

Toshihiko Koseki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Investigation of work hardening behavior in multilayered steels architected by twinning induced plasticity steel and martensitic steel during uniaxial tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 811, 140996.	5.6	3
2	Effect of surface roughness on bonding interface formation of steel and Ni by ultrasonic welding. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 157-163.	3.1	11
3	Interfacial phenomena during ultrasonic welding of ultra-low-carbon steel and pure Ti. <i>Scripta Materialia</i> , 2020, 178, 218-222.	5.2	24
4	Influence of Al and Ni interlayers on interfacial strength evolution during ultrasonic welding of ultra-low-carbon steel and pure Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 798, 140073.	5.6	11
5	Evolution of Bonding Interface during Ultrasonic Welding between Ni and Steels with Various Microstructure. <i>ISIJ International</i> , 2020, 60, 330-336.	1.4	8
6	Study of deformation behaviors of martensitic steel quenched at ultralow temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 785, 139399.	5.6	2
7	Effects of Solute Carbon on the Work Hardening Behavior of Lath Martensite in Low-Carbon Steel. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2020, 106, 488-496.	0.4	2
8	Evolution of bonding interface during ultrasonic welding between steel and aluminium alloy. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 83-91.	3.1	25
9	Slip band formation at free surface of lath martensite in low carbon steel. <i>Acta Materialia</i> , 2019, 165, 129-141.	7.9	38
10	Effects of compressive strain on the evolution of interfacial strength of steel/nickel solid-state bonding at low temperature. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 344-350.	3.1	6
11	Orientation of austenite reverted from martensite in Fe-2Mn-1.5Si-0.3C alloy. <i>Acta Materialia</i> , 2018, 144, 601-612.	7.9	87
12	Numerical Analysis of Effects of Compressive Strain on the Evolution of Interfacial Strength of Steel/Nickel Solid-State Bonding. <i>Materials Transactions</i> , 2018, 59, 568-574.	1.2	3
13	Development of a bonding interface between steel/steel and steel/Ni by ultrasonic welding. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 687-692.	3.1	14
14	In situ deformation analysis of Mg in multilayer Mg-steel structures. <i>Materials and Design</i> , 2017, 119, 326-337.	7.0	11
15	Multilayer Mg-Stainless Steel Sheets, Microstructure, and Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2483-2495.	2.2	6
16	Effect of initial texture and microstructure of Mg on mechanical properties of Mg “Stainless steel laminated metal composites. <i>Materials Characterization</i> , 2017, 127, 171-178.	4.4	9
17	Three-dimensional quantification of texture heterogeneity in single-crystal aluminium subjected to equal channel angular pressing. <i>Philosophical Magazine</i> , 2017, 97, 799-819.	1.6	5
18	Multilayer Mg “Stainless Steel Sheets, Twinning and Texture Evolution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3514-3522.	2.2	0

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19	Solidification mechanism of austenitic stainless steels solidified with primary ferrite. <i>Acta Materialia</i> , 2017, 124, 430-436.	7.9	53
20	Progress in Indentation Study of Materials via Both Experimental and Numerical Methods. <i>Crystals</i> , 2017, 7, 258.	2.2	30
21	Effects of Solute Carbon on the Work Hardening Behavior of Lath Martensite in Low-Carbon Steel. <i>ISIJ International</i> , 2017, 57, 181-188.	1.4	14
22	Crystallographic Analysis of Transformation Behavior of Acicular Ferrite from B1-type Compounds in Steels. <i>ISIJ International</i> , 2017, 57, 1246-1251.	1.4	2
23	Mechanical Properties of 1.5wt.% TiB ₂ -added Hypoeutectic Al-Mg- Si Alloys Processed by Equal Channel Angular Pressing. <i>Procedia Chemistry</i> , 2016, 19, 106-112.	0.7	5
24	Decoupling the contributions of constituent layers to the strength and ductility of a multi-layered steel. <i>Acta Materialia</i> , 2016, 121, 164-172.	7.9	65
25	International Activities. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2016, 85, 457-457.	0.1	0
26	Interphase Strain Gradients in Multilayered Steel Composite from Microdiffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 98-108.	2.2	34
27	Crystallographic and Microstructural Studies of Lath Martensitic Steel During Tensile Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5029-5043.	2.2	18
28	Development of Multilayer Steels for Improved Combinations of High Strength and High Ductility. <i>Materials Transactions</i> , 2014, 55, 227-237.	1.2	101
29	International Activities. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2014, 83, 368-368.	0.1	0
30	Strain localization behavior in low-carbon martensitic steel during tensile deformation. <i>Scripta Materialia</i> , 2013, 69, 793-796.	5.2	19
31	Fracture Toughness Evaluation of Thin Fe–Al Intermetallic Compound Layer at Reactive Interface between Dissimilar Metals. <i>Materials Transactions</i> , 2013, 54, 994-1000.	1.2	12
32	Effect of Stress on Variant Selection in Lath Martensite in Low-carbon Steel. <i>ISIJ International</i> , 2013, 53, 1453-1461.	1.4	13
33	International Activities. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2013, 82, 367-367.	0.1	0
34	Steel-Magnesium Laminated Composites by Infiltration. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1373, 143.	0.1	0
35	Phase Evolution During the Liquid-Phase Bonding of Zirconium and Austenitic Stainless Steel with Zinc Insertion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2366-2377.	2.2	4
36	Bonding Interface Formation between Mg Alloy and Steel by Liquid-phase Bonding using the Ag Interlayer. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 592-597.	2.2	12

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37	Effect of Chromium, Aluminum and Nickel on Microstructure and Reverse-S Type Creep Rupture Strength of High Cr Ferritic Heat Resistant Steels. ISIJ International, 2012, 52, 902-909.	1.4	3
38	Ferrite Formation Behaviors from B1 Compounds in Steels. ISIJ International, 2011, 51, 2036-2041.	1.4	15
39	Reactive Transient Liquid Phase Bonding between AZ31 Magnesium Alloy and Low Carbon Steel. Materials Transactions, 2011, 52, 568-571.	1.2	20
40	Effect of Carbon, Nitrogen and Nickel on Long-term Creep Rupture Strength of 10 Cr Steels Containing Boron. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2011, 97, 295-304.	0.4	0
41	Laminated Metal Composites by Infiltration. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3509-3520.	2.2	17
42	Effect of Chromium, Aluminum and Nickel on Microstructure and Reverse-S type Creep Rupture Strength of High Cr Ferritic Heat Resisting Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2010, 96, 665-672.	0.4	2
43	Effect of Cobalt and Boron on Long-term Creep Rupture Strength of 12Cr Cast Steels. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2010, 96, 620-628.	0.4	4
44	Experimental and numerical analysis of multilayered steel sheets upon bending. Journal of Materials Processing Technology, 2010, 210, 1926-1933.	6.3	44
45	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
46	Transition in deformation behavior of martensitic steel during large deformation under uniaxial tensile loading. Scripta Materialia, 2009, 60, 221-224.	5.2	121
47	Abnormal $\hat{1}\pm$ to $\hat{1}^3$ Transformation Behavior of Steels with a Martensite and Bainite Microstructure at a Slow Reheating Rate. ISIJ International, 2009, 49, 1792-1800.	1.4	72
48	Fracture elongation of brittle/ductile multilayered steel composites with a strong interface. Scripta Materialia, 2008, 59, 1055-1058.	5.2	188
49	Ferrite transformation from oxide-steel interface in HAZ-simulated C-Mn steel. International Journal of Materials Research, 2008, 99, 347-351.	0.3	15
50	Solidification of Iron and Steel on Single-crystal Oxide. ISIJ International, 2007, 47, 847-852.	1.4	22
51	Establishment and Problem of the Observing System for Boron in Steels by Alpha-particle Track Etching Method Using Pneumatic Tube of JRR-3 and JRR-4. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2007, 93, 634-641.	0.4	4
52	Effect of Steel Compositions on Wettability between Steel Melt and Oxide Plates. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2006, 92, 411-416.	0.4	8
53	Effect of Ru crystal orientation on the adhesion characteristics of Cu for ultra-large scale integration interconnects. Applied Surface Science, 2006, 252, 3938-3942.	6.1	24
54	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

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55	Influence of impact parameters of zirconia droplets on splat formation and morphology in plasma spraying. <i>Journal of Applied Physics</i> , 2006, 100, 074903.	2.5	29
56	Process design of Cu(Sn) alloy deposition for highly reliable ultra large-scale integration interconnects. <i>Thin Solid Films</i> , 2005, 491, 221-227.	1.8	17
57	Cu Wettability and Diffusion Barrier Property of Ru Thin Film for Cu Metallization. <i>Journal of the Electrochemical Society</i> , 2005, 152, G594.	2.9	137
58	Microstructure Development and Control in Steel Welds. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004, 90, 61-72.	0.4	18
59	Simulation of Solidification Morphology Using Monte Carlo and Finite Difference Hybrid Modeling Incorporated with Computational Thermodynamics. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2003, 67, 506-513.	0.4	2
60	Formation Mechanism of Different Ferrite Morphologies and Effect of Ferrite Morphology on Cryogenic Impact Toughness and Pitting Corrosion Resistance in Austenitic Stainless Steel Weld Metals.. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 2001, 19, 100-113.	0.5	6
61	Equiaxed Solidification of Steel Nucleating on Titanium Nitride. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2001, 65, 644-651.	0.4	53
62	Solidification of undercooled Fe-Cr-Ni alloys: Part III. Phase selection in chill casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997, 28, 2385-2395.	2.2	36
63	Study on Solidification and Subsequent Transformation of Cr-Ni Stainless Steel Weld Metals (Report) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i> Primary Ferrite.. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 1997, 15, 88-99.	0.5	26
64	Effect of External Heat Extraction on Dendritic Growth into Undercooled Melts.. <i>ISIJ International</i> , 1995, 35, 611-617.	1.4	25