

Kohei Morishita

List of Publications by Year in descending order

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59
papers

884
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430442

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59
all docs

59
docs citations

59
times ranked

461
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation mechanism of dislocations during directional solidification of multicrystalline silicon using artificially designed seed. <i>Journal of Crystal Growth</i> , 2010, 312, 897-901.	0.7	96
2	Dendrite fragmentation induced by massive-like $\gamma \rightarrow \beta$ transformation in Fe-C alloys. <i>Nature Communications</i> , 2019, 10, 3183.	5.8	65
3	Ultra light-weight and high-resolution X-ray mirrors using DRIE and X-ray LIGA techniques for space X-ray telescopes. <i>Microsystem Technologies</i> , 2010, 16, 1633-1641.	1.2	49
4	Arrangement of dendrite crystals grown along the bottom of Si ingots using the dendritic casting method by controlling thermal conductivity under crucibles. <i>Journal of Crystal Growth</i> , 2011, 319, 13-18.	0.7	46
5	Fracture Toughness of a Crystalline Silicon Carbide Fiber (Tyranno-SA3R). <i>Journal of the American Ceramic Society</i> , 2006, 89, 2571-2576.	1.9	43
6	Growth of multicrystalline Si ingots using noncontact crucible method for reduction of stress. <i>Journal of Crystal Growth</i> , 2012, 344, 6-11.	0.7	42
7	Growth of high-quality multicrystalline Si ingots using noncontact crucible method. <i>Journal of Crystal Growth</i> , 2012, 355, 38-45.	0.7	34
8	Minority-carrier lifetime and defect content of n-type silicon grown by the noncontact crucible method. <i>Journal of Crystal Growth</i> , 2014, 407, 31-36.	0.7	29
9	Formation mechanism of twin boundaries during crystal growth of silicon. <i>Scripta Materialia</i> , 2011, 65, 556-559.	2.6	27
10	Growth of square Si single bulk crystals with large side-face widths using noncontact crucible method. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 025501.	0.8	27
11	Growth of Si single bulk crystals with low oxygen concentrations by the noncontact crucible method using silica crucibles without Si ₃ N ₄ coating. <i>Journal of Crystal Growth</i> , 2013, 372, 121-128.	0.7	26
12	Generation mechanism of dislocations and their clusters in multicrystalline silicon during two-dimensional growth. <i>Journal of Applied Physics</i> , 2011, 110, 083530.	1.1	23
13	High-speed growth of Si single bulk crystals by expanding low-temperature region in Si melt using noncontact crucible method. <i>Journal of Crystal Growth</i> , 2014, 405, 44-51.	0.7	23
14	Characterization of Growing Dendrites in CrMnFeCoNi High-Entropy Alloy by Time-Resolved and <i>In-Situ</i> Tomography. <i>Materials Transactions</i> , 2020, 61, 596-604.	0.4	22
15	Large-aperture focusing of x rays with micropore optics using dry etching of silicon wafers. <i>Optics Letters</i> , 2012, 37, 779.	1.7	21
16	Formation process of Si ₃ N ₄ particles on surface of Si ingots grown using silica crucibles with Si ₃ N ₄ coating by noncontact crucible method. <i>Journal of Crystal Growth</i> , 2014, 389, 112-119.	0.7	20
17	Shape and quality of Si single bulk crystals grown inside Si melts using the noncontact crucible method. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 015504.	0.8	20
18	Identification of lifetime limiting defects by temperature- and injection-dependent photoluminescence imaging. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	20

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19	In situ strain measurements of Bi2223 superconducting filaments in multifilamentary Ag-sheathed Bi2223 superconducting tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 411, 114-119.	0.6	17
20	Optical Image Analysis of the Novel Ultra-Lightweight and High-Resolution MEMS X-Ray Optics. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 1309-1312.	1.0	16
21	Computational Investigation of Relationship between Shear Stress and Multicrystalline Structure in Silicon. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DP01.	0.8	16
22	Novel ultra-lightweight and high-resolution MEMS X-ray optics for space astronomy. <i>Sensors and Actuators A: Physical</i> , 2012, 188, 411-416.	2.0	16
23	Time-resolved and <i>in-situ</i> Observation of $\hat{\Gamma}$ - $\hat{\Gamma}^3$ Transformation during Unidirectional Solidification in Fe-C Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019, 105, 290-298.	0.1	14
24	Degradation Mechanism of Amorphous Silicon Carbide Fiber due to Air-Exposure at High Temperatures. <i>Materials Transactions</i> , 2007, 48, 111-116.	0.4	13
25	Selection of the Massive-like $\hat{\Gamma}$ - $\hat{\Gamma}^3$ Transformation due to Nucleation of Metastable $\hat{\Gamma}$ Phase in Fe-18 Mass%Cr-Ni Alloys with Ni Contents of 8, 11, 14 and 20 Mass%. <i>ISIJ International</i> , 2019, 59, 459-465.	0.6	13
26	<i>in-situ</i> Measurements of Solute Partition Coefficients between Solid and Liquid Phases in Fe-Cr-Ni-Mo-Cu Alloys during Solidification. <i>ISIJ International</i> , 2020, 60, 276-285.	0.6	13
27	Transformation from Ferrite to Austenite during/after Solidification in Peritectic Steel Systems: an X-ray Imaging Study. <i>ISIJ International</i> , 2020, 60, 2755-2764.	0.6	12
28	Investigation using 4D-CT of massive-like transformation from the $\hat{\Gamma}$ to $\hat{\Gamma}^3$ phase during and after $\hat{\Gamma}$ -solidification in carbon steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 529, 012013.	0.3	11
29	Novel ultra-lightweight and high-resolution MEMS x-ray optics. <i>Proceedings of SPIE</i> , 2009, , .	0.8	9
30	First X-ray imaging with a micromachined Wolter type-I telescope. <i>Microsystem Technologies</i> , 2017, 23, 1101-1116.	1.2	9
31	Point-focusing monochromator crystal realized by hot plastic deformation of a Ge wafer. <i>Journal of Applied Crystallography</i> , 2008, 41, 798-799.	1.9	8
32	Near-Net Shaping of Single-Crystal Silicon for Optical Lens by One-Shot Pressing at Temperature Just below Silicon Melting Point and Its Demonstration of Optical Properties. <i>Applied Physics Express</i> , 2011, 4, 106501.	1.1	8
33	Assessment of strain of Bi2223 filaments in bent Ag-sheathed superconducting composites by synchrotron radiation. <i>Scripta Materialia</i> , 2008, 58, 687-690.	2.6	7
34	Fracture behavior and fracture toughness of pitch-based carbon fiber with an artificial notch introduced by a focused ion beam. <i>Composite Interfaces</i> , 2014, 21, 265-279.	1.3	7
35	Systematic studies of Si and Ge hemispherical concave wafers prepared by plastic deformation. <i>Journal of Crystal Growth</i> , 2009, 311, 4587-4592.	0.7	6
36	Shaped silicon wafers obtained by hot plastic deformation: performance evaluation for future astronomical x-ray telescopes. <i>Applied Optics</i> , 2009, 48, 3830.	2.1	6

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37	One-shot spectrometer for several elements using an integrated conical crystal analyzer. Review of Scientific Instruments, 2012, 83, 013112.	0.6	6
38	Exceeding 3 ms Minority Carrier Lifetime in n-type Non-contact Crucible Silicon. Energy Procedia, 2016, 92, 779-784.	1.8	6
39	<i>In-situ</i> Measurement of Solute Partition Coefficient in Fe-Cr-Ni-Mo Alloys by Using X-ray Imaging and X-ray Florescence Analysis. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 678-687.	0.1	6
40	Time Evolution of Solidification Structure in Ductile Cast Iron with Hypereutectic Compositions. International Journal of Metalcasting, 2020, 14, 794-801.	1.5	5
41	Time-resolved and <i>In-situ</i> Observation of δ-β Transformation during Unidirectional Solidification in Fe-C Alloys. ISIJ International, 2020, 60, 930-938.	0.6	5
42	Realization of a High-Performance Point-Focusing Monochromator for X-ray Studies. Applied Physics Express, 2010, 3, 046601.	1.1	4
43	Monte Carlo-shear lag simulation for fracture behavior of Bi2223 superconducting monofilament and its influence on critical current. Physica C: Superconductivity and Its Applications, 2006, 445-448, 756-761.	0.6	3
44	MEMS-based X-ray optics for astronomy, planetary exploration, and earth observation. , 2014, , .		3
45	Evaluation of alignment error of micropore X-ray optics caused by hot plastic deformation. Japanese Journal of Applied Physics, 2018, 57, 06HJ11.	0.8	3
46	Quest and Evaluation of Topcoat Materials for Environmental Barrier Coatings of SiC/SiC Composites. Key Engineering Materials, 2006, 317-318, 549-552.	0.4	2
47	Estimation of Fracture Toughness of SiC Fiber and Statistical Analysis of Change in Fracture Strength Distribution with Notch Size. Materials Transactions, 2013, 54, 1916-1924.	0.4	2
48	Erratum to "Selection of the Massive-like δ-β Transformation due to Nucleation of Metastable δ Phase in Fe-18 Mass%Cr-Ni Alloys with Ni Contents of 8, 11, 14 and 20 Mass%" [ISIJ International, Vol. 59 (2019), No. 3, pp. 459-465]. ISIJ International, 2021, 61, 1053-1053.	0.6	2
49	Growth of multicrystalline Si ingots for solar cells using noncontact crucible method without touching the crucible wall. , 2012, , .		1
50	>1.8 millisecond effective lifetime in n-type silicon grown by the noncontact crucible method. , 2014, , .		1
51	X-ray evaluation of high-verticality sidewalls fabricated by deep reactive ion etching. Japanese Journal of Applied Physics, 2017, 56, 06GN04.	0.8	1
52	Degradation Mechanism of Polycrystalline Silicon Carbide Fiber due to Air-Exposure at High Temperatures. Materials Science Forum, 0, 706-709, 671-676.	0.3	0
53	Assembly of a MEMS-based Wolter type-I x-ray optic. , 2012, , .		0
54	MEMS-based novel X-ray optics for future astronomical missions. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Growth of Si single bulk crystals inside Si melts by the noncontact crucible method using silica crucibles without coating Si₃N₄ particles. , 2013, , .		0
56	Assembly of a MEMS-based Wolter type-I X-ray optic toward a future planetary exploration mission. , 2013, , .		0
57	X-ray irradiation test of a MEMS-based X-ray optic. , 2014, , .		0
58	High speed growth of square-like Si single bulk crystals with a size of 23 × 23 cm² for solar cells using the noncontact crucible method. , 2014, , .		0
59	Near-Net Shaping of Silicon for Optical Lens by One-Shot Pressing at Temperature just below Silicon Melting Point and Improvement of Infrared Transmittance by Primary Recrystallization. Materials Science Forum, 0, 783-786, 2474-2479.	0.3	0