Eiji Abe

List of Publications by Year in descending order

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134	6,386	36	78
papers	citations	h-index	g-index
136	136 docs citations	136	4068
all docs		times ranked	citing authors

#	Article	IF	Citations
1	Short-range order clusters in the long-period stacking/order phases with an intrinsic-I type stacking fault in Mg-Co-Y alloys. Scripta Materialia, 2022, 207, 114282.	5.2	30
2	Microstructures and mechanical properties of as-cast Mg-Sm-Zn-Zr alloys with varying Gd contents. Journal of Magnesium and Alloys, 2022, 10, 1220-1234.	11.9	25
3	Dilute long period stacking/order (LPSO)-variant phases along the composition gradient in a Mg-Ho-Cu alloy. Journal of Magnesium and Alloys, 2022, 10, 1573-1580.	11.9	17
4	Quantitative X-ray diffraction analysis of solute-enriched stacking faults in hcp-Mg alloys based on peak asymmetry analysis. Materials Today Communications, 2022, 31, 103344.	1.9	7
5	Density functional theory study of solute cluster growth processes in Mg-Y-Zn LPSO alloys. Acta Materialia, 2021, 203, 116491.	7.9	25
6	Work Softening Phenomena in Al–Fe Alloys: The Impurity-Scavenging Effect of the θ-Al ₁₃ Fe ₄ Phase. Materials Transactions, 2021, 62, 532-538.	1.2	1
7	Recovery features of kink boundaries upon post-annealing of a hot-extruded Mg-Zn-Y alloy. Materials Characterization, 2021, 177, 111153.	4.4	13
8	Strengthening of mille-feuille structured high-density polyethylene by heat elongation. Polymer, 2021, 236, 124343.	3.8	7
9	Grain boundary plasticity in solid solution Mg–Li binary alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139705.	5.6	12
10	The LPSO Structure with an Extra Order beyond Stacking Periodicity. Materials Transactions, 2020, 61, 833-838.	1.2	16
11	Work Softening Phenomena in Al-Fe Alloys: the Impurity-Scavenging Effect of the <i>î,</i> -Al ₁₃ Fe ₄ Phase. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2020, 84, 406-412.	0.4	0
12	The Future of Crystallography Led by Electron Beams. Nihon Kessho Gakkaishi, 2020, 62, 248-252.	0.0	0
13	Theoretical Calculation and Experimental Verification for Dislocation Reduction in Germanium Epitaxial Layers with Semicylindrical Voids on Silicon. Journal of Visualized Experiments, 2020, , .	0.3	0
14	A novel long-period stacking/order structure in Mg-Ni-Y alloys. Journal of Alloys and Compounds, 2019, 788, 277-282.	5 . 5	35
15	Sacropelvic Fixation With S2 Alar Iliac Screws May Prevent Sacroiliac Joint Pain After Multisegment Spinal Fusion. Spine, 2019, 44, E1024-E1030.	2.0	28
16	Probing Single Pt Atoms in Complex Intermetallic Al ₁₃ Fe ₄ . Journal of the American Chemical Society, 2018, 140, 3838-3841.	13.7	33
17	Platelet precipitate in an age-hardening Mg-Zn-Gd alloy. Journal of Alloys and Compounds, 2018, 752, 407-411.	5.5	25

²pA_SS3-4Microscopic investigations of Kinks formed in dilute Mg Alloys. Microscopy (Oxford,) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 62

#	Article	IF	CITATIONS
19	PM-19Impurity Effects on Mechanical Properties of 1000 Series Aluminum Alloys. Microscopy (Oxford,) Tj ETQq1	1.5 ⁷⁸⁴³¹	4 _{rgBT} /Ove
20	In-plane positional correlations among dopants in 10H type long period stacking ordered Mg75Zn10Y15 alloy studied by X-ray fluorescence holography. Materialia, 2018, 3, 256-259.	2.7	34
21	PM-03Intrinsic Rotation-angle Fluctuations of Twinning in HCP Mg Alloys. Microscopy (Oxford,) Tj ETQq1 1 0.784	314 rgBT / 1.5	Overlock 1
22	Defects and their reduction in Ge selective epitaxy and coalescence layer on Si with semicylindrical voids on SiO <formula> <tex>\$_{2}\$</tex> </formula> masks. IEEE Journal of Selected Topics in Quantum Electronics, 2018, , 1-1.	2.9	6
23	Influence of Work Roll Surface Oxide Scale on Interface Thermal Transfer. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 735-741.	0.4	1
24	Integrated contrast-transfer-function for aberration-corrected phase-contrast STEM. Ultramicroscopy, 2018, 194, 193-198.	1.9	12
25	Reduction of threading dislocations by image force in Ge selective epilayers on Si. , 2018, , .		0
26	OM-II-1Complex Structure Determinations Through Advanced STEM Combined with CBED. Microscopy (Oxford, England), 2016, 65, i14.1-i14.	1.5	0
27	Fusion of Multiple Segments Can Increase the Incidence of Sacroiliac Joint Pain After Lumbar or Lumbosacral Fusion. Spine, 2016, 41, 999-1005.	2.0	52
28	One-Step Synthesis of a High Performance Pt-Fe3O4 Catalyst: Intermetallic Al13Fe4 as a Platform and Precursor. Catalysis Letters, 2016, 146, 1309-1316.	2.6	8
29	A long-period superlattice phase in Mg97Zn1Yb2 alloys synthesized under high-pressure. Scripta Materialia, 2016, 121, 45-49.	5.2	17
30	A Diagnostic Scoring System for Sacroiliac Joint Pain Originating from the Posterior Ligament. Pain Medicine, 2016, 18, pnw117.	1.9	35
31	Fascinating LPSO-Structured Mg Alloys. , 2016, , 11-12.		1
32	Structural Characteristics and Crystallography of the Synchronized LPSO-Mg Alloys. Materia Japan, 2015, 54, 50-54.	0.1	1
33	B11-P-07Phase-contrast characteristics of annular bright-field imaging in STEM. Microscopy (Oxford,) Tj ETQq1 1 ().784314 1.5	rgBT /Overl
34	Local cluster symmetry of a highly ordered quasicrystalline Al58Cu26Ir16extracted through multivariate analysis of STEM images. Microscopy (Oxford, England), 2015, 64, 341-349.	1.5	17
35	Direct observations of local electronic states in an Al-based quasicrystal by STEM-EELS. Microscopy (Oxford, England), 2014, 63, i17.2-i18.	1.5	2
36	The quasiperiodic average structure of highly disordered decagonal Zn–Mg–Dy and its temperature dependence. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 315-330.	1.1	9

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37	Highly ordered 10H-type long-period stacking order phase in a Mg–Zn–Y ternary alloy. Scripta Materialia, 2014, 78-79, 13-16.	5.2	129
38	Modeling of Heat Transfer Coefficient of Oxide Scale in Hot Forging. Procedia Engineering, 2014, 81, 492-497.	1.2	16
39	Hydrogenation-induced microstructure changes of pseudo-binary (Pr Mg1â^')Ni2 Laves compounds. Journal of Alloys and Compounds, 2013, 580, S81-S84.	5.5	12
40	Micro-Kinking of the Long-Period Stacking/Order (LPSO) Phase in a Hot-Extruded Mg ₉₇ Zn ₁ Y ₂ Alloy. Materials Transactions, 2013, 54, 698-702.	1.2	65
41	Electron microscopy of quasicrystals – where are the atoms?. Chemical Society Reviews, 2012, 41, 6787.	38.1	35
42	Precise structure control of GaAs/InGaP hetero-interfaces using metal organic vapor phase epitaxy and its abruptness analyzed by STEM. Journal of Crystal Growth, 2012, 347, 25-30.	1.5	4
43	Diagnostic accuracy of fine-needle aspiration cytology of the breast in Japan: Report from the Working Group on the Accuracy of Breast Fine-Needle Aspiration Cytology of the Japanese Society of Clinical Cytology. Oncology Reports, 2012, 28, 1606-1612.	2.6	28
44	The structure of long period stacking/order Mg–Zn–RE phases with extended non-stoichiometry ranges. Acta Materialia, 2012, 60, 166-178.	7.9	374
45	Anterior Decompression and Shortening Reconstruction with a Titanium Mesh Cage through a Posterior Approach Alone for the Treatment of Lumbar Burst Fractures. Asian Spine Journal, 2012, 6, 123.	2.0	16
46	Structure of Quasicrystals., 2011,, 583-614.		2
47	Zr segregation and associated Al vacancies in alumina grain boundaries. Journal of the Ceramic Society of Japan, 2011, 119, 840-844.	1.1	14
48	Complex Oxide Layer at a Nickel/Steel Interface Bonded under a Moderate Vacuum Condition. ISIJ International, 2011, 51, 1859-1863.	1.4	0
49	Direct imaging of hydrogen-atom columns in a crystal by annular bright-field electron microscopy. Nature Materials, 2011, 10, 278-281.	27.5	313
50	Polytypes of long-period stacking structures synchronized with chemical order in a dilute Mg–Zn–Y alloy. Philosophical Magazine Letters, 2011, 91, 690-696.	1.2	220
51	Microstructure Evolution at Severely-deformed Ferrite/Martensite Interfaces in a Layer-integrated Steel. ISIJ International, 2010, 50, 272-278.	1.4	3
52	Synthesis of Nanotube Array Composed of an Amorphous Matrix Embedded with NaClâ€Type SiC Crystallites by Chemical Vapor Infiltration Techniques. Journal of the American Ceramic Society, 2010, 93, 1557-1560.	3.8	0
53	Quasicrystalline Tenfold Symmetry Order in Boron Compounds. Journal of the Physical Society of Japan, 2010, 79, 073601.	1.6	9
54	A structural model for charoite. Mineralogical Magazine, 2009, 73, 883-890.	1.4	15

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55	Spine-Shortening Vertebral Osteotomy for Tethered Cord Syndrome. Spine, 2009, 34, E823-E825.	2.0	24
56	Stacking Faults and a Novel Structural Polytype in a Hydrogen-Storage (La _{0.8} Mg _{0.2})Ni _{3.5} Alloy with Block-Stacking Superstructures. Materials Transactions, 2009, 50, 943-947.	1.2	0
57	STEM-EDS Observations of Roll-bonded Interfaces in a Layer-integrated Steel. Materia Japan, 2009, 48, 627-627.	0.1	O
58	Microstructure Evolutions at Severely-deformed Austenite/Martensite Interfaces of a Layer-integrated Steel. ISIJ International, 2009, 49, 1406-1413.	1.4	6
59	Abrupt InGaPâ^•GaAs heterointerface grown by optimized gas-switching sequence in metal organic vapor phase epitaxy. Applied Physics Letters, 2008, 92, 112106.	3.3	17
60	Microstructure Evolutions of Rapidly-Solidified and Conventionally-Cast Mg ₉₇ Zn ₁ Y ₂ Alloys. Materials Transactions, 2008, 49, 990-994.	1.2	71
61	Giant cell tumor of fifth lumbar vertebrae: two case reports and review of the literature. Spine Journal, 2007, 7, 499-505.	1.3	45
62	Electrochemical immobilization of Cs in single-crystalline SYNROC. Journal of Solid State Chemistry, 2006, 179, 1521-1524.	2.9	18
63	Five-dimensional model of theS1-superstructure phase inAlâ^'Niâ^'Coquasicrystals. Physical Review B, 2005, 72, .	3 . 2	20
64	Atomic-Resolution Observations of Nano-Size Precipitates Developed in a Mg-Zia-Ce-Y Alloy. Materia Japan, 2005, 44, 980-980.	0.1	0
65	Quasicrystals as cluster aggregates. Nature Materials, 2004, 3, 759-767.	27.5	131
66	Direct imaging of icosahedral clusters in a cubic Cd6Ca approximant crystal. Journal of Non-Crystalline Solids, 2004, 334-335, 190-193.	3.1	4
67	Decagonal structure of Al72Ni2OCo8 studied by atomic-resolution electron microscopy. Journal of Non-Crystalline Solids, 2004, 334-335, 198-201.	3.1	6
68	Direct Observation of a Local Thermal Vibration Anomaly by ADF-STEM. Materia Japan, 2004, 43, 983-983.	0.1	0
69	Transmission electron microscopy study of the evolution of precipitates in aged Al–Li–Cu alloys: the θ′ and T1 phases. Acta Materialia, 2003, 51, 4251-4266.	7.9	222
70	Direct observation of a local thermal vibration anomaly in a quasicrystal. Nature, 2003, 421, 347-350.	27.8	134
71	Transmission electron microscopy study of the early stage of precipitates in aged Al–Li–Cu alloys. Acta Materialia, 2003, 51, 2891-2903.	7.9	124
72	Microstructure of a High-Strength Nanocrystalline Mg-1at.%Zn-2at.%Y Alloy Studied by Atomic-Resolution Z-Contrast STEM. Materials Science Forum, 2003, 419-422, 727-732.	0.3	2

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73	Title is missing!. Spine, 2003, 28, E125-E128.	2.0	8
74	Atomic-Scale Characterization of Nanostructured Metallic Materials by HAADF/Z-contrast STEM. Materials Transactions, 2003, 44, 2035-2041.	1.2	15
75	HAADF Observation of a High-Strength Mg ₉₇ Zn ₁ Y ₂ Nanocrystalline Alloy. Materia Japan, 2003, 42, 868-868.	0.1	0
76	Tensile Properties of TiAl Based Alloy in a Gaseous Hydrogen Atmosphere in a Temperature Range from Room Temperature to 973 K. ISIJ International, 2003, 43, 489-495.	1.4	5
77	OS05W0273 AFM observation of evolution of slip deformation by high cycle fatigue in low carbon steels. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS05W0273OS05W0273.	0.0	0
78	OS5(2)-7(OS05W0273) AFM Observation of Evolution of Slip Deformation by High Cycle Fatigue in Low Carbon Steels. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 93.	0.0	0
79	Stable Cd-Mg-Yb and Cd-Mg-Ca icosahedral quasicrystals with wide composition ranges. Philosophical Magazine Letters, 2002, 82, 27-35.	1.2	34
80	HREM and EDS analysis of sintered SiC fibre reinforced MAS glass composites. Journal of Electron Microscopy, 2002, 51, S159-S164.	0.9	1
81	Structure of a metastable Al3Ni decagonal quasicrystal: comparison with a highly perfect Al72Ni2OCo8. Journal of Alloys and Compounds, 2002, 342, 96-100.	5.5	15
82	Local Symmetry and Phason Fluctuations of an Ideal Al-Ni-Co Quasicrystal Studied by Atomic-resolution HAADF-STEM. Microscopy and Microanalysis, 2002, 8, 1218-1219.	0.4	0
83	Direct Observation of Icosahedral Clusters in Quasicrystals and Crystals. Microscopy and Microanalysis, 2002, 8, 1220-1221.	0.4	0
84	Long-period ordered structure in a high-strength nanocrystalline Mg-1 at% Zn-2 at% Y alloy studied by atomic-resolution Z-contrast STEM. Acta Materialia, 2002, 50, 3845-3857.	7.9	650
85	Influence of bone mineral density on pedicle screw fixation. Spine Journal, 2001, 1, 402-407.	1.3	201
86	Ho arrangement in the Zn6Mg3Ho icosahedral quasicrystal studied by atomic-resolution Z-contrast STEM. Microscopy (Oxford, England), 2001, 50, 187-195.	1.5	13
87	Decagonal quasicrystals in the Zn–Mg–R alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 867-870.	5.6	15
88	A new stable icosahedral quasicrystal in the Cd-Mg-Dy system. Philosophical Magazine Letters, 2001, 81, 17-21.	1.2	21
89	Superconductivity of Ternary Silicide with the AlB2-Type Structure Sr (Ga0.37, Si0.63)2. Physical Review Letters, 2001, 87, 077003.	7.8	93
90	Total Spondylectomy for Solitary Spinal Metastasis of the Thoracolumbar Spine: A Preliminary Report. Tohoku Journal of Experimental Medicine, 2000, 190, 33-49.	1.2	22

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91	Giant Cauda Equina Schwannoma. Spine, 2000, 25, 268.	2.0	61
92	Outcome of One-Level Posterior Lumbar Interbody Fusion for Spondylolisthesis and Postoperative Intervertebral Disc Degeneration Adjacent to the Fusion. Spine, 2000, 25, 1837-1842.	2.0	167
93	Can Insertional Torque Predict Screw Loosening and Related Failures?. Spine, 2000, 25, 858-864.	2.0	112
94	Hypertrophic Dens Resulting in Cervical Myelopathy. Spine, 2000, 25, 1303-1307.	2.0	11
95	Orthorhombic τ-Zn–Mg–Dy phase related to a Frank-Kasper type decagonal quasicrystal. Acta Crystallographica Section B: Structural Science, 2000, 56, 915-917.	1.8	9
96	A stable binary quasicrystal. Nature, 2000, 408, 537-538.	27.8	481
97	Stable Icosahedral Quasicrystals in the Cd-Mg-RE (RE = Rare Earth Element) Systems. Japanese Journal of Applied Physics, 2000, 39, L770-L771.	1.5	58
98	Quasi-Unit-Cell Model for an Al-Ni-Co Ideal Quasicrystal based on Clusters with Broken Tenfold Symmetry. Physical Review Letters, 2000, 84, 4609-4612.	7.8	107
99	Abe and Tsai Reply:. Physical Review Letters, 2000, 84, 3731-3731.	7.8	3
100	Structure, expression, and chromosomal localization of the human gene encoding a germinal center-associated nuclear protein (GANP) that associates with MCM3 involved in the initiation of DNA replication. Gene, 2000, 255, 219-227.	2.2	38
101	Stable icosahedral quasicrystals in binary Cd-Ca and Cd-Yb systems. Physical Review B, 2000, 62, R14605-R14608.	3.2	153
102	Production of single quasicrystals and their electrical resistivity in the Al-Pd-Re system. Philosophical Magazine Letters, 2000, 80, 495-502.	1.2	35
103	Quasicrystal-Crystal Transformation in Zn-Mg–Rare-Earth Alloys. Physical Review Letters, 1999, 83, 753-756.	7.8	56
104	Structure of a Quasicrystal without Atomic Clusters. Physical Review Letters, 1999, 82, 5269-5272.	7.8	24
105	Production of Single Decagonal Quasicrystal in Al-Co-Cu System. Japanese Journal of Applied Physics, 1999, 38, L1049-L1051.	1.5	21
106	The structure of a new Îμ-phase formed during the early stage of crystallization of Ti–48 at.% Al amorphous film. Acta Materialia, 1999, 47, 3607-3616.	7.9	16
107	Posterior lumbar interbody fusion: A retrospective study of complications after facet joint excision and pedicle screw fixation in 148 cases. Acta Orthopaedica, 1999, 70, 329-334.	1.4	114
108	Hexagonal superstructures in the Zn–Mg–rare-earth alloys. Journal of Alloys and Compounds, 1999, 283, 169-172.	5 . 5	53

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109	Surface Strain Distribution on Thoracic and Lumbar Vertebrae Under Axial Compression. Spine, 1999, 24, 1197-1202.	2.0	68
110	Anterior Decompression With Single Segmental Spinal Interbody Fusion for Lumbar Burst Fracture. Spine, 1999, 24, 67-73.	2.0	53
111	Experimental verification of the quasi-unit-cell model of quasicrystal structure. Nature, 1998, 396, 55-57.	27.8	160
112	Microstructure control and high temperature properties of TiAl base alloys. Intermetallics, 1998, 6, 637-641.	3.9	14
113	The structure of a Frank-Kasper decagonal quasicrystal in the Zn-Mg-Dy system: Comparison with the Al-Ni-Co system. Philosophical Magazine Letters, 1998, 77, 205-211.	1.2	16
114	The Atomic Structure Of The Zn-Mg-Rare-Earth Quasicrystals Studied By High-Resolution Electron Microscopy. Materials Research Society Symposia Proceedings, 1998, 553, 123.	0.1	2
115	Composition and stability of decagonal quasicrystals in the Zn-Mg-rare-earth systems. Philosophical Magazine Letters, 1998, 77, 213-219.	1.2	47
116	A hexagonal phase related to quasicrystalline phases in Zn-Mg-rare-earth system. Philosophical Magazine Letters, 1998, 77, 95-104.	1.2	39
117	Lumbar Intradiscal Pressure after Posterolateral Fusion and Pedicle Screw Fixation Tohoku Journal of Experimental Medicine, 1998, 186, 243-253.	1.2	13
118	A Novel Decagonal Quasicrystal in Zn-Mg-Dy System. Japanese Journal of Applied Physics, 1997, 36, L1038-L1039.	1.5	30
119	Thoracolumbar Burst Fracture With Horizontal Fracture of the Posterior Column. Spine, 1997, 22, 83-87.	2.0	15
120	Anterior Decompression of Foraminal Stenosis Below a Lumbosacral Transitional Vertebra. Spine, 1997, 22, 823-826.	2.0	53
121	High-resolution electron microscopy of twin interfaces in massively transformed Î ³ -TiAl. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 75, 975-991.	0.6	20
122	Microstructure of Co–Al–O granular thin films. Journal of Applied Physics, 1997, 82, 5646-5652.	2.5	120
123	Phase Equilibria in the TiAl-rich Portion of Ti-Al-Sb System at 1373 and 1573 K. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 385-390.	0.4	5
124	New ordered structure of TiAl studied by high-resolution electron microscopy. Intermetallics, 1996, 4, 327-333.	3.9	36
125	Outcome of Anterior Decompression and Stabilization for Thoracolumbar Unstable Burst Fractures in the Absence of Neurologic Deficits. Spine, 1996, 21, 620-625.	2.0	84
126	Periosteal ganglion: a report of three new cases including MRI findings and a review of the literature. Skeletal Radiology, 1996, 25, 153-157.	2.0	20

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127	Spinal subdural hematoma. Skeletal Radiology, 1996, 25, 477-480.	2.0	59
128	Clinical experience of functional electrical stimulation in complete paraplegia. Spinal Cord, 1996, 34, 615-619.	1.9	35
129	Studies on the a \hat{a} † \hat{i} 3 phase transformation mechanism in Ti[sbnd]48at.% Al alloy by high-resolution electron microscopy. Philosophical Magazine Letters, 1995, 72, 291-296.	1.2	25
130	Stress Fractures of the Medial Malleolus: A Case Report. Foot and Ankle International, 1995, 16, 49-52.	2.3	31
131	Case report 858. Skeletal Radiology, 1994, 23, 471-4.	2.0	16
132	The structure of an Al-Pd decagonal quasicrystal studied by high-resolution electron microscopy. Philosophical Magazine Letters, 1994, 70, 163-168.	1.2	34
133	Pseudohypoparathyroidism-Associated Spinal Stenosis. Spine, 1994, 19, 1186-1189.	2.0	33
134	Stability of Transpedicle Screwing for the Osteoporotic Spine. Spine, 1993, 18, 2240-2245.	2.0	197