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	Improvement in Bending Strength of Silicon Nitride through Laser Peening. Materials, 2022, 15, 315.	2.9	1
2	Improving Fatigue Limit and Rendering Defects Harmless through Laser Peening in Additive-Manufactured Maraging Steel. Metals, 2022, 12, 49.	2.3	6
3	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
4	Prediction of Fatigue Limit of Spring Steel Considering Surface Defect Size and Stress Ratio. Metals, 2021, 11, 483.	2.3	7
5	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
6	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
7	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
8	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
9	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
10	Low-cycle fatigue behavior of stainless-steel elbows having local wall thinning. Mechanical Engineering Journal, 2020, 7, 19-00582-19-00582.	0.4	1
11	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
12	Fatigue Limit Improvement and Rendering Defects Harmless by Needle Peening for High Tensile Steel Welded Joint. Metals, 2019, 9, 143.	2.3	19
13	Influence of Crystal Structure of Nitride Compound Layer on Torsion Fatigue Strength of Alloy Steel. Metals, 2019, 9, 1352.	2.3	6
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	Evaluation of Fracture Strength of Ceramics Containing Small Surface Defects Introduced by Focused Ion Beam. Materials, 2018, 11, 457.	2.9	13
20	Rolling contact fatigue strengths of shot-peened and crack-healed ceramics. IOP Conference Series: Materials Science and Engineering, 2018, 372, 012010.	0.6	0
21	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
22	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
23	Increased fatigue strength of partially stabilised zirconia achieved by shot peening. Materials Science and Technology, 2017, 33, 623-628.	1.6	8
24	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
25	Fatigue Limit Improvement by Needle-Peening for Stainless Steel Welded Joint Containing a Crack-Like Defect. , 2016, , .		0
26	Prediction of Low-Cycle Fatigue Lives of Elbow and Tee Pipes Using Revised Universal Slope Method. , 2016, , .		1
27	Increase in Strength of Partially Stabilized Zirconia After Shot Peening. Journal of Materials Engineering and Performance, 2015, 24, 3573-3578.	2.5	10
28	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
29	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
30	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
31	Self-crack-healing behavior in ceramic matrix composites. , 2014, , 515-544.		2
32	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
33	Structural ceramics with self-healing properties. , 2014, , 586-605.		2
34	Self-crack-healing behavior in ceramic matrix composites. , 2014, , 410-441.		7
35	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
36	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

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37	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
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	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
40	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
41	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
42	Improvement in Fatigue Limit by Shot Peening for High-Strength Steel Containing Crack-Like Surface Defect: Influence of Surface Crack Aspect Ratio. , 2013, , .		4
43	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
44	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
45	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
46	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
47	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
48	Improvement in Contact Strength of Si3N4/SiC Composite by Crack Healing. Journal of Powder Technology, 2013, 2013, 1-6.	0.4	3
49	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
50	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
51	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
52	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
53	Estimation of Remaining Fatigue Life for Elbow Pipe Subjected to Cyclic Overload. , 2012, , .		0
54	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

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55	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
56	Estimation of Low-Cycle Fatigue Life of Elbow Pipes Considering the Multi-Axial Stress Effect. , 2012, , .		2
57	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
58	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
59	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
60	Improvement of Fatigue Limit by Shot Peening for High-Strength Steel Containing a Crack-Like Surface Defect: Influence of Stress Ratio. , 2012, , .		1
61	Improvement of Contact Strength of Si3N4/SiC by Combination of Shot Peening and Self-Crack Healing. , 2011, , .		0
62	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
63	Influences of Cyclic Pre-Overload on Low Cycle Fatigue Behaviours of Elbow Pipe. , 2011, , .		0
64	Low Cycle Fatigue Behaviors of Elbow With Local Wall Thinning Under Combined Bending and Internal Pressure. , 2011, , .		2
65	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
66	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
67	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
68	Investigation of the Seismic Safety Capacity of Aged Piping System: Shake Table Test on Piping Systems With Wall Thinning by E-Defense. , 2011, , .		7
69	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
70	Crackâ€healing behaviour of ZrO₂/SiC composite ceramics. International Journal of Structural Integrity, 2010, 1, 73-84.	3.3	27
71	Detection of the Crack Initiation by Means of AE Method Under Low Cycle Fatigue of Elbow Pipe Having Local Wall Thinning. , 2010, , .		0
72	Effect of Overload on the Threshold Stress Intensity Factor Range of SUS316 as a Function of Crack Size. , 2010, , .		0

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73	Tri-Axial Shake Table Test on the Thinned Wall Piping Model and Damage Detection Before Failure. , 2010, , .		3
74	Prevention of Stress Corrosion Cracking of SUS304 by Tensile Overload. , 2010, , .		0
75	Influences of Inner Pressure and Overload on Low Cycle Fatigue Behaviors of Elbow Pipes With Local Wall Thinning. , 2010, , .		1
76	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
77	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
78	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
79	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
80	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
81	Effects of Overload on Fatigue Strength of SUS316 Having a Crack-Like Surface Defect. , 2010, , .		0
82	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
83	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
84	Low Cycle Fatigue Behavior and Seismic Assessment for Elbow Pipe Having Local Wall Thinning. , 2010, , .		1
85	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
86	Improvement of the Threshold Stress Intensity Factor for Stress Corrosion Cracking in SUS316 by Tensile Overload. , 2010, , .		0
87	Crack -Healing Behaviour of Zirconia/SiC Composite Ceramics. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 510-515.	0.2	12
88	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
89	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
90	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

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91	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
92	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
93	Low cycle fatigue behaviors of elbow pipe with local wall thinning. Nuclear Engineering and Design, 2009, 239, 2719-2727.	1.7	42
94	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
95	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
96	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
97	Low Cycle Fatigue Behavior of Elbow Pipe With Local Wall Thinning. , 2008, , .		3
98	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
99	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
100	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
101	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
102	Fracture and deformation behaviors of tee pipe with local wall thinning. Nuclear Engineering and Design, 2007, 237, 137-142.	1.7	19
103	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
104	Photoinduced surface relief structures formed on polymer films doped with photochromic spiropyrans. Journal of Physical Organic Chemistry, 2007, 20, 981-984.	1.9	46
105	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
106	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
107	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
108	Threshold stress during crack-healing treatment of structural ceramics having the crack-healing ability. Materials Letters, 2007, 61, 2711-2713.	2.6	28

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109	Failure behavior of carbon steel pipe with local wall thinning near orifice. Nuclear Engineering and Design, 2007, 237, 335-341.	1.7	31
110	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
111	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
112	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
113	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
114	Failure Behavior of Carbon Steel Pipe Having Local Wall Thinning Near Tee Joint. , 2006, , 781.		0
115	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
116	Critical Conditions for Crack-Healing of Structural Ceramics under Constant or Cyclic Stress. Key Engineering Materials, 2006, 317-318, 461-464.	0.4	0
117	A new methodology to guarantee the structural integrity of ceramics components. Journal of Advanced Science, 2006, 18, 10-15.	0.1	0
118	Strength Recovery of Machined Alumina by Self Crack Healing. , 2006, , 1051-1052.		0
119	(Crack-Healing + Proof-Test): Methodology to Guarantee the Reliability of Ceramics. , 2006, , 1065-1066.		0
120	Improvement of Static Fatigue Strength of Silicon Nitride Composite. , 2005, , 269.		0
121	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
122	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
123	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
124	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
125	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
126	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

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127	Critical crack-healing condition for SiC whisker reinforced alumina under stress. Journal of the European Ceramic Society, 2005, 25, 3649-3655.	5.7	76
128	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
129	Effect of SiC Shape on The Crack-Healing Mechanism of Alumina/SiC Composite. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	2
130	Failure Behavior of Pipe Having Local Wall Thinning in Downstream Region of Orifice. , 2005, , 739.		1
131	Allowable Limit and Finite Element Analysis of Pipes With Local Wall Thinning Subjected to Bending Moment. , 2004, , 387.		0
132	Finite Element Analysis on the Failure Behavior of Straight Pipe With Wall Thinning. , 2004, , 393.		1
133	Fracture and Deformation Behaviors of Tee Pipe With Local Wall Thinning Under Monotonic Bending. , 2004, , 381.		0
134	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
135	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
136	Development of structural ceramics having large crack-healing ability and fracture toughness. , 2004, 5648, 276.		0
137	High-temperature fatigue strength of crack-healed Al2O3 toughened by SiC whiskers. , 2004, , .		0
138	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
139	Threshold Stress for Crack-Healing of Silicon Nitride Ceramics. , 2004, , .		0
140	Self-crack-healing behavior under cyclic stress of silicon nitride composite at elevated temperature. , 2004, , .		0
141	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
142	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
143	Crackâ€Healing Behavior of Al₂O₃Toughened by SiC Whiskers. Journal of the American Ceramic Society, 2003, 86, 2143-2147.	3.8	113
144	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

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145	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
146	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
147	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
148	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
149	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
150	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
151	Effect of loading sequence on fatigue damage under push-pull followed by torsion and torsion followed by push-pull. , 1999, , 403-411.		0
152	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
153	Self-Healing of Surface Cracks in Structural Ceramics. , 0, , 183-217.		9
154	Crack-Healing Ability of Structural Ceramics and Methodology to Guarantee the Reliability of Ceramic Components. , 0, , .		6
155	Measurement of Sliding Wear of Shot-Peened Partially Stabilized Zirconia Plate. Applied Mechanics and Materials, 0, 597, 353-357.	0.2	3
156	Self-Crack-Healing Ability of Alumina/SiC Nanocomposite Fabricated by Self-Propagating High-Temperature Synthesis. , 0, , 443-448.		3
157	Healing Behavior of Machining Cracks in Oxide-Based Composite Containing SiC Particles. Ceramic Engineering and Science Proceedings, 0, , 45-55.	0.1	2
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