Tadanobu Inoue

List of Publications by Citations

160 papers	2,056 citations	25 h-index	39 g-index
180 ext. papers	2,308 ext. citations	2.4 avg, IF	5.12 L-index

#	Paper	IF	Citations
160	Inverse temperature dependence of toughness in an ultrafine grain-structure steel. *Science*, **2008**, 320, 1057-60	33.3	268
159	Delamination Effect on Impact Properties of Ultrafine-Grained Low-Carbon Steel Processed by Warm Caliber Rolling. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 341-355	2.3	113
158	Ultrafine Grain Structure through Dynamic Recrystallization for Type 304 Stainless Steel.. *ISIJ International*, **2002**, 42, 744-750	1.7	70
157	Delamination Toughening of Ultrafine Grain Structure Steels Processed through Tempforming at Elevated Temperatures. *ISIJ International*, **2010**, 50, 152-161	1.7	65
156	Band gap engineering of SrTiO 3 for water splitting under visible light irradiation. *International Journal of Hydrogen Energy*, **2014**, 39, 12507-12514	6.7	58
155	Parameters for the Evaluation of Hydrogen Embrittlement of High Strength Steel. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2000**, 86, 689-696	0.5	54
154	Strengthening Mg□Al□n alloy by repetitive oblique shear strain with caliber roll. *Scripta Materialia*, **2010**, 62, 113-116	5.6	48
153	Hydrogen Embrittlement of a 1500-MPa Tensile Strength Level Steel with an Ultrafine Elongated Grain Structure. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science* , **2012**, 43, 1670-1687	2.3	47
152	Formation of uniformly fine grained ferrite structure through multidirectional deformation. *Materials Science and Technology*, **2001**, 17, 1329-1338	1.5	43
151	Effect of initial grain sizes on hardness variation and strain distribution of pure aluminum severely deformed by compression tests. *Acta Materialia*, **2008**, 56, 6291-6303	8.4	41
150	Effect of twin boundary segregation on damping properties in magnesium alloy. *Scripta Materialia*, **2017**, 129, 35-38	5.6	40
149	Effect of alloying elements on room temperature tensile ductility in magnesium alloys. *Philosophical Magazine*, **2016**, 96, 2671-2685	1.6	39
148	Fracture Toughness of a Crystalline Silicon Carbide Fiber (Tyranno-SA3□). *Journal of the American Ceramic Society*, **2006**, 89, 2571-2576	3.8	36
147	Influence of Warm Tempforming on Microstructure and Mechanical Properties in an Ultrahigh-Strength Medium-Carbon Low-Alloy Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 560-576	2.3	35
146	Morphology, crystallography, and crack paths of tempered lath martensite in a medium-carbon low-alloy steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 669, 48-57	5.3	34
145	Microstructural evolution during dry wear test in magnesium and Mg□ alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 371-377	5.3	31
144	Quantification of strain in accumulative roll-bonding under unlubricated condition by finite element analysis. *Computational Materials Science*, **2009**, 46, 261-266	3.2	30

143	Uniform Formation of Fine Grained Ferrite Structure through Multi-directional Deformation. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2000**, 86, 801-806	0.5	30
142	Hardness Variation and Strain Distribution in Magnesium Alloy AZ31 Processed by Multi-pass Caliber Rolling. *Advanced Engineering Materials*, **2009**, 11, 654-658	3.5	29
141	Fiber texture and substructural features in the caliber-rolled low-carbon steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 665-677	2.3	29
140	Effect of solute atoms on fracture toughness in dilute magnesium alloys. *Philosophical Magazine*, **2013**, 93, 4582-4592	1.6	27
139	Effect of plastic strain on grain size of ferrite transformed from deformed austenite in Si-Mn steel. *Materials Science and Technology*, **2001**, 17, 1580-1588	1.5	27
138	Effect of shear deformation on refinement of crystal grains. *Materials Science and Technology*, **2002** , 18, 1007-1015	1.5	26
137	Excellent room temperature deformability in high strain rate regimes of magnesium alloy. *Scientific Reports*, **2018**, 8, 656	4.9	25
136	Influence of the intermediate material on the order of stress singularity in three-phase bonded structure. *International Journal of Solids and Structures*, **1996**, 33, 399-417	3.1	25
135	Enhancement of toughness by grain boundary control in magnesium binary alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 612, 172-178	5.3	24
134	Crystallographic Texture of Warm Caliber-rolled Low Carbon Steel. *Materials Transactions*, **2007**, 48, 2028-2035	1.3	24
133	A New Evaluation Method of Hydrogen Embrittlement Fracture for High Strength Steel by Local Approach. *ISIJ International*, **2005**, 45, 263-271	1.7	24
132	Deformation mechanism near crack-tip by finite element analysis and microstructure observation in magnesium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 1761-1768	5.3	23
131	Shape effect of ultrafine-grained structure on static fracture toughness in low-alloy steel. *Science and Technology of Advanced Materials*, **2012**, 13, 035005	7.1	21
130	Shear-lag simulation of the progress of interfacial debonding in unidirectional composites. *Composites Science and Technology*, **1999**, 59, 77-88	8.6	21
129	Static fracture toughness of fail-safe steel. *Scripta Materialia*, **2011**, 65, 552-555	5.6	20
128	Dynamic Restoration Process of Ni-30Fe Alloy during Hot Deformation.. *ISIJ International*, **2002**, 42, 432-439	1.7	19
127	Highly active SrTiO3 for visible light photocatalysis: A first-principles prediction. *Solid State Communications*, **2014**, 181, 5-8	1.6	18
126	Effect of initial notch orientation on fracture toughness in fail-safe steel. *Journal of Materials Science*, **2013**, 48, 4766-4772	4.3	18

125	Influence of Carbon Content on Toughening in Ultrafine Elongated Grain Structure Steels. *ISIJ International*, **2015**, 55, 1135-1144	1.7	18
124	Tempforming in medium-carbon low-alloy steel. *Journal of Alloys and Compounds*, **2013**, 577, S538-S542	5.7	17
123	Influences of residual stresses, frictional shear stress at debonded interface and interactions among broken components on interfacial debonding in unidirectional multi-filamentary composites. *Composite Interfaces*, **1997**, 5, 363-381	2.3	17
122	Electronic structure calculations of I and Mn doped BiOCl with modified Becke□ohnson potential. *Computational Materials Science*, **2014**, 85, 138-141	3.2	16
121	Finite element simulation of accumulative roll-bonding process. *Materials Letters*, **2013**, 106, 37-40	3.3	16
120	Numerical Analysis of Plastic Strain Distribution through Multi-directional Deformation. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2000**, 86, 793-800	0.5	16
119	Enhancing Fracture Toughness of Magnesium Alloy by Formation of Low-Angle Grain Boundary Structure. *Advanced Engineering Materials*, **2010**, 12, 837-842	3.5	15
118	Evaluation of Hydrogen Embrittlement Susceptibility of High Strength Steel by the Weibull Stress. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2001**, 65, 1073-1081	0.4	15
117	Crack propagation behaviour in magnesium binary alloys. *Philosophical Magazine*, **2014**, 94, 3317-3330	1.6	14
116	Warm tempforming effect on the hydrogen embrittlement of 1.8-GPa-class ultra-high-strength low-alloy steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 703, 503-512	5.3	14
115	Tensile Test Specimens with a Circumferential Precrack for Evaluation of Interfacial Toughness of Thermal-Sprayed Coatings. *Journal of Thermal Spray Technology*, **2008**, 17, 228-233	2.5	14
114	Improvement of strength, toughness and ductility in ultrafine-grained low-carbon steel processed by warm bi-axial rolling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 786, 139415	5.3	13
113	Distributions of Strain, Microstructure and Hardness in a Bar Steel with Ultrafine-Grained Structure through Groove Rolling. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2005**, 69, 943-952	0.4	13
112	Stress Singularity in Three-Phase Bonded Structure. *Journal of Applied Mechanics, Transactions ASME*, **1996**, 63, 252-258	2.7	13
111	Ultrafine-grained Steel Bars Fabricated Using Commercial Caliber-rolling. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2008**, 94, 164-172	0.5	13
110	Effect of Shear Deformation on Microstructural Evolution of Ni-30Fe Alloy during Hot Deformation. *Materials Transactions*, **2004**, 45, 2966-2973	1.3	12
109	Effect of deformation twin on toughness in magnesium binary alloys. *Philosophical Magazine*, **2015**, 95, 2513-2526	1.6	11
108	Analysis of Buckling and Interfacial Debonding of Galvannealed Coating Layer on Steel Substrates under Applied Tensile Strain. *ISIJ International*, **2007**, 47, 930-934	1.7	11

107	Serration of Grain Boundary in Ni-300Fe Alloy through High Temperature Deformation.. *ISIJ International*, **2002**, 42, 1026-1032	1.7	11
106	Development of Isotropic and Accordion-Like Deformable Magnesium Alloys. *Materials Transactions*, **2017**, 58, 1089-1092	1.3	10
105	Influence of Prior-Austenite Grain Structure on the Mechanical Properties of Ultrafine Elongated Grain Structure Steel Processed by Warm Tempforming. *ISIJ International*, **2015**, 55, 1762-1771	1.7	10
104	Yield stress of duplex stainless steel specimens estimated using a compound Hall-Petch equation. *Science and Technology of Advanced Materials*, **2010**, 11, 025004	7.1	10
103	Relaxation of thermal stresses in dissimilar materials (approach based on stress intensity). *International Journal of Solids and Structures*, **1997**, 34, 3215-3233	3.1	10
102	Recrystallization and Grain Growth Behavior in Severe Cold-rolling Deformed SUS316L Steel under Anisothermal Annealing Condition. *ISIJ International*, **2008**, 48, 475-482	1.7	10
101	Effect of Initial Grain Orientation on Evolution of Deformed Microstructure in Hot Compressed Ni-30Fe Alloy. *Materials Transactions*, **2004**, 45, 2960-2965	1.3	10
100	Mechanical Property of Ultrafine Elongated Grain Structure Steel Processed by Warm Tempforming and Its Application to Ultra-High-Strength Bolt. *ISIJ International*, **2020**, 60, 1108-1126	1.7	8
99	Mechanism of crack propagation in 1800 MPa class ultrahigh-strength steel by ultrafine-grained structure (Development of fracture control from microstructure design). *Transactions of the JSME (in Japanese)*, **2015**, 81, 15-00281-15-00281	0.2	8
98	Effect of ferrite grain size on the estimated true stress–true strain relationship up to the plastic deformation limit in low carbon ferrite–cementite steels. *Journal of Materials Research*, **2013**, 28, 2171-2179	2.5	8
97	Microstructure and Mechanical Properties Formed through Multidirectional Large Strain Caliber Rolling Using Oval Grooves and Square Grooves. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2008**, 72, 571-580	0.4	8
96	Determination Method of Weibull Shape Parameter for Evaluation of the Hydrogen Embrittlement Susceptibility of High Strength Steel. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2001**, 65, 1082-1090	0.4	8
95	Solution of Thermal Stresses near Apex in Dissimilar Materials by Thermoelastic Theory.. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **1995**, 61, 73-79		8
94	Toughening of Low-Carbon Steel by Ultrafine-Grained Structure. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2013**, 79, 1226-1238		7
93	Effect of Shear Strain on the Microstructural Evolution of a Low Carbon Steel during Warm Deformation. *Materials Transactions*, **2010**, 51, 27-35	1.3	7
92	Novel Rod Rolling Process for Designing Efficiently Ultrafine-Grained Steel Bars Based on Numerical Analysis. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2005**, 69, 934-942	0.4	7
91	Brittle Fracture Stress of Ultrafine-Grained Low-Carbon Steel. *Materials Transactions*, **2017**, 58, 1505-1508	1.3	7
90	Test Production of Ultrafine-grained Steel Plate Using Large-scale Forging Press. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2007**, 93, 693-702	0.5	7

89	Characteristics of Steel Plates Rolled with Shear Deformation. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2003**, 89, 281-288	0.5	7
88	??????????????. *Zairyo/Journal of the Society of Materials Science, Japan*, **2003**, 52, 1107-1115	0.1	7
87	Combined Effect of Ausforming and Warm Tempforming on the Strength and Toughness of An Ultra-High Strength Steel. *ISIJ International*, **2016**, 56, 2047-2056	1.7	7
86	Optimum Pass Design of Bar Rolling for Producing Bulk Ultrafine-Grained Steel by Numerical Simulation. *Materials Science Forum*, **2010**, 654-656, 1561-1564	0.4	6
85	Application of Local Approach to Hydrogen Embrittlement Fracture Evaluation of High Strength Steels. *Materials Science Forum*, **2007**, 539-543, 2155-2161	0.4	6
84	Evaluation of Hydrogen Embrittlement Susceptibility of High Strength Steel Based on Local Approach. *Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society*, **2004**, 22, 125-131	0.7	6
83	In-Situ Observation of Lüders Band Formation in Hot-Rolled Steel via Digital Image Correlation. *Metals*, **2020**, 10, 530	2.3	5
82	Experimental measurement of the variables of Lüders deformation in hot-rolled steel via digital image correlation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 790, 139756	5.3	5
81	Delaminating Crack Paths in Ultrafine, Elongated Ferritic Steel. *ISIJ International*, **2013**, 53, 2272-2274	1.7	5
80	Influence of Carbon Content on Toughening in Ultrafine Elongated Grain Structure Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2014**, 100, 1104-1113	0.5	5
79	Delayed fracture properties of 1.8 GPa-class ultra-high strength fail-safe bolt. *Transactions of the JSME (in Japanese)*, **2018**, 84, 17-00493-17-00493	0.2	4
78	Criterion of micro-crack initiation in 1800 MPa class fail-safe steel (Development of fracture control from microstructure design). *Transactions of the JSME (in Japanese)*, **2016**, 82, 16-00246-16-00246	0.2	4
77	Strength-toughness balance of low-alloy steel by fail-safe design. *Mechanical Engineering Letters*, **2015**, 1, 15-00358-15-00358	0.5	4
76	Effect of Strain on Microstructural Evolution under Warm Deformation in an Ultra-Low Carbon Steel. *Materials Transactions*, **2009**, 50, 34-39	1.3	4
75	Distributions of Hardness and Strain during Compression in Pure Aluminum Processed with Equal-Channel Angular Pressing and Subsequent Annealing. *Materials Transactions*, **2009**, 50, 27-33	1.3	4
74	Stress Singularity at the Apex Three Phase Bonded Structure.. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **1993**, 59, 163-170		4
73	Characteristics of Distribution of Thermal Stresses Near Apex in Dissimilar Materials. Change of Distribution of Thermal Stresses on Vaviation of Singularity of Type log r.DARRLR.rp-1.. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **1995**, 61, 2461-2468		4
72	Heterogeneous Distribution of Microstrain Evolved During Tensile Deformation of Polycrystalline Plain Low Carbon Steel. *Metals*, **2020**, 10, 774	2.3	3

71	Deformation Mechanism in the Crack-Tip Region of Fine-Grained Magnesium Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 2475-2480	2.3	3
70	Fatigue Properties of an Ultrafine-Grained Steel Processed by Warm Tempforming. *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **2012**, 78, 923-927		3
69	Effect of Shear Deformation on Deformed Microstructures of Austenitic Grains. *Materials Science Forum*, **2007**, 561-565, 881-884	0.4	3
68	Cube Texture Formed in Biaxially Rolled Low-Carbon Steel. *Materials Science Forum*, **2005**, 495-497, 387-392	0.4	3
67	Analysis near Apex in Three-Phase Bonded Material with Arbitrary Wedge Angles under Normal Surface Loading on the Surface. 1st Report, Stress Distribution in Stress Fields with Singularity of Type .GAMMA.-.LAMBDA. and log.GAMMA... *Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A*, **1994**, 60, 2286-2292		3
66	The Neck Growth Model in a Smooth Round Tension and a Circumferentially Notched Tension. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2005**, 91, 769-774	0.5	3
65	Wrought-procedure memory in caliber rolled Mg-Y-Zn alloy containing LPSO phase. *Materials Characterization*, **2021**, 175, 111080	3.9	3
64	Upsizing high-strength fail-safe steel through warm tempforming. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 819, 141514	5.3	3
63	Improvement of toughness and strength balance in low-carbon steel bars with cube texture processed by warm bi-axial rolling. *Materials Letters*, **2019**, 240, 172-175	3.3	3
62	Bainite Transformation and Resultant Tensile Properties of 0.6%C Low Alloyed Steels with Different Prior Austenite Grain Sizes. *ISIJ International*, **2021**, 61, 582-590	1.7	3
61	Three-dimensional microstructure of robust claw of coconut crab, one of the largest terrestrial crustaceans. *Materials and Design*, **2021**, 206, 109765	8.1	3
60	Mechanical Property of Ultrafine Elongated Grain Structure Steel Processed by Warm Tempforming and Its Application to Ultra-High-Strength Bolt. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 127-145	0.5	2
59	Toughening of Low-Alloy Steel by Ultrafine-Grained Structure (Development of Fracture Control from Microstructure Design) **2016**,		2
58	Through-Thickness Microstructure and Strain Distribution in Steel Sheets Rolled in a Large-Diameter Rolling Process. *Metals*, **2020**, 10, 91	2.3	2
57	Acceleration of diffusional transformation in a high-carbon steel layer composed of a sandwich-like clad steel sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 764, 138217	5.3	2
56	Acceleration of pearlite transformation in a high-carbon steel by uniaxial compressive stress confirmed by volume measurements. *Materials Letters*, **2019**, 256, 126637	3.3	2
55	Strengthening Mg-Al-Zn Alloy by Repetitive Oblique Shear Strain **2011**, 211-214		2
54	Effect of Temperature on Stress–Strain Curve in SUS316L Metastable Austenitic Stainless Steel Studied by In Situ Neutron Diffraction Experiments. *ISIJ International*, **2021**, 61, 632-640	1.7	2

53	Effect of Interface Morphology on Tensile Properties of Carbon Steel Sheet with Sandwich Structure. *Steel Research International*, **2019**, 90, 1900015	1.6	1
52	Strength and Ductility at High-speed Tensile Deformation of Low-carbon Steel with Ultrafine Grains. *Materials Transactions*, **2017**, 58, 1487-1492	1.3	1
51	Effect of specimen size on true stress-true strain relationship up to the plastic deformation limit in ultrafine-grained ferrite-cementite steels. *Transactions of the JSME (in Japanese)*, **2017**, 83, 16-00315-16-00315	0.2	1
50	Effect of Layer Construction on Tensile Deformation Behavior of Japanese-Sword-Type Steel Sheet. *Journal of the Japan Society for Technology of Plasticity*, **2017**, 58, 323-329	0.3	1
49	Strain Variations on Rolling Condition in Accumulative Roll-Bonding by Finite Element Analysis **2010**,		1
48	Effect of Deformation Mode on Texture of Ultrafine-Grained Low Carbon Steel Processed by Warm Caliber Rolling. *Materials Science Forum*, **2010**, 638-642, 2793-2798	0.4	1
47	Estimations of the True Stress and True Strain until Just before Fracture by the Stepwise Tensile Test and Bridgman Equation for Various Metals and Alloys. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2012**, 76, 579-586	0.4	1
46	Effect of Shear Deformation on Microstructural Evolution of Ni-30Fe Alloy during Hot Deformation. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2005**, 69, 341-347	0.4	1
45	Disappearance Conditions of Thermal Stress Singularities Based on Stress Intensity in Two and Three-Phase Bonded Structures. *International Journal of Fracture*, **1999**, 96, 179-201	2.3	1
44	Growth analysis and population size estimation of coconut crabs based on a large recapture dataset. *Crustacean Research*, **2021**, 50, 145-150	0.4	1
43	Conditions of Compressive Residual Stress at the Interface Edge of Dissimilar Materials.. *Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society*, **1999**, 17, 120-129	0.7	1
42	Thermal Stress Field at the Interface Edge in Dissimilar Materials.. *Zairyo/Journal of the Society of Materials Science, Japan*, **1999**, 48, 365-375	0.1	1
41	Development of High Strength and Toughness Magnesium Alloy by Grain Boundary Control **2012**, 345-347		1
40	Texture and Strain Induced by a Steel Plate by Warm Cross Roll Rolling. *Journal of the Japan Society for Technology of Plasticity*, **2009**, 50, 227-231	0.3	1
39	Grain-to-Grain Interaction Effect in Polycrystalline Plain Low-Carbon Steel within Elastic Deformation Region. *Materials*, **2021**, 14,	3.5	1
38	Structural Changes and Mechanical Resistance of Claws and Denticles in Coconut Crabs of Different Sizes.. *Biology*, **2021**, 10,	4.9	1
37	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	1.3	0
36	Effect of strain and deformation mode on cube texture formation in warm bi-axial rolled low-carbon steel. *Finite Elements in Analysis and Design*, **2021**, 183-184, 103491	2.2	0

35	Preferable Resistance against Hydrogen Embrittlement of Pearlitic Steel Deformed by Caliber Rolling. *ISIJ International*, **2022**, 62, 368-376	1.7	0
34	Columnar Structure of Claw Denticles in the Coconut Crab, Birgus latro. *Minerals (Basel, Switzerland)*, **2022**, 12, 274	2.4	0
33	Investigation on the effects of native defects on electronic structure in MgB2 by first-principles calculation. *Computational Materials Science*, **2014**, 90, 153-156	3.2	
32	Prototyping of Ultrafine-Grained Steel Fabrication. *Materials and Manufacturing Processes*, **2010**, 25, 20-25	4.1	
31	Stress Singularity Near Apex in Three-Phase Bonded Structure : Effect of Elastic Property of Intermediate Material Order of Stress Singularity. *JSME International Journal Series A-Solid Mechanics and Material Engineering*, **1995**, 38, 163-170		
30	150 Numerical analysis of deformation behavior for weld plate joints. *The Proceedings of the Computational Mechanics Conference*, **2001**, 2001.14, 99-100	0	
29	108 Effect of Shear Deformation on Development of Fine-grained Ferrite Structures. *The Proceedings of the Computational Mechanics Conference*, **2001**, 2001.14, 15-16	0	
28	Timesaving Numerical Method of Evaluating Strength of Wide Plate Weld Joints. Numerical Evaluation of Mechanical Properties of Wide Plate Weld Joints. (1).. *Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society*, **2002**, 20, 539-545	0.7	
27	Development of Ultrafine-Grained Structure through Large Strain-High Z Deformation in a Low Carbon Steel. *The Reference Collection of Annual Meeting*, **2003**, VIII.03.1, 235-236		
26	A New Evaluation Method of the Adhesive Strength of Thermal Sprayed Coatings with Interfacial Crack. *The Proceedings of the JSME Annual Meeting*, **2003**, 2003.6, 113-114		
25	Fracture Criterion of Single Fiber-Composite under Thermal and Tensile Loadings Based on Energy Release Rate. *Zairyo/Journal of the Society of Materials Science, Japan*, **2003**, 52, 815-820	0.1	
24	9008 Microstructure Evolution of Austenite Grain Interiors by Shear-Added Deformation. *The Proceedings of the Computational Mechanics Conference*, **2005**, 2005.18, 781-782	0	
23	9010 Determination of plastic working limit by circumferentially notched tension test. *The Proceedings of the Computational Mechanics Conference*, **2005**, 2005.18, 785-786	0	
22	306 Effect of Shear Deformation on Microstructure Evolution of of Austenite Grain Interiors. *The Proceedings of the Materials and Processing Conference*, **2006**, 2006.14, 155-156	0	
21	157 Improvement in Impact Toughness of a 1800 MPa-Class Low-Alloy Steel through the Use of Delamination. *The Proceedings of the Computational Mechanics Conference*, **2008**, 2008.21, 700-701	0	
20	155 Prototyping of Ultrafine-grained Steel Plate by Numerical Simulation. *The Proceedings of the Computational Mechanics Conference*, **2008**, 2008.21, 696-697	0	
19	Development of thin film and its property of magnesium alloy. *The Proceedings of the Materials and Processing Conference*, **2016**, 2016.24, 414	0	
18	Tensile Properties of Fail-Safe Bolt with an Ultrafine Elongated Grain Structure. *The Proceedings of the Materials and Mechanics Conference*, **2017**, 2017, OS1622	0	

17	Evolution of strain field in an over-matching welded joint under tension estimated using digital image correlation. *Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society*, **2017**, 35, 154-159	0.7
16	1310 Optimum Pass Design of Bar Rolling for Producing Bulk Ultrafine-grained Steel by Numerical Simulation. *The Proceedings of Design & Systems Conference*, **2009**, 2009.19, 167-172	0
15	1104 Impact Properties of Low-Carbon Steel with Ultrafme Elongated Grain Structure. *The Proceedings of the Computational Mechanics Conference*, **2010**, 2010.23, 125-126	0
14	Strengthening Mg-Al-Zn Alloy by Repetitive Oblique Shear Strain **2011**, 211-214	
13	OS0614 Gigacycle Fatigue properties of an Ultrafine-Grained Steel Processed by Warm Tempforming. *The Proceedings of the Materials and Mechanics Conference*, **2011**, 2011, _OS0614-1_-_OS0614-2_	0
12	OS19-3-4 Strengthening Mg-Al-Zn Alloys by Severe Plastic Rolling. *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics*, **2011**, 2011.10, _OS19-3-4-	0
11	OS0109 Strengthening and Toughening of Fail-safe Materials : 1^ Report, Impact toughness of a 800 MPa class low-carbon steel. *The Proceedings of the Materials and Mechanics Conference*, **2012**, 2012, _OS0109-1_-_OS0109-3_	0
10	Development of High Strength and Toughness Magnesium Alloy by Grain Boundary Control345-347	
9	OS0920 Strengthening and Toughening of Fail-safe Materials : 2^ Report, Strength - Impact toughness balance of a 1800 MPa class low-alloy steel. *The Proceedings of the Materials and Mechanics Conference*, **2013**, 2013, _OS0920-1_-_OS0920-3_	0
8	Evolution of microstructure during caliber rolling of AZ31 alloy **2013**, 317-322	
7	Evolution of Microstructure during Caliber Rolling of AZ31 Alloy317-322	
6	OS0502 Strengthening and Toughening of Fail-safe Materials : 3^ Report, Anisotropic strength and toughness properties of a 1800 MPa class low-alloy steel. *The Proceedings of the Materials and Mechanics Conference*, **2014**, 2014, _OS0502-1_-_OS0502-3_	0
5	Effect of Temperature on Stress–Strain Curve in SUS316L Metastable Austenitic Stainless Steel studied by In Situ Neutron Diffraction Experiments. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2021**, 107, 741-750	0.5
4	Improvement of strength, toughness and ductility properties in carbon steel. *Transactions of the JSME (in Japanese)*, **2018**, 84, 18-00237-18-00237	0.2
3	Mechanical Stability of Retained Austenite in Multi-Pass Cr-Ni Weld Metal in an Over-Matching Welded Joint. *Materials Transactions*, **2018**, 59, 380-385	1.3
2	Influence of Thermomechanical Treatment on Delayed Fracture Property of Mo-Bearing Medium-Carbon Steel. *ISIJ International*, **2022**, 62, 377-388	1.7
1	True Stress–True Strain Relationship up to the Plastic Deformation Limit in Ferrite–Pearlite Steel at Various Temperatures. *ISIJ International*, **2022**, 62, 361-367	1.7