Koji Takahashi

List of Publications by Year
in descending order

161 papers	2,023 citations	257450 24 h-index	302126 39 g-index
164 all docs	164 docs citations	164 times ranked	786 citing authors

#	Article	IF	Citations
1	Crackâ€Healing Behavior of Al₂O₃Toughened by SiC Whiskers. Journal of the American Ceramic Society, 2003, 86, 2143-2147.	3.8	113
2	Crack-healing and mechanical behaviour of Al2O3/SiC composites at elevated temperature. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 533-541.	3.4	82
3	TORSIONAL FATIGUE OF A MEDIUM CARBON STEEL CONTAINING AN INITIAL SMALL SURFACE CRACK INTRODUCED BY TENSION-COMPRESSION FATIGUE: CRACK BRANCHING, NON-PROPAGATION AND FATIGUE LIMIT. Fatigue and Fracture of Engineering Materials and Structures, 1998, 21, 1473-1484.	3.4	81
4	Critical crack-healing condition for SiC whisker reinforced alumina under stress. Journal of the European Ceramic Society, 2005, 25, 3649-3655.	5.7	76
5	Crack-Healing Behavior of Si3N4/SiC Ceramics under Cyclic Stress and Resultant Fatigue Strength at the Healing Temperature. Journal of the American Ceramic Society, 2002, 85, 2268-2272.	3.8	71
6	Crack-healing ability of structural ceramics and a new methodology to guarantee the structural integrity using the ability and proof-test. Journal of the European Ceramic Society, 2005, 25, 549-558.	5.7	71
7	Kinetics of Selfâ€Crackâ€Healing of Alumina/Silicon Carbide Composite Including Oxygen Partial Pressure Effect. Journal of the American Ceramic Society, 2009, 92, 864-869.	3.8	65
8	Strength recovery behavior of machined Al2O3/SiC nano-composite ceramics by crack-healing. Journal of the European Ceramic Society, 2007, 27, 3261-3267.	5.7	62
9	Threshold and growth mechanism of fatigue cracks under mode II and III loadings. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 523-531.	3.4	59
10	Fatigue strength improvement of an aluminum alloy with a crack-like surface defect using shot peening and cavitation peening. Engineering Fracture Mechanics, 2018, 193, 151-161.	4.3	57
11	Crack-healing behavior of Si3N4/SiC ceramics under stress and fatigue strength at the temperature of healing (1000ÂÂ°C). Journal of the European Ceramic Society, 2002, 22, 1339-1346.	5.7	55
12	Self-Crack-Healing Behavior of Mullite/SiC Particle/SiC Whisker Multi-Composites and Potential Use for Ceramic Springs. Journal of the American Ceramic Society, 2006, 89, 1352-1357.	3.8	54
13	Photoinduced surface relief structures formed on polymer films doped with photochromic spiropyrans. Journal of Physical Organic Chemistry, 2007, 20, 981-984.	1.9	46
14	Crack-healing behaviour of mullite/SiC/Y2O3 composites and its application to the structural integrity of machined components. Journal of the European Ceramic Society, 2005, 25, 3495-3502.	5.7	45
15	Low cycle fatigue behaviors of elbow pipe with local wall thinning. Nuclear Engineering and Design, 2009, 239, 2719-2727.	1.7	42
16	Crack-healing behavior and static fatigue strength of Si3N4/SiC ceramics held under stress at temperature (800, 900, 1000ÂÂ°C). Journal of the European Ceramic Society, 2003, 23, 1971-1978.	5.7	39
17	A new methodology to guarantee the structural integrity of Al2O3/SiC composite using crack healing and a proof test. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 599-607.	3.4	37
18	Experimental study of low-cycle fatigue of pipe elbows with local wall thinning and life estimation using finite element analysis. International Journal of Pressure Vessels and Piping, 2010, 87, 211-219.	2.6	36

#	Article	IF	Citations
19	Failure behavior of carbon steel pipe with local wall thinning near orifice. Nuclear Engineering and Design, 2007, 237, 335-341.	1.7	31
20	Improvement of fatigue limit by shot peening for highâ€strength steel containing a crackâ€like surface defect. International Journal of Structural Integrity, 2011, 2, 281-292.	3.3	31
21	Effects of laser peening on the fatigue strength and defect tolerance of aluminum alloy. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 845-856.	3.4	30
22	Threshold stress during crack-healing treatment of structural ceramics having the crack-healing ability. Materials Letters, 2007, 61, 2711-2713.	2.6	28
23	Crackâ€healing behaviour of ZrO₂/SiC composite ceramics. International Journal of Structural Integrity, 2010, 1, 73-84.	3.3	27
24	Improvement of strength and reliability of ceramics by shot peening and crack healing. Journal of the European Ceramic Society, 2010, 30, 3047-3052.	5.7	27
25	Threshold Stress for Crack-Healing of Si3N4/SiC and Resultant Cyclic Fatigue Strength at the Healing Temperature. Journal of the American Ceramic Society, 2005, 88, 645-651.	3.8	26
26	High-Temperature Fatigue Strength of Crack-Healed Al2O3 Toughened by SiC Whiskers. Journal of the American Ceramic Society, 2004, 87, 1259-1264.	3.8	24
27	Crack-healing behavior of Si3N4/SiC composite under stress and low oxygen pressure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3343-3348.	5.6	24
28	Threshold Stress for Crack Healing of Mullite Reinforced by SiC Whiskers and SiC Particles and Resultant Fatigue Strength at the Healing Temperature. Journal of the American Ceramic Society, 2007, 90, 2159-2164.	3.8	23
29	Crack-Healing Behavior of Structural Ceramics under Constant and Cyclic Stress at Elevated Temperature.. Journal of the Ceramic Society of Japan, 2002, 110, 741-747.	1.3	21
30	Fracture and deformation behaviors of tee pipe with local wall thinning. Nuclear Engineering and Design, 2007, 237, 137-142.	1.7	19
31	Improvement of fatigue limit by shot peening for high-strength steel containing a crack-like surface defect. International Journal of Structural Integrity, 2014, 5, 45-59.	3.3	19
32	Fatigue Limit Improvement and Rendering Defects Harmless by Needle Peening for High Tensile Steel Welded Joint. Metals, 2019, 9, 143.	2.3	19
33	Estimation of Low-Cycle Fatigue Life of Elbow Pipes Considering the Multi-Axial Stress Effect. Journal of Pressure Vessel Technology, Transactions of the ASME, 2014, 136, .	0.6	18
34	Mechanism of crack path morphology and branching from small fatigue cracks under mixed loading. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 49-60.	3.4	17
35	Comparison of experimental and finite element analytical results for the strength and the deformation of pipes with local wall thinning subjected to bending moment. Nuclear Engineering and Design, 2006, 236, 140-155.	1.7	17
36	Crack healing in liquid-phase-pressureless-sintered silicon carbideâ€“aluminum nitride composites. Journal of the European Ceramic Society, 2010, 30, 769-773.	5.7	15

#	Article	IF	Citations
37	Low Cycle Fatigue Behavior and Seismic Assessment for Elbow Pipe Having Local Wall Thinning. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, .	0.6	15
38	Improvement of fatigue limit by shot peening for highâ€tensile strength steel containing a crack in the stress concentration zone. International Journal of Structural Integrity, 2013, 4, 258-266.	3.3	15
39	Fatigue Strength of an Al2O3/SiC Composite and a Monolithic Al2O3 Subjected to Crack-Healing Treatment. Zairyo/Journal of the Society of Materials Science, Japan, 2003, 52, 1464-1470.	0.2	14
40	Crack-Healing Mechanism by Alumina/SiC Particles/SiC Whiskers Multi-Composite. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 663-666.	0.4	13
41	Improvement of fatigue strength by shot peening for spring steel specimens containing an artificial surface defect. Transactions of Japan Society of Spring Engineers, 2007, 2007, 9-13.	0.2	13
42	Effect of Difference in Crack-healing Ability on Fatigue Behavior of Alumina/Silicon Carbide Composites. Journal of Intelligent Material Systems and Structures, 2008, 19, 411-415.	2.5	13
43	Evaluation of Fracture Strength of Ceramics Containing Small Surface Defects Introduced by Focused Ion Beam. Materials, 2018, 11, 457.	2.9	13
44	Improvement of static fatigue strength of Si3N4/SiC crack-healed under cyclic stress. Journal of the European Ceramic Society, 2005, 25, 1953-1959.	5.7	12
45	Crack -Healing Behaviour of Zirconia/SiC Composite Ceramics. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 510-515.	0.2	12
46	Effects of shot peening on the torsional fatigue limit of highâ€strength steel containing an artificial surface defect. International Journal of Structural Integrity, 2012, 3, 274-284.	3.3	12
47	Crack-Healing Behavior, High Temperature Strength and Fracture Toughness of Alumina Reinforced by SiC Whiskers. Zairyo/Journal of the Society of Materials Science, Japan, 2004, 53, 599-606.	0.2	12
48	A Study on the Unification of the Threshold Stress Intensity Factor for Micro Crack Growth. Transactions of Japan Society of Spring Engineers, 2019, 2019, 39-44.	0.2	12
49	Crackâ€healing behaviour and resultant highâ€temperature fatigue strength of machined Si₃N₄/SiC composite ceramic. Fatigue and Fracture of Engineering Materials and Structures, 2008, 31, 2-11.	3.4	11
50	Improvement of Fatigue Limit by Shot Peening for High Strength Steel Specimens Containing a Crack-like Surface Defect. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 1030-1036.	0.2	11
51	Crack Healing of Machining Cracks Introduced by Wheel Grinding and Resultant Highâ€Temperature Mechanical Properties in a Si₃N₄/SiC Composite. Journal of the American Ceramic Society, 2009, 92, 167-173.	3.8	11
52	Effect of peening on the fatigue limit of welded structural steel with surface crack, and rendering the crack harmless. International Journal of Structural Integrity, 2014, 5, 279-289.	3.3	11
53	Prediction of fatigue limit improvement in needle peened welded joints containing crack-like defects. International Journal of Structural Integrity, 2018, 9, 50-64.	3.3	11
54	Improving the fatigue limit and rendering a defect harmless by laser peening for a high strength steel welded joint. Optics and Laser Technology, 2021, 134, 106605.	4.6	11

#	Article	IF	Citations
55	Crackâ€healing behavior of ZrO₂/SiC composite ceramics and strength properties of crackâ€healing specimens. International Journal of Structural Integrity, 2012, 3, 41-52.	3.3	10
56	Improvement of the Contact Strength of Si3N4/SiC by a Combination of Shot Peening and Crack-Healing. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 144-153.	0.5	10
57	Increase in Strength of Partially Stabilized Zirconia After Shot Peening. Journal of Materials Engineering and Performance, 2015, 24, 3573-3578.	2.5	10
58	Improving reliability of highâ€strength steel designed against fatigue limit using surface crack nondamaging technology by shot peening. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1602-1610.	3.4	10
59	Self-Healing of Surface Cracks in Structural Ceramics. , 0, , 183-217.		9
60	Crack-Healing Behavior of Si3N4/SiC Composite under Low Oxygen Partial Pressure. Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 1132-1137.	0.2	9
61	In situ crack-healing behavior of Al2O3/SiC composite ceramics undercyclic-fatigue strength. International Communications in Heat and Mass Transfer, 2009, 36, 558-562.	5.6	8
62	Improvement of fatigue limit by overload for high-tensile strength steel containing a crack in the stress concentration zone. International Journal of Structural Integrity, 2013, 4, 368-382.	3.3	8
63	Increased fatigue strength of partially stabilised zirconia achieved by shot peening. Materials Science and Technology, 2017, 33, 623-628.	1.6	8
64	Strength Recovery Behavior of Machined Alumina/SiC Whisker Composite by Crack-Healing. Journal of the Ceramic Society of Japan, 2007, 115, 278-284.	1.3	7
65	In situ crack-healing behavior of Al2O3/SiC composite ceramics under static fatigue strength. International Communications in Heat and Mass Transfer, 2009, 36, 563-568.	5.6	7
66	Investigation of the Seismic Safety Capacity of Aged Piping System: Shake Table Test on Piping Systems With Wall Thinning by E-Defense. , 2011, , .		7
67	Self-crack-healing behavior in ceramic matrix composites. , 2014, , 410-441.		7
68	Improvement in Fatigue Limit By Shot Peening for High-strength Steel Containing Crack-like Surface Defect (Influence of Surface Crack Aspect Ratio). Transactions of Japan Society of Spring Engineers, 2014, 2014, 13-18.	0.2	7
69	Prediction of Fatigue Limit of Spring Steel Considering Surface Defect Size and Stress Ratio. Metals, 2021, 11, 483.	2.3	7
70	Self Crack-Healing Behavior under Stress of Silicon Nitride Ceramics and Resultant Strength at the Crack-Healed Temperature.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2002, 68, 1063-1070.	0.2	6
71	Crack-Healing Ability of Structural Ceramics and Methodology to Guarantee the Reliability of Ceramic Components. , 0, , .		6
72	Low Cycle Fatigue Behavior and Seismic Assessment for Pipe Bend Having Local Wall Thinning-Influence of Internal Pressure. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.6	6

#	Article	IF	Citations
73	Improvement of the Contact Strength of Al₂O₃/SiC by a Combination of Shot Peening and Crack-Healing. Journal of Powder Technology, 2013, 2013, 1-5.	0.4	6
74	Influence of Crystal Structure of Nitride Compound Layer on Torsion Fatigue Strength of Alloy Steel. Metals, 2019, 9, 1352.	2.3	6
75	Fatigue Limit Prediction and Estimation for the Crack Size Rendered Harmless by Peening for Welded Joint Containing a Surface Crack. Materials Sciences and Applications, 2015, 06, 500-510.	0.4	6
76	Increase in Fatigue Limit and Acceptable Size of Defect for Smooth and Notched Specimen by Cavitation Peening. Transactions of Japan Society of Spring Engineers, 2009, 2009, 1-6.	0.2	6
77	Evaluation of Acceptable Defect Size by Shot Peening Based on Fracture Mechanics. Transactions of Japan Society of Spring Engineers, 2010, 2010, 25-30.	0.2	6
78	Improving Fatigue Limit and Rendering Defects Harmless through Laser Peening in Additive-Manufactured Maraging Steel. Metals, 2022, 12, 49.	2.3	6
79	Strength recovery of machined Al2O3/SiC composite ceramics by crack healing. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 1140-1148.	3.4	5
80	Improvement fatigue limit of steel containing a small crackâ€like surface defect by overload effect. International Journal of Structural Integrity, 2010, 1, 153-160.	3.3	5
81	Analytical investigation of effect of stress ratio on threshold stress intensity factor range improved by overload. International Journal of Structural Integrity, 2012, 3, 53-60.	3.3	5
82	Crack-Healing Behaviour of Zirconia /SiC Composite Ceramics and Strength Properties of Crack-Healing Specimens. Zairyo/Journal of the Society of Materials Science, Japan, 2011, 60, 742-747.	0.2	4
83	Improvement in Fatigue Limit by Shot Peening for High-Strength Steel Containing Crack-Like Surface Defect: Influence of Surface Crack Aspect Ratio. , 2013, , .		4
84	New Technology for Increasing Through-Life Reliability of Ceramics Components Using Self-Crack-Healing Ability. Journal of Powder Technology, 2013, 2013, 1-11.	0.4	4
85	Evaluation of fatigue limit and harmless crack size of needle peened offshore structure steel F690. Journal of Mechanical Science and Technology, 2021, 35, 3855-3862.	1.5	4
86	Effects of Frequency on the Crack-Healing Behavior of Si3N4/SiC Composite under Cyclic Stress. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2006, 49, 307-313.	0.4	3
87	Low Cycle Fatigue Behavior of Elbow Pipe With Local Wall Thinning. , 2008, , .		3
88	Overloading effect on the fatigue threshold stress intensity factor range (Î”Kth) as a function of crack length in SUS316. International Journal of Structural Integrity, 2010, 1, 43-51.	3.3	3
89	Tri-Axial Shake Table Test on the Thinned Wall Piping Model and Damage Detection Before Failure. , 2010, , .		3
90	Effect of Stress Ratio on Overload Effect of HT540 and A7075. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 777-779.	0.2	3

#	Article	IF	Citations
91	Effects of Overload on Threshold Stress Intensity Factor Range Î”<I>K_{th}</I> of Steel. Transactions of Japan Society of Spring Engineers, 2010, 2010, 1-5.	0.2	3
92	Improvement of Fatigue Limit and Rendering Crack Harmless by Peening for Rolled Steel Containing a Crack at the Weld Toe Zone. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 110-114.	0.2	3
93	Improvement in Contact Strength of Si3N4/SiC Composite by Crack Healing. Journal of Powder Technology, 2013, 2013, 1-6.	0.4	3
94	Measurement of Sliding Wear of Shot-Peened Partially Stabilized Zirconia Plate. Applied Mechanics and Materials, 0, 597, 353-357.	0.2	3
95	Low Cycle Fatigue Evaluation of Pipe Bends With Local Wall Thinning Considering Multi-Axial Stress State. Journal of Pressure Vessel Technology, Transactions of the ASME, 2015, 137, .	0.6	3
96	The Revised Universal Slope Method to Predict the Low-Cycle Fatigue Lives of Elbow and Tee Pipes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.6	3
97	Self-Crack-Healing Ability of Alumina/SiC Nanocomposite Fabricated by Self-Propagating High-Temperature Synthesis. , 0, , 443-448.		3
98	Analysis of Peculiar Fatigue Fracture Behavior of Shot Peened Steels Focusing on Threshold Stress Intensity Factor Range. Transactions of Japan Society of Spring Engineers, 2020, 2020, 35-42.	0.2	3
99	Effect of SiC Shape on The Crack-Healing Mechanism of Alumina/SiC Composite. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	2
100	Low Cycle Fatigue Behaviors of Elbow With Local Wall Thinning Under Combined Bending and Internal Pressure. , 2011, , .		2
101	Estimation of Low-Cycle Fatigue Life of Elbow Pipes Considering the Multi-Axial Stress Effect. , 2012, , .		2
102	Theoretical Study on Low Cycle Fatigue Strength of Elbows with Local Wall Thinning. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 1303-1316.	0.2	2
103	Improvement of Rolling Contact Fatigue Strength of Silicon Nitride by Shot-Peening. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 740-744.	0.2	2
104	Self-crack-healing behavior in ceramic matrix composites. , 2014, , 515-544.		2
105	Structural ceramics with self-healing properties. , 2014, , 586-605.		2
106	Influence of crack-like surface defects on the fatigue limit of nitrocarburized carbon steel. IOP Conference Series: Materials Science and Engineering, 2018, 372, 012005.	0.6	2
107	Healing Behavior of Machining Cracks in Oxide-Based Composite Containing SiC Particles. Ceramic Engineering and Science Proceedings, 0, , 45-55.	0.1	2
108	Strength Recovery of Heavily Machined Si₃N₄/SiC Composite Ceramic by Crack-Healing. Transactions of Japan Society of Spring Engineers, 2007, 2007, 21-25.	0.2	2

#	Article	IF	Citations
109	Quantitative Evaluation of Influence of Surface Defects on Fatigue Limit of Nitrided Steel. Transactions of Japan Society of Spring Engineers, 2019, 2019, 45-51.	0.2	2
110	Finite Element Analysis on the Failure Behavior of Straight Pipe With Wall Thinning. , 2004, , 393.		1
111	Failure Behavior of Pipe Having Local Wall Thinning in Downstream Region of Orifice. , 2005, , 739.		1
112	Crack-Healing under Cyclic Stress and Improvement of the Resultant Fatigue Strength of Si₃N₄/SiC. Key Engineering Materials, 2006, 317-318, 453-456.	0.4	1
113	A Methodology to Increase a Strength and Guarantee a Reliability of an Al₂O₃/SiC Composite Ceramics Component by Crack-Healing and Proof Testing. Journal of the Ceramic Society of Japan, 2007, 115, 967-973.	1.1	1
114	Influences of Inner Pressure and Overload on Low Cycle Fatigue Behaviors of Elbow Pipes With Local Wall Thinning. , 2010, , .		1
115	Low Cycle Fatigue Behavior and Seismic Assessment for Elbow Pipe Having Local Wall Thinning. , 2010, , .		1
116	Improvement of Fatigue Limit and Rendering Crack Harmless by Over-Moment Loading for Spring Steel Containing a Crack in the Stress Concentration Zone. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2012, 78, 1266-1274.	0.2	1
117	Improvement of Fatigue Limit by Shot Peening for High-Strength Steel Containing a Crack-Like Surface Defect: Influence of Stress Ratio. , 2012, , .		1
118	Effect of Local Wall Thinning on Low-Cycle Fatigue Behaviors of Elbow With Internal Pressure: Estimation of Fatigue Life Based on Revised Universal Slope Method. , 2013, , .		1
119	Prediction of Low-Cycle Fatigue Lives of Elbow and Tee Pipes Using Revised Universal Slope Method. , 2016, , .		1
120	Improvement of torsional fatigue limit and rendering surface defect harmless by shot peening for spring steel. Journal of Physics: Conference Series, 2017, 842, 012066.	0.4	1
121	Mechanical Properties of SiC reinforced alumina composites attached crack-healing ability. The Proceedings of the Materials and Processing Conference, 2003, 2003.11, 59-60.	0.0	1
122	GS21 Preventing crack initiation and propagation by shot-peening in Partially Stabilized Zirconia. The Proceedings of the Materials and Mechanics Conference, 2013, 2013, _GS21-1_-_GS21-3_.	0.0	1
123	Effect of Material Hardness on Crack Size Rendered Harmless by Shot Peening. Zairyo/Journal of the Society of Materials Science, Japan, 2015, 64, 859-864.	0.2	1
124	Low-cycle fatigue behavior of stainless-steel elbows having local wall thinning. Mechanical Engineering Journal, 2020, 7, 19-00582-19-00582.	0.4	1
125	Improvement in Bending Strength of Silicon Nitride through Laser Peening. Materials, 2022, 15, 315.	2.9	1
126	Crack-Healing Behavior of Silicon Nitride Ceramics under Cyclic Stress and Resultant Strength at Crack-Healed Temperature. Key Engineering Materials, 2003, 247, 275-278.	0.4	0

#	Article	IF	Citations
127	Allowable Limit and Finite Element Analysis of Pipes With Local Wall Thinning Subjected to Bending Moment. , 2004, , 387.		0
128	Fracture and Deformation Behaviors of Tee Pipe With Local Wall Thinning Under Monotonic Bending. , 2004, , 381.		0
129	Development of structural ceramics having large crack-healing ability and fracture toughness. , 2004, 5648, 276.		0
130	High-temperature fatigue strength of crack-healed Al2O3 toughened by SiC whiskers. , 2004, , .		0
131	Improvement of Static Fatigue Strength of Silicon Nitride Composite. , 2005, , 269.		0
132	Crack-Healing Behavior of Mullite/SiC Particle/SiC Whisker Multi-Composite and Mechanical Properties of the Multi-Composite. Materials Science Forum, 2005, 475-479, 2071-2074.	0.3	0
133	Failure Behavior of Carbon Steel Pipe Having Local Wall Thinning Near Tee Joint. , 2006, , 781.		0
134	Critical Conditions for Crack-Healing of Structural Ceramics under Constant or Cyclic Stress. Key Engineering Materials, 2006, 317-318, 461-464.	0.4	0
135	Detection of the Crack Initiation by Means of AE Method Under Low Cycle Fatigue of Elbow Pipe Having Local Wall Thinning. , 2010, , .		0
136	Effect of Overload on the Threshold Stress Intensity Factor Range of SUS316 as a Function of Crack Size. , 2010, , .		0
137	Prevention of Stress Corrosion Cracking of SUS304 by Tensile Overload. , 2010, , .		0
138	Effects of Overload on Fatigue Strength of SUS316 Having a Crack-Like Surface Defect. , 2010, , .		0
139	Improvement of Contact Strength of Si3N4/SiC by Combination of Shot Peening and Self-Crack Healing. , 2011, , .		0
140	Influences of Cyclic Pre-Overload on Low Cycle Fatigue Behaviours of Elbow Pipe. , 2011, , .		0
141	Prevention of SCC Properties by Overloading Effect in Stainless Steel. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 218-222.	0.2	0
142	Influences of Overload on Low Cycle Fatigue Behaviors of Elbow Pipe with Local Wall Thinning. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 698-702.	0.2	0
143	Estimation of Remaining Fatigue Life for Elbow Pipe Subjected to Cyclic Overload. , 2012, , .		0
144	Modeling of Overload Effect on Fatigue Crack Growth Threshold Using Finite Element Method. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 716-720.	0.2	0

#	Article	IF	Citations
145	Improvement of Critical Stress for Crack-Healing of Si₃N₄/SiC by Shot Peening. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 697-701.	0.2	0
146	Fatigue Limit Improvement by Needle-Peening for Stainless Steel Welded Joint Containing a Crack-Like Defect. , 2016, , .		0
147	Rolling contact fatigue strengths of shot-peened and crack-healed ceramics. IOP Conference Series: Materials Science and Engineering, 2018, 372, 012010.	0.6	0
148	Fracture Mechanical Estimation for the Maximum Defect Size Rendered Harmless by Peening for High Tensile Steel Welded Joint Containing a Surface Defect at the Weld Toe. Zairyo/Journal of the Society of Materials Science, Japan, 2021, 70, 465-472.	0.2	0
149	Threshold Stress for Crack-Healing of Silicon Nitride Ceramics. , 2004, , .		0
150	Self-crack-healing behavior under cyclic stress of silicon nitride composite at elevated temperature. , 2004, , .		0
151	A new methodology to guarantee the structural integrity of ceramics components. Journal of Advanced Science, 2006, 18, 10-15.	0.1	0
152	Improvement of the Threshold Stress Intensity Factor for Stress Corrosion Cracking in SUS316 by Tensile Overload. , 2010, , .		0
153	Effect of loading sequence on fatigue damage under push-pull followed by torsion and torsion followed by push-pull. , 1999, , 403-411.		0
154	Prediction of fracture strength for ceramics containing a surface defect with arbitrary shape. Transactions of Japan Society of Spring Engineers, 2018, 2018, 13-18.	0.2	0
155	Effects of Small Surface Defect on Fatigue Limit of Spring Steel. Transactions of Japan Society of Spring Engineers, 2020, 2020, 27-34.	0.2	0
156	Strength Recovery of Machined Alumina by Self Crack Healing. , 2006, , 1051-1052.		0
157	(Crack-Healing + Proof-Test): Methodology to Guarantee the Reliability of Ceramics. , 2006, , 1065-1066.		0
158	Potential Use of Mullite-SiC Whiskers-SiC Particles Multi-Composite as High Temperature Springs. , 0, , 381-387.		0
159	Improvement in Working Limit for Ceramic Components by Using Crack-Heal. Ceramic Engineering and Science Proceedings, 0, , 93-99.	0.1	0
160	Strength Recovery Behavior of Machined Alumina by Crack Healing. , 0, , 399-409.		0
161	Through-Life Reliability Management of Structural Ceramic Components Using Crack-Healing and Proof Test. , 0, , 449-459.		0