Yoshikazu Todaka

List of Publications by Citations

162 papers	2,378 citations	25 h-index	43 g-index
178 ext. papers	2,600 ext. citations	2.2 avg, IF	4.83 L-index

#	Paper	IF	Citations
162	Bulk submicrocrystalline Ti produced by high-pressure torsion straining. *Scripta Materialia*, **2008**, 59, 615-618	5.6	128
161	Formation of Nanocrystalline Structure in Steels by Air Blast Shot Peening. *Materials Transactions*, **2003**, 44, 1488-1493	1.3	122
160	Production of TiNi amorphous/nanocrystalline wires with high strength and elastic modulus by severe cold drawing. *Scripta Materialia*, **2009**, 60, 749-752	5.6	98
159	Martensitic transformation in nanostructured TiNi shape memory alloy formed via severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 438-440, 643-648	5.3	95
158	Mechanical properties of a medical type titanium alloy with specific microstructural evolution through high-pressure torsion. *Materials Science and Engineering C*, **2013**, 33, 2499-507	8.3	84
157	Elastic properties of single-crystalline phase in titanium. *Acta Materialia*, **2013**, 61, 7543-7554	8.4	80
156	Comparison of Nanocrystalline Surface Layer in Steels Formed by Air Blast and Ultrasonic Shot Peening. *Materials Transactions*, **2004**, 45, 376-379	1.3	69
155	Role of strain reversal in grain refinement by severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 499, 427-433	5.3	66
154	Formation of a nanocrystalline surface layer on steels by air blast shot peening. *Journal of Materials Science*, **2007**, 42, 7716-7720	4.3	66
153	Influence of High-Pressure Torsion Straining Conditions on Microstructure Evolution in Commercial Purity Aluminum. *Materials Transactions*, **2008**, 49, 7-14	1.3	63
152	Effect of Strain Path in High-Pressure Torsion Process on Hardening in Commercial Purity Titanium. *Materials Transactions*, **2008**, 49, 47-53	1.3	63
151	Texture evolution in pure aluminum subjected to monotonous and reversal straining in high-pressure torsion. *Scripta Materialia*, **2009**, 60, 893-896	5.6	62
150	Role of strain gradient on grain refinement by severe plastic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 462, 264-268	5.3	60
149	A microstructural investigation of the surface of a drilled hole in carbon steels. *Acta Materialia*, **2007**, 55, 1397-1406	8.4	46
148	Heterogeneous structure and mechanical hardness of biomedical type Ti-29Nb-13Ta-4.6Zr subjected to high-pressure torsion. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 10, 235-45	4.1	44
147	Annealing behavior of nano-crystalline austenitic SUS316L produced by HPT. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 556, 906-910	5.3	42
146	Heterogeneous nanostructure developed in heavily cold-rolled stainless steels and the specific mechanical properties. *Scripta Materialia*, **2017**, 133, 33-36	5.6	38

145	G-phase precipitation in austenitic stainless steel deformed by high pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 552, 194-198	5.3	36
144	Microstructural refinement and wear property of Al□Si□Cu composite subjected to extrusion and high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 618, 377-384	5.3	33
143	Sliding wear behavior of sub-microcrystalline pure iron produced by high-pressure torsion straining. *Wear*, **2015**, 336-337, 58-68	3.5	33
142	Synthesis of non-equilibrium phases in immiscible metals mechanically mixed by high pressure torsion. *Journal of Materials Science*, **2011**, 46, 4296-4301	4.3	32
141	Fabrication of CuZr(Al) bulk metallic glasses by high pressure torsion. *Intermetallics*, **2009**, 17, 256-261	3.5	32
140	Influence of isothermal ageing on mechanical behaviour in Ni-rich Ti□Zr□Ni shape memory alloy. *Scripta Materialia*, **2006**, 55, 1079-1082	5.6	28
139	Microstructural evolution of precipitation-hardened □-type titanium alloy through high-pressure torsion. *Acta Materialia*, **2014**, 80, 172-182	8.4	27
138	High temperature deformation behavior of bulk cementite produced by mechanical alloying and spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 894-898	5.3	26
137	Heterogeneous Process of Disordering and Structural Refinement in Ni3Al during Severe Plastic Deformation by High-Pressure Torsion. *Materials Transactions*, **2010**, 51, 14-22	1.3	25
136	Formation of Surface Nanocrystalline Structure in Steels by Shot Peening and Role of Strain Gradient on Grain Refinement by Deformation. *ISIJ International*, **2007**, 47, 157-162	1.7	24
135	Characterization of Bulk Cementite Produced by Mechanical Alloying and Spark Plasma Sintering. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 607-614	0.2	24
134	Nanocrystalline Surface Layer of Steels Produced by Shot Peening. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2003**, 67, 690-696	0.4	24
133	Fabrication of high strength Cu□NbC composite conductor by high pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 1750-1756	5.3	23
132	Tensile Property of Submicrocrystalline Pure Fe Produced by HPT-Straining. *Materials Science Forum*, **2008**, 584-586, 597-602	0.4	23
131	Microstructural Evolution during Isothermal Aging in Ni-Rich Ti-Zr-Ni Shape Memory Alloys. *Materials Transactions*, **2007**, 48, 432-438	1.3	23
130	Formation of bimodal grain structures in high purity Al by reversal high pressure torsion. *Scripta Materialia*, **2011**, 64, 498-501	5.6	22
129	Nanocrystalline structure formation in carbon steel introduced by high speed drilling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 435-436, 383-388	5.3	22
128	Synthesis of Ferrite Nanoparticles by Mechanochemical Processing Using a Ball Mill. *Materials Transactions*, **2003**, 44, 277-284	1.3	22

127	Formation of Nanocrystalline Structure at the Surface of Drill Hole in Steel. *Materials Transactions*, **2004**, 45, 2209-2213	1.3	22
126	Thermoelectric Properties of Ca-Mg-Si Alloys. *Materials Transactions*, **2009**, 50, 1725-1729	1.3	21
125	Developing biomedical nano-grained □type titanium alloys using high pressure torsion for improved cell adherence. *RSC Advances*, **2016**, 6, 7426-7430	3.7	19
124	Effect of ethanol on the formation and properties of a Cu□NbC composite. *Journal of Alloys and Compounds*, **2010**, 503, 228-232	5.7	19
123	Improving the mechanical properties of Zr-based bulk metallic glass by controlling the activation energy for □relaxation through plastic deformation. *Applied Physics Letters*, **2014**, 105, 131910	3.4	18
122	Strength and deformation behavior of bulky cementite synthesized by mechanical milling and plasma-sintering. *Scripta Materialia*, **2006**, 54, 1925-1929	5.6	18
121	Crystal Plasticity Simulation on Effect of Heterogeneous-nanostructure Induced by Severe Cold-rolling on Mechanical Properties of Austenitic Stainless Steel. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 262-271	0.5	16
120	Phase transformation kinetics of □phase in pure Ti formed by high-pressure torsion. *Journal of Materials Science*, **2016**, 51, 2608-2615	4.3	16
119	Thermoelectric property of bulk CaMgSi intermetallic compound. *Journal of Alloys and Compounds*, **2017**, 691, 914-918	5.7	16
118	Fabrication of ZrAlNiCu bulk metallic glass composites containing pure copper particles by high-pressure torsion. *Journal of Alloys and Compounds*, **2010**, 492, 149-152	5.7	15
117	Solid-state amorphization of Cu + Zr multi-stacks by ARB and HPT techniques. *Journal of Materials Science*, **2008**, 43, 7457-7464	4.3	14
116	Tensile deformation characteristics of a Cu□Ni□Si alloy containing trace elements processed by high-pressure torsion with subsequent aging. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 730, 10-15	5.3	14
115	Mechanical behavior of a microsized pillar fabricated from ultrafine-grained ferrite evaluated by a microcompression test. *Acta Materialia*, **2014**, 73, 12-18	8.4	13
114	Heterogeneous Nano-structure and its Evolution in Heavily Cold-rolled SUS316LN Stainless Steels. *ISIJ International*, **2020**, 60, 582-589	1.7	12
113	Change in Microstructure and Mechanical Properties of Steel Components Surface Layer. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2008**, 94, 616-628	0.5	12
112	Dissolution of cementite in carbon steels by ball drop deformation and laser heating. *Journal of Alloys and Compounds*, **2007**, 434-435, 497-500	5.7	12
111	Influences of Heterogeneous Nano-Structure Developed in Heavily Cold-Rolled Austenitic Stainless Steel on Texture and Ductility. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2017**, 81, 536-541	0.4	11
110	Inverse pole figure mapping of bulk crystalline grains in a polycrystalline steel plate by pulsed neutron Bragg-dip transmission imaging. *Journal of Applied Crystallography*, **2017**, 50, 1601-1610	3.8	11

109	Cause of hardening and softening in the bulk glassy alloy Zr50Cu40Al10 after high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 627, 171-181	5.3	11
108	Formation of Nanocrystalline Structure in Steels by Air Blast Shot Peening and Particle Impact Processing. *Materials Science Forum*, **2004**, 449-452, 1149-1152	0.4	11
107	Nanocrystallization in Fe-C Alloys by Ball Milling and Ball Drop Test.. *ISIJ International*, **2002**, 42, 1430-1437	1.7	11
106	Chemisorption enhancement of single carbon and oxygen atoms near the grain boundary on Fe surface: ab initio study. *Applied Surface Science*, **2019**, 493, 1042-1047	6.7	10
105	Comparative Analysis of Plastic Flow and Grain Refinement in Pure Aluminium Subjected to Simple Shear-Based Severe Plastic Deformation Processing. *Materials Transactions*, **2012**, 53, 17-25	1.3	10
104	Effect of Nanocrystallization and Twinning on Hardness in Ni3Al Deformed by High-Pressure Torsion. *Materials Transactions*, **2009**, 50, 1123-1127	1.3	10
103	Thermoelectric Property of Na-Doped Mg2Si. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2008**, 72, 693-697	0.4	10
102	Formation of Nanocrystalline Structure by Shot Peening. *Materials Science Forum*, **2006**, 503-504, 669-674	0.4	10
101	Two-body abrasive wear property of cementite. *Wear*, **2006**, 260, 1090-1095	3.5	10
100	Synthesis of Fe-Cu Nanoparticles by Mechanochemical Processing Using a Ball Mill. *Materials Transactions*, **2002**, 43, 667-673	1.3	10
99	Effect of Lattice Defects on Tribological Behavior for Low Friction Coefficient under Lubricant in Nanostructured Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2015**, 101, 530-535	0.5	10
98	Property evolution on annealing deformed 304 austenitic stainless steel. *Journal of Materials Science*, **2012**, 47, 8128-8133	4.3	9
97	Phase Transformation and Annealing Behavior of SUS 304 Austenitic Stainless Steel Deformed by High Pressure Torsion. *Materials Science Forum*, **2010**, 654-656, 334-337	0.4	9
96	Role of strain gradient on the formation of nanocrystalline structure produced by severe plastic deformation. *Journal of Alloys and Compounds*, **2007**, 434-435, 290-293	5.7	9
95	Growth of Fe3O4 whiskers from solid solution nanoparticles of Fe□Cu and Fe□Ag systems produced by DC plasma jet method. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 340, 114-122	5.3	9
94	Nanostructure Of □type Titanium Alloys Through Severe Plastic Deformation. *Advanced Materials Letters*, **2014**, 5, 378-383	2.4	9
93	Orientation relationship between □phase and high-pressure □phase of pure group IV transition metals. *Scripta Materialia*, **2015**, 98, 1-4	5.6	8
92	Heterogeneous grain refinement of biomedical Ti□9Nb□13Ta□4.6Zr alloy through high-pressure torsion. *Scientia Iranica*, **2013**, 20, 1067-1067	1.5	8

91	Nanocrystalline Structure in Steels Produced by Various Severe Plastic Deformation Processes. *Materials Science Forum*, **2006**, 503-504, 11-18	0.4	8
90	Electronic and crystal structures of thermoelectric CaMgSi intermetallic compound. *Journal of Electron Spectroscopy and Related Phenomena*, **2016**, 206, 18-23	1.7	7
89	Influence of Heat Treatment on Phase Transformation of Ni-rich TiNi Foils Produced via Ultrafine Laminates. *Materials Transactions*, **2004**, 45, 219-224	1.3	7
88	Heterogeneous Nano-structure and Its Evolution in Heavily Cold-rolled SUS316LN Stainless Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 254-261	0.5	7
87	Effect of grain size on friction coefficient under oil lubrication in nanostructured Fe fabricated by PVD and SPD methods. *Procedia Manufacturing*, **2018**, 15, 1693-1700	1.5	7
86	Evolution of deformation texture of high-pressure □phases in pure Ti and Zr during high-pressure torsion straining. *IOP Conference Series: Materials Science and Engineering*, **2015**, 82, 012020	0.4	6
85	Hydrogen Embrittlement of Submicrocrystalline Ultra-Low Carbon Steel Produced by High-Pressure Torsion Straining. *Advanced Materials Research*, **2010**, 89-91, 763-768	0.5	6
84	Tensile and fatigue properties of sub-microcrystalline ultra-low carbon steel produced by hpt-straining. *International Journal of Materials Research*, **2009**, 100, 775-779	0.5	6
83	Microstructure and Mechanical Properties of a Biomedical □Type Titanium Alloy Subjected to Severe Plastic Deformation after Aging Treatment. *Key Engineering Materials*, **2012**, 508, 152-160	0.4	6
82	Influence of strain amount on stabilization of □phase in pure Ti by severe plastic deformation under high-pressure torsion. *Journal of Physics: Conference Series*, **2010**, 240, 012113	0.3	5
81	Dry Sliding Wear Properties of Sub-Microcrystalline Ultra-Low Carbon Steel Produced by High-Pressure Torsion Straining. *Materials Transactions*, **2012**, 53, 128-132	1.3	5
80	Reversal Straining to Manage Structure in Pure Aluminum under SPD. *Materials Science Forum*, **2008**, 584-586, 133-138	0.4	5
79	TEM investigation of intermediate phase transformation and micromodulation in Ni□Mn□a ferromagnetic shape memory alloys. *Materials Science and Technology*, **2008**, 24, 920-926	1.5	5
78	Microstructural Change of Cementite in Carbon Steels by Deformation. *Materials Science Forum*, **2004**, 449-452, 525-528	0.4	5
77	Partial Amorphization in B2 Type Shape Memory Alloys by Cold Rolling. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 283-288	0.2	5
76	Nanocrystallization of Drill Hole Surface by High Speed Drilling. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 601-604	0.2	5
75	Comparison of Nanocrystallization in Steels by Ball Milling, Shot Peening and Drilling. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 571-576	0.2	5
74	Anomalous magnetic anisotropy and magnetic nanostructure in pure Fe induced by high-pressure torsion straining. *Physical Review Research*, **2020**, 2,	3.9	5

73	Revealing defect-induced spin disorder in nanocrystalline Ni. *Physical Review Materials*, **2021**, 5,	3.2	5
72	Low-temperature hydrogenation of Mg-Ni-Nb2O5 alloy processed by high-pressure torsion. *Journal of Alloys and Compounds*, **2021**, 878, 160309	5.7	5
71	Effect of high-pressure torsion processing on microstructure and mechanical properties of a novel biomedical β-type Ti-29Nb-13Ta-4.6Zr after cold rolling. *International Journal of Microstructure and Materials Properties*, **2012**, 7, 168	0.4	4
70	Work-Softening, High Pressure Phase Formation and Powder Consolidation by HPT. *Materials Science Forum*, **2010**, 654-656, 1205-1210	0.4	4
69	Role of Strain Gradient and Dynamic Transformation on the Formation of Nanocrystalline Structure Produced by Severe Plastic Deformation. *Materials Science Forum*, **2007**, 539-543, 2787-2792	0.4	4
68	Phase Transformation and Magnetic Properties of Ferromagnetic Cu-Mn-Ga Alloys. *Materials Transactions*, **2007**, 48, 2840-2846	1.3	4
67	Synthesis of Ferrite Nanoparticles by Mechanochemical Processing using a Ball Mill. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2002**, 66, 34-39	0.4	4
66	Effect of Lattice Defects on Tribological Behavior for High Friction Coefficient under TCP Added PAO Lubrication in Nanostructured Steels. *ISIJ International*, **2020**, 60, 1358-1365	1.7	4
65	Fatigue Fracture of Duplex Stainless Steel with Heterogeneous Nanostructure by Heavy Cold Rolling. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 272-281	0.5	4
64	Formation of a metastable fcc phase and high Mg solubility in the Ti-Mg system by mechanical alloying. *Powder Technology*, **2020**, 374, 348-352	5.2	4
63	Microstructure and Wear Properties of High-Pressure Torsion Processed Iron. *Materials Science Forum*, **2017**, 890, 371-374	0.4	3
62	Effect of Lattice Defects on Tribological Behavior for High Friction Coefficient under TCP added PAO Lubrication in Nanostructured Steels. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 282-289	0.5	3
61	Phase transformation in Fe□Mn□ alloys by severe plastic deformation under high pressure. *Materials Letters*, **2016**, 185, 109-111	3.3	3
60	Strain Gradient Hardening and Pressure Induced Phase Transformation of Metals by HPT. *Materials Science Forum*, **2008**, 584-586, 493-500	0.4	3
59	Phase transformation, magnetic property and microstructure of Ni□Mn□Fe□Co□Ga ferromagnetic shape memory alloys. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 2764-2766	2.8	3
58	Influence of Shot Peening Condition on Surface Amorphization/Nanocrystallization in TiNi Shape Memory Alloy. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2006**, 70, 473-477	0.4	3
57	Production of Fe-Cu Ultrafine Particles by Plasma Jet Method. *Materials Science Forum*, **2000**, 343-346, 525-530	0.4	3
56	Phase Transformation and Magnetic Properties in Ni52FexMn21□Ga27 Alloys. *ISIJ International*, **2006**, 46, 1283-1286	1.7	3

55	Friction Property under Lubrication for Case Hardening Steel Subjected to Combined Thermomechanical Treatment with Excess Vacuum Carburizing and Subsequent Severe Plastic Deformation and Induction Hardening. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2020**, 106, 194-204	0.5	3
54	Adsorption enhancement of a fatty acid on iron surface with Σ3(1 1 1) grain boundary. *Applied Surface Science*, **2021**, 543, 148604	6.7	3
53	Effects of Natural Aging on Age-Hardening Behavior of Cu-Be-Co and Cu-Ti Alloys Severely Deformed by High-Pressure Torsion. *Materials Transactions*, **2017**, 58, 1346-1350	1.3	2
52	Cutting and rubbing process for a Ti-6Al-4V alloys, and its effects. *Transactions of the JSME (in Japanese)*, **2014**, 80, SMM0296-SMM0296	0.2	2
51	Mechanical Behavior on Micro-compression Test in Ultra-low Carbon Steel Produced by High Pressure Torsion. *Materials Research Society Symposia Proceedings*, **2011**, 1297, 169		2
50	Formation of Ultrafine-grained Structure at Drill-hole Surface of Martensitic Steels by High-speed Drilling and Their Mechanical Properties. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2010**, 96, 21-28	0.5	2
49	Dissolution of Cementite in Carbon Steels by Heavy Deformation and Laser Heat Treatment. *Materials Science Forum*, **2006**, 503-504, 461-468	0.4	2
48	Phase Transformation and Magnetic Properties of Ferromagnetic Cu-Mn-Ga Alloys. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2006**, 70, 849-855	0.4	2
47	Comparison of Nanocrystallization in Steels by Ball Milling and Ball Drop Test. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 193-198	0.2	2
46	Synthesis of Fe-Cu ultrafine particles by mechanochemical processing and their characterization. *Scripta Materialia*, **2001**, 44, 1797-1801	5.6	2
45	Increase of the mechanical response of pure aluminum by grain refinement retained with an alternative rapid sintering route. *Journal of Materials Research*, **2021**, 36, 1328-1340	2.5	2
44	Influence of Hydrogen on Local Mechanical Properties of Pure Fe with Different Dislocation Densities Investigated by Electrochemical Nanoindentation. *ISIJ International*, **2016**, 56, 2298-2303	1.7	2
43	Effect of grain boundary on the friction coefficient of pure Fe under the oil lubrication. *Tribology International*, **2021**, 155, 106781	4.9	2
42	Mechanical properties and plastic deformation behavior of severely deformed pure Fe. *Procedia Manufacturing*, **2018**, 15, 1495-1501	1.5	2
41	Crystal Plasticity Simulation Considering Microstructures of Austenitic Stainless Steel on Macroscopic Yield Function. *Materials Science Forum*, **2018**, 941, 212-217	0.4	2
40	Role of higher-order effects in spin-misalignment small-angle neutron scattering of high-pressure torsion nickel. *Physical Review Materials*, **2021**, 5,	3.2	2
39	Mechanical and Surface Functionalities of Nanostructured Ⅳ Type Titanium Alloys Through Severe Plastic Deformation **2016**, 1761-1766		1
38	Evaluation of joint interface of friction stir welding between dissimilar metals using HTS-SQUID gradiometer. *Physica C: Superconductivity and Its Applications*, **2010**, 470, 1524-1528	1.3	1

37	Nanocrystallization of Martensite Steels and Ti-6Al-4V Alloy by Shot Peening. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 471-474	0.2	1
36	Surface Amorphization of TiNi Shape Memory Alloy by Shot Peening. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 615-618	0.2	1
35	Nanostructures of Ti-Ni-N ultrafine particles produced by DC plasma jet method. *Scripta Materialia*, **2001**, 44, 2273-2277	5.6	1
34	Growth of Fe Oxide Whisker from Fe-Cu and Fe-Ag Supersaturated Solid Solution Nanoparticles. *Materials Science Forum*, **2002**, 386-388, 269-274	0.4	1
33	Crack Propagation Behavior of Impact Fracture in Case Hardening Steel Subjected to Combined Heat Treatment with Excess Vacuum Carburizing and Subsequent Induction Hardening. *ISIJ International*, **2020**, 60, 2576-2585	1.7	1
32	Pressure-induced Phase Transformation Behavior in ^|^alpha;-Mn Steels by High-pressure Torsion Straining. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2012**, 98, 541-547	0.5	1
31	Analysis and Mapping of Detailed Inner Information of Crystalline Grain by Wavelength-Resolved Neutron Transmission Imaging with Individual Bragg-Dip Profile-Fitting Analysis. *Applied Sciences (Switzerland)*, **2021**, 11, 5219	2.6	1
30	Impact Property of Case Hardening Steel Subjected to Combined Heat Treatment with Excess Vacuum Carburizing and Subsequent Induction Hardening. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 837-846	0.5	1
29	Theoretical and Experimental Study of CaMgSi Thermoelectric Properties.. *ACS Omega*, **2022**, 7, 15451-15458	3.9	1
28	Magnetic Characterization of SUS316L Deformed by High Pressure Torsion. *Advanced Materials Research*, **2011**, 239-242, 1300-1303	0.5	0
27	Finite element analysis on rolling contact fatigue of surface nanostructured steel (Effect of friction coefficient on mean shear stress under cyclic loading). *Transactions of the JSME (in Japanese)*, **2020**, 86, 19-00270-19-00270	0.2	0
26	Analytical approach for pop-in and post-pop-in deformation behavior during nanoindentation: effect of solute Si in interstitial free steel. *Journal of Materials Research*, **2021**, 36, 2571-2581	2.5	0
25	Effect of One-Pass Strain on Steady-State Grain Size by Cyclic - HPT Straining. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2021**, 85, 67-74	0.4	0
24	Hydrogen Permeation Property of Bulk Cementite. *ISIJ International*, **2021**, 61, 2320-2322	1.7	0
23	Nanostructural Characterization of Oleyl Acid Phosphate in Poly-□olefin Using Small-angle X-ray Scattering. *Chemistry Letters*, **2020**, 49, 823-825	1.7	
22	Microstructure and Tribological Properties of Sub-Microcrystalline Carbon Steel Produced by Severe Plastic Deformation. *Applied Mechanics and Materials*, **2018**, 876, 3-8	0.3	
21	Electrochemical Behaviors of Biomedical Nanograined □Type Titanium Alloys. *Materials Science Forum*, **2016**, 879, 2549-2554	0.4	
20	Radiographic and Tomographic Neutron Bragg Imaging for Quantitative Visualization of Wide Area Crystalline Structural Information. *Materials Science Forum*, **2014**, 783-786, 2109-2114	0.4	

19	Nanostructure and Fatigue Behavior of Type Titanium Alloy Subjected to High-Pressure Torsion after Aging Treatment. *Advanced Materials Research*, **2014**, 891-892, 9-14	0.5
18	Anomalous Property Evolution during Annealing in HPTed SUS 304 Austenitic Stainless Steel. *Materials Science Forum*, **2010**, 667-669, 589-592	0.4
17	Surface Amorphization in Intermetallic Compounds by Shot Peening. *Materials Science Forum*, **2004**, 449-452, 197-200	0.4
16	Nanocrystallization in Carbon Steels by Various Severe Plastic Deformation Processes **2005**, 505-510	
15	Deformation and Dissolution of Cementite by Severe Plastic Deformation. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 157-160	0.2
14	Nanostructures of Ti-Ni-N Ultrafine Particles Produced by DC Plasma Jet Method. *Materials Science Forum*, **2001**, 360-362, 391-396	0.4
13	Microstructural Changes of Cementite in Pearlite Steel by Cold Rolling. *Materia Japan*, **2004**, 43, 1022-1022	2.2
12	Lower and Higher Friction Coefficients under Oil Lubrication Based on Microstructure Control in Steels. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2020**, 71, 756-762	0.1
11	Development of Shape Memory Actuator for Cryogenic Application **2010**, 413-423	
10	S0201-1-4 Change in microstructure and mechanical properties of type Ti-29Nb-13Ta-4.6Zr by high-pressure torsion. *The Proceedings of the JSME Annual Meeting*, **2010**, 2010.5, 17-18	
9	OS2314 Rolling contact fatigue behavior of S45C tempered martensite steel with ultra-fine grained structure by surface severe plastic deformation and super rapid induction heating and quenching. *The Proceedings of the Materials and Mechanics Conference*, **2011**, 2011, _OS2314-1_-_OS2314-2_	0
8	420 Improvement of Mechanical Biocompatibility in Ti-29Nb-13Ta-4.6Zr through High Pressure Torsion for Biomedical Applications. *The Proceedings of the Materials and Processing Conference*, **2012**, 2012.20, _420-1_-_420-2_	0
7	419 Microstructural evaluation of type Ti-29Nb-13Ta-4.6Zr through high-pressure torsion after cold rolling and aging treatment. *The Proceedings of the Materials and Processing Conference*, **2012**, 2012.20, _419-1_-_419-5_	0
6	Recrystallization Behavior in Ti-13Cr-lFe-3Al Alloy after Severe Plastic Deformation895-902	
5	207 Effects of high-pressure torsion on corrosion behaviors of biomedical p-type titanium alloy in simulated body fluids. *The Proceedings of the Materials and Processing Conference*, **2013**, 2013.21, _207-1_-_207-5_	0
4	Wear and Adhesion Properties of High-Pressure Torsion Processed Carbon Steel. *Key Engineering Materials*, **2020**, 846, 157-161	0.4
3	Macroscopic viscoelastic deformation at room temperature in mechanically rejuvenated Zr-based metallic glass. *MRS Communications*, **2021**, 11, 330-335	2.7
2	Effect of hetero- and homo-nanostructure on the hydrogen embrittlement resistance in heavily deformed 316LN austenitic stainless steel. *MRS Advances*, **2021**, 6, 682-688	0.7

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