

Kohei Morishita

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Erratum to "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% [ISIJ International, Vol. 59 (2019), No. 3, pp. 459-465]. ISIJ International, 2021, 61, 1053-1053.	0.6	2
2	Characterization of Growing Dendrites in CrMnFeCoNi High-Entropy Alloy by Time-Resolved and $\hat{\gamma}$ -In-Situ $\hat{\gamma}$ -Tomography. Materials Transactions, 2020, 61, 596-604.	0.4	22
3	Time Evolution of Solidification Structure in Ductile Cast Iron with Hypereutectic Compositions. International Journal of Metalcasting, 2020, 14, 794-801.	1.5	5
4	Time-resolved and $\hat{\gamma}$ -In-situ Observation of $\hat{\gamma}$ - $\hat{\gamma}^3$ Transformation during Unidirectional Solidification in Fe-C Alloys. ISIJ International, 2020, 60, 930-938.	0.6	5
5	$\hat{\gamma}$ -In-situ Measurements of Solute Partition Coefficients between Solid and Liquid Phases in Fe-Cr-Ni-Mo-Cu Alloys during Solidification. ISIJ International, 2020, 60, 276-285.	0.6	13
6	Transformation from Ferrite to Austenite during/after Solidification in Peritectic Steel Systems: an X-ray Imaging Study. ISIJ International, 2020, 60, 2755-2764.	0.6	12
7	Dendrite fragmentation induced by massive-like $\hat{\gamma}$ transformation in Fe-C alloys. Nature Communications, 2019, 10, 3183.	5.8	65
8	Time-resolved and $\hat{\gamma}$ -In-situ Observation of $\hat{\gamma}$ - $\hat{\gamma}^3$ Transformation during Unidirectional Solidification in Fe-C Alloys. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 290-298.	0.1	14
9	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. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012013.	0.3	11
10	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%. ISIJ International, 2019, 59, 459-465.	0.6	13
11	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
12	First X-ray imaging with a micromachined Wolter type-I telescope. Microsystem Technologies, 2017, 23, 1101-1116.	1.2	9
13	X-ray evaluation of high-verticality sidewalls fabricated by deep reactive ion etching. Japanese Journal of Applied Physics, 2017, 56, 06GN04.	0.8	1
14	$\hat{\gamma}$ -In-situ 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
15	Identification of lifetime limiting defects by temperature- and injection-dependent photoluminescence imaging. Journal of Applied Physics, 2016, 120, .	1.1	20
16	Exceeding 3 ms Minority Carrier Lifetime in $\hat{\gamma}$ -type Non-contact Crucible Silicon. Energy Procedia, 2016, 92, 779-784.	1.8	6
17	Shape and quality of Si single bulk crystals grown inside Si melts using the noncontact crucible method. Japanese Journal of Applied Physics, 2015, 54, 015504.	0.8	20
18	X-ray irradiation test of a MEMS-based X-ray optic. , 2014, , .		0

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19	MEMS-based X-ray optics for astronomy, planetary exploration, and earth observation. , 2014, , .		3
20	High speed growth of square-like Si single bulk crystals with a size of $23 \times 23 \text{ cm}^2$ for solar cells using the noncontact crucible method. , 2014, , .		0
21	1.8×10^{-6} second effective lifetime in n-type silicon grown by the noncontact crucible method. , 2014, , .		1
22	Growth of square Si single bulk crystals with large side-face widths using noncontact crucible method. Japanese Journal of Applied Physics, 2014, 53, 025501.	0.8	27
23	Minority-carrier lifetime and defect content of n-type silicon grown by the noncontact crucible method. Journal of Crystal Growth, 2014, 407, 31-36.	0.7	29
24	High-speed growth of Si single bulk crystals by expanding low-temperature region in Si melt using noncontact crucible method. Journal of Crystal Growth, 2014, 405, 44-51.	0.7	23
25	Fracture behavior and fracture toughness of pitch-based carbon fiber with an artificial notch introduced by a focused ion beam. Composite Interfaces, 2014, 21, 265-279.	1.3	7
26	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. Journal of Crystal Growth, 2014, 389, 112-119.	0.7	20
27	Growth of Si single bulk crystals with low oxygen concentrations by the noncontact crucible method using silica crucibles without Si ₃ N ₄ coating. Journal of Crystal Growth, 2013, 372, 121-128.	0.7	26
28	Growth of Si single bulk crystals inside Si melts by the noncontact crucible method using silica crucibles without coating Si ₃ N ₄ particles. , 2013, , .		0
29	Assembly of a MEMS-based Wolter type-I X-ray optic toward a future planetary exploration mission. , 2013, , .		0
30	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
31	Large-aperture focusing of x rays with micropore optics using dry etching of silicon wafers. Optics Letters, 2012, 37, 779.	1.7	21
32	One-shot spectrometer for several elements using an integrated conical crystal analyzer. Review of Scientific Instruments, 2012, 83, 013112.	0.6	6
33	Assembly of a MEMS-based Wolter type-I x-ray optic. , 2012, , .		0
34	Growth of multicrystalline Si ingots for solar cells using noncontact crucible method without touching the crucible wall. , 2012, , .		1
35	MEMS-based novel X-ray optics for future astronomical missions. , 2012, , .		0
36	Growth of multicrystalline Si ingots using noncontact crucible method for reduction of stress. Journal of Crystal Growth, 2012, 344, 6-11.	0.7	42

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37	Growth of high-quality multicrystalline Si ingots using noncontact crucible method. Journal of Crystal Growth, 2012, 355, 38-45.	0.7	34
38	Novel ultra-lightweight and high-resolution MEMS X-ray optics for space astronomy. Sensors and Actuators A: Physical, 2012, 188, 411-416.	2.0	16
39	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. Applied Physics Express, 2011, 4, 106501.	1.1	8
40	Generation mechanism of dislocations and their clusters in multicrystalline silicon during two-dimensional growth. Journal of Applied Physics, 2011, 110, 083530.	1.1	23
41	Formation mechanism of twin boundaries during crystal growth of silicon. Scripta Materialia, 2011, 65, 556-559.	2.6	27
42	Arrangement of dendrite crystals grown along the bottom of Si ingots using the dendritic casting method by controlling thermal conductivity under crucibles. Journal of Crystal Growth, 2011, 319, 13-18.	0.7	46
43	Realization of a High-Performance Point-Focusing Monochromator for X-ray Studies. Applied Physics Express, 2010, 3, 046601.	1.1	4
44	Ultra light-weight and high-resolution X-ray mirrors using DRIE and X-ray LIGA techniques for space X-ray telescopes. Microsystem Technologies, 2010, 16, 1633-1641.	1.2	49
45	Optical Image Analysis of the Novel Ultra-Lightweight and High-Resolution MEMS X-Ray Optics. IEEE Journal of Quantum Electronics, 2010, 46, 1309-1312.	1.0	16
46	Generation mechanism of dislocations during directional solidification of multicrystalline silicon using artificially designed seed. Journal of Crystal Growth, 2010, 312, 897-901.	0.7	96
47	Computational Investigation of Relationship between Shear Stress and Multicrystalline Structure in Silicon. Japanese Journal of Applied Physics, 2010, 49, 04DP01.	0.8	16
48	Systematic studies of Si and Ge hemispherical concave wafers prepared by plastic deformation. Journal of Crystal Growth, 2009, 311, 4587-4592.	0.7	6
49	Shaped silicon wafers obtained by hot plastic deformation: performance evaluation for future astronomical x-ray telescopes. Applied Optics, 2009, 48, 3830.	2.1	6
50	Novel ultra-lightweight and high-resolution MEMS x-ray optics. Proceedings of SPIE, 2009, , .	0.8	9
51	Point-focusing monochromator crystal realized by hot plastic deformation of a Ge wafer. Journal of Applied Crystallography, 2008, 41, 798-799.	1.9	8
52	Assessment of strain of Bi2223 filaments in bent Ag-sheathed superconducting composites by synchrotron radiation. Scripta Materialia, 2008, 58, 687-690.	2.6	7
53	Degradation Mechanism of Amorphous Silicon Carbide Fiber due to Air-Exposure at High Temperatures. Materials Transactions, 2007, 48, 111-116.	0.4	13
54	Fracture Toughness of a Crystalline Silicon Carbide Fiber (Tyranno-SA3R). Journal of the American Ceramic Society, 2006, 89, 2571-2576.	1.9	43

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55	Monte Carlo-shear lag simulation for fracture behavior of Bi2223 superconducting monofilament and its influence on critical current. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 445-448, 756-761.	0.6	3
56	Quest and Evaluation of Topcoat Materials for Environmental Barrier Coatings of SiC/SiC Composites. <i>Key Engineering Materials</i> , 2006, 317-318, 549-552.	0.4	2
57	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
58	Degradation Mechanism of Polycrystalline Silicon Carbide Fiber due to Air-Exposure at High Temperatures. <i>Materials Science Forum</i> , 0, 706-709, 671-676.	0.3	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. <i>Materials Science Forum</i> , 0, 783-786, 2474-2479.	0.3	0