

Atsushi Sugeta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3106421/publications.pdf>

Version: 2024-02-01

75
papers

450
citations

687363

13
h-index

752698

20
g-index

75
all docs

75
docs citations

75
times ranked

328
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of welding defects on the fatigue properties of spot welded automobile steel sheets and the establishment of a fatigue life evaluation method. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 745-752.	2.5	7
2	Effect of Linear Weld Angle on Fatigue Strength of I-Shaped Laser Welded Joints. <i>Materials Transactions</i> , 2022, 63, 570-578.	1.2	0
3	Analysis of Fatigue Crack Propagation Behavior of Structures with One-Sided Welding in Fillet Welded Joint for Load-Carrying Type. <i>Materials Transactions</i> , 2022, 63, 1037-1045.	1.2	0
4	Elucidation of fatigue characteristics and fracture mechanism of friction stir spot-welded tension-shear joint steels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 74-84.	3.4	1
5	Evaluating the fatigue limit of metals having surface compressive residual stress and exhibiting shakedown. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 211-220.	3.4	8
6	Effect of jig constraint state during welding process on fatigue properties of Al/CFRP dissimilar welds and fatigue life evaluation based on singular stress. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2259-2269.	3.4	5
7	Cumulative fatigue damage of stress below the fatigue limit in weldment steel under block loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1419-1432.	3.4	14
8	Effectiveness of Ultrasonic Shot Peening on Stainless Cast Steel SCS6 Containing a Fatigue Crack. <i>Materials Transactions</i> , 2020, 61, 1593-1599.	1.2	0
9	Effect of Laser Patterning Preprocessing on Fatigue Strength of Adhesive Bonded Joints Using Thin Steel Plate. <i>Materials Transactions</i> , 2020, 61, 469-474.	1.2	8
10	Effect of welding time on fatigue properties of friction stir spot welds of Al to carbon fibre-reinforced plastic. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 235-242.	3.1	25
11	The effects of microstructure on small fatigue crack initiation behavior in Ti-6Al-4V. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2019, 2019, 1009A0930.	0.0	0
12	Quantitative evaluation of small fatigue crack deflection behavior in metals based on T-stress. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2019, 2019, 1008C1430.	0.0	0
13	Effectiveness of Ultrasonic Shot Peening on Stainless Cast Steel SCS6 Containing a Fatigue Crack. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2019, 68, 897-903.	0.2	1
14	Fatigue properties of friction stir welds of treated Al to carbon fibre-reinforced plastic. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 79-86.	3.1	13
15	Effect of high-amplitude loading on accumulated fatigue damage under variable-amplitude loading in 316 stainless steel. <i>International Journal of Fatigue</i> , 2018, 116, 388-395.	5.7	11
16	Statistical Estimation of S-N Curves for Aluminum Alloys Based on Their Static Mechanical Properties. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2018, 67, 136-142.	0.2	2
17	High temperature fatigue properties of Oxide-Dispersion-Strengthened Platinum-10% rhodium alloys subjected to axial force and bending stress. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2018, 2018, OS0824.	0.0	0
18	Fatigue life estimation based on fracture mechanics of single spot welded joints under different loading modes. <i>Engineering Fracture Mechanics</i> , 2017, 175, 115-126.	4.3	15

#	ARTICLE	IF	CITATIONS
19	Fatigue life prediction method for AISI 316 stainless steel under variable-amplitude loading considering low-amplitude loading below the endurance limit in the ultrahigh cycle regime. <i>International Journal of Fatigue</i> , 2017, 101, 18-26.	5.7	17
20	3-Dimensional observation on the fatigue crack propagation behaviour of the structures with one-sided welding of the fillet joint for load carrying type. <i>Transactions of the JSME (in Japanese)</i> , 2016, 82, 15-00181-15-00181.	0.2	2
21	Evaluation of rendering fatigue crack harmless using needle peening for hydraulic turbine runner of stainless cast steel SCS6. <i>Transactions of the JSME (in Japanese)</i> , 2016, 82, 15-00469-15-00469.	0.2	0
22	Effects of loading mode on the fatigue behavior of laser welds in automobile mild steel sheet. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 535-545.	2.5	8
23	Improvement in fatigue strength of welding material for hydraulic turbine runner using ultrasonic shot peening. <i>Transactions of the JSME (in Japanese)</i> , 2015, 81, 14-00199-14-00199.	0.2	2
24	Fatigue properties of the fillet welded joint for non-load carrying type using hot-wire laser welding process. <i>Transactions of the JSME (in Japanese)</i> , 2015, 81, 15-00119-15-00119.	0.2	0
25	Cumulative fatigue damage evaluations on spot-welded joints using 590MPa-class automobile steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 870-879.	3.4	17
26	Fatigue Damage Evaluation of Friction Stir Spot Welded Cross-Tension Joints Under Repeated Two-Step Force Amplitudes. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2494-2502.	2.5	9
27	OS8-15 AFM Observation of Small Fatigue Crack Growth Behavior in extruded Mg-Alloy AZ31 (Fatigue) Tj ETQq1 1 0.784314 rgBT /Ov ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 125.	0.0	0
28	Statistical Estimation of S-N Curves for Structural Carbon Steels Using Their Static Mechanical Properties. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2015, 64, 479-485.	0.2	3
29	GS0214-320 Atomic Force Microscopy of Fatigue Crack Initiation Behavior in $\hat{1}\pm\hat{1}^2$ Ti-6Al-4V Alloy. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2015, 2015, _GS0214-32-_GS0214-32.	0.0	0
30	Fatigue strength of USP treated ASTM CA6NM for hydraulic turbine runner. <i>Surface Engineering</i> , 2014, 30, 662-669.	2.2	24
31	3-Dimensional observation of the interior fracture mechanism and establishment of cumulative fatigue damage evaluation on spot welded joints using 590MPa-class steel. <i>International Journal of Fatigue</i> , 2013, 51, 121-131.	5.7	22
32	Precipitation of Nano-/Micro-Rod Shaped Carbide on Alloy Steel by Plasma Discharge. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011, 75, 705-707.	0.4	0
33	Investigation of influence of white layer geometry on spalling property in railway wheel steel. <i>Wear</i> , 2011, 271, 400-407.	3.1	28
34	OS12F120 The Effect of Load Variation on Low Cycle Fatigue Characteristics of SUS316 for the Nuclear Power Generation. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011, 2011.10, _OS12F120-_OS12F120.	0.0	2
35	3-Dimensional Observation of Fatigue Crack Propagation on Spot Welded Joints using High Strength Steel. <i>International Journal of Automotive Engineering</i> , 2011, 2, 61-67.	0.5	2
36	OS12-2-4 The Effect of Load Variation on Low Cycle Fatigue Characteristic of SUS316 for the Nuclear Power Generation. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011, 2011.10, _OS12-2-4.	0.0	1

#	ARTICLE	IF	CITATIONS
37	3-Dimensional Observation of Fatigue Crack Propagation on Spot Welded Joints Using High Strength Steel. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 1317-1324.	0.2	1
38	Effects of Rehydration on Dentin Strengthened by Heating or UV Irradiation. Journal of Dental Research, 2010, 89, 154-158.	5.2	12
39	Effects of Casting Defects on Fatigue Strength of Stainless Cast Steel SCS1 for the Turbine Runner of Hydraulic Power Generation and Fatigue Life Evaluation Based on the Defect Size. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 1585-1590.	0.2	11
40	Microstructural influence on small fatigue cracks in a ferritic-martensitic steel. Engineering Fracture Mechanics, 2008, 75, 768-778.	4.3	27
41	Static and fatigue fracture resistances of pulpless teeth restored with post-cores. Dental Materials, 2008, 24, 1178-1186.	3.5	58
42	Influence of Crack Density on Friction and Wear Properties of Electroplated CrMo Film. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 1511-1518.	0.2	3
43	Investigation of small crack behaviour under cyclic loading in a dual phase steel with an FIB tomography technique. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 556-564.	3.4	32
44	The Effect of Pre-Plastic Working on Fatigue Crack Growth Behavior in Ultra-Fine Grained P/M Aluminum Alloys. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 507-512.	0.2	0
45	Development of Fatigue Testing System for in-situ Observation by an Atomic Force Microscope and Small Fatigue Crack Growth Behavior in α -Brass. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2006, 49, 382-389.	0.4	4
46	Statistical fatigue properties of SCM435 steel in ultra-long-life regime based on JSMS database on fatigue strength of metallic materials. International Journal of Fatigue, 2006, 28, 1486-1492.	5.7	29
47	Fatigue Crack Growth Behavior of Ti-6Al-4V Alloy with Bimodal Microstructure under Repeated Two-step Load Sequences. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2005, 71, 1153-1159.	0.2	2
48	Fatigue Crack Growth Behavior of Ti-6Al-4V Alloy with Bimodal Microstructure under Constant and Non-stationary Variable Amplitude Load Sequences. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2005, 71, 1160-1166.	0.2	0
49	Atomic force microscopy of fatigue crack growth behavior in the low K region. International Journal of Fatigue, 2004, 26, 1159-1168.	5.7	18
50	Development of Fatigue Testing System for In-situ Observation by an Atomic Force Microscope and Small Fatigue Crack Growth Behavior in α -Brass. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 588-595.	0.2	2
51	A Study in the Effect of Grain Boundary on Small Fatigue Crack Growth Behavior in α -Brass by means of In-situ Atomic Force Microscopy. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 895-902.	0.2	2
52	Fatigue Crack Growth Behavior in Ultra Fine-grained P/M Aluminum Alloy under Repeated Two-step Variable Amplitude Load Sequences. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2004, 2004, 329-330.	0.0	0
53	Discrete Dislocation Analysis of Fatigue Crack Growth Behavior under Variable Amplitude Loading. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2004, 2004, 327-328.	0.0	0
54	Discrete Dislocation Analysis of Fatigue Crack Kinking Behavior. The Proceedings of Conference of Kansai Branch, 2003, 2003.78, _3-13_-_3-14_.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Cyclic fatigue crack growth tests in silicon nitride using a small bending specimen with a micro notch. The Proceedings of Conference of Kansai Branch, 2003, 2003.78, _2-21_-2-22_.	0.0	0
56	Effect of micro structure on initiation and growth behavior of small fatigue cracks in ultra fine-grained P/M Aluminum alloys. The Proceedings of Conference of Kansai Branch, 2003, 2003.78, _1-7_-1-8_.	0.0	0
57	Observation of Fatigue Crack Growth Behavior in $\hat{\pm}$ -brass by means of an In-situ Observation System based on an Atomic Force Microscope. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2003, 2003, 301-302.	0.0	0
58	Discrete Dislocation Analysis of Fatigue Crack Growth Behavior under Variable Amplitude Load Sequences. The Proceedings of the Computational Mechanics Conference, 2003, 2003.16, 429-430.	0.0	0
59	Fatigue Crack Growth Behavior of Ti-6Al-4V Alloy under Variable Amplitude Load Sequences. The Proceedings of Conference of Kansai Branch, 2003, 2003.78, _2-17_-2-18_.	0.0	0
60	In situ observation of fatigue crack growth behavior under low growth rate region in $\hat{\pm}$ -brass using AFM. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 647-648.	0.0	0
61	Effect of Frequency Ratio on Crack Growth Behavior in Silicon Nitride under Repeated Two-step Loading. The Proceedings of Conference of Kansai Branch, 2002, 2002.77, _8-11_-8-12_.	0.0	0
62	Initiation and Growth Behavior of Small Fatigue Crack in Fine-grained P/M Aluminum Alloys. The Proceedings of Conference of Kansai Branch, 2002, 2002.77, _8-9_-8-10_.	0.0	0
63	Expansion of Discrete Dislocation Dynamics Simulation into Fatigue Crack Propagation. The Proceedings of Conference of Kansai Branch, 2002, 2002.77, _2-29_-2-30_.	0.0	0
64	AFM Observation of Slip Deformation near Fatigue Crack Tip in Grain Oriented 3% Silicon Iron. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 649-650.	0.0	0
65	Discrete Dislocation Dynamics Analysis of Cyclic Plastic Deformation near Growing Fatigue Crack Tip. The Proceedings of the Computational Mechanics Conference, 2002, 2002.15, 141-142.	0.0	0
66	AFM Observation of Fatigue Crack Growth Deflection and Branching Behavior in $\hat{\pm}$ -Brass. The Proceedings of the JSME Annual Meeting, 2002, 2002.2, 405-406.	0.0	0
67	AFM Observation of Fatigue Crack Growth Behavior in $\hat{\pm}$ -Brass. The Proceedings of Conference of Kansai Branch, 2002, 2002.77, _2-47_-2-48_.	0.0	0
68	243 AFM observation of fatigue crack branching and deflection behavior in the low growth rate region. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2001, 2001, 201-202.	0.0	0
69	Discrete Dislocation Dynamics Study of Dislocation Movement in Cyclic Deformation Region near Fatigue Crack Tip. The Proceedings of the JSME Annual Meeting, 2000, 2000.1, 35-36.	0.0	0
70	913 Microscopic Observation of Fatigue Crack Growth Behavior in Silicon Nitride. The Proceedings of Conference of Kansai Branch, 2000, 2000.75, _9-25_-9-26_.	0.0	0
71	112 Effect of Porosity and Worked Layer on Growth Behavior of Small Fatigue Crack in Fe-0.5Ni-1Mo Sintered Steels. The Proceedings of Conference of Kansai Branch, 2000, 2000.75, _1-23_-1-24_.	0.0	0
72	Fatigue Crack Growth Behavior in Silicon Nitride under Constant and Variable Amplitude Load Sequences. Zairyo/Journal of the Society of Materials Science, Japan, 2000, 49, 116-122.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Estimation Method of Elastic-Plastic Fatigue Crack Growth Rates under Variable Amplitude Loadings. JSME International Journal Series A-Solid Mechanics and Material Engineering, 1995, 38, 355-363.	0.1	2
74	FATIGUE CRACK INITIATION AND GROWTH MECHANISMS IN PARTICLE-REINFORCED ALUMINUM MATRIX COMPOSITES. Zairyo/Journal of the Society of Materials Science, Japan, 1995, 44, 175-180.	0.2	0
75	Fracture Strength of A1203 Insulating Thin Film for High Density Wiring Substrate. Materials Research Society Symposia Proceedings, 1991, 226, 303.	0.1	0