

# Yoshikazu Nakai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138  
papers

1,434  
citations

19  
h-index

34  
g-index

151  
ext. papers

1,617  
ext. citations

1.7  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
138	Effects of rolling reduction and direction on fatigue crack propagation in commercially pure titanium with harmonic structure. <i>International Journal of Fatigue</i> , <b>2021</b> , 143, 106018	5	6
137	Compliance method to measure crack length and crack closure for automated fatigue crack propagation test of nanocrystalline nickel film. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 254, 107925	4.2	0
136	Effects of Grain Size and Grain Boundary Stability on Mechanical and Fatigue Properties of Nanocrystalline Nickel Thin Films. <i>Materials Transactions</i> , <b>2021</b> , 62, 1320-1327	1.3	1
135	Effects of texture and stress sequence on twinning, detwinning and fatigue crack initiation in extruded magnesium alloy AZ31. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 826, 141941	5.3	2
134	The effects of thermo-mechanical processing on fatigue crack propagation in commercially pure titanium with a harmonic structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138892	5.3	13
133	Effect of bimodal harmonic structure on fatigue properties of austenitic stainless steel under axial loading. <i>International Journal of Fatigue</i> , <b>2019</b> , 127, 222-228	5	11
132	Evaluation of Interfacial Fracture Toughness and Interfacial Shear Strength of Typha Spp. Fiber/Polymer Composite by Double Shear Test Method. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
131	Evaluation of Fatigue Properties under Four-point Bending and Fatigue Crack Propagation in Austenitic Stainless Steel with a Bimodal Harmonic Structure. <i>Frattura Ed Integrita Strutturale</i> , <b>2019</b> , 13, 545-553	0.9	8
130	Evaluation of misorientation on metal material by Diffraction Contrast Tomography measurement Using Synchrotron Radiation. <i>The Proceedings of the Materials and Mechanics Conference</i> , <b>2019</b> , 2019, OS1605	0	
129	Effect of plasma surface modification on cell adhesion to PET material. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2019</b> , 2019, J02305	0	
128	Fatigue crack initiation site and propagation paths in high-cycle fatigue of magnesium alloy AZ31. <i>International Journal of Fatigue</i> , <b>2019</b> , 123, 248-254	5	18
127	Observations of Twinning and Detwinning in Magnesium Alloy by Synchrotron Radiation DCT and EBSD. <i>Procedia Structural Integrity</i> , <b>2019</b> , 23, 83-88	1	4
126	Effect of TiB Orientation on Near-Threshold Fatigue Crack Propagation in TiB-Reinforced Ti-3Al-2.5V Matrix Composites Treated with Heat Extrusion. <i>Materials</i> , <b>2019</b> , 12,	3.5	11
125	Mechanism of Fatigue Crack Initiation and Propagation in Commercially Pure Titanium and Titanium Alloy with Bimodal Harmonic Structure. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , <b>2019</b> , 66, 97-102	0.2	1
124	Fractographic analysis of fatigue crack initiation and propagation in CP titanium with a bimodal harmonic structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 716, 228-234	5.3	22
123	Study on cell adhesion using plasma surface modification method. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2018</b> , 2018, J0270102	0	
122	Statistical fatigue properties and small fatigue crack propagation in bimodal harmonic structured Ti-6Al-4V alloy under four-point bending. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 711, 29-36	5.3	24

121	Fatigue Damage Evaluation by Diffraction Contrast Tomography Using Ultra-Bright Synchrotron Radiation. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 380	0.3	
120	Observation of Flaking Process in Rolling Contact Fatigue by Laminography Using Ultra-bright Synchrotron Radiation. <i>MATEC Web of Conferences</i> , <b>2018</b> , 165, 11002	0.3	0
119	4D observations of rolling contact fatigue processes by laminography using ultra-bright synchrotron radiation. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 183, 180-189	4.2	7
118	Recent Trends of Fatigue Research. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2017</b> , 66, 621-626	0.1	1
117	Change of misorientation of individual grains in fatigue of polycrystalline alloys by diffraction contrast tomography using ultrabright synchrotron radiation. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 402-410	1	2
116	Evaluation of near-threshold fatigue crack propagation in harmonic-structured CP titanium with a bimodal grain size distribution. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 181, 77-86	4.2	27
115	Rolling Contact Fatigue Damage from Artificial Defects and Sulphide Inclusions in High Strength Steel. <i>Procedia Structural Integrity</i> , <b>2017</b> , 7, 468-475	1	8
114	Observation of the initial process of internal fracture in very high cycle fatigue in Ti-6Al-4V by synchrotron radiation CT imaging. <i>Transactions of the JSME (in Japanese)</i> , <b>2017</b> , 83, 17-00104-17-00104	0.2	2
113	Misorientation Measurement of Individual Grains in Fatigue of Polycrystalline Alloys by Diffraction Contrast Tomography Using Ultrabright Synchrotron Radiation. <i>Materials Science Forum</i> , <b>2016</b> , 879, 1355-1360	0.4	2
112	Non-destructive observation of internal fatigue crack growth in Ti6Al4V by using synchrotron radiation CT imaging. <i>International Journal of Fatigue</i> , <b>2016</b> , 93, 397-405	5	44
111	Effect of defect shape on rolling contact fatigue crack initiation and propagation in high strength steel. <i>International Journal of Fatigue</i> , <b>2016</b> , 92, 507-516	5	20
110	Detection of small internal fatigue cracks in Ti-6Al-4V by using synchrotron radiation CT imaging. <i>Mechanical Engineering Letters</i> , <b>2016</b> , 2, 16-00233-16-00233	0.5	10
109	Effect of harmonic structure design with bimodal grain size distribution on near-threshold fatigue crack propagation in Ti6Al4V alloy. <i>International Journal of Fatigue</i> , <b>2016</b> , 92, 616-622	5	29
108	4D evaluation of grain shape and fatigue damage of individual grains in polycrystalline alloys by diffraction contrast tomography using ultrabright synchrotron radiation. <i>International Journal of Fatigue</i> , <b>2016</b> , 82, 247-255	5	9
107	Effects of inclusion size and orientation on rolling contact fatigue crack initiation observed by laminography using ultra-bright synchrotron radiation. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 3117-3124	1	4
106	Formation of nitrated layer using atmospheric-controlled IH-FPP and its effect on the fatigue properties of Ti-6Al-4V alloy under four-point bending. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 3432-3438	1	10
105	Evaluation of near-threshold fatigue crack propagation in Ti-6Al-4V Alloy with harmonic structure created by Mechanical Milling and Spark Plasma Sintering. <i>Frattura Ed Integrita Strutturale</i> , <b>2015</b> , 9,	0.9	6
104	OS4-12 4D Observation of Crack Propagation Behavior under Rolling Contact Fatigue by Synchrotron Radiation Laminography(3D/4D image-based analyses and simulations 4,OS4 3D/4D image-based analyses and simulations,MEASUREMENT METHODS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics, Asian Conference on Experimental Mechanics</i> , 2015, 2015.14, 54	0	

103	OS8-17 4D Observations of Pit Growth and Crack Initiation under Corrosion Fatigue of High-strength Aluminum Alloy by Micro CT Imaging Using Ultra-bright Synchrotron Radiation(Environmental effect on fatigue,OS8 Fatigue and fracture mechanics,STRENGTH OF MATERIALS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics, 2015</i> , 2015.14, 123	0	
102	OS8-3 Evaluation of High Cycle Fatigue Damage for Austenitic Stainless Steel by Diffraction Contrast Tomography Using Ultra-bright Synchrotron Radiation(Fatigue monitoring,OS8 Fatigue and fracture mechanics,STRENGTH OF MATERIALS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics, 2015</i> , 2015.14, 123	0	
101	OS8-13 Effects of Harmonic Structure and Grain Size on Fatigue Crack Propagation of Ti-6Al-4V Alloy(Fatigue crack propagation,OS8 Fatigue and fracture mechanics,STRENGTH OF MATERIALS). <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics, 2015</i> , 2015.14, 123	0	
100	Observation of 3D shape and propagation mode transition of fatigue cracks in Ti6Al4V under cyclic torsion using CT imaging with ultra-bright synchrotron radiation. <i>International Journal of Fatigue</i> , <b>2014</b> , 58, 158-165	5	16
99	Observation of Rolling Contact Fatigue Cracks by Laminography Using Ultra-bright Synchrotron Radiation <b>2014</b> , 3, 159-164		4
98	Evaluation of rolling contact fatigue crack path in high strength steel with artificial defects. <i>International Journal of Fatigue</i> , <b>2014</b> , 68, 168-177	5	16
97	4D analysis of pit growth and crack initiation in aluminum alloy under corrosion fatigue using synchrotron radiation micro CT imaging. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , <b>2014</b> , 64, 564-569	0.3	
96	Evaluation of Fatigue Damage by Diffraction Contrast Tomography Using Synchrotron Radiation. <i>Advanced Materials Research</i> , <b>2014</b> , 891-892, 600-605	0.5	2
95	Evaluation of Fatigue Damage by Diffraction Contrast Tomography Using Synchrotron Radiation. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 2359-2364	0.4	1
94	Fatigue of Ultra-Fine Grained Brass. <i>Advanced Materials Research</i> , <b>2014</b> , 891-892, 1125-1130	0.5	
93	Statistical Analysis of the Tensile Strength of Treated Oil Palm Fiber by Utilisation of Weibull Distribution Model. <i>Open Journal of Composite Materials</i> , <b>2014</b> , 04, 72-77	1.1	10
92	Interfacial Fracture Toughness Evaluation of Poly(L-lactide acid)/Natural Fiber Composite by Using Double Shear Test Method. <i>Open Journal of Composite Materials</i> , <b>2014</b> , 04, 97-105	1.1	4
91	OS1309 Fatigue limit estimation based on dissipated energy for expanded-magnesium alloy. <i>The Proceedings of the Materials and Mechanics Conference</i> , <b>2013</b> , 2013, _OS1309-1-_OS1309-3_	0	
90	Effect of Inhomogeneity of Zr-Based Bulk Metallic Glass Plate on Fatigue Strength under Torsion. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 1331-1336	0.4	
89	Effect of Hydrogen Absorption on Mechanical Properties of TiNi Shape Memory Alloy Thin Wire. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2012</b> , 61, 905-911	0.1	2
88	Measurements of Mode I Fiber/Matrix Interfacial Fracture Toughness by Using Real-Size Model Composite Specimens. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2012</b> , 61, 183-188	0.1	
87	OS12-6-1 Fracture Mechanics Evaluation of Mode I and Mode II Fiber/Matrix Interfacial Crack by Using Real-Size Model Composite. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2011</b> , 2011.10, _OS12-6-1-	0	
86	Effect of Yield Phenomenon on Fatigue Damage in Commercially Pure Iron Thin Wires. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2011</b> , 77, 2098-2106		1

85	Evaluation of Mode I Fiber/Matrix Interfacial Fracture Toughness and Matrix Toughness in FRP by Using Real-Size Model Composites. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2011</b> , 77, 882-891		
84	Fatigue of Zr-based Bulk Metallic Glass under Cyclic-torsion. <i>Procedia Engineering</i> , <b>2011</b> , 10, 183-188		3
83	Observation of Fatigue Crack Propagation Behavior under Torsional Loading by Using Synchrotron Radiation Micro-CT Imaging. <i>Procedia Engineering</i> , <b>2011</b> , 10, 1479-1484		5
82	Initiation and Growth of Pits and Cracks in Corrosion Fatigue for High Strength Aluminium Alloy Observed by Micro Computed-Tomography Using Ultra-Bright Synchrotron Radiation. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 83, 162-167	0.3	9
81	OS12F018 Fracture Mechanics Evaluation of Mode I and Mode II Fiber/Matrix Interfacial Crack by Using Real-Size Model Composite. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2011</b> , 2011.10, _OS12F018--_OS12F018	0	
80	OS05-2-3 Development of Three-dimensional Grain Mapping Technique Using SPring-8. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2011</b> , 2011.10, _OS05-2-3-	0	
79	OS12-1-3 Effect of Yield Stress on Fatigue Damage in Commercially Pure Iron Thin Wires. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2011</b> , 2011.10, _OS12-1-3-	0	
78	OS05-1-2 Evaluation of Torsional Fatigue Crack Propagation by Synchrotron Radiation Micro-CT Imaging. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2011</b> , 2011.10, _OS05-1-2-	0	
77	OS05-4-3 Observation of Delamination Defects and Cracks in High-strength Steels under Rolling Contact Fatigue by SR Micro CT Imaging. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2011</b> , 2011.10, _OS05-4-3-	0	
76	Fatigue Crack Initiation and Propagation at a Sharp Notch in Zr-Based Bulk Metallic Glass. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 1659-1664	0.4	1
75	Observations of corrosion pits and cracks in corrosion fatigue of high strength aluminum alloy by computed-tomography using synchrotron radiation. <i>EPJ Web of Conferences</i> , <b>2010</b> , 6, 35004	0.3	3
74	Stress Corrosion and Corrosion Fatigue Crack Growth of Zr-Based Bulk Metallic Glass in Aqueous Solutions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 1792-1798	2.3	10
73	Fatigue strength of sharp notched plate of Zr-based bulk metallic glass. <i>Procedia Engineering</i> , <b>2010</b> , 2, 147-154		2
72	Observation of crack propagation under torsion fatigue tests by synchrotron radiation CT imaging. <i>Procedia Engineering</i> , <b>2010</b> , 2, 1413-1419		1
71	Fatigue Strength of Notched Components of Zr-Based Bulk Metallic Glass. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2010</b> , 59, 104-109	0.1	3
70	Observation of fretting fatigue cracks by micro-computed-tomography using ultrabright synchrotron radiation <b>2009</b> ,		1
69	Detection of Defects in Printed Wire by High-Temperature Superconductor SQUID Microscope. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2009</b> , 58, 808-814	0.1	
68	Environment Assisted Crack Propagation in Zr-Based Bulk Metallic Glass. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2009</b> , 58, 219-224	0.1	

67	Mechanisms and Mechanics of Fatigue Crack Propagation in Zr-Based Bulk Metallic Glass. <i>Key Engineering Materials</i> , <b>2008</b> , 378-379, 317-328	0.4	5
66	Fatigue of Zr-based Bulk Metallic Glass Under Compression Compression Stress. <i>Advanced Engineering Materials</i> , <b>2008</b> , 10, 1026-1029	3.5	9
65	Evaluation of Fiber/Matrix Interfacial Fracture Toughness and Its Contribution to Composite Toughness by Using Two and Four-Fibers Model Composite Specimens. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2008</b> , 57, 1205-1211	0.1	2
64	Notched Fatigue of Zr-Based Bulk Metallic Glass. <i>Key Engineering Materials</i> , <b>2007</b> , 345-346, 259-262	0.4	4
63	Environment-Assisted Cracking of Zr-Based Bulk Metallic Glass. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 1279-1282	0.4	6
62	Fatigue Crack Initiation and Small-Crack Propagation in Zr-Based Bulk Metallic Glass. <i>Materials Transactions</i> , <b>2007</b> , 48, 1770-1773	1.3	19
61	Effects of Stress Ratio and Frequency on Fatigue Crack Growth Behavior of Zr-Based Bulk Metallic Glass. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2007</b> , 56, 229-235	0.1	10
60	Observation of Cracks in Steels Using Synchrotron Radiation X-Ray Micro Tomography. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2007</b> , 56, 951-957	0.1	11
59	2317 Crack Initiation and Propagation in High Strength Steel under Torsional Fatigue. <i>The Proceedings of the JSME Annual Meeting</i> , <b>2007</b> , 2007.1, 351-352		
58	OS3-3-1 Fatigue Damage Evaluation of SUS304 Steel Using Magnetism Change in Fatigue Process. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2007</b> , 2007.6, _OS3-3-1-1-_OS3-3-1-6	0	0
57	616 Crack Initiation and Propagation in Zr-based Bulk Metallic Glass. <i>The Proceedings of the Materials and Mechanics Conference</i> , <b>2007</b> , 2007, 457-458	0	
56	Quantitative Analysis of Inclusions in High-strength Steels by X-ray Computed Tomography Using Ultra-bright Synchrotron Radiation. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2006</b> , 72, 1846-1852		6
55	717 Fatigue Crack Initiation Mechanism In Zr-based Bulk Metallic Glass. <i>The Proceedings of Conference of Kansai Branch</i> , <b>2006</b> , 2006.81, _7-17_	0	2
54	Suppression of Delamination Crack Propagation in Laminated Composites by Using Thin SMA Plates. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2005</b> , 71, 905-912		
53	Development of Fatigue Test Method and Size Effect of Fatigue Strength in Metallic Thin Wires. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2005</b> , 54, 284-289	0.1	6
52	Detection and Observation of Fatigue Damage in Metallic Thin Wires with an A.C. Potential Method and a Digital Microscopy. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2005</b> , 54, 1047-1051	0.1	1
51	Three-Dimensional Micromechanics Analysis of Strain Energy Release Rate Distribution along Delamination Crack Front in FRP <b>2004</b> , 439-444		1
50	Electroreflectance and photoluminescence studies on thermally oxidized porous silicon. <i>Physica Status Solidi A</i> , <b>2003</b> , 197, 482-486		3

49	Observations of Fatigue Slip-Band Growth and Crack Initiation in .ALPHA.-Brass under Cyclic Shear Stresses by Means of Atomic-Force Microscopy. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2003</b> , 52, 625-630	0.1	5
48	OS5(2)-6(OS05W0361) Characterization of Fatigue Crack Initiation in BBrass by Means of AFM and EBSP. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2003</b> , 2003, 92	0	
47	OS09W0347 Suppression effect for mode I propagation of delamination cracks in a laminated composite by using thin SMA plates. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2003</b> , 2003.2, _OS09W0347-_OS09W0347	0	
46	OS9(1)-2(OS09W0347) Suppression Effect for Mode I Propagation of Delamination Cracks in a Laminated Composite by Using Thin SMA Plates. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2003</b> , 2003, 120	0	
45	?????????? 2. ??????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2003</b> , 52, 325-331	0.1	1
44	OS05W0361 Characterization of fatigue crack initiation in Bbrass by means of AFM and EBSP. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2003</b> , 2003.2, _OS05W0361-_OS05W0361	0	
43	Effects of loading frequency and environment on delamination fatigue crack growth of CFRP. <i>International Journal of Fatigue</i> , <b>2002</b> , 24, 161-170	5	24
42	Effects of Interfacial Adhesive Property and Stress Ratio on Temperature Increase of Short-Fiber Reinforced Thermoplastics under Fatigue Loading. <i>Journal of the Adhesion Society of Japan</i> , <b>2002</b> , 38, 116-123	0.1	
41	Recent Progress of Experimental and Measuring Technology. Quantitative Evaluation of Slip-Band Growth and Crack Initiation in Fatigue of 70-30 Brass by Means of Atomic-Force Microscopy.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2001</b> , 67, 476-482		4
40	Classification of Band and lamellar boundaries on the basis of continuity of strains and slip-twinning planes in fatigued TiAl polysynthetically twinned crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2001</b> , 81, 1447-1471		11
39	Evaluation of Fatigue Damage and Fatigue Crack Initiation Process by Means of Atomic-Force Microscopy. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2001</b> , 50, 73-81	0.1	7
38	Microscopic and Mesoscopic Evaluations of Materials. Observation of Fatigue Crack Initiation Process in .ALPHA.-Brass by AFM.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>1999</b> , 65, 483-490		5
37	Near-Threshold Fatigue Crack Growth Behavior of SUS304 Steel at High Temperatures Using Interferometric Strain/Displacement Gage. 1st Report, Crack Closure Behavior.. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , <b>1999</b> , 42, 90-96		2
36	Observations of fatigue slip-bands and stage I crack-initiation process in Bbrass using scanning atomic-force microscopy <b>1999</b> , 343-352		2
35	Effect of Surface Treatment for Fibers on Stress Relaxation of Short-Fiber Reinforced Plastics.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1998</b> , 47, 484-488	0.1	
34	Observation of fatigue damage in structural steel by scanning atomic force microscopy. <i>International Journal of Fatigue</i> , <b>1997</b> , 19, 223-236	5	23
33	Fatigue. Effects of Fiber Orientation and Specimen Width on Delamination Fatigue Crack Growth in CFRP Laminates.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1997</b> , 46, 1210-1216	0.1	
32	Effect of Temperature Change on Delamination Crack Growth of Unidirectional CFRP under Cyclic Loading <b>1996</b> , 279-284		

31	Special Issue on Fracture Mechanics. Effects of Frequency and Temperature on Delamination Fatigue Crack Growth of Unidirectional CFRP under Constant .DELTA.K Conditions.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1994</b> , 43, 1258-1263	0.1	2
30	Fatigue crack propagation in aqueous environments <b>1994</b> , 1243-1275		1
29	Mechanisms and Mechanics of Fatigue Fracture of Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , <b>1993</b> , 79, 908-919	0.5	11
28	Effects of Frequency and Temperature on Deamination Crack Growth of Unidirectional CFRP under Cyclic Loading.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1993</b> , 42, 384-390	0.1	1
27	FATIGUE AND FRACTURE RESISTANCE OF INTERFACIAL CRACKS IN CLAD STEELS <b>1992</b> , 451-456		
26	Strength of interface in stainless clad steels.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1990</b> , 39, 375-381	0.1	3
25	Measurement of short crack lengths by an a.c. potential method. <i>Engineering Fracture Mechanics</i> , <b>1989</b> , 32, 581-589	4.2	9
24	Short surface crack growth of a high-strength low-alloy steel under cyclic loading in 3.5% NaCl solution.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>1989</b> , 55, 1724-1732		6
23	Effects of frequency and temperature on short fatigue crack growth in aqueous environments. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1988</b> , 19, 543-548		15
22	Prediction of growth rate of short fatigue cracks.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>1987</b> , 53, 387-392		5
21	Short-crack growth in corrosion fatigue for a high strength steel. <i>Engineering Fracture Mechanics</i> , <b>1986</b> , 24, 433-444	4.2	19
20	Modelling of small fatigue crack growth interacting with grain boundary. <i>Engineering Fracture Mechanics</i> , <b>1986</b> , 24, 803-819	4.2	132
19	?????????????????????????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1984</b> , 33, 1045-1051	0.1	23
18	Prediction of Fatigue Threshold of Notched Components. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>1984</b> , 106, 192-199	1.8	30
17	Simple formulae of stress intensity factor for cracks emanating from notches.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>1984</b> , 50, 2017-2021		3
16	Fracture mechanics approach to fatigue crack initiation from deep notches. <i>Engineering Fracture Mechanics</i> , <b>1983</b> , 18, 1011-1023	4.2	20
15	PROPAGATION AND NON-PROPAGATION OF SHORT FATIGUE CRACKS AT A SHARP NOTCH. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>1983</b> , 6, 315-327	3	155
14	?????????????????????????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1983</b> , 32, 19-25	0.1	6



13	?????????????????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1983</b> , 32, 535-541	0.1	12
12	?????????????????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1982</b> , 31, 376-382	0.1	17
11	Plastic deformation around a fatigue crack near threshold in 3%Si?Fe. <i>Materials Science and Engineering</i> , <b>1982</b> , 55, 85-96		22
10	?????????????????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1982</b> , 31, 1121-1127	0.1	4
9	The effects of stress ratio and grain size on near-threshold fatigue crack propagation in low-carbon steel. <i>Engineering Fracture Mechanics</i> , <b>1981</b> , 15, 291-302	4.2	79
8	Fatigue growth threshold of small cracks <b>1981</b> , 17, 519		165
7	?????????????????????. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>1979</b> , 28, 203-210	0.1	1
6	A model of crack-tip slip band blocked by grain boundary. <i>Mechanics Research Communications</i> , <b>1978</b> , 5, 375-381	2.2	93
5	Scanning Atomic-Force Microscopy on Initiation and Growth Behavior of Fatigue Slip-Bands in Brass122-122-14		
4	Fatigue Crack Initiation and Early Propagation in 3% Silicon Iron207-207-26		14
3	Classification of $\alpha$ and $\beta$ lamellar boundaries on the basis of continuity of strains and slip-twinning planes in fatigued TiAl polysynthetically twinned crystals		2
2	Importance of Inhomogeneity on Fatigue Strength of Bulk Metallic Glass393-409		
1	Stress Ratio Effect on Fatigue Crack Initiation Mechanism of Magnesium Alloy AZ31. <i>Materials Science Forum</i> ,1016, 1003-1008	0.4	1