

Hideaki Nagai

List of Publications by Year in descending order

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932
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times ranked

1212
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#	ARTICLE	IF	CITATIONS
1	Thermally conductive composite films of hexagonal boron nitride and polyimide with affinity-enhanced interfaces. <i>Journal of Materials Chemistry</i> , 2010, 20, 2749.	6.7	345
2	Crystal growth and structure refinement of monoclinic Li ₂ TiO ₃ . <i>Materials Research Bulletin</i> , 2009, 44, 168-172.	5.2	146
3	Epitaxial Growth Mechanism for Perovskite Oxide Thin Films under Pulsed Laser Irradiation in Chemical Solution Deposition Process. <i>Chemistry of Materials</i> , 2008, 20, 7344-7351.	6.7	65
4	Thermal conductivity measurement of liquid materials by a hot-disk method in short-duration microgravity environments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 276, 117-123.	5.6	37
5	Effective-Time of Pulsed Photothermal Heating for Polycrystalline Nucleation of Perovskite Oxide Films from an Amorphous Matrix. <i>Applied Physics Express</i> , 0, 2, 023001.	2.4	31
6	Thermal Conductivity Measurement of Molten Silicon by a Hot-Disk Method in Short-Duration Microgravity Environments. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 1405-1408.	1.5	30
7	A Thermoelectric Zintl Phase Na _{2+x} Ga _{2+x} Sn ₄ with Disordered Na Atoms in Helical Tunnels. <i>Advanced Materials</i> , 2015, 27, 4708-4713.	21.0	29
8	Synthesis of silicon-based polymer films by UV laser ablation deposition of poly(methylphenylsilane). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998, 246, 36-44.	5.6	17
9	Unidirectional solidification of TbFe ₂ alloy using magnetic field in microgravity. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 234, 437-442.	2.3	14
10	Synthesis of Tb _{0.3} Dy _{0.7} Fe _{1.9} magnetostrictive alloy by unidirectional solidification in magnetic field and microgravity. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 248, 230-235.	2.3	14
11	Characterization of Anisotropic and Irregularly-Shaped Materials by High-Sensitive Thermal Conductivity Measurements. <i>Solid State Phenomena</i> , 2007, 124-126, 1641-1644.	0.3	13
12	Fabrication of Poly(diphenylsilylenemethylene) and Poly(diphenylsiloxane) Thin Films Using Fine Metal Particles. <i>Chemistry of Materials</i> , 1999, 11, 358-366.	6.7	12
13	Synthesis and thermal stability of SiC-Si ₃ N ₄ composite ultrafine particles by laser-induced gas-phase reaction. <i>Scripta Materialia</i> , 1998, 10, 1173-1187.	0.5	11
14	Diamagnetic Anisotropy Detected by a Magnetic Oscillation in Drop Tube without Suspending Crystals with Fiber. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L124-L127.	1.5	11
15	Thermophysical properties of Zr-Cu-Al metallic glasses during crystallization. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 126-131.	3.1	11
16	Light emission properties of poly(diphenylsilylenemethylene) and poly(diphenylsiloxane) by UV laser irradiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997, 49, 172-174.	3.5	9
17	Synthesis of Si-Ge Alloy by Rapid Cooling in Short-Duration Microgravity. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 749-753.	1.5	9
18	Development of Hot-Disk Sensor for Molten Metal, and the Thermal Conductivity Measurement of Molten Bismuth and Tin using Hot-Disk Method. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 6455-6461.	1.5	9

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19	Thermoelectric n-type silicon germanium synthesized by unidirectional solidification in microgravity. <i>Journal of Alloys and Compounds</i> , 2013, 551, 607-615.	5.5	9
20	New Synthesis Method of Poly(diphenylsilylenemethylene) Thin Films. <i>Chemistry of Materials</i> , 1998, 10, 2047-2049.	6.7	7
21	Effect of target modification on deposition rates of hexaphenyldisilane by laser ablation. <i>Applied Surface Science</i> , 1999, 140, 90-98.	6.1	7
22	Special Issue Ceramics Integration. Preparation of Compositionally Graded TiN-AlN and TiN-SiNx Films from Alkoxide Solutions by Liquid Injection Plasma CVD Method.. <i>Journal of the Ceramic Society of Japan</i> , 2002, 110, 444-449.	1.3	7
23	Ultrahigh temperature vibration sensors using aluminum nitride thin films and Wâ•Ru multilayer electrodes. <i>Applied Physics Letters</i> , 2005, 86, 022106.	3.3	7
24	Ion-exchange synthesis and improved Li insertion property of lithiated $H_{2}Ti_{12}O_{25}$ as a negative electrode material for lithium-ion batteries. <i>Journal of Asian Ceramic Societies</i> , 2016, 4, 75-80.	2.3	7
25	Development of stable supports consisting of SiC—Si composite for high temperature combustion catalysts. <i>Catalysis Today</i> , 1995, 26, 247-254.	4.4	5
26	Synthesis of silicon-based polymerized films by excimer laser ablation deposition of hexaphenyldisilane. <i>Journal of Materials Research</i> , 1999, 14, 232-245.	2.6	5
27	Properties of Poly(diphenylsilylenemethylene) Thin Films Fabricated with Fine Metal Particles. <i>Chemistry of Materials</i> , 1999, 11, 367-373.	6.7	5
28	Effect of magnetic field on metallurgical structure of magnetostrictive alloys solidified unidirectionally in microgravity. <i>Microgravity Science and Technology</i> , 2005, 16, 84-88.	1.4	5
29	Amorphous film thickness dependence for epitaxy of perovskite oxide films under excimer laser irradiation. <i>Applied Surface Science</i> , 2009, 255, 9775-9778.	6.1	5
30	Visualization Study of Growth of Spherical Bubble in He II Boiling under Microgravity Condition. <i>Physics Procedia</i> , 2015, 67, 591-595.	1.2	5
31	Thermoelectric Properties of Na ₂ ZnSn ₅ Dimorphs with Na Atoms Disordered in Tunnels. <i>Chemistry of Materials</i> , 2017, 29, 859-866.	6.7	5
32	Thermal Conductivity Measurement of Molten Indium Antimonide Using Hot-Disk Method in Short-Duration Microgravity. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7920-7924.	1.5	4
33	Electrochemical Property of Particle-size Controlled $H_{2}Ti_{12}O_{25}$ as a Negative Electrode Material for Lithium-ion Battery. <i>Electrochemistry</i> , 2015, 83, 834-836.	1.4	4
34	Synthesis of \hat{I}^2 -FeSi ₂ by Splat Solidification in Short-Duration Microgravity. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 1690-1693.	1.5	3
35	Effect of Magnetic Field on the Crystalline Structure of Magnetostrictive TbFe ₂ Alloy Solidified Unidirectionally in Microgravity. <i>Annals of the New York Academy of Sciences</i> , 2004, 1027, 158-168.	3.8	3
36	Synthesis of High-performance Magnetostrictive Tb _{0.3} Dy _{0.7} Fe ₂ by Unidirectional Solidification in Microgravity. <i>Annals of the New York Academy of Sciences</i> , 2009, 1161, 437-451.	3.8	3

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37	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
38	β -phase Formation Behavior of Homogeneous Fe-Si Alloy Solidified in Short-Duration Microgravity. Japanese Journal of Applied Physics, 2004, 43, 4302-4305.	1.5	2
39	Synthesis of Homogeneous Materials by Splat Solidification in Short-Duration Microgravity. Key Engineering Materials, 2004, 264-268, 761-764.	0.4	2
40	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
41	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
42	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
43	Synthesis of H ₂ Ti ₁₂ O ₂₅ with anisotropic morphology by impregnation of Na ₂ CO ₃ solution into porous titanium hydroxide. Journal of the Ceramic Society of Japan, 2017, 125, 686-689.	1.1	2
44	Synthesis of H ₂ Ti ₁₂ 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
45	Synthesis Method and Electrochemical Properties of H ₂ Ti ₁₂ O ₂₅ from Cubic Li ₂ TiO ₃ for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 110517.	2.9	2
46	SILICON-29 MAS-NMR AND ESR STUDY ON THE EFFECT OF HEAT TREATMENT ON THE STRUCTURE OF SiCa-Si ₃ N ₄ COMPOSITE ULTRAFINE PARTICLES. Surface Review and Letters, 1996, 03, 85-89.	1.1	1
47	Removal of Metallic Precipitates in Splat-Solidified CuInSe ₂ . Materials Transactions, JIM, 1999, 40, 1402-1407.	0.9	1
48	Microstructure of Splat-Solidified CuInSe ₂ . Materials Transactions, JIM, 1999, 40, 659-664.	0.9	1
49	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
50	Field-Induced Translation of Single Ferromagnetic and Ferrimagnetic Grain as Observed in the Chamber-type β -G System. Journal of Magnetism, 2013, 18, 308-310.	0.4	1
51	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
52	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
53	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
54	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