Manabu Enoki

List of Publications by Year
in descending order

90	971	471371 17	526166 27
papers	citations	h-index	g-index

90	90	90	637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of crystallographic orientation and geometrical compatibility on fatigue crack initiation and propagation in rolled Ti-6Al-4V alloy. Acta Materialia, 2019, 177, 56-67.	3.8	112
2	Acquisition and Analysis of Continuous Acoustic Emission Waveform for Classification of Damage Sources in Ceramic Fiber Mat. Materials Transactions, 2007, 48, 1221-1226.	0.4	61
3	Microstructure modeling and crystal plasticity simulations for the evaluation of fatigue crack initiation in Î±-iron specimen including an elliptic defect. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 165-177.	2.6	60
4	Numerical investigation of the influence of twinning/detwinning on fatigue crack initiation in AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 79-90.	2.6	41
5	Numerical investigation of the influence of rolling texture and microstructure on fatigue crack initiation in BCC polycrystals. International Journal of Fatigue, 2018, 107, 72-82.	2.8	32
6	Prediction of Cyclic Stressâ€“Strain Property of Steels by Crystal Plasticity Simulations and Machine Learning. Materials, 2019, 12, 3668.	1.3	27
7	Recovery Behaviour of Pure Magnesium in Cyclic Compression–Quick Unloading-Recovery Process at Room Temperature Investigated by AE. Materials Transactions, 2008, 49, 1800-1805.	0.4	26
8	Evaluation of the Twinning Behavior of Polycrystalline Magnesium at Room Temperature by Acoustic Emission. Materials Transactions, 2007, 48, 1215-1220.	0.4	25
9	Mechanical properties and failure mechanisms of Mg-Zn-Y alloys with different extrusion ratio and LPSO volume fraction. Journal of Magnesium and Alloys, 2022, 10, 2158-2172.	5.5	24
10	Microstructural analysis and mechanical properties of in situ Nb/Nb-aluminide layered materials. Science and Technology of Advanced Materials, 2002, 3, 129-135.	2.8	23
11	Nucleation and propagation modeling of short fatigue crack in rolled bi-modal Tiâ€“6Alâ€“4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139710.	2.6	23
12	Effect of Confinement Layer on Laser Ablation and Cavitation Bubble during Laser Shock Peening. Materials Transactions, 2016, 57, 1776-1783.	0.4	21
13	Prediction of Fatigue Strength in Steels by Linear Regression and Neural Network. Materials Transactions, 2018, 60, 189-198.	0.4	21
14	Deformation and Anelastic Recovery of Pure Magnesium and AZ31B Alloy Investigated by AE. Materials Transactions, 2007, 48, 2343-2348.	0.4	20
15	Detection of segmentation cracks in top coat of thermal barrier coatings during plasma spraying by non-contact acoustic emission method. Science and Technology of Advanced Materials, 2014, 15, 035007.	2.8	20
16	Modeling and Crystal Plasticity Simulations of Lath Martensitic Steel under Fatigue Loading. Materials Transactions, 2018, 60, 199-206.	0.4	18
17	Analysis of kinking and twinning behavior in extruded Mgâ€“Yâ€“Zn alloys by acoustic emission method with supervised machine learning technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 768, 138473.	2.6	18
18	Acoustic Emission Monitoring of Laser Shock Peening by Detection of Underwater Acoustic Wave. Materials Transactions, 2016, 57, 674-680.	0.4	16

#	Article	IF	Citations
19	Mid-infrared pulsed laser ultrasonic testing for carbon fiber reinforced plastics. Ultrasonics, 2018, 84, 310-318.	2.1	16
20	Fatigue Crack Initiation Simulation in Pure Iron Polycrystalline Aggregate. Materials Transactions, 2016, 57, 1741-1746.	0.4	15
21	Anelastic recovery of pure magnesium quantitatively evaluated by acoustic emission. Journal of Materials Research, 2011, 26, 3098-3106.	1.2	14
22	A Comparative Study of Localized Corrosion and Stress Corrosion Cracking of 13Cr Martensitic Stainless Steel Using Acoustic Emission and X-ray Computed Tomography. Materials, 2019, 12, 2569.	1.3	14
23	In situ monitoring of cracking behaviors of plasma-sprayed coatings by the laser acoustic emission technique. Journal of Materials Research, 2009, 24, 3182-3189.	1.2	12
24	<i>In-Situ</i> Observation and Acoustic Emission Analysis for SCC of MgCl₂ Droplet in SUS304 Stainless Steel. Materials Transactions, 2014, 55, 285-289.	0.4	12
25	Monotonic and cyclic anisotropies of an extruded Mgâ€“Alâ€“Caâ€“Mn alloy plate: Experiments and crystal plasticity studies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138753.	2.6	12
26	Effect of microstructure of simulated heatâ€affected zone on lowâ€to highâ€cycle fatigue properties of lowâ€carbon steels. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1239-1249.	1.7	12
27	The effect of the 18R-LPSO phase on the fatigue behavior of extruded Mg/LPSO two-phase alloy through a comparative experimental-numerical study. Journal of Magnesium and Alloys, 2021, 9, 130-143.	5.5	12
28	Evaluation of Microfracture Mode in Ceramic Coating during Thermal Cycle Test using Laser AE Technique. Materials Transactions, 2004, 45, 92-101.	0.4	11
29	In-Situ Evaluation of Detwinning Behavior in Extruded AZ31 Mg Alloy by AE. Materials Transactions, 2012, 53, 1611-1616.	0.4	11
30	Effect of macrozones on fatigue crack initiation and propagation mechanisms in a forged ti-6Al-4V alloy under fully-reversed condition. Materialia, 2022, 22, 101401.	1.3	11
31	Classification of Microfracture Process Type in Glass Matrix Composites by Quantitative Acoustic Emission Method. Materials Transactions, 2001, 42, 108-113.	0.4	10
32	Smart Stress-Memory Patch for Fatigue Damage of Structure. Materials Transactions, 2007, 48, 1244-1248.	0.4	10
33	SCC Monitoring of Chloride Droplets on Thin SUS304 Plate Specimens by Analysis of Continuous Recorded AE Waveform. Materials Transactions, 2010, 51, 1409-1413.	0.4	10
34	Crack Monitoring during Plasma Spraying of Ceramic Coatings by Non-Contact Acoustic Emission Method. Materials Transactions, 2010, 51, 1272-1276.	0.4	10
35	Numerical Simulation for Cavitation Bubble Near Free Surface and Rigid Boundary. Materials Transactions, 2015, 56, 534-538.	0.4	9
36	<i>In-Situ</i> Observation and Acoustic Emission Monitoring of the Initiation-to-Propagation Transition of Stress Corrosion Cracking in SUS420J2 Stainless Steel. Materials Transactions, 2019, 60, 2151-2159.	0.4	9

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37	Fatigue Crack Length Measurement of Sputtered Metal Film for RFID-based Smart Stress Memory Patch. ISIJ International, 2011, 51, 1480-1486.	0.6	9
38	Detection of AE Events due to Cracks in TBC during Spraying Process. Materials Transactions, 2012, 53, 671-675.	0.4	8
39	Crack Propagation Behavior of Ti/Ti-Al Layered Materials. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2000, 64, 1076-1081.	0.2	8
40	<i>In-Situ</i> Observation and Acoustic Emission Analysis for Corrosion Pitting of MgCl₂ Droplet in SUS304 Stainless Steel. Materials Transactions, 2012, 53, 1069-1074.	0.4	8
41	Analysis of Acoustic Emission Signals during Tensile Deformation of Fe-Si Steels with Various Silicon Contents. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3623-3634.	1.1	7
42	Effect of long period stacking ordered phase on the fatigue properties of extruded Mg-Y-Zn alloys. International Journal of Fatigue, 2019, 128, 105205.	2.8	7
43	Multiscale Analysis of MnS Inclusion Distributions in High Strength Steel. ISIJ International, 2020, 60, 1714-1723.	0.6	7
44	Scattering in Fatigue Crack Growth of Thin Pure Copper Sheet for Smart Stress Memory Patch. ISIJ International, 2007, 47, 1687-1691.	0.6	7
45	Prediction of Fatigue Life of Steels in Consideration of Defect-induced Crack Initiation and Propagation. ISIJ International, 2020, 60, 799-806.	0.6	7
46	Data Assimilation in the Welding Process for Analysis of Weld Toe Geometry and Heat Source Model. ISIJ International, 2020, 60, 1301-1311.	0.6	7
47	Fatigue Process Evaluation of Ultrasonic Fatigue Testing in High Strength Steel Analyzed by Acoustic Emission and Non-Linear Ultrasonic. Materials Transactions, 2010, 51, 1404-1408.	0.4	6
48	Finite Element Analysis of Tensile Fatigue Behavior of Coronary Stent. Materials Transactions, 2012, 53, 959-962.	0.4	6
49	Crystallography and deformation behavior of Î± phase precipitate at twin/matrix interface in a cold rolled metastable Ti-12Mo alloy. Journal of Alloys and Compounds, 2022, 892, 162234.	2.8	6
50	Strain-Controlled Fatigue Behavior in Thin Pure Copper Sheet for Smart Stress-Memory Patch. Materials Transactions, 2012, 53, 690-695.	0.4	5
51	Effects of Plating Conditions on Electroless Ni–Co–P Coating Prepared from Lactate-Citrate-Ammonia Solution. Materials Transactions, 2013, 54, 337-343.	0.4	5
52	Modelling of Hydrogen Diffusion in a Weld Cold Cracking Test: Part 1, Experimental Determinations of Apparent Diffusion Coefficient and Boundary Condition. ISIJ International, 2021, 61, 1245-1253.	0.6	5
53	Evaluation of Fatigue Properties of Steel Bar by Smart Stress-memory Patch. ISIJ International, 2011, 51, 250-255.	0.6	5
54	Monitoring of Acoustic Emission Activity of Smart Stress Memory Patch to Estimate Maximum Fatigue Stress for Structural Health Monitoring. ISIJ International, 2011, 51, 88-92.	0.6	5

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55	Potential kink band formation on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.svg" display="inline" id="d1e257"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>/</mml:mo><mml:mi>Î²</mml:mi></mml:mrow></mml:math> two-phase Ti-10Cr alloy under compressive condition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 143538.	2.6	5
56	Evaluation of Thermal Deformation Process of Nickel Based Active Composites by Laser AE Technique. Materials Transactions, 2004, 45, 257-263.	0.4	4
57	Acoustic emission monitoring of micro cell corrosion testing in type 304 stainless steels. Strength, Fracture and Complexity, 2011, 7, 71-78.	0.2	4
58	Evaluation of Torsional Fatigue Behavior of Coronary Stents. Materials Transactions, 2015, 56, 1257-1261.	0.4	4
59	Identifying Factors for Cu Contained in Carbon Steel Produced in Japan. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 461-466.	0.1	4
60	Bayesian inverse design of high-strength aluminum alloys at high temperatures. MRS Advances, 2022, 7, 213-216.	0.5	4
61	AE Analysis of Compression Test with Different Loading Direction of Unidirectional Solidification LPSO-Mg Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 697-701.	0.2	3
62	Evaluation of Mechanical Properties of Catheter Shafts under Cyclic Bending. Materials Transactions, 2017, 58, 1049-1054.	0.4	3
63	Exploration of outliers in strengthâ€“ductility relationship of dual-phase steels. Science and Technology of Advanced Materials Methods, 2022, 2, 175-197.	0.4	3
64	Numerical Analysis Approach for the Crack Propagation in Ductile/Brittle Layered Materials. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2001, 65, 1002-1007.	0.2	2
65	Evaluation of Degradation of Ceramic Fiber Mat by Acoustic Emission. AIP Conference Proceedings, 2005, , .	0.3	2
66	Evaluation of cracking due to dynamic temperature fluctuation during plasma spraying process by laser AE method. Strength, Fracture and Complexity, 2011, 7, 177-183.	0.2	2
67	<i>In-Situ</i> Monitoring of Oxide Ion Induced Breakdown in Amorphous Tantalum Oxide Thin Film Using Acoustic Emission Measurement. Materials Transactions, 2014, 55, 1553-1556.	0.4	2
68	Modelling of Hydrogen Diffusion in a Weld Cold Cracking Test: Part 2, Numerical Calculations. ISIJ International, 2021, 61, 1254-1263.	0.6	2
69	Quantitative Analysis of Oxidation Behavior of Free Carbon in S-Ti-C-O Fiber-Bonded Ceramics.. Journal of the Ceramic Society of Japan, 2001, 109, 143-148.	1.3	1
70	Evaluation of Interfacial Adhesion between Si Substrate and Organic Polymer Dielectric Film. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 462-467.	0.2	1
71	Fatigue behavior and coating failure of polymer coated drug eluting stent. Strength, Fracture and Complexity, 2011, 7, 195-203.	0.2	1
72	Fatigue crack behavior of thin copper sheet and its application for smart stress-memory patch. Strength, Fracture and Complexity, 2011, 7, 205-214.	0.2	1

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73	In situ damage monitoring during surface treatment of materials. Strength, Fracture and Complexity, 2011, 7, 53-60.	0.2	1
74	Effect of Specimen Shape on Fatigue Behavior in Thin Pure Copper Sheet for Smart Stress-memory Patch. ISIJ International, 2014, 54, 2342-2348.	0.6	1
75	Effects of Fabrication Method, Shape, Strain and Temperature on Conductive Properties of Smart Stress-Memory Patch. Materials Transactions, 2014, 55, 1464-1470.	0.4	1
76	Mechanical Properties Required for Coronary Stents and Their Evaluation. Materia Japan, 2016, 55, 147-151.	0.1	1
77	Mid-IR laser ultrasonic testing for fiber reinforced plastics. AIP Conference Proceedings, 2018, , .	0.3	1
78	Clustering Analysis of Acoustic Emission Signals during Compression Tests in Mille-Feuille Structure Materials. Materials Transactions, 2022, 63, .	0.4	1
79	Size Effect on Strength of Woven Fabric Al2O3 Fiber - Al2O3 Matrix Composites. Ceramic Engineering and Science Proceedings, 0, , 685-690.	0.1	1
80	AE sources of droplet SCC testing in type 304 stainless steel. , 2014, , .		0
81	Detection of Fracture in Structural Adhesive Using RFID Tags. Materials Transactions, 2014, 55, 1722-1726.	0.4	0
82	Investigation of Static and Fatigue Behavior of Periodic Mesh Plates Using Acoustic Emission Method. Materials Transactions, 2015, 56, 576-580.	0.4	0
83	W03I Development of stress memory patch(International Workshop on "New Frontiers of Smart) Tj ETQq1 1 0.784314 rgBT /Overloc 2006, 2006.14, 301-302.	0.0	0
84	Damage Evaluation of Micro Samples by Ultrasonics. Journal of Japan Institute of Electronics Packaging, 2006, 9, 459-464.	0.0	0
85	DEFORMATION OF PURE MAGNESIUM IN TENSILE TEST INVESTIGATED BY STFT OF AE SIGNALS. , 2008, , .		0
86	412 Effect of material and thickness on laser peening process by AE method. The Proceedings of the Materials and Processing Conference, 2010, 2010.18, _412-1_-_412-3_.	0.0	0
87	619 AE Measurement and Signal Processing for Monitoring of Material Processes with High Noise Level. The Proceedings of the Materials and Processing Conference, 2012, 2012.20, _619-1_-_619-2_.	0.0	0
88	321 Evaluation of laser shock peening by AE propagated in water. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _321-1_-_321-2_.	0.0	0
89	325 Real-Time Visualization of Cracking during Material Processes by AE Waveform Analysis in High Noise Environment. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _325-1_-_325-2_.	0.0	0
90	Evaluation of Mechanical Property of Catheter Shaft under Cyclic Bending. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 301-306.	0.1	0