

# Atsushi Sugeta

## List of Publications by Year in descending order

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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	Static and fatigue fracture resistances of pulpless teeth restored with postâ€“cores. <i>Dental Materials</i> , 2008, 24, 1178-1186.	3.5	58
2	Investigation of small crack behaviour under cyclic loading in a dual phase steel with an FIB tomography technique. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2007, 30, 556-564.	3.4	32
3	Statistical fatigue properties of SCM435 steel in ultra-long-life regime based on JSMS database on fatigue strength of metallic materials. <i>International Journal of Fatigue</i> , 2006, 28, 1486-1492.	5.7	29
4	Investigation of influence of white layer geometry on spalling property in railway wheel steel. <i>Wear</i> , 2011, 271, 400-407.	3.1	28
5	Microstructural influence on small fatigue cracks in a ferriticâ€“martensitic steel. <i>Engineering Fracture Mechanics</i> , 2008, 75, 768-778.	4.3	27
6	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
7	Fatigue strength of USP treated ASTM CA6NM for hydraulic turbine runner. <i>Surface Engineering</i> , 2014, 30, 662-669.	2.2	24
8	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
9	Atomic force microscopy of fatigue crack growth behavior in the low K region. <i>International Journal of Fatigue</i> , 2004, 26, 1159-1168.	5.7	18
10	Cumulative fatigue damage evaluations on spotâ€“welded joints using 590â€“MPaâ€“class automobile steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 870-879.	3.4	17
11	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
12	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
13	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
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	Effects of Rehydration on Dentin Strengthened by Heating or UV Irradiation. <i>Journal of Dental Research</i> , 2010, 89, 154-158.	5.2	12
16	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. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2009, 75, 1585-1590.	0.2	11
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	Development of Fatigue Testing System for in-situ Observation by an Atomic Force Microscope and Small Fatigue Crack Growth Behavior in $\alpha$ -Brass. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2006, 49, 382-389.	0.4	4
25	Influence of Crack Density on Friction and Wear Properties of Electroplated CrMo Film. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2008, 74, 1511-1518.	0.2	3
26	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
27	Estimation Method of Elastic-Plastic Fatigue Crack Growth Rates under Variable Amplitude Loadings. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 1995, 38, 355-363.	0.1	2
28	Development of Fatigue Testing System for In-situ Observation by an Atomic Force Microscope and Small Fatigue Crack Growth Behavior in $\alpha$ -Brass. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2004, 70, 588-595.	0.2	2
29	A Study in the Effect of Grain Boundary on Small Fatigue Crack Growth Behavior in $\alpha$ -Brass by means of In-situ Atomic Force Microscopy. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2004, 70, 895-902.	0.2	2
30	Fatigue Crack Growth Behavior of Ti-6Al-4V Alloy with Bimodal Microstructure under Repeated Two-step Load Sequences. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2005, 71, 1153-1159.	0.2	2
31	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
32	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
33	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
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	3-Dimensional Observation of Fatigue Crack Propagation on Spot Welded Joints Using High Strength Steel. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2010, 76, 1317-1324.	0.2	1

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37	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
38	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
39	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
40	Fracture Strength of Al2O3 Insulating Thin Film for High Density Wiring Substrate. <i>Materials Research Society Symposia Proceedings</i> , 1991, 226, 303.	0.1	0
41	Fatigue Crack Growth Behavior of Ti-6Al-4V Alloy with Bimodal Microstructure under Constant and Non-stationary Variable Amplitude Load Sequences. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2005, 71, 1160-1166.	0.2	0
42	The Effect of Pre-Plastic Working on Fatigue Crack Growth Behavior in Ultra-Fine Grained P/M Aluminum Alloys. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2006, 72, 507-512.	0.2	0
43	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
44	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
45	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
46	Discrete Dislocation Dynamics Study of Dislocation Movement in Cyclic Deformation Region near Fatigue Crack Tip. <i>The Proceedings of the JSME Annual Meeting</i> , 2000, 2000.1, 35-36.	0.0	0
47	913 Microscopic Observation of Fatigue Crack Growth Behavior in Silicon Nitride. <i>The Proceedings of Conference of Kansai Branch</i> , 2000, 2000.75, _9-25_-_9-26_.	0.0	0
48	112 Effect of Porosity and Worked Layer on Growth Behavior of Small Fatigue Crack in Fe-0.5Ni-1Mo Sintered Steels. <i>The Proceedings of Conference of Kansai Branch</i> , 2000, 2000.75, _1-23_-_1-24_.	0.0	0
49	Fatigue Crack Growth Behavior in Silicon Nitride under Constant and Variable Amplitude Load Sequences. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2000, 49, 116-122.	0.2	0
50	243 AFM observation of fatigue crack branching and deflection behavior in the low growth rate region. <i>Proceedings of the 1992 Annual Meeting of JSME/MMD</i> , 2001, 2001, 201-202.	0.0	0
51	In situ observation of fatigue crack growth behavior under low growth rate region in $\beta$ -brass using AFM. <i>Proceedings of the 1992 Annual Meeting of JSME/MMD</i> , 2002, 2002, 647-648.	0.0	0
52	Effect of Frequency Ratio on Crack Growth Behavior in Silicon Nitride under Repeated Two-step Loading. <i>The Proceedings of Conference of Kansai Branch</i> , 2002, 2002.77, _8-11_-_8-12_.	0.0	0
53	Initiation and Growth Behavior of Small Fatigue Crack in Fine-grained P/M Aluminum Alloys. <i>The Proceedings of Conference of Kansai Branch</i> , 2002, 2002.77, _8-9_-_8-10_.	0.0	0
54	Expansion of Discrete Dislocation Dynamics Simulation into Fatigue Crack Propagation. <i>The Proceedings of Conference of Kansai Branch</i> , 2002, 2002.77, _2-29_-_2-30_.	0.0	0

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55	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
56	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
57	AFM Observation of Fatigue Crack Growth Deflection and Branching Behavior in $\hat{1}\pm$ -Brass. The Proceedings of the JSME Annual Meeting, 2002, 2002.2, 405-406.	0.0	0
58	AFM Observation of Fatigue Crack Growth Behavior in $\hat{1}\pm$ -Brass. The Proceedings of Conference of Kansai Branch, 2002, 2002.77, _2-47_-2-48_.	0.0	0
59	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
60	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
61	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
62	Observation of Fatigue Crack Growth Behavior in $\hat{1}\pm$ -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
63	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
64	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
65	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
66	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
67	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
68	OS8-15 AFM Observation of Small Fatigue Crack Growth Behavior in extruded Mg-Alloy AZ31 (Fatigue) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.0	0
69	ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 125.	0.0	0
70	GS0214-320 Atomic Force Microscopy of Fatigue Crack Initiation Behavior in $\hat{1}\pm+\hat{1}^2$ Ti-6Al-4V Alloy. The Proceedings of the Materials and Mechanics Conference, 2015, 2015, _GS0214-32-_GS0214-32_.	0.0	0
71	High temperature fatigue properties of Oxide-Dispersion-Strengthened Platinum-10% rhodium alloys subjected to axial force and bending stress. The Proceedings of the Materials and Mechanics Conference, 2018, 2018, OS0824.	0.0	0
72	The effects of microstructure on small fatigue crack initiation behavior in Ti-6Al-4V. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2019, 2019, 1009A0930.	0.0	0
72	Quantitative evaluation of small fatigue crack deflection behavior in metals based on T-stress. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2019, 2019, 1008C1430.	0.0	0

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73	Effectiveness of Ultrasonic Shot Peening on Stainless Cast Steel SCS6 Containing a Fatigue Crack. Materials Transactions, 2020, 61, 1593-1599.	1.2	0
74	Effect of Linear Weld Angle on Fatigue Strength of I-Shaped Laser Welded Joints. Materials Transactions, 2022, 63, 570-578.	1.2	0
75	Analysis of Fatigue Crack Propagation Behavior of Structures with One-Sided Welding in Fillet Welded Joint for Load-Carrying Type. Materials Transactions, 2022, 63, 1037-1045.	1.2	0