Manabu Ishimaru

List of Publications by Year
in descending order

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57	1,010	430754	434063
papers	citations	18 h-index	31 g-index

57	57	57	959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generation of amorphous silicon structures by rapid quenching:â€ƒA molecular-dynamics study. Physical Review B, 1997, 56, 15133-15138.	1.1	133
2	Structural Relaxation of Amorphous Silicon Carbide. Physical Review Letters, 2002, 89, 055502.	2.9	126
3	Atomic rearrangements in amorphous Al2O3 under electron-beam irradiation. Journal of Applied Physics, 2013, 113, .	1.1	64
4	Local structure analysis of Ge-Sb-Te phase change materials using high-resolution electron microscopy and nanobeam diffraction. Journal of Applied Physics, 2004, 95, 8130-8135.	1.1	45
5	Application of nano-diffraction to local atomic distribution function analysis of amorphous materials. Journal of Electron Microscopy, 2001, 50, 435-442.	0.9	44
6	Volume swelling of amorphous SiC during ion-beam irradiation. Physical Review B, 2005, 72, .	1.1	43
7	Electron-beam radial distribution analysis of irradiation-induced amorphous SiC. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 309-314.	0.6	40
8	Direct observations of thermally induced structural changes in amorphous silicon carbide. Journal of Applied Physics, 2008, 104, .	1.1	39
9	Molecular dynamics study of structural and dynamical properties of amorphous Si-Ge alloys. Physical Review B, 2003, 68, .	1.1	33
10	Carrier and heat transport properties of polycrystalline GeSn films on SiO2. Applied Physics Letters, 2015, 107, .	1.5	33
11	Helium Irradiation and Implantation Effects on the Structure of Amorphous Silicon Oxycarbide. Scientific Reports, 2017, 7, 3900.	1.6	28
12	Thermoelectric Property in Orthorhombic-Domained SnSe Film. ACS Applied Materials & Interfaces, 2019, 11, 27057-27063.	4.0	28
13	Chalcopyrite ZnSnSb₂: A Promising Thermoelectric Material. ACS Applied Materials & Interfaces, 2018, 10, 43682-43690.	4.0	22
14	Nanovoid formation through the annealing of amorphous Al2O3 and WO3 films. Scripta Materialia, 2011, 64, 197-200.	2.6	21
15	Behavior of Sn atoms in GeSn thin films during thermal annealing: Ex-situ and in-situ observations. Journal of Applied Physics, 2016, 120, .	1.1	21
16	Pin potential effect on vortex pinning in YBa2Cu3O7-Î´ films containing nanorods: Pin size effect and mixed pinning. Applied Physics Letters, 2017, 110, .	1.5	21
17	Crystallization of sputter-deposited amorphous Ge films by electron irradiation: Effect of low-flux pre-irradiation. Journal of Applied Physics, 2016, 120, .	1.1	20
18	Structural transition in sputter-deposited amorphous germanium films by aging at ambient temperature. Journal of Applied Physics, 2016, 119, 214309.	1.1	19

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19	Enhancement of Thermoelectric Properties of n-Type Bi₂Te_{3â€“x}Se_x by Energy Filtering Effect. ACS Applied Energy Materials, 2021, 4, 11819-11826.	2.5	18
20	Transmission electron microscopy studies of crystal-to-amorphous transition in ion implanted silicon. Journal of Applied Physics, 1997, 81, 1126-1130.	1.1	16
21	Ion beam induced epitaxial crystallization of Î±-Al2O3 at room temperature. Nuclear Instruments & Methods in Physics Research B, 2014, 321, 8-13.	0.6	15
22	Enhancement of nanovoid formation in annealed amorphous Al2O3 including W. Journal of Applied Physics, 2011, 110, 064324.	1.1	13
23	Proton-Driven Intercalation and Ion Substitution Utilizing Solid-State Electrochemical Reaction. Journal of the American Chemical Society, 2017, 139, 17987-17993.	6.6	13
24	Corundum-to-spinel structural phase transformation in alumina. Nuclear Instruments & Methods in Physics Research B, 2015, 358, 136-141.	0.6	12
25	Thermal crystallization of sputter-deposited amorphous Ge films: Competition of diamond cubic and hexagonal phases. AIP Advances, 2016, 6, 125035.	0.6	12
26	Discovery of the Pt-Based Superconductor LaPt₅As. Journal of the American Chemical Society, 2016, 138, 9927-9934.	6.6	11
27	Direct observations of crystallization processes of amorphous GeSn during thermal annealing: A temperature window for suppressing Sn segregation. Journal of Applied Physics, 2019, 125, .	1.1	11
28	Carrier and heat transport properties of poly-crystalline GeSn films for thin-film transistor applications. Journal of Applied Physics, 2019, 126, .	1.1	10
29	Nonlocal self-organization of long stacking faults from highly strained nanocomposite film of complex oxide. Physical Review Materials, 2019, 3, .	0.9	9
30	Dual crystallization modes of sputter-deposited amorphous SiGe films. Journal of Applied Physics, 2020, 128, 015303.	1.1	8
31	Formation of highly oriented nanopores via crystallization of amorphous Nb2O5 and Ta2O5. Journal of Applied Physics, 2013, 114, 124308.	1.1	7
32	Low-temperature synthesis of crystalline GeSn with high Sn concentration by electron excitation effect. Japanese Journal of Applied Physics, 2017, 56, 100307.	0.8	7
33	Liquid-mediated crystallization of amorphous GeSn under electron beam irradiation. Journal of Applied Physics, 2020, 127, 205304.	1.1	7
34	Thermoelectric Property of n-Type Bismuth-Doped SnSe Film: Influence of Characteristic Film Defect. ACS Applied Energy Materials, 2021, 4, 9563-9571.	2.5	7
35	Structure of crystallized particles in sputter-deposited amorphous germanium films. Journal of Applied Crystallography, 2018, 51, 1467-1473.	1.9	7
36	Nanostructures and flux pinning properties in YBa2Cu3O7â^'y thin films with double perovskite Ba2LuNbO6 nanorods. Journal of Applied Physics, 2021, 129, 195301.	1.1	5

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37	Simultaneous achievement of high J _c and suppressed J _c anisotropy by hybrid pinning in YBa₂Cu₃O₇ three-phase-nanocomposite film. Superconductor Science and Technology, 2020, 33, 105003.	1.8	5
38	Electron diffraction radial distribution function analysis of amorphous boron carbide synthesized by ion beam irradiation and chemical vapor deposition. Journal of the European Ceramic Society, 2022, 42, 376-382.	2.8	5
39	Stability of amorphous Taâ€“O nanotubes prepared by anodization: Thermal and structural analyses. Journal of Materials Research, 2014, 29, 753-760.	1.2	4
40	Molecular-dynamics simulations of solid phase epitaxy in silicon: Effects of system size, simulation time, and ensemble. Japanese Journal of Applied Physics, 2018, 57, 095503.	0.8	4
41	Dual-Beam Irradiation Stability of Amorphous Silicon Oxycarbide at 300Â°C and 500Â°C. Jom, 2020, 72, 4002-4007.	0.9	4
42	Explosive crystallization of sputter-deposited amorphous germanium films by irradiation with an electron beam of SEM-level energies. Journal of Applied Physics, 2021, 129, .	1.1	4
43	Molecular Dynamics Study on Structural Relaxation Processes in Amorphous Germanium. Materials Transactions, 2017, 58, 857-861.	0.4	4
44	Review of â€œ12th Japanese-Polish Joint Seminar on Micro and Nano Analysis (August 29â€“September 1,) Tj ETQq0 0 0 rgBT /Overlock	0.4	3
45	Self-Organized Nanocomposite Structure Controlled by Elemental Site Occupancy to Improve Vortex Pinning in YBa₂Cu₃O₇ Superconducting Films. ACS Applied Electronic Materials, 2022, 4, 3018-3026.	2.0	3
46	Deposition-Temperature Dependence of Vortex Pinning Property in YBa₂Cu₃O₇+BaHfO₃ Films. Materials Transactions, 2020, 61, 449-454.	0.4	2
47	Crystallization Processes of Amorphous GeSn Thin Films by Heat Treatment and Electron Beam Irradiation. Microscopy and Microanalysis, 2017, 23, 2046-2047.	0.2	1
48	PM-07 Structure Characterization of Bi-Doped SnSe Thin Films Fabricated by Pulse Laser Deposition. Microscopy (Oxford, England), 2019, 68, i38-i38.	0.7	1
49	Deposition-Temperature Dependence of Vortex Pinning Property in YBa₂Cu₃O₇+BaHfO₃ Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 320-326.	0.2	1
50	Preparation of Amorphous Fe-B Films by Sputtering and Their Structure Analysed by Transmission Electron Microscopy. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 1017-1021.	0.1	1
51	Molecular Dynamics Simulations of Crystal Growth from Melted silicon: Defect Formation Processes. Materials Research Society Symposia Proceedings, 1998, 538, 247.	0.1	0
52	Molecular Dynamics Study on Structural Relaxation Processes in Amorphous Germanium. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2017, 81, 66-70.	0.2	0
53	Formation of metastable phases in Zr-ion-irradiated Al2O3 upon thermal annealing. Journal of Electron Microscopy, 2017, 66, 388-396.	0.9	0
54	Low Temperature Crystallization of Amorphous Materials by Electron Excitation Effects. Nihon Kessho Gakkaishi, 2019, 61, 29-34.	0.0	0

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55	Effects of hydrogen on structure and crystallization behavior of sputter-deposited amorphous germanium films. Japanese Journal of Applied Physics, 2020, 59, 075506.	0.8	0
56	Behavior of Sn Atoms During Crystallization of Amorphous GeSn. Materia Japan, 2020, 59, 662-668.	0.1	0
57	Aligned Self-Organization Induced by Epitaxial Stress and Shear Deformation in Jahnâ€“Teller Spinel ZnMnGaO4. Journal of Physical Chemistry C, 0, , .	1.5	0