

Manabu Enoki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Crystallography and deformation behavior of $\hat{\epsilon}$ 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
2	Bayesian inverse design of high-strength aluminum alloys at high temperatures. MRS Advances, 2022, 7, 213-216.	0.5	4
3	Clustering Analysis of Acoustic Emission Signals during Compression Tests in Mille-Feuille Structure Materials. Materials Transactions, 2022, 63, .	0.4	1
4	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
5	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
6	Exploration of outliers in strength-ductility relationship of dual-phase steels. Science and Technology of Advanced Materials Methods, 2022, 2, 175-197.	0.4	3
7	Potential kink band formation on $\langle \text{mml:math xmins:mml=} \text{http://www.w3.org/1998/Math/MathML altimg="si7.svg" display="inline" id="d1e257"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\epsilon} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{\epsilon} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ two-phase Ti-10Cr alloy under compressive condition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 142528.		5
8	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
9	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
10	Modelling of Hydrogen Diffusion in a Weld Cold Cracking Test: Part 2, Numerical Calculations. ISIJ International, 2021, 61, 1254-1263.	0.6	2
11	Monotonic and cyclic anisotropies of an extruded Mg-Al-Ca-Mn alloy plate: Experiments and crystal plasticity studies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138753.	2.6	12
12	Nucleation and propagation modeling of short fatigue crack in rolled bi-modal Ti-6Al-4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139710.	2.6	23
13	Effect of microstructure of simulated heat-affected zone on low-to high-cycle fatigue properties of low-carbon steels. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1239-1249.	1.7	12
14	Multiscale Analysis of MnS Inclusion Distributions in High Strength Steel. ISIJ International, 2020, 60, 1714-1723.	0.6	7
15	Prediction of Fatigue Life of Steels in Consideration of Defect-induced Crack Initiation and Propagation. ISIJ International, 2020, 60, 799-806.	0.6	7
16	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
17	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
18	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

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19	<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
20	Analysis of kinking and twinning behavior in extruded Mg–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
21	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
22	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
23	Prediction of Cyclic Stress–Strain Property of Steels by Crystal Plasticity Simulations and Machine Learning. Materials, 2019, 12, 3668.	1.3	27
24	Mid-IR laser ultrasonic testing for fiber reinforced plastics. AIP Conference Proceedings, 2018, , .	0.3	1
25	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
26	Mid-infrared pulsed laser ultrasonic testing for carbon fiber reinforced plastics. Ultrasonics, 2018, 84, 310-318.	2.1	16
27	Prediction of Fatigue Strength in Steels by Linear Regression and Neural Network. Materials Transactions, 2018, 60, 189-198.	0.4	21
28	Modeling and Crystal Plasticity Simulations of Lath Martensitic Steel under Fatigue Loading. Materials Transactions, 2018, 60, 199-206.	0.4	18
29	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
30	Evaluation of Mechanical Property of Catheter Shaft under Cyclic Bending. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 301-306.	0.1	0
31	Microstructure modeling and crystal plasticity simulations for the evaluation of fatigue crack initiation in ᵣ-iron specimen including an elliptic defect. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 165-177.	2.6	60
32	Evaluation of Mechanical Properties of Catheter Shafts under Cyclic Bending. Materials Transactions, 2017, 58, 1049-1054.	0.4	3
33	Fatigue Crack Initiation Simulation in Pure Iron Polycrystalline Aggregate. Materials Transactions, 2016, 57, 1741-1746.	0.4	15
34	Effect of Confinement Layer on Laser Ablation and Cavitation Bubble during Laser Shock Peening. Materials Transactions, 2016, 57, 1776-1783.	0.4	21
35	Acoustic Emission Monitoring of Laser Shock Peening by Detection of Underwater Acoustic Wave. Materials Transactions, 2016, 57, 674-680.	0.4	16
36	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

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37	Mechanical Properties Required for Coronary Stents and Their Evaluation. <i>Materia Japan</i> , 2016, 55, 147-151.	0.1	1
38	Investigation of Static and Fatigue Behavior of Periodic Mesh Plates Using Acoustic Emission Method. <i>Materials Transactions</i> , 2015, 56, 576-580.	0.4	0
39	Evaluation of Torsional Fatigue Behavior of Coronary Stents. <i>Materials Transactions</i> , 2015, 56, 1257-1261.	0.4	4
40	Numerical Simulation for Cavitation Bubble Near Free Surface and Rigid Boundary. <i>Materials Transactions</i> , 2015, 56, 534-538.	0.4	9
41	Effect of Specimen Shape on Fatigue Behavior in Thin Pure Copper Sheet for Smart Stress-memory Patch. <i>ISIJ International</i> , 2014, 54, 2342-2348.	0.6	1
42	AE sources of droplet SCC testing in type 304 stainless steel. , 2014, , .		0
43	Detection of segmentation cracks in top coat of thermal barrier coatings during plasma spraying by non-contact acoustic emission method. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035007.	2.8	20
44	Detection of Fracture in Structural Adhesive Using RFID Tags. <i>Materials Transactions</i> , 2014, 55, 1722-1726.	0.4	0
45	<i>In-Situ&/i> Monitoring of Oxide Ion Induced Breakdown in Amorphous Tantalum Oxide Thin Film Using Acoustic Emission Measurement. <i>Materials Transactions</i> , 2014, 55, 1553-1556.	0.4	2
46	Effects of Fabrication Method, Shape, Strain and Temperature on Conductive Properties of Smart Stress-Memory Patch. <i>Materials Transactions</i> , 2014, 55, 1464-1470.	0.4	1
47	<i>In-Situ&/i> Observation and Acoustic Emission Analysis for SCC of MgCl<sub>2&/sub> Droplet in SUS304 Stainless Steel. <i>Materials Transactions</i> , 2014, 55, 285-289.	0.4	12
48	Analysis of Acoustic Emission Signals during Tensile Deformation of Fe-Si Steels with Various Silicon Contents. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3623-3634.	1.1	7
49	Effects of Plating Conditions on Electroless Ni–Co–P Coating Prepared from Lactate-Citrate-Ammonia Solution. <i>Materials Transactions</i> , 2013, 54, 337-343.	0.4	5
50	321 Evaluation of laser shock peening by AE propagated in water. <i>The Proceedings of the Materials and Processing Conference</i> , 2013, 2013.21, _321-1_-_321-2_.	0.0	0
51	325 Real-Time Visualization of Cracking during Material Processes by AE Waveform Analysis in High Noise Environment. <i>The Proceedings of the Materials and Processing Conference</i> , 2013, 2013.21, _325-1_-_325-2_.	0.0	0
52	<i>In-Situ</i> Evaluation of Detwinning Behavior in Extruded AZ31 Mg Alloy by AE. <i>Materials Transactions</i> , 2012, 53, 1611-1616.	0.4	11
53	Detection of AE Events due to Cracks in TBC during Spraying Process. <i>Materials Transactions</i> , 2012, 53, 671-675.	0.4	8
54	Finite Element Analysis of Tensile Fatigue Behavior of Coronary Stent. <i>Materials Transactions</i> , 2012, 53, 959-962.	0.4	6

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55	Strain-Controlled Fatigue Behavior in Thin Pure Copper Sheet for Smart Stress-Memory Patch. Materials Transactions, 2012, 53, 690-695.	0.4	5
56	<i>In-Situ&/i> Observation and Acoustic Emission Analysis for Corrosion Pitting of MgCl&sub&2&/sub& Droplet in SUS304 Stainless Steel. Materials Transactions, 2012, 53, 1069-1074.	0.4	8
57	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
58	Fatigue behavior and coating failure of polymer coated drug eluting stent. Strength, Fracture and Complexity, 2011, 7, 195-203.	0.2	1
59	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
60	Acoustic emission monitoring of micro cell corrosion testing in type 304 stainless steels. Strength, Fracture and Complexity, 2011, 7, 71-78.	0.2	4
61	In situ damage monitoring during surface treatment of materials. Strength, Fracture and Complexity, 2011, 7, 53-60.	0.2	1
62	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
63	Anelastic recovery of pure magnesium quantitatively evaluated by acoustic emission. Journal of Materials Research, 2011, 26, 3098-3106.	1.2	14
64	Fatigue Crack Length Measurement of Sputtered Metal Film for RFID-based Smart Stress Memory Patch. ISIJ International, 2011, 51, 1480-1486.	0.6	9
65	Evaluation of Fatigue Properties of Steel Bar by Smart Stress-memory Patch. ISIJ International, 2011, 51, 250-255.	0.6	5
66	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
67	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
68	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
69	Crack Monitoring during Plasma Spraying of Ceramic Coatings by Non-Contact Acoustic Emission Method. Materials Transactions, 2010, 51, 1272-1276.	0.4	10
70	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
71	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
72	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

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73	DEFORMATION OF PURE MAGNESIUM IN TENSILE TEST INVESTIGATED BY STFT OF AE SIGNALS. , 2008, , .		0
74	Evaluation of the Twinning Behavior of Polycrystalline Magnesium at Room Temperature by Acoustic Emission. Materials Transactions, 2007, 48, 1215-1220.	0.4	25
75	Smart Stress-Memory Patch for Fatigue Damage of Structure. Materials Transactions, 2007, 48, 1244-1248.	0.4	10
76	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
77	Deformation and Anelastic Recovery of Pure Magnesium and AZ31B Alloy Investigated by AE. Materials Transactions, 2007, 48, 2343-2348.	0.4	20
78	Scattering in Fatigue Crack Growth of Thin Pure Copper Sheet for Smart Stress Memory Patch. ISIJ International, 2007, 47, 1687-1691.	0.6	7
79	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
80	Damage Evaluation of Micro Samples by Ultrasonics. Journal of Japan Institute of Electronics Packaging, 2006, 9, 459-464.	0.0	0
81	Evaluation of Degradation of Ceramic Fiber Mat by Acoustic Emission. AIP Conference Proceedings, 2005, , .	0.3	2
82	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
83	Evaluation of Thermal Deformation Process of Nickel Based Active Composites by Laser AE Technique. Materials Transactions, 2004, 45, 257-263.	0.4	4
84	Evaluation of Microfracture Mode in Ceramic Coating during Thermal Cycle Test using Laser AE Technique. Materials Transactions, 2004, 45, 92-101.	0.4	11
85	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
86	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
87	Classification of Microfracture Process Type in Glass Matrix Composites by Quantitative Acoustic Emission Method. Materials Transactions, 2001, 42, 108-113.	0.4	10
88	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
89	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
90	Size Effect on Strength of Woven Fabric Al ₂ O ₃ Fiber - Al ₂ O ₃ Matrix Composites. Ceramic Engineering and Science Proceedings, 0, , 685-690.	0.1	1