Junya Inoue

List of Publications by Year in descending order

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65 papers	1,047 citations	471509 17 h-index	454955 30 g-index
66 all docs	66 docs citations	66 times ranked	722 citing authors

#	Article	IF	Citations
1	Fracture elongation of brittle/ductile multilayered steel composites with a strong interface. Scripta Materialia, 2008, 59, 1055-1058.	5.2	188
2	Transition in deformation behavior of martensitic steel during large deformation under uniaxial tensile loading. Scripta Materialia, 2009, 60, 221-224.	5.2	121
3	Development of Multilayer Steels for Improved Combinations of High Strength and High Ductility. Materials Transactions, 2014, 55, 227-237.	1.2	101
4	Slip band formation at free surface of lath martensite in low carbon steel. Acta Materialia, 2019, 165, 129-141.	7.9	38
5	Interphase Strain Gradients in Multilayered Steel Composite from Microdiffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 98-108.	2.2	34
6	Data assimilation for massive autonomous systems based on a second-order adjoint method. Physical Review E, 2016, 94, 043307.	2.1	34
7	High stereographic resolution texture and residual stress evaluation using time-of-flight neutron diffraction. Journal of Applied Crystallography, 2018, 51, 746-760.	4.5	27
8	Shared computer-aided structural design model for construction industry (infrastructure). CAD Computer Aided Design, 2008, 40, 778-788.	2.7	26
9	Prediction of Ac₃ and Martensite Start Temperatures by a Data-driven Model Selection Approach. ISIJ International, 2017, 57, 2229-2236.	1.4	26
10	Stochastic characterization and reconstruction of material microstructures for establishment of process-structure-property linkage using the deep generative model. Physical Review E, 2021, 104, 025302.	2.1	25
11	Solidification of Iron and Steel on Single-crystal Oxide. ISIJ International, 2007, 47, 847-852.	1.4	22
12	Reactive Transient Liquid Phase Bonding between AZ31 Magnesium Alloy and Low Carbon Steel. Materials Transactions, 2011, 52, 568-571.	1.2	20
13	Strain localization behavior in low-carbon martensitic steel during tensile deformation. Scripta Materialia, 2013, 69, 793-796.	5.2	19
14	Grain growth prediction based on data assimilation by implementing 4DVar on multi-phase-field model. Science and Technology of Advanced Materials, 2017, 18, 857-868.	6.1	19
15	Unsupervised microstructure segmentation by mimicking metallurgistsâ€™ approach to pattern recognition. Scientific Reports, 2020, 10, 17835.	3.3	19
16	Void formation in nanocrystalline Cu film during uniaxial relaxation test. Acta Materialia, 2008, 56, 4921-4931.	7.9	18
17	Crystallographic and Microstructural Studies of Lath Martensitic Steel During Tensile Deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5029-5043.	2.2	18
18	Laminated Metal Composites by Infiltration. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3509-3520.	2.2	17

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19	Ferrite transformation from oxideâ€“steel interface in HAZ-simulated Câ€“Mn steel. International Journal of Materials Research, 2008, 99, 347-351.	0.3	15
20	Ferrite Formation Behaviors from B1 Compounds in Steels. ISIJ International, 2011, 51, 2036-2041.	1.4	15
21	Transformation Behavior of Ferrite at Steel/B1 Compounds Interface. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2010, 96, 123-128.	0.4	14
22	Effects of Solute Carbon on the Work Hardening Behavior of Lath Martensite in Low-Carbon Steel. ISIJ International, 2017, 57, 181-188.	1.4	14
23	Flow analysis of jointed rock masses based on excavation-induced transmissivity change of rough joints. International Journal of Rock Mechanics and Minings Sciences, 2004, 41, 959-974.	5.8	13
24	Effect of Stress on Variant Selection in Lath Martensite in Low-carbon Steel. ISIJ International, 2013, 53, 1453-1461.	1.4	13
25	Fracture Toughness of Fe-Zn Intermetallic Compound Layer. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 383-389.	0.4	13
26	Bonding Interface Formation between Mg Alloy and Steel by Liquid-phase Bonding using the Ag Interlayer. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 592-597.	2.2	12
27	Fracture Toughness Evaluation of Thin Fe–Al Intermetallic Compound Layer at Reactive Interface between Dissimilar Metals. Materials Transactions, 2013, 54, 994-1000.	1.2	12
28	In situ deformation analysis of Mg in multilayer Mg-steel structures. Materials and Design, 2017, 119, 326-337.	7.0	11
29	Effect of initial texture and microstructure of Mg on mechanical properties of Mg â€“ Stainless steel laminated metal composites. Materials Characterization, 2017, 127, 171-178.	4.4	9
30	A simple method for measurement of shear delamination toughness in environmental barrier coatings. Surface and Coatings Technology, 2017, 321, 213-218.	4.8	9
31	Bayesian inference of ferrite transformation kinetics from dilatometric measurement. Computational Materials Science, 2020, 184, 109837.	3.0	9
32	In-situ measurement of surface relief induced by WidmanstÃtten and bainitic ferrites in low carbon steel by digital holographic microscopy. Scripta Materialia, 2019, 162, 241-245.	5.2	8
33	Development of Data-Driven System in Materials Integration. Materials Transactions, 2020, 61, 2058-2066.	1.2	8
34	Establishment of structure-property linkages using a Bayesian model selection method: Application to a dual-phase metallic composite system. Acta Materialia, 2019, 176, 264-277.	7.9	7
35	Bayesian inference of grain growth prediction via multi-phase-field models. Physical Review Materials, 2019, 3, .	2.4	7
36	Analytical Study for Deformability of Laminated Sheet Metal with Full Interfacial Bond. Journal of Engineering Mechanics - ASCE, 2013, 139, 94-103.	2.9	6

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37	Effect of Si Content in Steel on Formation of Fe-Zn Intermetallic Compound Layer at Pure Zn Melt/Steel Interface. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 390-396.	0.4	6
38	Fracture Behavior of Multi-phase Fe-Zn Intermetallic Compound Layer. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 714-721.	0.4	6
39	Multilayer Mg-Stainless Steel Sheets, Microstructure, and Mechanical Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2483-2495.	2.2	6
40	ESTIMATION OF HYDRAULIC PROPERTY OF JOINTED ROCK MASS CONSIDERING EXCAVATION-INDUCED CHANGE IN PERMEABILITY OF EACH JOINTS. Soils and Foundations, 2005, 45, 43-59.	0.7	6
41	In-situ Observation of Ferrite Plate Formation in Low Carbon Steel during Continuous Cooling Process. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2008, 94, 363-368.	0.4	5
42	Unsupervised segmentation of microstructural images of steel using data mining methods. Computational Materials Science, 2022, 201, 110855.	3.0	5
43	An integrated approach for numerically predicting the failure of resistance spot welds. Science and Technology of Welding and Joining, 2022, 27, 229-237.	3.1	5
44	Distributed object-based software environment for urban system integrated simulation under urban-scale hazardâ€”Part II: Application. Earthquake Engineering and Structural Dynamics, 2007, 36, 1561-1579.	4.4	4
45	Distributed object-based software environment for urban system integrated simulation under urban-scale hazardâ€”Part I: Infrastructure. Earthquake Engineering and Structural Dynamics, 2007, 36, 1545-1560.	4.4	4
46	Phase Evolution During the Liquid-Phase Bonding of Zirconium and Austenitic Stainless Steel with Zinc Insertion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2366-2377.	2.2	4
47	Effect of Stress on Variant Selection of Lath Martensite in Low-carbon Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2012, 98, 425-433.	0.4	4
48	Bayesian inverse design of high-strength aluminum alloys at high temperatures. MRS Advances, 2022, 7, 213-216.	0.9	4
49	Hierarchical Localization of Sensor Network for Infrastructure Monitoring. Journal of Infrastructure Systems, 2008, 14, 15-26.	1.8	3
50	Yet another possible mechanism for anomalous transport: Theory, numerical method, and experiments. KSCE Journal of Civil Engineering, 2012, 16, 45-53.	1.9	3
51	Crystallographic Analysis of Transformation Behavior of Acicular Ferrite from B1-type Compounds in Steels. ISIJ International, 2017, 57, 1246-1251.	1.4	2
52	Hierarchical Localization Algorithm Based on Inverse Delaunay Tessellation. Lecture Notes in Computer Science, 2006, , 180-195.	1.3	2
53	Development of Data-Driven System in Materials Integration. Materia Japan, 2019, 58, 503-510.	0.1	2
54	Effects of Solute Carbon on the Work Hardening Behavior of Lath Martensite in Low-Carbon Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 488-496.	0.4	2

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55	Radiation-Induced Surface Wettability Enhancement of an Indium Tin Oxide and Titanium Oxide Film-Coated Sapphire. Journal of Nuclear Engineering and Radiation Science, 2022, 8, .	0.4	1
56	Development of Digital Holographic Microscope for In-Situ Surface Relief Measurement of Low-Carbon Steel. Materials Transactions, 2020, 61, 42-48.	1.2	1
57	Creep Life Predictions by Machine Learning Methods for Ferritic Heat Resistant Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2022, 108, 424-437.	0.4	1
58	Mechanical Behavior of Nanocrystalline Cu Alloy Thin Film on Elastomer Substrates Under Constant Uniaxial Tensile Strain. Materials Research Society Symposia Proceedings, 2006, 976, 1.	0.1	0
59	DEVELOPMENT OF HIERARCHICAL SENSOR NETWORK SYSTEM FOR INFRASTRUCTURE MONITORING. Doboku Gakkai Ronbunshuu A, 2008, 64, 82-100.	0.3	0
60	Steel-Magnesium Laminated Composites by Infiltration. Materials Research Society Symposia Proceedings, 2012, 1373, 143.	0.1	0
61	Multilayer Mgâ€“Stainless Steel Sheets, Twinning and Texture Evolution. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3514-3522.	2.2	0
62	Numerical studies of the effect of residual imperfection on the mechanical behavior of heat-corrected steel plates, and analysis of a further repair method. Steel and Composite Structures, 2009, 9, 209-221.	1.3	0
63	134 Data assimilation for massive simulation models: in the case of the phase field model. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _134-1_-_134-2_.	0.0	0
64	Local Deformation Analysis in Martensite Layer of High-Strength Multilayered Steel Composite Using Synchrotron X-ray Diffraction. Zairyo/Journal of the Society of Materials Science, Japan, 2017, 66, 420-426.	0.2	0
65	<i>In-situ</i> Measurement of Bainitic Transformation Process using Digital Holographic Microscope. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2022, 108, 360-369.	0.4	0