Takahito Ohmura

List of Publications by Year
in descending order

147 papers	2,865 citations	172207 29 h-index	223531 46 g-index
150 all docs	150 docs citations	150 times ranked	2057 citing authors

#	Article	IF	Citations
1	Direct observation of grain boundary formation in bcc iron through TEM in situ compression test. Scripta Materialia, 2022, 207, 114275.	2.6	4
2	Small-scale analysis of brittle-to-ductile transition behavior in pure tungsten. Journal of Materials Science and Technology, 2022, 105, 242-258.	5.6	15
3	Nanomechanical Characterization of Metallic Materials. , 2022, , 157-195.		1
4	Nano-mechanical and Sub-micro-structural Characterization of Spot-Laser-Quenched Carbon Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2022, , .	0.1	1
5	Nanomechanical Analysis of SUS304L Stainless Steel with Bimodal Distribution in Grain Size. Materials Transactions, 2022, 63, 545-554.	0.4	3
6	High-throughput evaluation of stressâ€"strain relationships in Niâ€"Coâ€"Cr ternary systems via indentation testing of diffusion couples. Journal of Alloys and Compounds, 2022, 910, 164868.	2.8	11
7	Ferroelastic and plastic behaviors in pseudo-single crystal micropillars of nontransformable tetragonal zirconia. Acta Materialia, 2021, 203, 116471.	3.8	9
8	Effects of Grain Boundary Geometry and Boron Addition on the Local Mechanical Behavior of Interstitial-Free (IF) Steels. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 30-39.	0.2	2
9	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.	0.6	11
10	Mechanical response of dislocation interaction with grain boundary in ultrafine-grained interstitial-free steel. Acta Materialia, 2021, 206, 116621.	3.8	68
11	Direct Characterization of the Relation between the Mechanical Response and Microstructure Evolution in Aluminum by Transmission Electron Microscopy In Situ Straining. Materials, 2021, 14, 1431.	1.3	2
12	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.	1.2	2
13	Macroscopic viscoelastic deformation at room temperature in mechanically rejuvenated Zr-based metallic glass. MRS Communications, 2021, 11, 330-335.	0.8	2
14	Recent Advances in Indentation Techniques and Their Application to Mechanical Characterization. Materials Transactions, 2021, 62, 563-569.	0.4	5
15	Pop-In Phenomenon as a Fundamental Plasticity Probed by Nanoindentation Technique. Materials, 2021, 14, 1879.	1.3	25
16	Temperature-dependent deformation behavior of Î³ and Î³â€² single-phase nickel-based superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 818, 141439.	2.6	11
17	Local Deformation Behavior of the Copper Harmonic Structure near Grain Boundaries Investigated through Nanoindentation. Materials, 2021, 14, 5663.	1.3	3
18	Effects of Grain Boundary Geometry and Boron Addition on the Local Mechanical Behavior of Interstitial-Free (IF) Steels. Materials Transactions, 2021, 62, 1479-1488.	0.4	9

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19	Multiscale analyses of the interaction between dislocation and Î£9 symmetric tilt grain boundaries in Feâ€“Si bicrystals by nanoindentation technique. International Journal of Plasticity, 2021, 145, 103047.	4.1	8
20	Evaluation of Grain Boundary Strength through Nanoindentation Technique. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 40-48.	0.2	12
21	Nanoindentation-induced plasticity in cubic zirconia up to 500ÂÂ°C. Acta Materialia, 2020, 184, 59-68.	3.8	18
22	Real time observation of martensite transformation for a 0.4C low alloyed steel by neutron diffraction. Acta Materialia, 2020, 184, 30-40.	3.8	27
23	Inverse estimation approach for elastoplastic properties using the load-displacement curve and pile-up topography of a single Berkovich indentation. Materials and Design, 2020, 194, 108925.	3.3	27
24	Self-healing by design: universal kinetic model of strength recovery in self-healing ceramics. Science and Technology of Advanced Materials, 2020, 21, 593-608.	2.8	21
25	Unique universal scaling in nanoindentation pop-ins. Nature Communications, 2020, 11, 4177.	5.8	43
26	Nano-Indentation Properties of Tungsten Carbide-Cobalt Composites as a Function of Tungsten Carbide Crystal Orientation. Materials, 2020, 13, 2137.	1.3	12
27	Correlation Between the Indentation Properties and Microstructure of Dissimilar Capacitor Discharge Welded WC-Co/High-Speed Steel Joints. Materials, 2020, 13, 2657.	1.3	18
28	Continuous and discontinuous yielding behaviors in ferrite-cementite steels. Acta Materialia, 2020, 196, 565-575.	3.8	35
29	The effect of boundary or interface on stress-induced martensitic transformation in a Fe-Ni alloy. Materials Today Communications, 2020, 23, 100896.	0.9	8
30	Influence of carbon concentration and magnetic transition on the austenite lattice parameter of 30Mn-C steel. Materials Characterization, 2020, 163, 110243.	1.9	4
31	Effect of Solute Carbon on Onset of Local Plastic Deformation in BCC Iron. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 372-381.	0.1	8
32	Effect of grain boundaries on local mechanical response in Î² type titanium alloy. The Proceedings of Ibaraki District Conference, 2020, 2020.28, 416.	0.0	0
33	<i>In situ</i> Neutron Diffraction on Ferrite and Pearlite Transformations for a 1.5Mn-1.5Si-0.2C Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 262-271.	0.1	0
34	Effect of phase stability on local mechanical behavior in beta type titanium alloys. Keikinzoku/Journal of Japan Institute of Light Metals, 2020, 70, 429-431.	0.1	0
35	Nano-Indentation Measurement for Heat Resistant Alloys at Elevated Temperatures in Inert Atmosphere. Materials Transactions, 2019, 60, 1411-1415.	0.4	8
36	Determination of the Yield Radius and Yield Stress in 2198-T3 Aluminum Alloy by Means of the Dual-Scale Instrumented Indentation Test. Materials Transactions, 2019, 60, 1450-1456.	0.4	5

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37	Mechanical and fracture behaviour of the three-scale hierarchy structure in As-deposited and annealed nanocrystalline electrodeposited Niâ€“Fe alloys. Journal of Materials Science, 2019, 54, 13378-13393.	1.7	4
38	Analysis of deformation behavior in beta titanium alloys using TEM in-situ observation. Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 273-280.	0.1	3
39	Atomistic prediction of the temperature- and loading-rate-dependent first pop-in load in nanoindentation. International Journal of Plasticity, 2019, 121, 280-292.	4.1	41
40	In-situ transmission electron microscopy investigation of compressive deformation in interphase-precipitatedÂcarbide-strengthened Î±-iron single-crystal nanopillars. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 406-415.	2.6	7
41	Effect of grain boundary segregation of carbon on critical grain boundary strength of ferritic steel. Scripta Materialia, 2019, 169, 38-41.	2.6	32
42	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. Advanced Functional Materials, 2019, 29, 1900311.	7.8	20
43	Mechanical Behavior of Individual Retained Austenite Grains in High Carbon Quenched-tempered Steel. ISIJ International, 2019, 59, 559-566.	0.6	16
44	Nano-indentation Measurement for Heat Resistant Alloys at Elevated Temperatures in Inert Atmosphere. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2019, 2019, 1010B1245.	0.0	0
45	Determining suitable parameters for inverse estimation of plastic properties based on indentation marks. International Journal of Plasticity, 2019, 116, 81-90.	4.1	44
46	Nano-indentation Measurement for Heat Resistant Alloys at Elevated Temperatures in Inert Atmosphere. The Proceedings of the Materials and Mechanics Conference, 2019, 2019, OS1802.	0.0	0
47	TEM investigations on lath martensite substructure in quenched Fe-0.2C alloys. Materials Characterization, 2018, 135, 175-182.	1.9	33
48	Transmission electron microscopy investigation of separated nucleation and in-situ nucleation in AA7050 aluminium alloy. Acta Materialia, 2018, 149, 377-387.	3.8	168
49	Electron diffraction analysis of quenched Feâ€“C martensite. Journal of Materials Science, 2018, 53, 2976-2984.	1.7	28
50	<i>In situ</i> Neutron Diffraction Study on Ferrite and Pearlite Transformations for a 1.5Mn-1.5Si-0.2C Steel. ISIJ International, 2018, 58, 2125-2132.	0.6	13
51	Effect of Low Temperature Aging on Hall-Petch Coefficient in Ferritic Steels Containing a Small Amount of Carbon and Nitrogen. ISIJ International, 2018, 58, 1920-1926.	0.6	18
52	A Simple Method for Observing <i>Ï‰</i>-Fe Electron Diffraction Spots from <112>_{<i>Î±</i>-Fe} Directions of Quenched Feâ€“C Twinned Martensite. ISIJ International, 2018, 58, 159-164.	0.6	22
53	Randomization of Ferrite/austenite Orientation Relationship and Resultant Hardness Increment by Nitrogen Addition in Vanadium-microalloyed Low Carbon Steels Strengthened by Interphase Precipitation. ISIJ International, 2018, 58, 542-550.	0.6	13
54	Lath formation mechanisms and twinning as lath martensite substructures in an ultra low-carbon iron alloy. Scientific Reports, 2018, 8, 14264.	1.6	34

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55	In situ heating TEM observations on carbide formation and Î±-Fe recrystallization in twinned martensite. Scientific Reports, 2018, 8, 14454.	1.6	21
56	Deformation Microstructure Developed by Nanoindentation of a MAX Phase Ti₂AlC. Materials Transactions, 2018, 59, 771-778.	0.4	14
57	Morphological evolution of GP zones and nanometer-sized precipitates in the AA2050 aluminium alloy. International Journal of Lightweight Materials and Manufacture, 2018, 1, 142-156.	1.3	14
58	Effect of Indentation Orientation on the Onset of Plastic Deformation for a MAX Phase Ti₂AlC. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2018, 82, 162-168.	0.2	3
59	Effect of phase stability on deformation mechanism of Î² titanium alloy. The Proceedings of Ibaraki District Conference, 2018, 2018.26, 414.	0.0	0
60	Sensitivity analysis of indentation and inverse estimation of elastoplastic property. The Proceedings of the Materials and Mechanics Conference, 2018, 2018, OS0903.	0.0	1
61	Physical modeling of intermittent plasticity during indentation-induced deformation in BCC metals. The Proceedings of the Computational Mechanics Conference, 2018, 2018.31, 284.	0.0	0
62	Local Mechanical Response of Cold Worked Beta-Type Titanium Alloy. The Proceedings of Ibaraki District Conference, 2018, 2018.26, 405.	0.0	0
63	The evaluation of the composition dependence of fracture toughness of Al3Nb alloys by using micro-size fracture testing. MRS Advances, 2017, 2, 1405-1410.	0.5	1
64	Mechanical properties and dislocation character of YB4 and YB6. Intermetallics, 2017, 89, 86-91.	1.8	8
65	Application of Radio Frequency Glow Discharge Sputtering for Nanoindentation Sample Preparation. Journal of Materials Engineering and Performance, 2017, 26, 1245-1250.	1.2	0
66	Multi-scaled heterogeneous deformation behavior of pearlite steel studied by in situ neutron diffraction. Scripta Materialia, 2017, 140, 45-49.	2.6	13
67	A Novel Design Approach for Self-Crack-Healing Structural Ceramics with 3D Networks of Healing Activator. Scientific Reports, 2017, 7, 17853.	1.6	56
68	Microstructural Evolution and Carbides in Quenched Ultra-low Carbon (Feâ€“C) Alloys. ISIJ International, 2017, 57, 1233-1240.	0.6	32
69	Effect of Low Temperature Aging on Hall-Petch Coefficient in Ferritic Steels Containing a Small Amount of Carbon and Nitrogen. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 491-497.	0.1	16
70	Analysis of pseudoelastic behavior of Gum Metal by Nanoindentation. The Proceedings of Ibaraki District Conference, 2017, 2017.25, 423.	0.0	0
71	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of its Microstructure â€“Part III: Micro-tensile Behavior of Pre-strained Dual-phase Steel. ISIJ International, 2016, 56, 2084-2092.	0.6	3
72	3D Observation on Nano-sized VC Precipitates Formed in a Low Carbon Steel through Interphase Precipitation. Materia Japan, 2016, 55, 593-593.	0.1	1

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73	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of its Microstructure â€"Part I: Proposal of the Quantification Technique of the Punching Damage of the Dual Phase Steel. ISIJ International, 2016, 56, 2068-2076.	0.6	11
74	In-situ transmission electron microscopy investigation of the deformation behavior of spinodal nanostructured Î´-ferrite in a duplex stainless steel. Scripta Materialia, 2016, 125, 44-48.	2.6	34
75	In-situ neutron diffraction during tension-compression cyclic deformation of a pearlite steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 522-530.	2.6	24
76	Softening and compressive twinning in nanosecond ultraviolet pulsed laser-treated Ti6Al4V. Scripta Materialia, 2016, 113, 139-144.	2.6	13
77	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of itsâ€™ Microstructure â€" Part I: Proposal of the Quantification Technique of the Punching Damage of the Dual Phase Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 244-252.	0.1	0
78	Quantification of Large Deformation with Punching in Dual Phase Steel and Change of itsâ€™ Microstructure â€" Part III: Micro-tensile Behavior of Pre-strained Dual-phase Steel. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 260-267.	0.1	4
79	B11-P-11The effect of aging on the phase transformation of AA7050 aluminum alloys. Microscopy (Oxford, England), 2015, 64, i83.2-i83.	0.7	0
80	Nanomechanical and in situ TEM characterization of boron carbide thin films on helium implanted substrates: Delamination, real-time cracking and substrate buckling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 54-64.	2.6	6
81	Evaluationof fracture toughness ofalpha-Nb5Si3 by micro-sized cantilever beam testing. Materials Research Society Symposia Proceedings, 2015, 1760, 187.	0.1	2
82	Hardness modification of Alâ€"Mgâ€"Si alloy by using energetic ion beam irradiation. Nuclear Instruments & Methods in Physics Research B, 2015, 351, 1-5.	0.6	5
83	Effects of transformation temperature on VC interphase precipitation and resultant hardness in low-carbon steels. Acta Materialia, 2015, 84, 375-384.	3.8	89
84	107 Dislocation motion and local deformation behavior of BCC metals. The Proceedings of the Computational Mechanics Conference, 2015, 2015.28, _107-1_-_107-2_.	0.0	0
85	Dislocation Theories Applied to the Elucidation of Mechanisms of Metal Strengthening. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 1076-1088.	0.1	5
86	Fabrication of MgB₂superconducting wires with a hybrid method combining internal-Mg-diffusion and powder-in-tube processes. Superconductor Science and Technology, 2014, 27, 055017.	1.8	14
87	Plasticity Initiation and Evolution during Nanoindentation of an Ironâ€"3% Silicon Crystal. Physical Review Letters, 2014, 112, 145504.	2.9	56
88	Degradation analysis of REBCO coils. Superconductor Science and Technology, 2014, 27, 085014.	1.8	9
89	Real time correlation between flow stress and dislocation density in steel during deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 188-193.	2.6	23
90	Local Mechanical Behavior Related to Materials Properties ^|^mdash;A Grand Challenge through Nano-Mechanical Characterization^|^mdash;. Materia Japan, 2014, 53, 312-320.	0.1	6

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91	Recent global trends in structural materials research. Science and Technology of Advanced Materials, 2013, 14, 010301.	2.8	0
92	High-performance MgB₂superconducting wires for use under liquid-helium-free conditions fabricated using an internal Mg diffusion process. Superconductor Science and Technology, 2013, 26, 125003.	1.8	24
93	The critical current properties of 37-filament internal Mg diffusion-processed MgB2wires. Superconductor Science and Technology, 2013, 26, 105027.	1.8	6
94	Analysis of local deformation behavior in metallic materials through nanoindentation technique. Keikinzoku/Journal of Japan Institute of Light Metals, 2013, 63, 65-72.	0.1	4
95	Prospects of Nanoindentation and Related Techniques. Journal of the Japan Society for Precision Engineering, 2013, 79, 1181-1184.	0.0	0
96	Evaluation of Mechanical Properties by Nano-scale Characterization. Journal of the Japan Society for Technology of Plasticity, 2013, 54, 886-890.	0.0	0
97	Effects of lattice defects on indentation-induced plasticity initiation behavior in metals. Journal of Materials Research, 2012, 27, 1742-1749.	1.2	38
98	Effect of Dislocation Density on the Initiation of Plastic Deformation on Fe–C Steels. Materials Transactions, 2012, 53, 907-912.	0.4	30
99	Strength evaluation of <i>Î±</i> and <i>Î²</i> phases by nanoindentation in Tiâ€“15Mo alloys with Fe and Al addition. Materials Science and Technology, 2012, 28, 342-347.	0.8	14
100	Martensitic phase transformation and pop-in in compression of austenitic steel nanoplates observed in situ by transmission electron microscopy. Materials Letters, 2012, 75, 107-110.	1.3	6
101	Dislocation character transition and related mechanical response in a body-centered cubic single crystal. Scripta Materialia, 2012, 67, 388-391.	2.6	17
102	The effect of interstitial carbon on the initiation of plastic deformation of steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 396-401.	2.6	42
103	Direct observation of plastic deformation in ironâ€“3% silicon single crystal by in situ nanoindentation in transmission electron microscopy. Scripta Materialia, 2011, 64, 919-922.	2.6	28
104	Nanoindentation/atomic force microscopy analyses of Îµ-martensitic transformation and shape memory effect in Feâ€“28Mnâ€“6Siâ€“5Cr alloy. Scripta Materialia, 2011, 65, 942-945.	2.6	43
105	Grain size dependence of the elastic modulus in nanostructured NiTi. Scripta Materialia, 2010, 63, 977-980.	2.6	45
106	Characterization of local deformation behavior of Feâ€“Ni lenticular martensite by nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1869-1874.	2.6	26
107	Evaluation of matrix strength in ultra-fine grained pure Al by nanoindentation. Journal of Materials Research, 2009, 24, 2917-2923.	1.2	14
108	Alteration in nanohardness of matrix phase associated with precipitation during long-term aging of type 316 stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 489, 85-92.	2.6	15

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109	Analysis of grain boundary effect of bulk polycrystalline materials through nanomechanical characterization. Journal Physics D: Applied Physics, 2008, 41, 074015.	1.3	19
110	Elastic properties of heat resistant steels after long-term creep exposure. Materials at High Temperatures, 2008, 25, 179-185.	0.5	1
111	ãƒŠãƒŽã‚¤ãƒ³ãƒ‡ãƒ³ãƒ†ãƒ¼ã‚·ãƒ§ãƒ³ã«ã,ˆã‚‹æœ–™è©•ä¾¡. Materia Japan, 2007, 46, 251-258.	0.1	12
112	Plasticity initiation and subsequent deformation behavior in the vicinity of single grain boundary investigated through nanoindentation technique. Journal of Materials Science, 2007, 42, 1728-1732.	1.7	58
113	Inhomogeneous nano-mechanical properties in the multi-phase microstructure of long-term aged type 316 stainless steel. Journal of Materials Research, 2006, 21, 1229-1236.	1.2	27
114	A New Approach for Interpretation of Strengthening Mechanism of Martensitic Steel through Characterization of Local Deformation Behavior. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2006, 92, 295-310.	0.1	8
115	Microstructure effect on nanohardness distribution for medium-carbon martensitic steel. Science in China Series D: Earth Sciences, 2006, 49, 10-19.	0.9	7
116	Indentation-Induced Deformation Behavior in Martensitic Steel Observed through In Situ Nanoindentation in a Transmission Electron Microscopy. Materials Science Forum, 2006, 503-504, 239-244.	0.3	3
117	Nanoindentation-Induced Deformation Behavior in the Vicinity of Single Grain Boundary of Interstitial-Free Steel. Materials Transactions, 2005, 46, 2026-2029.	0.4	82
118	Evaluation of Grain Boundary Effect on Strength of Fe–C Low Alloy Martensitic Steels by Nanoindentation Technique. Materials Transactions, 2005, 46, 1301-1305.	0.4	17
119	Behaviour of Irâ€"24 at.-%Ta films on Ni based single crystal superalloys. Surface Engineering, 2005, 21, 53-59.	1.1	9
120	Treatment of Pseudoarthrosis Using Tissue-Engineered Bone Graft. Key Engineering Materials, 2005, 284-286, 1057-1060.	0.4	1
121	Evaluation of Grain Boundary Effect on the Strength of Fe-C Martensitic Steels through Nanoindentation Technique. Materials Science Forum, 2005, 475-479, 4113-4116.	0.3	5
122	Effect of Inhomogeneity of Carbide Precipitation on Nanohardness Distribution for Martensitic Steels. Materials Science Forum, 2005, 475-479, 4109-4112.	0.3	2
123	Experience of Osteogenetic Therapy with Advanceded Bio-Artificial Bone - a Study in 25 Cases. Key Engineering Materials, 2004, 254-256, 1075-1078.	0.4	1
124	Microstructure and mechanical properties of Irâ€"Ta coatings on nickel-base single-crystal superalloy TMS-75. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1208-1217.	0.9	9
125	Hard metallic glass of tungsten-based alloy. Applied Physics Letters, 2004, 84, 4911-4913.	1.5	49
126	Mechanical characterization of secondary-hardening martensitic steel using nanoindentation. Journal of Materials Research, 2004, 19, 79-84.	1.2	15

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127	Dislocationâ€"grain boundary interactions in martensitic steel observed through in situ nanoindentation in a transmission electron microscope. Journal of Materials Research, 2004, 19, 3626-3632.	1.2	127
128	Matrix strength evaluation of ultra-fine grained steel by nanoindentation. Journal of Materials Research, 2004, 19, 347-350.	1.2	14
129	Radiation-induced swelling and softening in magnesium aluminate spinel irradiated with high-flux Cuâˆ' ions. Journal of Nuclear Materials, 2004, 326, 211-216.	1.3	4
130	Mechanical characterization of secondary-hardening martensitic steel using nanoindentation. , 2004, 19, 79.		1
131	Evaluation of temper softening behavior of Feâ€"C binary martensitic steels by nanoindentation. Scripta Materialia, 2003, 49, 1157-1162.	2.6	84
132	Evaluation of mechanical properties of ceramic coatings on a metal substrate. Surface and Coatings Technology, 2003, 169-170, 728-731.	2.2	22
133	Relationship between nanohardness and microstructures in high-purity Feâ€"C as-quenched and quench-tempered martensite. Journal of Materials Research, 2003, 18, 1465-1470.	1.2	57
134	Evaluation of Mechanical Properties by Nanoindentation. Zairyo To Kankyo/ Corrosion Engineering, 2003, 52, 18-22.	0.0	1
135	Evaluation of matrix strength of Fe-C as-quenched and quench-tempered martensite using nanoindentation techniques. European Physical Journal Special Topics, 2003, 112, 267-270.	0.2	3
136	OS06W0420 Nanoindentation technique as a probe for characteristic deformation size. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS06W0420-_OS06W0420.	0.0	0
137	Evaluation of the matrix strength of Fe-0.4 wt% C tempered martensite using nanoindentation techniques. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 1903-1910.	0.8	9
138	Evaluation of the matrix strength of Fe-0.4 wt% C tempered martensite using nanoindentation techniques. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 1903-1910.	0.8	12
139	Nanoindentation loadâ€"displacement behavior of pure face centered cubic metal thin films on a hard substrate. Thin Solid Films, 2001, 385, 198-204.	0.8	54
140	Nanohardness measurement of high-purity Feâ€"C martensite. Scripta Materialia, 2001, 45, 889-894.	2.6	120
141	Nanoindentation Apparatus and Method of Operation. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2000, 51, 255-261.	0.1	2
142	The combined effect of molybdenum and nitrogen on the fatigued microstructure of 316 type austenitic stainless steel. Scripta Materialia, 1999, 41, 467-473.	2.6	62
143	Evaluation of mechanical properties in nanometer scale using AFM-based nanoindentation tester. Scripta Materialia, 1999, 12, 1049-1052.	0.5	54
144	Evaluation of Vickers Hardness by Nanoindentation Measurement.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1998, 64, 2567-2573.	0.2	15

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145	Ultra-microindentation of silicon at elevated temperatures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 1073-1084.	0.8	99
146	Hardness of 12Cr8Mo ferritic steels irradiated by Ni ions. Journal of Nuclear Materials, 1995, 225, 187-191.	1.3	14
147	Application of Nanoindentation Technique in Martensitic Structures. , 0, , .		7