

Daisuke Nishio-Hamane

List of Publications by Year in descending order

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236925

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103
docs citations

103
times ranked

3803
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Properties of Sm(FeTi) _{1-x} Os _x Cl ₃ , Hot-Deformed Magnets. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
2	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
3	The Role of Scandium Substitution in Babingtonite Group Minerals. Minerals (Basel, Switzerland), 2022, 12, 333.	2.0	0
4	Photocatalytic Silica Resin Coating for Environmental Protection of Paper as a Plastic Substitute. Industrial & Engineering Chemistry Research, 2022, 61, 6967-6972.	3.7	2
5	Magnetic properties of Sm(Fe,Ti) ₁₀ alloys and their nitrides. Journal of Magnetism and Magnetic Materials, 2022, 560, 169638.	2.3	0
6	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
7	High-coercivity Sm(Fe,V,Ti) ₁₂ bulk magnets. Materials Research Bulletin, 2021, 133, 111060.	5.2	6
8	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
9	Modern Alchemy: Making Plastics from Paper. Industrial & Engineering Chemistry Research, 2021, 60, 355-360.	3.7	8
10	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	14.9	26
11	Structures and magnetic properties of SmFe _{5-x} Tix melt-spun ribbons with SmFe ₅ and Sm ₅ Fe ₁₇ phases. Journal of Magnetism and Magnetic Materials, 2021, 535, 168070.	2.3	1
12	Anomalous transport due to Weyl fermions in the chiral antiferromagnets Mn ₃ X, X=Sn, Ge. Nature Communications, 2021, 12, 572.	12.8	90
13	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
14	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
15	Kitaev Spin Liquid Candidate Os _{1-x} Cl ₃ Comprised of Honeycomb Nano-Domains. Journal of the Physical Society of Japan, 2020, 89, 114709.	1.6	11
16	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
17	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
18	Synthesis of SmFe ₅ intermetallic compound. AIP Advances, 2020, 10, .	1.3	4

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19	Production of anisotropic SmFe ₃ magnets by hot deformation. AIP Advances, 2020, 10, 015134.	1.3	1
20	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	27.8	162
21	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
22	Phase stability and thermoelectric properties of semiconductor-like tetragonal FeAl ₂ . Science and Technology of Advanced Materials, 2019, 20, 937-948.	6.1	8
23	Contrasting Pressure-Induced Metallization Processes in Layered Perovskites, χ_{\pm} - χ_{\pm}	7.8	7
24	Topochemical synthesis of phase-pure Mo ₂ AlB ₂ through staging mechanism. Chemical Communications, 2019, 55, 9295-9298.	4.1	34
25	Contrasted Sn substitution effects on Dirac line node semimetals SrIrO ₃ and CaIrO ₃ . APL Materials, 2019, 7, 121101.	5.1	2
26	Synthesis of Sm(Co,Fe) ₄ B compounds by rapid quenching and subsequent heat treatment. Intermetallics, 2019, 107, 6-9.	3.9	8
27	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
28	Magnetic Properties of SmFe ₃ -Type SmZrFeCoTi Melt-Spun Ribbons. Materials Transactions, 2019, 60, 1384-1389.	1.2	1
29	Quantum valence criticality in a correlated metal. Science Advances, 2018, 4, eaao3547.	10.3	28
30	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
31	Ionic Liquid Immobilized on GrapheneOxideContaining Palladium Metal Ions as an Efficient Catalyst for the Alkoxy, Amino, and Phenoxy Carbonylation Reactions. ChemNanoMat, 2018, 4, 575-582.	2.8	13
32	Size-controllable gold nanoparticles prepared from immobilized gold-containing ionic liquids on SBA-15. Catalysis Today, 2018, 309, 109-118.	4.4	12
33	High-coercivity SmCo ₅ /Fe nanocomposite magnets. Journal of Alloys and Compounds, 2018, 735, 218-223.	5.5	15
34	Aurhydrargyrumite, a Natural Au ₆ Hg ₅ Phase from Japan. Minerals (Basel, Switzerland), 2018, 8, 415.	2.0	6
35	Transmission electron microscopy study of the epitaxial association of hedenbergite whiskers with babingtonite. Mineralogical Magazine, 2018, 82, 23-33.	1.4	1
36	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. Nature Physics, 2018, 14, 1119-1124.	16.7	366

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37	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
38	Coercivity of Nd-Fe-B hot-deformed magnets produced by the spark plasma sintering method. <i>AIP Advances</i> , 2017, 7, .	1.3	2
39	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. <i>Nature Physics</i> , 2017, 13, 1085-1090.	16.7	432
40	Visible d Orbital States in a Pleochroic Oxychloride. <i>Journal of the American Chemical Society</i> , 2017, 139, 10784-10789.	13.7	21
41	High-pressure synthesis of tetragonal iron aluminide FeAl ₂ . <i>Scripta Materialia</i> , 2017, 141, 107-110.	5.2	10
42	High coercivity in Mn-Ga-Cu alloys. <i>AIP Advances</i> , 2016, 6, .	1.3	6
43	Bunnoite, a new hydrous manganese aluminosilicate from Kamo Mountain, Kochi prefecture, Japan. <i>Mineralogy and Petrology</i> , 2016, 110, 917-926.	1.1	3
44	Continuous Hydrothermal Synthesis of Pr-Doped CaTiO ₃ Nanoparticles from a TiO ₂ Sol. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7628-7634.	3.7	10
45	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
46	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
47	Semimetallic transport properties of epitaxially stabilized perovskite CaIrO ₃ films. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	25
48	Impurity-Induced First-Order Phase Transitions in Highly Crystalline V ₂ O ₃ Nanocrystals. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500132.	3.7	3
49	Defect-Free Nanocrystals: Impurity-Induced First-Order Phase Transitions in Highly Crystalline V ₂ O ₃ Nanocrystals (Adv. Mater. Interfaces 12/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, n/a-n/a.	3.7	0
50	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
51	New hard magnetic phase in Mn-Ga-Al system alloys. <i>Journal of Alloys and Compounds</i> , 2015, 632, 486-489.	5.5	9
52	Synthesis of Polyester Amide by Carbonylation-Polycondensation Reaction Using Immobilized Palladium Metal Containing Ionic Liquid on SBA-15 as a Phosphine-Free Catalytic System. <i>Catalysis Letters</i> , 2015, 145, 824-833.	2.6	16
53	Theoretical and experimental evidence for the post-cotunnite phase transition in zirconia at high pressure. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 385-392.	0.8	24
54	Direct Observation of Short-Range Structural Coherence During a Charge Transfer Induced Spin Transition in a CoFe Prussian Blue Analogue by Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 14686-14693.	13.7	20

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55	Magnetic properties of Sm-Fe-N bulk magnets prepared from Sm ₂ Fe ₁₇ N ₃ melt-spun ribbons. Journal of Applied Physics, 2015, 117, .	2.5	8
56	Ferriakasaite-(La) and ferriandrosite-(La): new epidote-supergroup minerals from Ise, Mie Prefecture, Japan. Mineralogical Magazine, 2015, 79, 735-753.	1.4	8
57	Miyahisaite, a new mineral. Ganshiki Kobutsu Kagaku, 2015, 44, 57-59.	0.1	0
58	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
59	Structural discrimination of double-walled carbon nanotubes by chiral diporphyrin nanocalipers. Journal of Materials Chemistry A, 2014, 2, 19067-19074.	10.3	16
60	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, .	8.2	19
61	Magnetic properties of Mn-Bi melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2014, 349, 9-14.	2.3	35
62	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. Chemical Engineering Journal, 2014, 239, 360-363.	12.7	9
63	Spin transition, substitution, and partitioning of iron in lower mantle minerals. Physics of the Earth and Planetary Interiors, 2014, 228, 186-191.	1.9	14
64	Magnetic properties of SmCo _{5-x} Fe _x (x=0-4) melt-spun ribbon. Journal of Alloys and Compounds, 2014, 585, 423-427.	5.5	33
65	Electrochemical properties of LiMn _x Fe _{1-x} 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
66	Magnetic Properties of Sm-Zr-Fe Melt-Spun Ribbons. IEEE Transactions on Magnetics, 2013, 49, 3345-3348.	2.1	4
67	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
68	VGCF-core@LiMn _{0.4} Fe _{0.6} PO ₄ -sheath heterostructure nanowire for high rate Li-ion batteries. CrystEngComm, 2013, 15, 6638.	2.6	10
69	Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ and 0.5Li ₂ MnO ₃ ·0.5LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ hollow nanowires by electrospinning. CrystEngComm, 2013, 15, 2592.	2.6	39
70	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
71	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
72	Mineral assemblage in the deep interior of the giant planet investigated by the high pressure and temperature phase transition in titanate. Ganshiki Kobutsu Kagaku, 2013, 42, 12-17.	0.1	0

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73	Synthesis, Structure, and Electromagnetic Properties of Manganese Hollandite, $K_{x}Mn_{8}O_{16}$. Journal of the Physical Society of Japan, 2012, 81, 104701.	1.6	8
74	Electrospinning Synthesis of Wire-Structured $LiCoO_{2}$ for Electrode Materials of High-Power Li-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 10774-10780.	3.1	51
75	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
76	Spin transition of ferric iron in Al-bearing Mg -perovskite up to 200 GPa and its implication for the lower mantle. Earth and Planetary Science Letters, 2012, 317-318, 407-412.	4.4	47
77	Gold nanoparticles stabilized on nanocrystalline magnesium oxide as an active catalyst for reduction of nitroarenes in aqueous medium at room temperature. Green Chemistry, 2012, 14, 3164.	9.0	326
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	Reaction of forsterite with hydrogen molecules at high pressure and temperature. Physics and Chemistry of Minerals, 2012, 39, 123-129.	0.8	7
80	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. Journal of Mineralogical and Petrological Sciences, 2012, 107, 1-7.	0.9	10
81	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. Industrial & Engineering Chemistry Research, 2011, 50, 9625-9631.	3.7	36
82	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
83	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
84	High-pressure phase behavior of $MnTiO_{3}$: decomposition of perovskite into MnO and $MnTi_{2}O_{5}$. Physics and Chemistry of Minerals, 2011, 38, 251-258.	0.8	21
85	Magnetic properties of $(Sm,Y)_{5}Fe_{17}$ melt-spun ribbons. Journal of Applied Physics, 2011, 109, 07A724.	2.5	3
86	Ferromagnetic carbon materials prepared from polyacrylonitrile. Applied Physics Letters, 2011, 98, .	3.3	12
87	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
88	The stability and equation of state for the cotunnite phase of TiO_{2} up to 70 GPa. Physics and Chemistry of Minerals, 2010, 37, 129-136.	0.8	60
89	Development of a Software Suite on X-ray Diffraction Experiments. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 269-276.	0.0	208
90	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

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91	Equations of state for postperovskite phases in the MgSiO ₃ -FeSiO ₃ -FeAlO ₃ system. Physics of the Earth and Planetary Interiors, 2009, 175, 145-150.	1.9	18
92	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
93	A new high-pressure polymorph of Ti ₂ O ₃ : implication for high-pressure phase transition in sesquioxides. High Pressure Research, 2009, 29, 379-388.	1.2	33
94	Effect of FeAlO ₃ incorporation into MgSiO ₃ on the bulk modulus of perovskite. Physics of the Earth and Planetary Interiors, 2008, 166, 219-225.	1.9	37
95	Partitioning of iron between perovskite/postperovskite and ferropericlase in the lower mantle. Journal of Geophysical Research, 2008, 113, .	3.3	73
96	Epidote-(Sr), CaSrAl ₂ Fe ³⁺ (Si ₂ O ₇)(SiO ₄)(OH), a new mineral from the Ananai mine, Kochi Prefecture, Japan. Journal of Mineralogical and Petrological Sciences, 2008, 103, 400-406.	0.9	13
97	Effect of the incorporation of FeAlO ₃ into MgSiO ₃ perovskite on the post-perovskite transition. Geophysical Research Letters, 2007, 34, .	4.0	24
98	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
99	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. Geophysical Research Letters, 2005, 32, .	4.0	33