sciences</i> , 2008, 103, 400-406.	0.9	13
41	Ionic Liquid Immobilized on Grapheneâ€Oxideâ€Containing Palladium Metal Ions as an Efficient Catalyst for the Alkoxy, Amino, and Phenoxy Carbonylation Reactions. <i>ChemNanoMat</i> , 2018, 4, 575-582.	2.8	13
42	Ferromagnetic carbon materials prepared from polyacrylonitrile. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	12
43	Size-controllable gold nanoparticles prepared from immobilized gold-containing ionic liquids on SBA-15. <i>Catalysis Today</i> , 2018, 309, 109-118.	4.4	12
44	Magnetic and thermoelectric properties of melt-spun ribbons of Fe ₂ XAl (X = Co, Ni) Heusler compounds. <i>Journal of Applied Physics</i> , 2018, 124, 075105.	2.5	11
45	Kitaev Spin Liquid Candidate Os<i>x</i>₃ Comprised of Honeycomb Nano-Domains. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 114709.	1.6	11
46	VGCF-core@LiMn _{0.4} Fe _{0.6} PO ₄ -sheath heterostructure nanowire for high rate Li-ion batteries. <i>CrystEngComm</i> , 2013, 15, 6638.	2.6	10
47	Continuous Hydrothermal Synthesis of Pr-Doped CaTiO₃ Nanoparticles from a TiO₂ Sol. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7628-7634.	3.7	10
48	High-pressure synthesis of tetragonal iron aluminide FeAl ₂ . <i>Scripta Materialia</i> , 2017, 141, 107-110.	5.2	10
49	Ehimeite, NaCa ₂ Mg ₄ CrSi ₆ Al ₂ O ₂₂ (OH) ₂ : The first Cr-dominant amphibole from the Akaishi Mine, Higashi-Akaishi Mountain, Ehime Prefecture, Japan. <i>Journal of Mineralogical and Petrological Sciences</i> , 2012, 107, 1-7.	0.9	10
50	Ultrafast hydrothermal synthesis of Pr-doped Ca _{0.6} Sr _{0.4} TiO ₃ red phosphor nanoparticles using corrosion resistant microfluidic devices with Ti-lined structure under high-temperature and high-pressure condition. <i>Chemical Engineering Journal</i> , 2014, 239, 360-363.	12.7	9
51	New hard magnetic phase in Mnâ€Gaâ€Al system alloys. <i>Journal of Alloys and Compounds</i> , 2015, 632, 486-489.	5.5	9
52	Synthesis, Structure, and Electromagnetic Properties of Manganese Hollandite, K_xMn₈O₁₆. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 104701.	1.6	8
53	Magnetic properties of Sm-Fe-N bulk magnets prepared from Sm ₂ Fe ₁₇ N ₃ melt-spun ribbons. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	8
54	Ferriakasaite-(La) and ferriandrosite-(La): new epidote-supergroup minerals from Ise, Mie Prefecture, Japan. <i>Mineralogical Magazine</i> , 2015, 79, 735-753.	1.4	8

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55	Phase stability and thermoelectric properties of semiconductor-like tetragonal FeAl ₂ . Science and Technology of Advanced Materials, 2019, 20, 937-948.	6.1	8
56	Synthesis of Sm(Co,Fe) ₄ B compounds by rapid quenching and subsequent heat treatment. Intermetallics, 2019, 107, 6-9.	3.9	8
57	Modern Alchemy: Making "Plastics" from Paper. Industrial & Engineering Chemistry Research, 2021, 60, 355-360.	3.7	8
58	Reaction of forsterite with hydrogen molecules at high pressure and temperature. Physics and Chemistry of Minerals, 2012, 39, 123-129.	0.8	7
59	Contrasting Pressure-Induced Metallization Processes in Layered Perovskites, \pm - $\langle \text{Sr} \rangle \langle \text{Mn} \rangle^2 \langle \text{O} \rangle$	7.8	7
60	Momoiite, (Mn ²⁺ ,Ca) ₃ (V ³⁺ ,Al) ₂ Si ₃ O ₁₂ , a new manganese vanadium garnet from Japan. Journal of Mineralogical and Petrological Sciences, 2010, 105, 92-96.	0.9	7
61	Spin transition and substitution of Fe ³⁺ in Al-bearing post-Mg-perovskite. Physics of the Earth and Planetary Interiors, 2013, 217, 31-35.	1.9	6
62	High coercivity in Mn-Ga-Cu alloys. AIP Advances, 2016, 6, .	1.3	6
63	Aurhydrargyrumite, a Natural Au ₆ Hg ₅ Phase from Japan. Minerals (Basel, Switzerland), 2018, 8, 415.	2.0	6
64	High-coercivity Sm(Fe,V,Ti) ₁₂ bulk magnets. Materials Research Bulletin, 2021, 133, 111060.	5.2	6
65	Iwateite, Na ₂ BaMn(PO ₄) ₂ , a new mineral from the Tanohata mine, Iwate Prefecture, Japan. Journal of Mineralogical and Petrological Sciences, 2014, 109, 34-37.	0.9	5
66	Magnetic Properties of Sm-Zr-Fe Melt-Spun Ribbons. IEEE Transactions on Magnetics, 2013, 49, 3345-3348.	2.1	4
67	Iseite, Mn ₂ Mo ₃ O ₈ , a new mineral from Ise, Mie Prefecture, Japan. Journal of Mineralogical and Petrological Sciences, 2013, 108, 37-41.	0.9	4
68	Synthesis and crystal chemistry of mukhinite, V-analogue of clinozoisite on the join Ca ₂ Al ₃ Si ₃ O ₁₂ (OH) ↔ Ca ₂ Al ₂ VSi ₃ O ₁₂ (OH). Physics and Chemistry of Minerals, 2019, 46, 63-76.	0.8	4
69	Fabrication of BaSnO ₃ thin films on SiO ₂ glass substrates using excimer laser-assisted metal organic decomposition. Applied Surface Science, 2020, 506, 144915.	6.1	4
70	Synthesis of SmFe ₅ intermetallic compound. AIP Advances, 2020, 10, .	1.3	4
71	The structural state of Finnish Cr- and V-bearing clinozoisite: insights from Raman spectroscopy. Physics and Chemistry of Minerals, 2021, 48, 1.	0.8	4
72	Ferric iron and aluminum partitioning between MgSiO ₃ - and CaSiO ₃ -perovskites under oxidizing conditions. Journal of Mineralogical and Petrological Sciences, 2007, 102, 291-297.	0.9	4

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73	Dimer Crystallization Induced by Elemental Substitution in the Honeycomb Lattice of Ru _{1-x} Os _x Cl ₃ . Journal of the Physical Society of Japan, 2022, 91, .	1.6	4
74	Anomalous Hall effect in nanoscale structures of the antiferromagnetic Weyl semimetal Mn ₃ Sn at room temperature. Applied Physics Letters, 2022, 121, 013103.	3.3	4
75	Magnetic properties of Pr-Fe-Ti-B nanocomposite magnets produced by spark plasma sintering method. Journal of Applied Physics, 2011, 109, 07A754.	2.5	3
76	Enhanced Flux Pinning and Microstructural Study of Single-Domain Gd-Ba-Cu-O Bulk Superconductors With the Addition of Fe-Containing Alloy Particles. IEEE Transactions on Magnetics, 2011, 47, 4139-4142.	2.1	3
77	Magnetic properties of (Sm,Y)Fe ₁₇ melt-spun ribbons. Journal of Applied Physics, 2011, 109, 07A724.	2.5	3
78	Miyahisaite, (Sr,Ca) ₂ Ba ₃ (PO ₄) ₃ F, a new mineral of the hedyphane group in the apatite supergroup from the Shimoharai mine, Oita Prefecture, Japan. Journal of Mineralogical and Petrological Sciences, 2012, 107, .	0.9	3
79	Impurity-Induced First-Order Phase Transitions in Highly Crystalline V ₂ O ₃ Nanocrystals. Advanced Materials Interfaces, 2015, 2, 1500132.	3.7	3
80	Bunnoite, a new hydrous manganese aluminosilicate from Kamo Mountain, Kochi prefecture, Japan. Mineralogy and Petrology, 2016, 110, 917-926.	1.1	3
81	Multi-methodical study of the Ti, Fe ²⁺ and Fe ³⁺ distribution in chevkinite-subgroup minerals: X-ray diffraction, neutron diffraction, ⁵⁷ Fe Mössbauer spectroscopy and electron-microprobe analyses. Physics and Chemistry of Minerals, 2020, 47, 1.	0.8	3
82	Takanawaite-(Y), a new mineral of the M-type polymorph with Y(Ta,Nb)O ₄ from Takanawa Mountain, Ehime Prefecture, Japan. Journal of Mineralogical and Petrological Sciences, 2013, 108, 335-344.	0.9	2
83	Coercivity of Nd-Fe-B hot-deformed magnets produced by the spark plasma sintering method. AIP Advances, 2017, 7, .	1.3	2
84	Contrasted Sn substitution effects on Dirac line node semimetals SrIrO ₃ and CaIrO ₃ . APL Materials, 2019, 7, 121101.	5.1	2
85	Production of (Sm,Zr)Fe ₃ magnets and their magnetic properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114990.	3.5	2
86	Magnetic Properties of Sm(FeTi) ₁₇ , Hot-Deformed Magnets. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
87	Photocatalytic Silica Resin Coating for Environmental Protection of Paper as a Plastic Substitute. Industrial & Engineering Chemistry Research, 2022, 61, 6967-6972.	3.7	2
88	Effects of titanium and zirconium addition on magnetic properties of Sm ₂ Fe ₁₇ melt-spun ribbons. AIP Advances, 2018, 8, 056230.	1.3	1
89	Transmission electron microscopy study of the epitaxial association of hedenbergite whiskers with babingtonite. Mineralogical Magazine, 2018, 82, 23-33.	1.4	1
90	Structures and magnetic properties of (Ce,Sm)Co ₂ Fe ₂ B melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2020, 513, 167189.	2.3	1

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91	Production of anisotropic SmFe ₃ magnets by hot deformation. AIP Advances, 2020, 10, 015134.	1.3	1
92	Structures and magnetic properties of SmFe ₅ xTi melt-spun ribbons with SmFe ₅ and Sm ₅ Fe ₁₇ phases. Journal of Magnetism and Magnetic Materials, 2021, 535, 168070.	2.3	1
93	Magnetic Properties of SmFe ₃ -Type Sm-Zr-Fe-Co-Ti Melt-Spun Ribbons. Materials Transactions, 2019, 60, 1384-1389.	1.2	1
94	Defect-Free Nanocrystals: Impurity-Induced First-Order Phase Transitions in Highly Crystalline V ₂ O ₃ Nanocrystals (Adv. Mater. Interfaces 12/2015). Advanced Materials Interfaces, 2015, 2, n/a-n/a.	3.7	0
95	Behavior of Xenon-Iron System under the Core Pressure. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2011, 21, 109-114.	0.0	0
96	Mineral assemblage in the deep interior of the giant planet investigated by the high pressure and temperature phase transition in titanate. Ganseki Kobutsu Kagaku, 2013, 42, 12-17.	0.1	0
97	Miyahisaite, a new mineral. Ganseki Kobutsu Kagaku, 2015, 44, 57-59.	0.1	0
98	The Role of Scandium Substitution in Babingtonite Group Minerals. Minerals (Basel, Switzerland), 2022, 12, 333.	2.0	0
99	Magnetic properties of Sm(Fe,Ti) ₁₀ alloys and their nitrides. Journal of Magnetism and Magnetic Materials, 2022, 560, 169638.	2.3	0