

Hideaki Nagai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis Method and Electrochemical Properties of $\text{H}_{2}\text{Ti}_{12}\text{O}_{25}$ from Cubic $\text{Li}_{2}\text{TiO}_{3}$ for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 110517.	2.9	2
2	Synthesis of $\text{H}_{2}\text{Ti}_{12}\text{O}_{25}$ containing fine carbon particles by impregnation method using porous titanium hydroxide. Journal of the Ceramic Society of Japan, 2019, 127, 399-403.	1.1	2
3	Thermoelectric Properties of $\text{Na}_{2}\text{ZnSn}_{5}$ Dimorphs with Na Atoms Disordered in Tunnels. Chemistry of Materials, 2017, 29, 859-866.	6.7	5
4	Synthesis of $\text{H}_{2}\text{Ti}_{12}\text{O}_{25}$ with anisotropic morphology by impregnation of $\text{Na}_{2}\text{CO}_{3}$ solution into porous titanium hydroxide. Journal of the Ceramic Society of Japan, 2017, 125, 686-689.	1.1	2
5	Ion-exchange synthesis and improved Li insertion property of lithiated $\text{H}_{2}\text{Ti}_{12}\text{O}_{25}$ as a negative electrode material for lithium-ion batteries. Journal of Asian Ceramic Societies, 2016, 4, 75-80.	2.3	7
6	Electrochemical Property of Particle-size Controlled $\text{H}_{2}\text{Ti}_{12}\text{O}_{25}$ as a Negative Electrode Material for Lithium-ion Battery. Electrochemistry, 2015, 83, 834-836.	1.4	4
7	A Thermoelectric Zintl Phase $\text{Na}_{2+x}\text{Ga}_{2+x}\text{Sn}_{4-x}$ with Disordered Na Atoms in Helical Tunnels. Advanced Materials, 2015, 27, 4708-4713.	21.0	29
8	Visualization Study of Growth of Spherical Bubble in He II Boiling under Microgravity Condition. Physics Procedia, 2015, 67, 591-595.	1.2	5
9	Thermoelectric n-type silicon germanium synthesized by unidirectional solidification in microgravity. Journal of Alloys and Compounds, 2013, 551, 607-615.	5.5	9
10	Field-Induced Translation of Single Ferromagnetic and Ferrimagnetic Grain as Observed in the Chamber-type $\frac{1}{4}\text{G}$ System. Journal of Magnetism, 2013, 18, 308-310.	0.4	1
11	Thermophysical properties of Zr-Cu-Al metallic glasses during crystallization. Journal of Non-Crystalline Solids, 2011, 357, 126-131.	3.1	11
12	Thermally conductive composite films of hexagonal boron nitride and polyimide with affinity-enhanced interfaces. Journal of Materials Chemistry, 2010, 20, 2749.	6.7	345
13	Crystal growth and structure refinement of monoclinic $\text{Li}_{2}\text{TiO}_{3}$. Materials Research Bulletin, 2009, 44, 168-172.	5.2	146
14	Synthesis of High-performance Magnetostrictive $\text{Tb}_{0.3}\text{Dy}_{0.7}\text{Fe}_{2}$ by Unidirectional Solidification in Microgravity. Annals of the New York Academy of Sciences, 2009, 1161, 437-451.	3.8	3
15	Amorphous film thickness dependence for epitaxy of perovskite oxide films under excimer laser irradiation. Applied Surface Science, 2009, 255, 9775-9778.	6.1	5
16	Epitaxial Growth Mechanism for Perovskite Oxide Thin Films under Pulsed Laser Irradiation in Chemical Solution Deposition Process. Chemistry of Materials, 2008, 20, 7344-7351.	6.7	65
17	Thermal Conductivity Measurement of Molten Indium Antimonide Using Hot-Disk Method in Short-Duration Microgravity. Japanese Journal of Applied Physics, 2007, 46, 7920-7924.	1.5	4
18	Characterization of Anisotropic and Irregularly-Shaped Materials by High-Sensitive Thermal Conductivity Measurements. Solid State Phenomena, 2007, 124-126, 1641-1644.	0.3	13

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19	The analysis of CdTe solidification in absence of thermal convection via short-duration microgravity. Journal of Crystal Growth, 2006, 295, 209-216.	1.5	2
20	Effect of Microgravity and Magnetic Field on the Metallic and Crystalline Structure of Magnetostrictive SmFe ₂ Synthesized by Unidirectional Solidification. Annals of the New York Academy of Sciences, 2006, 1077, 146-160.	3.8	2
21	Diamagnetic Anisotropy Detected by a Magnetic Oscillation in Drop Tube without Suspending Crystals with Fiber. Japanese Journal of Applied Physics, 2006, 45, L124-L127.	1.5	11
22	Development of Hot-Disk Sensor for Molten Metal, and the Thermal Conductivity Measurement of Molten Bismuth and Tin using Hot-Disk Method. Japanese Journal of Applied Physics, 2006, 45, 6455-6461.	1.5	9
23	Effect of magnetic field on metallurgical structure of magnetostrictive alloys solidified unidirectionally in microgravity. Microgravity Science and Technology, 2005, 16, 84-88.	1.4	5
24	Ultrahigh temperature vibration sensors using aluminum nitride thin films and W ¹⁰⁰ /Ru multilayer electrodes. Applied Physics Letters, 2005, 86, 022106.	3.3	7
25	Î ² -phase Formation Behavior of Homogeneous Fe ⁶⁴ Si Alloy Solidified in Short-Duration Microgravity. Japanese Journal of Applied Physics, 2004, 43, 4302-4305.	1.5	2
26	Synthesis of Homogeneous Materials by Splat Solidification in Short-Duration Microgravity. Key Engineering Materials, 2004, 264-268, 761-764.	0.4	2
27	Microstructure and magnetic properties of Sm ₂ Fe ₁₇ alloy prepared by unidirectional solidification in microgravity. Journal of Magnetism and Magnetic Materials, 2004, 269, 48-53.	2.3	2
28	Effect of Magnetic Field on the Crystalline Structure of Magnetostrictive TbFe ₂ Alloy Solidified Unidirectionally in Microgravity. Annals of the New York Academy of Sciences, 2004, 1027, 158-168.	3.8	3
29	Synthesis of Î ² -FeSi ₂ by Splat Solidification in Short-Duration Microgravity. Japanese Journal of Applied Physics, 2003, 42, 1690-1693.	1.5	3
30	Synthesis of Si ⁶⁸ Ge Alloy by Rapid Cooling in Short-Duration Microgravity. Japanese Journal of Applied Physics, 2002, 41, 749-753.	1.5	9
31	Special Issue Ceramics Integration. Preparation of Compositionally Graded TiN-AlN and TiN-SiN _x Films from Alkoxide Solutions by Liquid Injection Plasma CVD Method.. Journal of the Ceramic Society of Japan, 2002, 110, 444-449.	1.3	7
32	Synthesis of Tb _{0.3} Dy _{0.7} Fe _{1.9} magnetostrictive alloy by unidirectional solidification in magnetic field and microgravity. Journal of Magnetism and Magnetic Materials, 2002, 248, 230-235.	2.3	14
33	Unidirectional Solidification of Magnetostrictive Materials Using a Magnetic Field in Microgravity. Annals of the New York Academy of Sciences, 2002, 974, 79-86.	3.8	0
34	Unidirectional solidification of TbFe ₂ alloy using magnetic field in microgravity. Journal of Magnetism and Magnetic Materials, 2001, 234, 437-442.	2.3	14
35	Synthesis of silicon-based polymer films by excimer laser-induced photo-reaction of phenylsilane and methylphenylsilane. Applied Organometallic Chemistry, 2000, 14, 325-329.	3.5	1
36	Thermal conductivity measurement of liquid materials by a hot-disk method in short-duration microgravity environments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 276, 117-123.	5.6	37

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37	Thermal Conductivity Measurement of Molten Silicon by a Hot-Disk Method in Short-Duration Microgravity Environments. Japanese Journal of Applied Physics, 2000, 39, 1405-1408.	1.5	30
38	Synthesis of silicon-based polymerized films by excimer laser ablation deposition of hexaphenyldisilane. Journal of Materials Research, 1999, 14, 232-245.	2.6	5
39	Effect of target modification on deposition rates of hexaphenyldisilane by laser ablation. Applied Surface Science, 1999, 140, 90-98.	6.1	7
40	Properties of Poly(diphenylsilylenemethylene) Thin Films Fabricated with Fine Metal Particles. Chemistry of Materials, 1999, 11, 367-373.	6.7	5
41	Fabrication of Poly(diphenylsilylenemethylene) and Poly(diphenylsiloxane) Thin Films Using Fine Metal Particles. Chemistry of Materials, 1999, 11, 358-366.	6.7	12
42	Removal of Metallic Precipitates in Splat-Solidified CuInSe ₂ . Materials Transactions, JIM, 1999, 40, 1402-1407.	0.9	1
43	Microstructure of Splat-Solidified CuInSe ₂ . Materials Transactions, JIM, 1999, 40, 659-664.	0.9	1
44	Synthesis of silicon-based polymer films by UV laser ablation deposition of poly(methylphenylsilane). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 246, 36-44.	5.6	17
45	Synthesis and thermal stability of SiC-Si ₃ N ₄ composite ultrafine particles by laser-induced gas-phase reaction. Scripta Materialia, 1998, 10, 1173-1187.	0.5	11
46	New Synthesis Method of Poly(diphenylsilylenemethylene) Thin Films. Chemistry of Materials, 1998, 10, 2047-2049.	6.7	7
47	Light emission properties of poly(diphenylsilylenemethylene) and poly(diphenylsiloxane) by UV laser irradiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 49, 172-174.	3.5	9
48	SILICON-29 MAS-NMR AND ESR STUDY ON THE EFFECT OF HEAT TREATMENT ON THE STRUCTURE OF SiC-Si ₃ N ₄ COMPOSITE ULTRAFINE PARTICLES. Surface Review and Letters, 1996, 03, 85-89.	1.1	1
49	Development of stable supports consisting of SiC-Si composite for high temperature combustion catalysts. Catalysis Today, 1995, 26, 247-254.	4.4	5
50	Initial Precipitation Behavior of Aluminum Hydroxide Particles From Aluminum Salt Solution in the Presence of Sulfate Ion. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1993, 1993, 1091-1095.	0.1	0
51	Precipitation Behavior and Coalescence of Aluminium Hydroxide Particles from Aluminium Salt Solution in the Presence of Sulfate Ion. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1993, , 170-176.	0.1	0
52	Special Articles on Technology and Its Characterization for Synthesis of Inorganic Materials. Adsorption of Sulfate Ion on Aluminium Hydroxide. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1991, 1991, 1303-1305.	0.1	0
53	Synthesis of spinel powder by the homogeneous precipitation method. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1991, 1991, 275-280.	0.1	2
54	Effective-Time of Pulsed Photothermal Heating for Polycrystalline Nucleation of Perovskite Oxide Films from an Amorphous Matrix. Applied Physics Express, 0, 2, 023001.	2.4	31