

Manabu Ishimaru

List of Publications by Year in descending order

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papers

1,010
citations

430754

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all docs

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docs citations

57
times ranked

959
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron diffraction radial distribution function analysis of amorphous boron carbide synthesized by ion beam irradiation and chemical vapor deposition. <i>Journal of the European Ceramic Society</i> , 2022, 42, 376-382.	2.8	5
2	Self-Organized Nanocomposite Structure Controlled by Elemental Site Occupancy to Improve Vortex Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Superconducting Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3018-3026.	2.0	3
3	Nanostructures and flux pinning properties in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films with double perovskite $\text{Ba}_2\text{LuNbO}_6$ nanorods. <i>Journal of Applied Physics</i> , 2021, 129, 195301.	1.1	5
4	Explosive crystallization of sputter-deposited amorphous germanium films by irradiation with an electron beam of SEM-level energies. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	4
5	Thermoelectric Property of n-Type Bismuth-Doped SnSe Film: Influence of Characteristic Film Defect. <i>ACS Applied Energy Materials</i> , 2021, 4, 9563-9571.	2.5	7
6	Review of 12th Japanese-Polish Joint Seminar on Micro and Nano Analysis (August 29–September 1,) Tj ETQq0,0 0 rgBj /Overlock	0.4	3
7	Enhancement of Thermoelectric Properties of n-Type Bi_2Te_3 by Energy Filtering Effect. <i>ACS Applied Energy Materials</i> , 2021, 4, 11819-11826.	2.5	18
8	Effects of hydrogen on structure and crystallization behavior of sputter-deposited amorphous germanium films. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 075506.	0.8	0
9	Dual-Beam Irradiation Stability of Amorphous Silicon Oxycarbide at 300°C and 500°C. <i>Jom</i> , 2020, 72, 4002-4007.	0.9	4
10	Deposition-Temperature Dependence of Vortex Pinning Property in $\text{YBa}_2\text{Cu}_3\text{O}_7 + \text{BaHfO}_3$ Films. <i>Materials Transactions</i> , 2020, 61, 449-454.	0.4	2
11	Liquid-mediated crystallization of amorphous GeSn under electron beam irradiation. <i>Journal of Applied Physics</i> , 2020, 127, 205304.	1.1	7
12	Dual crystallization modes of sputter-deposited amorphous SiGe films. <i>Journal of Applied Physics</i> , 2020, 128, 015303.	1.1	8
13	Simultaneous achievement of high J_c and suppressed J_c anisotropy by hybrid pinning in $\text{YBa}_2\text{Cu}_3\text{O}_7$ three-phase-nanocomposite film. <i>Superconductor Science and Technology</i> , 2020, 33, 105003.	1.8	5
14	Behavior of Sn Atoms During Crystallization of Amorphous GeSn. <i>Materia Japan</i> , 2020, 59, 662-668.	0.1	0
15	Thermoelectric Property in Orthorhombic-Domained SnSe Film. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27057-27063.	4.0	28
16	Carrier and heat transport properties of poly-crystalline GeSn films for thin-film transistor applications. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	10
17	Low Temperature Crystallization of Amorphous Materials by Electron Excitation Effects. <i>Nihon Kessho Gakkaishi</i> , 2019, 61, 29-34.	0.0	0
18	Direct observations of crystallization processes of amorphous GeSn during thermal annealing: A temperature window for suppressing Sn segregation. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	11

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19	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
20	Nonlocal self-organization of long stacking faults from highly strained nanocomposite film of complex oxide. Physical Review Materials, 2019, 3, .	0.9	9
21	Deposition-Temperature Dependence of Vortex Pinning Property in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x} + \text{BaHfO}_3$ Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 320-326.	0.2	1
22	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
23	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
24	Chalcopyrite ZnSnSb_2 : A Promising Thermoelectric Material. ACS Applied Materials & Interfaces, 2018, 10, 43682-43690.	4.0	22
25	Structure of crystallized particles in sputter-deposited amorphous germanium films. Journal of Applied Crystallography, 2018, 51, 1467-1473.	1.9	7
26	Pin potential effect on vortex pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films containing nanorods: Pin size effect and mixed pinning. Applied Physics Letters, 2017, 110, .	1.5	21
27	Proton-Driven Intercalation and Ion Substitution Utilizing Solid-State Electrochemical Reaction. Journal of the American Chemical Society, 2017, 139, 17987-17993.	6.6	13
28	Helium Irradiation and Implantation Effects on the Structure of Amorphous Silicon Oxycarbide. Scientific Reports, 2017, 7, 3900.	1.6	28
29	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
30	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
31	Crystallization Processes of Amorphous GeSn Thin Films by Heat Treatment and Electron Beam Irradiation. Microscopy and Microanalysis, 2017, 23, 2046-2047.	0.2	1
32	Formation of metastable phases in Zr-ion-irradiated Al_2O_3 upon thermal annealing. Journal of Electron Microscopy, 2017, 66, 388-396.	0.9	0
33	Molecular Dynamics Study on Structural Relaxation Processes in Amorphous Germanium. Materials Transactions, 2017, 58, 857-861.	0.4	4
34	Behavior of Sn atoms in GeSn thin films during thermal annealing: <i>Ex-situ</i> and <i>in-situ</i> observations. Journal of Applied Physics, 2016, 120, .	1.1	21
35	Thermal crystallization of sputter-deposited amorphous Ge films: Competition of diamond cubic and hexagonal phases. AIP Advances, 2016, 6, 125035.	0.6	12
36	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

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37	Discovery of the Pt-Based Superconductor LaPt ₅ As. Journal of the American Chemical Society, 2016, 138, 9927-9934.	6.6	11
38	Structural transition in sputter-deposited amorphous germanium films by aging at ambient temperature. Journal of Applied Physics, 2016, 119, 214309.	1.1	19
39	Carrier and heat transport properties of polycrystalline GeSn films on SiO ₂ . Applied Physics Letters, 2015, 107, .	1.5	33
40	Corundum-to-spinel structural phase transformation in alumina. Nuclear Instruments & Methods in Physics Research B, 2015, 358, 136-141.	0.6	12
41	Stability of amorphous TaO nanotubes prepared by anodization: Thermal and structural analyses. Journal of Materials Research, 2014, 29, 753-760.	1.2	4
42	Ion beam induced epitaxial crystallization of $\hat{\Gamma}$ -Al ₂ O ₃ at room temperature. Nuclear Instruments & Methods in Physics Research B, 2014, 321, 8-13.	0.6	15
43	Atomic rearrangements in amorphous Al ₂ O ₃ under electron-beam irradiation. Journal of Applied Physics, 2013, 113, .	1.1	64
44	Formation of highly oriented nanopores via crystallization of amorphous Nb ₂ O ₅ and Ta ₂ O ₅ . Journal of Applied Physics, 2013, 114, 124308.	1.1	7
45	Enhancement of nanovoid formation in annealed amorphous Al ₂ O ₃ including W. Journal of Applied Physics, 2011, 110, 064324.	1.1	13
46	Nanovoid formation through the annealing of amorphous Al ₂ O ₃ and WO ₃ films. Scripta Materialia, 2011, 64, 197-200.	2.6	21
47	Direct observations of thermally induced structural changes in amorphous silicon carbide. Journal of Applied Physics, 2008, 104, .	1.1	39
48	Electron-beam radial distribution analysis of irradiation-induced amorphous SiC. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 309-314.	0.6	40
49	Volume swelling of amorphous SiC during ion-beam irradiation. Physical Review B, 2005, 72, .	1.1	43
50	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
51	Molecular dynamics study of structural and dynamical properties of amorphous Si-Ge alloys. Physical Review B, 2003, 68, .	1.1	33
52	Structural Relaxation of Amorphous Silicon Carbide. Physical Review Letters, 2002, 89, 055502.	2.9	126
53	Application of nano-diffraction to local atomic distribution function analysis of amorphous materials. Journal of Electron Microscopy, 2001, 50, 435-442.	0.9	44
54	Molecular Dynamics Simulations of Crystal Growth from Melted silicon: Defect Formation Processes. Materials Research Society Symposia Proceedings, 1998, 538, 247.	0.1	0

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55	Transmission electron microscopy studies of crystal-to-amorphous transition in ion implanted silicon. Journal of Applied Physics, 1997, 81, 1126-1130.	1.1	16
56	Generation of amorphous silicon structures by rapid quenching: A molecular-dynamics study. Physical Review B, 1997, 56, 15133-15138.	1.1	133
57	Aligned Self-Organization Induced by Epitaxial Stress and Shear Deformation in Jahn-Teller Spinel ZnMnGaO ₄ . Journal of Physical Chemistry C, 0, , .	1.5	0