List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9326805/publications.pdf Version: 2024-02-01



ΙΟΗΝ ΒΛΝΗΛΡΤ

#	Article	IF	CITATIONS
1	Shortâ€Range Ordered Aluminum Foams. Advanced Engineering Materials, 2022, 24, 2100795.	3.5	2
2	Combined effect of Sn addition and pre-ageing on natural secondary and artificial ageing of Al–Mg–Si alloys. Journal of Materials Science, 2022, 57, 2149-2162.	3.7	3
3	Clustering and precipitation in Al-Mg-Si alloys during linear heating. Journal of Materials Science and Technology, 2022, 120, 78-88.	10.7	10
4	Natural ageing clustering under different quenching conditions in an Al-Mg-Si alloy. Scripta Materialia, 2021, 190, 179-182.	5.2	29
5	Correlation between foam structure and mechanical performance of aluminium foam sandwich panels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140260.	5.6	23
6	Nucleation and growth of gas bubbles in AlSi8Mg4 foam investigated by X-ray tomoscopy. Acta Materialia, 2021, 206, 116583.	7.9	14
7	Unravelling the Mechanism of Lithium Nucleation and Growth and the Interaction with the Solid Electrolyte Interface. ACS Energy Letters, 2021, 6, 1719-1728.	17.4	61
8	Study of Possible Frequency Dependence of Small AC Fields on Magnetic Flux Trapping in Niobium by Polarized Neutron Imaging. Applied Sciences (Switzerland), 2021, 11, 6308.	2.5	3
9	Determination of the Spatial Resolution in the Case of Imaging Magnetic Fields by Polarized Neutrons. Applied Sciences (Switzerland), 2021, 11, 6973.	2.5	3
10	Influence of Gas Pressure and Blowing Agent Content on the Formation of Aluminum Alloy Foam. Advanced Engineering Materials, 2021, 23, 2100242.	3.5	8
11	Natural and artificial ageing in aluminium alloys – the role of excess vacancies. Acta Materialia, 2021, 215, 117014.	7.9	35
12	Aluminium foam with sub-mm sized cells produced using a rotating gas injector. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115427.	3.5	4
13	The Neutron Imaging Instrument CONRAD—Post-Operational Review. Journal of Imaging, 2021, 7, 11.	3.0	4
14	Tomoscopy: Timeâ€Resolved Tomography for Dynamic Processes in Materials. Advanced Materials, 2021, 33, e2104659.	21.0	32
15	Clustering phenomena in quenched Al, Al–Mg, Al–Si and Al–Mg–Si alloys. Scripta Materialia, 2020, 177, 203-207.	5.2	12
16	Exploring the hidden world of solute atoms, clusters and vacancies in aluminium alloys. MATEC Web of Conferences, 2020, 326, 01001.	0.2	3
17	Motion of liquid and stabilising particles in individual liquid aluminium alloy films. Journal of Materials Science, 2020, 55, 14125-14136.	3.7	2
18	Visualization of compensating currents in type-II/1 superconductor via high field cooling. Applied Physics Letters, 2020, 116, 192602.	3.3	4

#	Article	IF	CITATIONS
19	The Influence of Alloy Composition and Liquid Phase on Foaming of Al–Si–Mg Alloys. Metals, 2020, 10, 189.	2.3	15
20	Co-evolution of vacancies and solute clusters during artificial ageing of Al-Mg-Si alloys. Physical Review Materials, 2020, 4, .	2.4	8
21	Decomposition of Ti and Zr Hydrides Studied by Neutron Diffraction. Minerals, Metals and Materials Series, 2020, , 39-46.	0.4	0
22	Influence of quench rate on multi-stage ageing of AA6014 alloy. MATEC Web of Conferences, 2020, 326, 02005.	0.2	1
23	Realizing a (nearly) 100% neutron beam polarization. Measurement Science and Technology, 2020, 31, 115017.	2.6	0
24	Effect of pre-ageing on natural secondary ageing and paint bake hardening in Al–Mg–Si alloys. Materialia, 2019, 7, 100413.	2.7	20
25	Influence of Sn on the age hardening behavior of Al–Mg–Si alloys at different temperatures. Materialia, 2019, 8, 100441.	2.7	14
26	Hardness data related to pre-ageing, natural secondary ageing, and paint bake hardening in Al-Mg-Si alloys. Data in Brief, 2019, 27, 104494.	1.0	10
27	Crystal structure of Mo-substituted lanthanum tungstate La _{5.4} W _{1â^'<i>y</i>} Mo <i> _y </i> O _{12â^'Î} (0 ≤i>y ≤0.2) studied by X-ray and neutron diffraction. Journal of Applied Crystallography, 2019, 52, 1043-1053.	4.5	3
28	Using X-ray tomoscopy to explore the dynamics of foaming metal. Nature Communications, 2019, 10, 3762.	12.8	94
29	Influence of A-site deficiency on structural evolution of Pr2-xNiO4+ \hat{I}' with temperature. Solid State lonics, 2019, 342, 115056.	2.7	15
30	Visualization and quantification of inhomogeneous and anisotropic magnetic fields by polarized neutron grating interferometry. Nature Communications, 2019, 10, 3788.	12.8	13
31	Neutron Radiography and Tomography. , 2019, , 1-85.		0
32	Non-destructive characterization of lithium deposition at the Li/separator and Li/carbon matrix interregion by synchrotron X-ray tomography. Nano Energy, 2019, 62, 11-19.	16.0	26
33	Effect of Sn and In on the natural ageing kinetics of Al–Mg–Si alloys. Materialia, 2019, 6, 100261.	2.7	17
34	Inâ€situ and Operando Tracking of Microstructure and Volume Evolution of Silicon Electrodes by using Synchrotron Xâ€ r ay Imaging. ChemSusChem, 2019, 12, 261-269.	6.8	20
35	Neutron Radiography and Tomography. , 2019, , 1217-1299.		2
36	Advances in neutron imaging. Materials Today, 2018, 21, 652-672.	14.2	138

#	Article	IF	CITATIONS
37	Simultaneous X-ray radioscopy/tomography and energy-dispersive diffraction applied to liquid aluminium alloy foams. Journal of Synchrotron Radiation, 2018, 25, 1790-1796.	2.4	10
38	Preface on International Conference on Solidification Science and Processing. Transactions of the Indian Institute of Metals, 2018, 71, 2615-2615.	1.5	0
39	An X-ray Tomographic Study of Rechargeable Zn/MnO2 Batteries. Materials, 2018, 11, 1486.	2.9	8
40	4.14 Production of Metal Foams. , 2018, , 347-363.		15
41	Reversion of natural ageing in Al-Mg-Si alloys. Acta Materialia, 2018, 159, 163-172.	7.9	43
42	In-operando stress measurement and neutron imaging of metal hydride composites for solid-state hydrogen storage. Journal of Power Sources, 2018, 397, 262-270.	7.8	19
43	Imaging with Polarized Neutrons. Journal of Imaging, 2018, 4, 23.	3.0	7
44	Time-resolved <i>in situ</i> tomography for the analysis of evolving metal-foam granulates. Journal of Synchrotron Radiation, 2018, 25, 1505-1508.	2.4	20
45	Investigation of electronic and local structural changes during lithium uptake and release of nano-crystalline NiFe2O4 by X-ray absorption spectroscopy. Journal of Power Sources, 2017, 342, 56-63.	7.8	29
46	Complementary X-ray and neutron radiography study of the initial lithiation process in lithium-ion batteries containing silicon electrodes. Applied Surface Science, 2017, 399, 359-366.	6.1	40
47	Improved Performance of Polymer Electrolyte Membrane Fuel Cells with Modified Microporous Layer Structures. Energy Technology, 2017, 5, 1612-1618.	3.8	25
48	Formation of intermetallic δphase in Al-10Si-0.3Fe alloy investigated by in-situ 4D X-ray synchrotron tomography. Acta Materialia, 2017, 129, 194-202.	7.9	53
49	Stability of various particle-stabilised aluminium alloys foams made by gas injection. Journal of Materials Science, 2017, 52, 6401-6414.	3.7	19
50	Relation between composition and vacant oxygen sites in the mixed ionic-electronic conductors La5.4W1â^'MO12â^' (M= Mo, Re; 0 â‰9⁄≤0.2) and their mother compound La6â^'WO12â^' (0.4 ≤≤0.8 Ionics, 2017, 306, 104-111.	3). Szalitd St	ate13
51	<i>In Operando</i> Quantification of Three-Dimensional Water Distribution in Nanoporous Carbon-Based Layers in Polymer Electrolyte Membrane Fuel Cells. ACS Nano, 2017, 11, 5944-5949.	14.6	50
52	Manufacturing and Characterization of Highly Porous Bioactive Glass Composite Scaffolds Using Unidirectional Freeze Casting. Advanced Engineering Materials, 2017, 19, 1700129.	3.5	10
53	In situ X-ray tomography of aqueous foams: Analysis of columnar foam generation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 534, 78-84.	4.7	9
54	Microporosity in aluminium foams. Acta Materialia, 2017, 131, 156-168.	7.9	72

#	Article	IF	CITATIONS
55	Study of the Mechanisms of Internal Short Circuit in a Li/Li Cell by Synchrotron X-ray Phase Contrast Tomography. ACS Energy Letters, 2017, 2, 94-104.	17.4	89
56	Setup for polarized neutron imaging using <i>in situ</i> â€^3He cells at the Oak Ridge National Laboratory High Flux Isotope Reactor CG-1D beamline. Review of Scientific Instruments, 2017, 88, 095103.	1.3	12
57	Neutron radiographic in operando investigation of water transport in polymer electrolyte membrane fuel cells with channel barriers. Energy Conversion and Management, 2017, 148, 604-610.	9.2	52
58	Effect of Magnesium Addition on the Cell Structure of Foams Produced From Re-melted Aluminum Alloy Scrap. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2551-2563.	2.1	4
59	Local structural changes of nano-crystalline ZnFe2O4 during lithiation and de-lithiation studied by X-ray absorption spectroscopy. Electrochimica Acta, 2017, 246, 699-706.	5.2	19
60	Elastic and failure response of imperfect three-dimensional metallic lattices: the role of geometric defects induced by Selective Laser Melting. Journal of the Mechanics and Physics of Solids, 2017, 107, 160-184.	4.8	352
61	Fast Synchrotron Xâ€Ray Tomography of Dynamic Processes in Liquid Aluminium Alloy Foam. Advanced Engineering Materials, 2017, 19, 1600550.	3.5	19
62	Coalescence Avalanches in Liquid Aluminum Foams. Metals, 2017, 7, 298.	2.3	5
63	Influence of the Heating Rate on the Foaming Behavior of Various Aluminium Alloys. Metals, 2017, 7, 323.	2.3	8
64	Nanoscale order in the frustrated mixed conductor La _{5.6} WO _{12â~î´} . Journal of Applied Crystallography, 2016, 49, 997-1008.	4.5	15
65	Synchrotron Xâ€ray Tomographic Study of a Silicon Electrode Before and After Discharge and the Effect of Cavities on Particle Fracturing. ChemElectroChem, 2016, 3, 1170-1177.	3.4	20
66	Carbides in Co–Re–Cr-based high-temperature alloys. Journal of Materials Science, 2016, 51, 7145-7155.	3.7	9
67	Positron lifetime study of the formation of vacancy clusters and dislocations in quenched Al, Al–Mg and Al–Si alloys. Journal of Materials Science, 2016, 51, 7754-7767.	3.7	24
68	Investigation of failure mechanisms in silicon based half cells during the first cycle by micro X-ray tomography and radiography. Journal of Power Sources, 2016, 321, 174-184.	7.8	38
69	Investigation of a porous NiSi 2 /Si composite anode material used for lithium-ion batteries by X-ray absorption spectroscopy. Journal of Power Sources, 2016, 324, 830-835.	7.8	16
70	Morphological Evolution of Electrochemically Plated/Stripped Lithium Microstructures Investigated by Synchrotron X-ray Phase Contrast Tomography. ACS Nano, 2016, 10, 7990-7997.	14.6	108
71	Fabrication of cellular and lamellar LiFePO ₄ /C Cathodes for Li-ion batteries by unidirectional freeze-casting method. Journal of the Ceramic Society of Japan, 2016, 124, 1067-1071.	1.1	15
72	Inâ€Situ Radiographic Investigation of (De)Lithiation Mechanisms in a Tinâ€Electrode Lithiumâ€Ion Battery. ChemSusChem, 2016, 9, 946-950.	6.8	27

#	Article	IF	CITATIONS
73	CONRAD-2: the new neutron imaging instrument at the Helmholtz-Zentrum Berlin. Journal of Applied Crystallography, 2016, 49, 195-202.	4.5	78
74	Intermetallic phases in high purity Al-10Si-0.3Fe cast alloys with and without Sr modification studied by FIB tomography and TEM. Intermetallics, 2016, 72, 53-61.	3.9	29
75	Effect of Cu and Ge on solute clustering in Al–Mg–Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 238-245.	5.6	33
76	Structural Changes in a Li-Rich 0.5Li ₂ MnO ₃ [*] 0.5LiMn _{0.4} Ni _{0.4} Co _{0.2Material for Li-Ion Batteries: A Local Perspective. Journal of the Electrochemical Society, 2016, 163, A811-A820.})>O _{ 2.9}	2،2 <i>sub</i> >Cat 1
77	Investigation of water transport dynamics in polymer electrolyte membrane fuel cells based on high porous micro porous layers. Energy, 2016, 102, 161-165.	8.8	51
78	Three-Dimensional Visualization of Gas Evolution and Channel Formation inside a Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 7156-7164.	8.0	39
79	Effect of ageing of gas diffusion layers on the water distribution in flow field channels of polymer electrolyte membrane fuel cells. Journal of Power Sources, 2016, 301, 386-391.	7.8	39
80	Crystal structure of Re-substituted lanthanum tungstate La _{5.4} W _{1â^'<i>y</i>} Re _{<i>y</i>} O _{12–Î′} (0 ≤i>y≤0.2 studied by neutron diffraction. Journal of Applied Crystallography, 2016, 49, 1544-1560.	2)4.5	11
81	Age Hardening of Aluminum Alloys. , 2016, , 214-239.		9
82	Imaging with Cold Neutrons at the CONRAD-2 Facility. Physics Procedia, 2015, 69, 60-66.	1.2	10
83	Neutron Bragg Edge Tomography for Phase Mapping. Physics Procedia, 2015, 69, 227-236.	1.2	33
84	The stabilising effect of oxides in foamed aluminium alloy scrap. International Journal of Materials Research, 2015, 106, 978-987.	0.3	8
85	In-Operando Neutron Radiography Studies of Polymer Electrolyte Membrane Water Electrolyzers. ECS Transactions, 2015, 69, 1135-1140.	0.5	28
86	Three-Dimensional Imaging of Magnetic Domains with Neutron Grating Interferometry. Physics Procedia, 2015, 69, 404-412.	1.2	3
87	Fuel Cell Research with Neutron Imaging at Helmholtz Centre Berlin. Physics Procedia, 2015, 69, 619-627.	1.2	9
88	Degradation of Li/S Battery Electrodes On 3D Current Collectors Studied Using X-ray Phase Contrast Tomography. Scientific Reports, 2015, 5, 10921.	3.3	68
89	Sub-mm sized bubbles injected into metallic melts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 60-67.	4.7	16
90	Influence of local carbon fibre orientation on the water transport in the gas diffusion layer of polymer electrolyte membrane fuel cells. Electrochemistry Communications, 2015, 51, 133-136.	4.7	26

#	Article	IF	CITATIONS
91	Pressure-Induced Foaming of Metals. Jom, 2015, 67, 955-965.	1.9	13
92	<i>In situ</i> characterization of β′′ precipitation in an Al–Mg–Si alloy by anisotropic small-angle neutron scattering on a single crystal. Journal of Applied Crystallography, 2015, 48, 455-463.	4.5	12
93	Evolution of nanoscale clusters in γ′ precipitates of a Ni–Al–Ti model alloy. Ultramicroscopy, 2015, 159, 278-284.	1.9	17
94	Local constriction around minor elements in Al 86 Ni 7 X 1 Y 6 metallic glass (X: Ag, Au, Pt). Journal of Non-Crystalline Solids, 2015, 422, 26-31.	3.1	4
95	A dedicated compression device for high resolution X-ray tomography of compressed gas diffusion layers. Review of Scientific Instruments, 2015, 86, 043702.	1.3	15
96	In operando synchrotron X-ray radiography studies of polymer electrolyte membrane water electrolyzers. Electrochemistry Communications, 2015, 55, 55-59.	4.7	60
97	An experimental study of columnar crystals using monodisperse microbubbles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 55-59.	4.7	17
98	Slow crystallisation of a monodisperse foam stabilised against coarsening. Soft Matter, 2015, 11, 4710-4716.	2.7	15
99	Early stages of solute clustering in an Al–Mg–Si alloy. Acta Materialia, 2015, 91, 355-364.	7.9	80
100	Neutron guide optimisation for a time-of-flight neutron imaging instrument at the European Spallation Source. Optics Express, 2015, 23, 301.	3.4	9
101	Stabilisation of aluminium foams and films by the joint action of dispersed particles and oxide films. Acta Materialia, 2015, 99, 313-324.	7.9	44
102	Investigations of the structural stability of metal hydride composites by in-situ neutron imaging. Journal of Power Sources, 2015, 293, 109-118.	7.8	20
103	Monitoring the hydrogen distribution in poly(2,5-benzimidazole)-based (ABPBI) membranes in operating high-temperature polymer electrolyte fuel cells by using H-D contrast neutron imaging. Journal of Power Sources, 2015, 299, 125-129.	7.8	21
104	In operando visualization of hydride-graphite composites during cyclic hydrogenation by high-resolution neutron imaging. Journal of Power Sources, 2015, 277, 360-369.	7.8	17
105	Change in atomic coordination in a heavily deformed metallic glass. Journal of Applied Physics, 2014, 115, .	2.5	7
106	Neutron radiography and current distribution measurements for studying cathode flow field properties of direct methanol fuel cells. International Journal of Energy Research, 2014, 38, 926-943.	4.5	11
107	3D Mapping of Crystallographic Phase Distribution using Energyâ€ S elective Neutron Tomography. Advanced Materials, 2014, 26, 4069-4073.	21.0	98
108	Structural Changes in Li ₂ MnO ₃ Cathode Material for Liâ€lon Batteries. Advanced Energy Materials, 2014, 4, 1300998.	19.5	194

#	Article	IF	CITATIONS
109	Local structural changes in LiMn1.5Ni0.5O4 spinel cathode material for lithium-ion batteries. Journal of Power Sources, 2014, 255, 439-449.	7.8	49
110	The rupture of a single liquid aluminium alloy film. Soft Matter, 2014, 10, 4711.	2.7	8
111	On the structural integrity and electrochemical activity of a 0.5Li2MnO3·0.5LiCoO2 cathode material for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 9099.	10.3	49
112	Analysis of liquid metal foams through X-ray radioscopy and microgravity experiments. Soft Matter, 2014, 10, 6955-6962.	2.7	21
113	Heat Treatment of Aluminium Foam Precursors: Effects on Foam Expansion and Final Cellular Structure. , 2014, 4, 287-292.		14
114	Role of Ambient Oxygen in the Stabilisation of Single Aluminium Alloy Films. , 2014, 4, 263-268.		8
115	Radiography and tomography with polarized neutrons. Journal of Magnetism and Magnetic Materials, 2014, 350, 188-198.	2.3	29
116	On the evolution of long-range order from short-range order in a Ni2(Cr0.5Mo0.5) alloy. Journal of Alloys and Compounds, 2014, 586, 561-566.	5.5	13
117	Three-dimensional study of compressed gas diffusion layers using synchrotron X-ray imaging. Journal of Power Sources, 2014, 253, 123-131.	7.8	102
118	Synchrotron X-ray radioscopic in situ study of high-temperature polymer electrolyte fuel cells - Effect of operation conditions on structure of membrane. Journal of Power Sources, 2014, 246, 290-298.	7.8	49
119	Röntgentomografische Untersuchung eines kommerziellen Lithium-Ionen-Kondensators*. Materialpruefung/Materials Testing, 2014, 56, 722-727.	2.2	0
120	Lightâ€Metal Foams—History of Innovation and Technological Challenges. Advanced Engineering Materials, 2013, 15, 82-111.	3.5	274
121	Reduced-Pressure Foaming of Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 419-426.	2.2	20
122	In-plane neutron radiography for studying the influence of surface treatment and design of cathode flow fields in direct methanol fuel cells. International Journal of Hydrogen Energy, 2013, 38, 2443-2454.	7.1	16
123	Mapping the evolution of hierarchical microstructures in a Ni-based superalloy. Nature Communications, 2013, 4, 2955.	12.8	56
124	Drainage of particle-stabilised aluminium composites through single films and Plateau borders. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 438, 85-92.	4.7	22
125	Distribution of Fe-rich phases in eutectic grains of Sr-modified Al–10wt.% Si–0.1wt.% Fe casting alloy. Journal of Alloys and Compounds, 2013, 558, 18-25.	5.5	36
126	Characterization of borides in Co–Re–Cr-based high-temperature alloys. Journal of Alloys and Compounds, 2013, 569, 82-87.	5.5	9

#	Article	IF	CITATIONS
127	Statistical analysis of composition fluctuations and short-range order in stoichiometric Ni–Cr–Mo alloys. Ultramicroscopy, 2013, 132, 227-232.	1.9	11
128	Sr–Al–Si co-segregated regions in eutectic Si phase of Sr-modified Al–10Si alloy. Ultramicroscopy, 2013, 132, 216-221.	1.9	36
129	Influence of cracks in the microporous layer on the water distribution in a PEM fuel cell investigated by synchrotron radiography. Electrochemistry Communications, 2013, 34, 22-24.	4.7	98
130	Foaming of AA 6061 using multiple pieces of foamable precursor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 438, 47-55.	4.7	34
131	Water Evolution in Direct Methanol Fuel Cell Cathodes Studied by Synchrotron Xâ€Ray Radiography. Fuel Cells, 2013, 13, 371-379.	2.4	6
132	Atomic-scale compositional characterization of a nanocrystalline AlCrCuFeNiZn high-entropy alloy using atom probe tomography. Acta Materialia, 2013, 61, 4696-4706.	7.9	138
133	Particle and liquid motion in semi-solid aluminium alloys: A quantitative in situ microradioscopy study. Acta Materialia, 2013, 61, 1244-1253.	7.9	28
134	Foaming of Aluminum Alloys Derived From Scrap. Advanced Engineering Materials, 2013, 15, 129-133.	3.5	12
135	Metal Foaming Studied In Situ by Energy Dispersive Xâ€Ray Diffraction of Synchrotron Radiation, Xâ€Ray Radioscopy, and Optical Expandometry. Advanced Engineering Materials, 2013, 15, 141-148.	3.5	13
136	Investigation of the local catalyst distribution in an aged direct methanol fuel cell MEA by means of differential synchrotron X-ray absorption edge imaging with high energy resolution. Journal of Power Sources, 2013, 221, 210-216.	7.8	40
137	Hierarchical radioscopy using polychromatic and partially coherent hard synchrotron radiation. Applied Optics, 2013, 52, 8122.	1.8	9
138	Electrolyte Distribution and Discharge Time - A Combined Study of X-ray Tomography and Electrical Measurements of a Commercially Available Lithium-Ion Capacitor. ECS Transactions, 2013, 53, 211-218.	0.5	3
139	Investigation of Fuel Cell Materials and Liquid Water Transport by Means of Synchrotron Imaging. ECS Transactions, 2013, 45, 195-202.	0.5	Ο
140	Suitability of various complex hydrides for foaming aluminum alloys. Journal of Materials Research, 2013, 28, 2436-2443.	2.6	11
141	Influence of Artificial Ageing of Gas Diffusion Layers on the Water Management of PEM Fuel Cells. ECS Transactions, 2013, 53, 21-28.	0.5	4
142	White-beam X-ray radioscopy and tomography with simultaneous diffraction at the EDDI beamline. Journal of Synchrotron Radiation, 2013, 20, 809-810.	2.4	16
143	Influence of Artificial Aging of Gas Diffusion Layers on the Water Management of PEM Fuel Cells. ECS Electrochemistry Letters, 2013, 3, F7-F9.	1.9	15
144	Influence of Artificial Aging of Gas Diffusion Layers on the Water Management of PEM Fuel Cells. ECS Meeting Abstracts, 2013, , .	0.0	0

#	Article	IF	CITATIONS
145	Tomografische Methoden für die Brennstoffzellenforschungâ^—. Materialpruefung/Materials Testing, 2013, 55, 207-213.	2.2	2
146	Synchrotron-Radiographie und -Tomographie einer PEM-Brennstoffzelle. Materialpruefung/Materials Testing, 2013, 55, 355-360.	2.2	2
147	Polarized neutron imaging and three-dimensional calculation of magnetic flux trapping in bulk of superconductors. Physical Review B, 2012, 85, .	3.2	37
148	The kinetics of clustering in Al–Mg–Si alloys studied by Monte Carlo simulation. International Journal of Materials Research, 2012, 103, 980-986.	0.3	18
149	Influence of Mg/Si ratio on the clustering kinetics in Al–Mg–Si alloys. International Journal of Materials Research, 2012, 103, 955-961.	0.3	14
150	Automated quantitative 3D analysis of faceting of particles in tomographic datasets. Ultramicroscopy, 2012, 122, 65-75.	1.9	14
151	Combined synchrotron X-ray radiography and tomography study of water transport in gas diffusion layers. Micro and Nano Letters, 2012, 7, 689.	1.3	13
152	Early stages of decomposition within the γ′ phase of a Ni–Al–Ti model alloy. Intermetallics, 2012, 22, 226-230.	3.9	17
153	Neutron tomographic investigations of water distributions in polymer electrolyte membrane fuel cell stacks. Journal of Power Sources, 2012, 219, 120-125.	7.8	63
154	Plastic deformation of Al85Ni10La5 by equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 64-69.	5.6	3
155	Three-Dimensional Studies on Compressed Gas Diffusion Layers and the Water Distribution in Operating Fuel Cells Using Synchrotron X-ray Imaging. ECS Meeting Abstracts, 2012, , .	0.0	0
156	Metal Foaming Investigated by X-ray Radioscopy. Metals, 2012, 2, 10-21.	2.3	39
157	Analysis of particle rolling and intrinsic rotations in copper powder during sintering. Journal of Materials Science, 2012, 47, 7047-7055.	3.7	16
158	Detection system for microimaging with neutrons. Journal of Instrumentation, 2012, 7, P02014-P02014.	1.2	97
159	Recent Trends in Aluminum Foam Sandwich Technology. Advanced Engineering Materials, 2012, 14, 1082-1087.	3.5	100
160	Structure and deformation correlation of closed-cell aluminium foam subject to uniaxial compression. Acta Materialia, 2012, 60, 3604-3615.	7.9	78
161	The role of strontium in modifying aluminium–silicon alloys. Acta Materialia, 2012, 60, 3920-3928.	7.9	292
162	Visualization of the water distribution in perforated gas diffusion layers by means of synchrotron X-ray radiography. International Journal of Hydrogen Energy, 2012, 37, 7757-7761.	7.1	82

#	Article	IF	CITATIONS
163	Local structure and site substitution in Al86Ni6Co2Y4.5La1.5 bulk amorphous alloy. Materials Letters, 2012, 70, 171-173.	2.6	12
164	Partial decomposition of TiH2 studied in situ by energy-dispersive diffraction and ex situ by diffraction microtomography of hard X-ray synchrotron radiation. Scripta Materialia, 2012, 66, 757-760.	5.2	21
165	Investigation of fuel cells using scanning neutron imaging and a focusing neutron guide. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 663, 48-54.	1.6	12
166	Study of ageing in Al–Mg–Si alloys by positron annihilation spectroscopy. Physica B: Condensed Matter, 2012, 407, 2689-2696.	2.7	27
167	The Effect of Cu and Cr on Clustering and Precipitation in Al-Mg-Si Alloys. , 2012, , 1125-1130.		2
168	Neutron Bragg-edge mapping of weld seams. International Journal of Materials Research, 2012, 103, 151-154.	0.3	29
169	Investigations on the Precipitation in Monocrystalline Al-Mg-Si Model Alloy by Small Angle Neutron Scattering. , 2012, , 1083-1088.		0
170	Muon Spin Relaxation and Positron Annihilation Spectroscopy Studies of Natural Aging in Al-Mg-Si Alloys. , 2012, , 37-42.		1
171	ECAA 2011. International Journal of Materials Research, 2012, 103, 941-941.	0.3	Ο
172	Analysis of the internal structure of monodisperse liquid foams by X-ray tomography. Soft Matter, 2011, 7, 9881.	2.7	40
173	Particle-stabilised foams: structure and aging. Soft Matter, 2011, 7, 631-637.	2.7	57
174	Kinetics of natural aging in Al-Mg-Si alloys studied by positron annihilation lifetime spectroscopy. Physical Review B, 2011, 83, .	3.2	144
175	Kinetics of coalescence in liquid aluminium foams. Soft Matter, 2011, 7, 9216.	2.7	34
176	Quantitative Structural Assessment of Heterogeneous Catalysts by Electron Tomography. Journal of the American Chemical Society, 2011, 133, 18161-18171.	13.7	50
177	Cooperative material transport during the early stage of sintering. Nature Communications, 2011, 2, 298.	12.8	40
178	Devitrification of glassy Al85Ni10La5 powder by thermal treatment and ball-milling. Journal of Alloys and Compounds, 2011, 509, S78-S81.	5.5	6
179	Phase continuity in high temperature Mo–Si–B alloys: A FIB-Tomography Study. Intermetallics, 2011, 19, 470-475.	3.9	20
180	Neutron Bragg-edge-imaging for strain mapping under <i>in situ</i> tensile loading. Journal of Applied Physics, 2011, 109, .	2.5	73

#	Article	IF	CITATIONS
181	Neutron tomography instrument CONRAD at HZB. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 47-52.	1.6	74
182	Polarized neutron imaging using helium-3 cells and a polychromatic beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 140-144.	1.6	9
183	A highly adaptive detector system for high resolution neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 95-99.	1.6	68
184	Investigation of the three-dimensional ruthenium distribution in fresh and aged membrane electrode assemblies with synchrotron X-ray absorption edge tomography. Electrochemistry Communications, 2011, 13, 826-829.	4.7	15
185	Investigation of 3D water transport paths in gas diffusion layers by combined in-situ synchrotron X-ray radiography and tomography. Electrochemistry Communications, 2011, 13, 1001-1004.	4.7	95
186	Decomposition of TiH2 studied in situ by synchrotron X-ray and neutron diffraction. Acta Materialia, 2011, 59, 6318-6330.	7.9	85
187	A study of Mg and Cu additions on the foaming behaviour of Al–Si alloys. Journal of Materials Science, 2011, 46, 5227-5236.	3.7	53
188	Influence of oxides on the stability of zinc foam. Journal of Materials Science, 2011, 46, 7806-7814.	3.7	20
189	Decomposition in multi-component AlCoCrCuFeNi high-entropy alloy. Acta Materialia, 2011, 59, 182-190.	7.9	656
190	Low-Temperature Differential Scanning Calorimetry of an Al-Mg-Si Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1960-1964.	2.2	85
191	Foamability of MgAl2O4 (Spinel)-Reinforced Aluminum Alloy Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2898-2908.	2.2	39
192	Neutron imaging in materials science. Materials Today, 2011, 14, 248-256.	14.2	196
193	Investigation of Energyâ€Relevant Materials with Synchrotron Xâ€Rays and Neutrons. Advanced Engineering Materials, 2011, 13, 712-729.	3.5	63
194	Synchrotron X-ray tomography for investigations of water distribution in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2011, 196, 5250-5255.	7.8	131
195	Large area high resolution neutron imaging detector for fuel cell research. Journal of Power Sources, 2011, 196, 4631-4637.	7.8	69
196	Analysis of clustering in Al–Mg–Si alloy by density spectrum analysis of atom probe data. Ultramicroscopy, 2011, 111, 701-705.	1.9	23
197	Effect of decomposition of the Cr–Fe–Co rich phase of AlCoCrCuFeNi high entropy alloy on magnetic properties. Ultramicroscopy, 2011, 111, 619-622.	1.9	131
198	Modification of Mo–Si alloy microstructure by small additions of Zr. Ultramicroscopy, 2011, 111, 706-710.	1.9	21

#	Article	IF	CITATIONS
199	Microstructural investigation of Sr-modified Al–15 wt%Si alloys in the range from micrometer to atomic scale. Ultramicroscopy, 2011, 111, 695-700.	1.9	41
200	Investigation of Carbon Fiber Gas Diffusion Layers by Means of Synchrotron X-ray Tomography. ECS Transactions, 2011, 41, 379-386.	0.5	4
201	<i>In situ</i> Synchrotron Xâ€ray Radiography Investigations of Water Transport in PEMÂFuel Cells. Fuel Cells, 2010, 10, 26-34.	2.4	20
202	Metal foams $\hat{a} \in \hat{a}$ towards microcellular materials. International Journal of Materials Research, 2010, 101, 1134-1139.	0.3	19
203	X-ray and neutron imaging – Complementary techniques for materials science and engineering. International Journal of Materials Research, 2010, 101, 1069-1079.	0.3	85
204	Solidification of metal foams. Acta Materialia, 2010, 58, 6358-6370.	7.9	36
205	Nanocomposites and an extremely hard nanocrystalline intermetallic of Al–Fe alloys prepared by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2370-2378.	5.6	106
206	Collapse of Aluminum Foam in Two Different Atmospheres. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 500-504.	2.1	21
207	Defect generation during solidification of aluminium foams. Scripta Materialia, 2010, 63, 235-238.	5.2	51
208	Al and Zn Foams Blown by an Intrinsic Gas Source. Advanced Engineering Materials, 2010, 12, 472-477.	3.5	27
209	Natural Aging in Alâ€Mg‣i Alloys – A Process of Unexpected Complexity. Advanced Engineering Materials, 2010, 12, 559-571.	3.5	189
210	The influence of gas diffusion layer wettability on direct methanol fuel cell performance: A combined local current distribution and high resolution neutron radiography study. Journal of Power Sources, 2010, 195, 4765-4771.	7.8	61
211	The effect of cooling rate on the structure and properties of closed-cell aluminium foams. Acta Materialia, 2010, 58, 5031-5042.	7.9	76
212	Three-dimensional visualization of the microstructure development of Sr-modified Al–15Si casting alloy using FIB-EsB tomography. Acta Materialia, 2010, 58, 6600-6608.	7.9	45
213	In-situ synchrotron X-ray radiography on high temperature polymer electrolyte fuel cells. Electrochemistry Communications, 2010, 12, 1436-1438.	4.7	74
214	Direct observation of particle flow in semiâ€solid alloys by synchrotron Xâ€ray microâ€radioscopy. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 718-723.	1.8	19
215	On the possibilities of hard X-ray imaging with high spatio-temporal resolution using polychromatic synchrotron radiation. Journal of X-Ray Science and Technology, 2010, 18, 429-441.	1.0	53
216	Investigation of Sintering Processes by Tomography. Materials Science Forum, 2010, 638-642, 2511-2516.	0.3	5

#	Article	IF	CITATIONS
217	Neutron tomography using an elliptic focusing guide. Journal of Applied Physics, 2010, 108, 034905.	2.5	16
218	Revealing microstructural inhomogeneities with dark-field neutron imaging. Journal of Applied Physics, 2010, 107, 036101.	2.5	42
219	In Situ Microtomographic Monitoring of Discharging Processes in Alkaline Cells. Journal of the Electrochemical Society, 2010, 157, A387.	2.9	42
220	Deformation-induced crystallization in amorphous Al85Ni10La5 alloy. Journal of Alloys and Compounds, 2010, 493, 683-691.	5.5	19
221	Three-dimensional imaging of magnetic domains. Nature Communications, 2010, 1, 125.	12.8	143
222	Charakterisierung von Katalysatormaterialien für Brennstoffzellen mittels Elektronentomografie. Materialpruefung/Materials Testing, 2010, 52, 706-711.	2.2	6
223	Untersuchung des Einflusses von GDL-Eigenschaften auf den Wasserhaushalt mittels Neutronenradiografie. Materialpruefung/Materials Testing, 2010, 52, 718-724.	2.2	1
224	Röntgen-Kanten-Tomografie und -Radiografie zur Untersuchung von Alterungseffekten in Brennstoffzellenmaterialien. Materialpruefung/Materials Testing, 2010, 52, 692-697.	2.2	2
225	Dreidimensionale Untersuchung der Wasserverteilung in einer Miniatur-PEM-Brennstoffzelle. Materialpruefung/Materials Testing, 2010, 52, 712-717.	2.2	2
226	HochortsauflĶsendes, groÄŸflÄ⊠higes Neutronen-Detektorsystem fĹ⁄4r die Brennstoffzellenforschung. Materialpruefung/Materials Testing, 2010, 52, 684-691.	2.2	0
227	Hochauflösende Synchrotron- Radiografie. Materialpruefung/Materials Testing, 2010, 52, 698-704.	2.2	1
228	Neutron-Imaging Instrument CONRAD. Neutron News, 2009, 20, 20-23.	0.2	7
229	Improvement of aluminium foaming by powder consolidation under vacuum. Scripta Materialia, 2009, 61, 552-555.	5.2	24
230	Strain hardening during constrained deformation of metal foams – Effect of shear displacement. Scripta Materialia, 2009, 61, 752-755.	5.2	27
231	Electrochemical response of amorphous and devitrified Alâ€Ni‣aâ€X (X = Ag, Cu) alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 431-437.	1.5	5
232	Polarized neutron imaging at the CONRAD instrument at Helmholtz Centre Berlin. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 26-29.	1.6	13
233	Thermographic Monitoring of Aluminium Foaming Process. Journal of Nondestructive Evaluation, 2009, 28, 141-148.	2.4	9
234	Influence of Compaction Conditions on the Foamability of AlSi8Mg4 Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2009, 40, 755-767.	2.1	20

#	Article	IF	CITATIONS
235	X-ray radioscopy of liquid metal foams under microgravity. Transactions of the Indian Institute of Metals, 2009, 62, 451-454.	1.5	10
236	Synchrotron-based radioscopy employing spatio-temporal micro-resolution for studying fast phenomena in liquid metal foams. Journal of Synchrotron Radiation, 2009, 16, 432-434.	2.4	51
237	A 1800â€K furnace designed for <i>in situ</i> synchrotron microtomography. Journal of Synchrotron Radiation, 2009, 16, 524-527.	2.4	8
238	New trends in neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 13-15.	1.6	65
239	Investigation of soot sediments in particulate filters and engine components. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 622-626.	1.6	13
240	The influence of Cu addition on precipitation in Fe–Cr–Ni–Al–(Cu) model alloys. Ultramicroscopy, 2009, 109, 574-579.	1.9	19
241	Positive effect of natural pre-ageing on precipitation hardening in Al–0.44 at% Mg–0.38 at% Si alloy. Ultramicroscopy, 2009, 109, 585-592.	1.9	87
242	High-resolution in-plane investigation of the water evolution and transport in PEM fuel cells. Journal of Power Sources, 2009, 188, 468-474.	7.8	162
243	Imaging of metallic foams using X-ray micro-CT. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 344, 107-112.	4.7	63
244	Experiments on metallic foams under gravity and microgravity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 344, 101-106.	4.7	16
245	High resolution synchrotron X-ray investigation of carbon dioxide evolution in operating direct methanol fuel cells. Electrochemistry Communications, 2009, 11, 1559-1562.	4.7	53
246	Combined local current distribution measurements and high resolution neutron radiography of operating Direct Methanol Fuel Cells. Electrochemistry Communications, 2009, 11, 1606-1609.	4.7	61
247	Early pore formation in aluminium foams studied by synchrotron-based microtomography and 3-D image analysis. Acta Materialia, 2009, 57, 4809-4821.	7.9	62
248	Advances in neutron radiography and tomography. Journal Physics D: Applied Physics, 2009, 42, 243001.	2.8	243
249	Imaging with polarized neutrons. New Journal of Physics, 2009, 11, 043013.	2.9	52
250	The synchrotron-based imaging station for micro-radiography and-tomography at the BAMline (BESSY). Journal of Physics: Conference Series, 2009, 186, 012047.	0.4	4
251	Wasserverteilung in PEM-Brennstoffzellen. Materialpruefung/Materials Testing, 2009, 51, 219-226.	2.2	13
252	Influence of particle additions on the foaming behaviour of AlSi11/TiH2 composites made by semi-solid processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 283-288.	5.6	37

#	Article	IF	CITATIONS
253	Gold and Gold Alloy foams. Gold Bulletin, 2008, 41, 251-256.	2.7	10
254	Einblicke in Magnetfelder. Physik in Unserer Zeit, 2008, 39, 166-167.	0.0	0
255	Aluminium Foam Sandwich Panels: Manufacture, Metallurgy and Applications. Advanced Engineering Materials, 2008, 10, 793-802.	3.5	253
256	Porous Metals and Metallic Foams: Current Status and Recent Developments. Advanced Engineering Materials, 2008, 10, 775-787.	3.5	676
257	Combined neutron radiography and locally resolved current density measurements of operating PEM fuel cells. Journal of Power Sources, 2008, 176, 452-459.	7.8	103
258	Fatigue of a laterally constrained closed cell aluminum foam. Acta Materialia, 2008, 56, 1114-1125.	7.9	55
259	Effect of rhenium addition on the microstructure of the superalloy Inconel 706. Acta Materialia, 2008, 56, 1609-1618.	7.9	36
260	Structure and distribution of oxides in aluminium foam. Acta Materialia, 2008, 56, 3990-4001.	7.9	45
261	Bulk nanocrystalline Al85Ni10La5 alloy fabricated by spark plasma sintering of atomized amorphous powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 343-350.	5.6	46
262	The high-resolution synchrotron-based imaging stations at the BAM line (BESSY) and TopoTomo (ANKA). , 2008, , .		7
263	Three-dimensional imaging of magnetic fields with polarized neutrons. Nature Physics, 2008, 4, 399-403.	16.7	186
264	Analysis of spatial crossâ€correlations in multiâ€constituent volume data. Journal of Microscopy, 2008, 232, 282-292.	1.8	16
265	Synchrotron-based radioscopy with spatio-temporal micro-resolution using hard X-rays. , 2008, , .		2
266	Characterization of water exchange and two-phase flow in porous gas diffusion materials by hydrogen-deuterium contrast neutron radiography. Applied Physics Letters, 2008, 92, .	3.3	71
267	Cross-sectional insight in the water evolution and transport in polymer electrolyte fuel cells. Applied Physics Letters, 2008, 92, .	3.3	160
268	Segregation-controlled nanocrystallization in an Al–Ni–La metallic glass. Applied Physics Letters, 2008, 92, .	3.3	33
269	Fast processes in liquid metal foams investigated by high-speed synchrotron x-ray microradioscopy. Applied Physics Letters, 2008, 92, .	3.3	53
270	Investigation of the skin effect in the bulk of electrical conductors with spin-polarized neutron radiography. Journal of Applied Physics, 2008, 104, .	2.5	33

#	Article	IF	CITATIONS
271	Foams and emulsions in space. Europhysics News, 2008, 39, 26-28.	0.3	4
272	RADIATION SOURCES AND INTERACTION OF RADIATION WITH MATTER. , 2008, , 107-138.		2
273	Visualisierung dreidimensionaler magnetischer Feldverteilungen mit spin-polarisierten Neutronen. Materialpruefung/Materials Testing, 2008, 50, 572-579.	2.2	1
274	Bragg-edge Imaging with Neutrons. Materialpruefung/Materials Testing, 2008, 50, 569-571.	2.2	7
275	In situ investigation of the discharge of alkaline Zn–MnO2 batteries with synchrotron x-ray and neutron tomographies. Applied Physics Letters, 2007, 90, 214102.	3.3	84
276	Investigation of water evolution and transport in fuel cells with high resolution synchrotron x-ray radiography. Applied Physics Letters, 2007, 90, 174105.	3.3	305
277	Quasi–in situ neutron tomography on polymer electrolyte membrane fuel cell stacks. Applied Physics Letters, 2007, 90, 184101.	3.3	103
278	Crystallization Behavior of Al ₈₇ Ni ₅ La ₇ Zr ₁ Metallic Glass. Materials Science Forum, 2007, 539-543, 1917-1920.	0.3	2
279	Study on aluminium-based single films. Physical Chemistry Chemical Physics, 2007, 9, 6415.	2.8	19
280	Metal foams—High temperature colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 309, 254-263.	4.7	33
281	Foaming of blowing agent-free aluminium powder compacts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 309, 264-269.	4.7	26
282	Coarsening of grain-refined semi-solid Al–Ge32 alloy: X-ray microtomography and in situ radiography. Acta Materialia, 2007, 55, 5045-5055.	7.9	31
283	Influence of La on the crystallisation behaviour of amorphous (–7) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1049-1051.	5.6	7
284	Microchemical characterization of phases in Inconel 706 and DT 706 alloys after aging. Surface and Interface Analysis, 2007, 39, 201-205.	1.8	2
285	Characterization of precipitates in aluminium-based alloy AW 6016. Surface and Interface Analysis, 2007, 39, 221-226.	1.8	6
286	Metal Foams: Towards High-Temperature Colloid Chemistry. , 2006, , 445-500.		6
287	Foaming around Fastening Elements. Materials Science Forum, 2006, 514-516, 712-717.	0.3	8
288	Fracture Behavior of Metal Foam Made of Recycled MMC by the Melt Route. Materials Transactions, 2006, 47, 2219-2222.	1.2	5

#	Article	IF	CITATIONS
289	Modification of titanium hydride for improved aluminium foam manufacture. Acta Materialia, 2006, 54, 1887-1900.	7.9	188
290	γ′/γ″ Co-precipitation in Inconel 706 alloy: A 3D finite element study. Materials Science & Engineerir Structural Materials: Properties, Microstructure and Processing, 2006, 417, 82-89.	ng A: 5.6	22
291	The new cold neutron radiography and tomography instrument CONRAD at HMI Berlin. Physica B: Condensed Matter, 2006, 385-386, 1213-1215.	2.7	54
292	Scattering-related contrast signals in neutron computerized tomography and the new V12 instrument at HMI Berlin. Physica B: Condensed Matter, 2006, 385-386, 1209-1212.	2.7	7
293	Improvement of aluminium foam technology by tailoring of blowing agent. Scripta Materialia, 2006, 54, 503-508.	5.2	130
294	Metal Foams: Production and Stability. Advanced Engineering Materials, 2006, 8, 781-794.	3.5	247
295	Liquid-Metal Foams – Feasible In Situ Experiments under Low Gravity. Materials Science Forum, 2006, 508, 275-280.	0.3	8
296	Optimisation of the Strength of Aluminium Foam Sandwich (AFS) Panels by Different Heat Treatments. Materials Science Forum, 2006, 519-521, 1221-1226.	0.3	7
297	Neutron tomography for archaeological investigations. Journal of Neutron Research, 2006, 14, 29-36.	1.1	34
298	Why are metal foams stable?. Applied Physics Letters, 2006, 89, 154102.	3.3	71
299	Industrial applications at the new cold neutron radiography and tomography facility of the HMI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 16-21.	1.6	71
300	Effect of La on the crystallization behaviour of amorphous Al94â^'xNi6Lax (x=4–7) alloys. Acta Materialia, 2005, 53, 3861-3870.	7.9	66
301	Lead and lead alloy foams. Acta Materialia, 2005, 53, 4903-4917.	7.9	34
302	Metal foams—high temperature colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 261, 123-130.	4.7	62
303	X-ray radioscopy of liquid metalfoams: influence of heating profile, atmosphere and pressure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 263, 290-294.	4.7	44
304	Investigation of pore initiation in metal foams by synchrotron-radiation tomography. Applied Physics Letters, 2005, 86, 231907.	3.3	29
305	Crystallization Behavior and Microhardness Evolution in Al92â~'xNi8Lax Amorphous Alloys. Journal of Materials Research, 2005, 20, 2927-2933.	2.6	20
306	Aluminium foams for lighter vehicles. International Journal of Vehicle Design, 2005, 37, 114.	0.3	174

#	Article	IF	CITATIONS
307	Crystallization of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Bulk Glass. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 35-40.	0.1	5
308	Microstructural characterization of Inconel 706 alloy. Surface and Interface Analysis, 2004, 36, 546-551.	1.8	6
309	Real-time X-ray Radioscopy on Metallic Foams Using a Compact Micro-Focus Source. Advanced Engineering Materials, 2004, 6, 416-420.	3.5	84
310	The Role of Oxidation in Blowing Particle-Stabilised Aluminium Foams. Advanced Engineering Materials, 2004, 6, 421-428.	3.5	78
311	Characterisation of precipitates in a stainless maraging steel by three-dimensional atom probe and small-angle neutron scattering. International Journal of Materials Research, 2004, 95, 644-649.	0.8	6
312	Intragranular Precipitation in Inconel 706: 3D Atom-Probe and HRTEM Investigations. Steel Research International, 2004, 75, 74-78.	1.8	5
313	Desorption of hydrogen from blowing agents used for foaming metals. Composites Science and Technology, 2003, 63, 2293-2300.	7.8	126
314	Properties of heat-treated aluminium foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 349, 98-110.	5.6	126
315	Electronic conductivity inNixCr1â~'xandNixCu1â~'xfcc alloy systems. Physical Review B, 2003, 68, .	3.2	16
316	Aluminum Foams: On the Road to Real Applications. MRS Bulletin, 2003, 28, 290-295.	3.5	96
317	Stability of metallic foams studied under microgravity. Journal of Physics Condensed Matter, 2003, 15, S427-S433.	1.8	33
318	Investigation of the foaming process of metals by synchrotron radiation imaging. , 2003, , .		9
319	A Sound Use for Metal Foams. Physics Today, 2003, 56, 12-12.	0.3	0
320	Electrical conductivity of long-range–ordered alloys. Europhysics Letters, 2002, 58, 264-270.	2.0	20
321	The Evolution of Morphology and Kinetics during the Foaming Process of Aluminium Foams. Key Engineering Materials, 2002, 230-232, 96-101.	0.4	2
322	On the Road Again: Metal Foams Find Favor. Physics Today, 2002, 55, 37-42.	0.3	119
323	Adaptation of aluminium foam properties by means of precipitation hardening. Materials Science and Technology, 2002, 18, 474-479.	1.6	31
324	Viewing the Early Stage of Metal Foam Formation by Computed Tomography using Synchrotron Radiation. Advanced Engineering Materials, 2002, 4, 808-813.	3.5	51

#	Article	IF	CITATIONS
325	Process Control in Aluminum Foam Production Using Real-Time X-ray Radioscopy. Advanced Engineering Materials, 2002, 4, 814-823.	3.5	78
326	Production of metallic foam under low gravity conditions during parabolic flights. Microgravity Science and Technology, 2002, 13, 36-42.	1.4	7
327	Material flow in metal foams studied by neutron radioscopy. Applied Physics A: Materials Science and Processing, 2002, 74, s1118-s1120.	2.3	13
328	USANS investigation of early stages of metal foam formation. Applied Physics A: Materials Science and Processing, 2002, 74, s1136-s1138.	2.3	3
329	Influence of heat treatment on compression fatigue of aluminium foams. Journal of Materials Science, 2002, 37, 3447-3451.	3.7	30
330	Manufacture, characterisation and application of cellular metals and metal foams. Progress in Materials Science, 2001, 46, 559-632.	32.8	3,227
331	Investigation of metal foam formation by microscopy and ultra small-angle neutron scattering. Acta Materialia, 2001, 49, 3409-3420.	7.9	57
332	Experimental and numerical analyses of bending of foam-filled sections. Acta Mechanica, 2001, 148, 199-213.	2.1	97
333	Real-time X-ray Investigation of Aluminum Foam Sandwich Production. Advanced Engineering Materials, 2001, 3, 407-411.	3.5	29
334	Metal foam evolution studied by synchrotron radioscopy. Applied Physics Letters, 2001, 78, 1152-1154.	3.3	80
335	Industrialization of Powder Compact Toaming Process. Advanced Engineering Materials, 2000, 2, 168-174.	3.5	277
336	Properties and Applications of Cast Aluminum Sponges. Advanced Engineering Materials, 2000, 2, 188-191.	3.5	34
337	Der Schämprozeß von Aluminium. Materialwissenschaft Und Werkstofftechnik, 2000, 31, 409-411.	0.9	7
338	Einfluß von Wämebehandlungen auf Gefüge und Festigkeitseigenschaften von Aluminiumschämen. Materialwissenschaft Und Werkstofftechnik, 2000, 31, 474-477.	0.9	1
339	A study of aluminium foam formation—kinetics and microstructure. Acta Materialia, 2000, 48, 2349-2362.	7.9	262
340	Manufacturing routes for metallic foams. Jom, 2000, 52, 22-27.	1.9	213
341	Study on nonlinear damping properties of foamed Al. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2000, 80, 1085-1092.	0.6	11
342	Electrical conductivity of finite metallic systems: Disorder. Physical Review B, 2000, 61, 16502-16513.	3.2	7

#	Article	IF	CITATIONS
343	Der SchĤmprozeß von Aluminium. Materialwissenschaft Und Werkstofftechnik, 2000, 31, 409-411.	0.9	0
344	Eigenschaften und Anwendungsgebiete offenporiger metallischer Werkstoffe. Materialwissenschaft Und Werkstofftechnik, 2000, 31, 501-504.	0.9	0
345	Optical Conductivity of Disordered Alloys Calculated from First Principles. Physical Review Letters, 1999, 82, 2139-2142.	7.8	18
346	The influence of spin–orbit coupling and a current dependent potential on the residual resistivity of disordered magnetic alloys. Solid State Communications, 1999, 113, 103-107.	1.9	10
347	Fatigue Behavior of Aluminum Foams. Journal of Materials Science Letters, 1999, 18, 617-619.	0.5	50
348	Foam Metal: The Recipe. Europhysics News, 1999, 30, 17-20.	0.3	19
349	Foam Metal: The Recipe. Europhysics News, 1999, 30, 17.	0.3	19
350	Internal friction of foamed aluminium in the range of acoustic frequencies. Journal of Materials Science, 1998, 33, 1769-1775.	3.7	31
351	Deformation characteristics of metal foams. Journal of Materials Science, 1998, 33, 1431-1440.	3.7	304
352	Metal foaming by a powder metallurgy method: Production, properties and applications. Materials Research Innovations, 1998, 2, 181-188.	2.3	101
353	On the validity of two-current model for systems with strongly spin-dependent disorder. Computational Materials Science, 1998, 10, 221-224.	3.0	2
354	Low-frequency internal friction of foamed Al. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 1329-1337.	0.6	19
355	Relativistic and non-relativistic electron transport in disordered alloys II. Applications to palladium alloyed with copper, silver and gold. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 105-119.	0.6	8
356	Relativistic and non-relativistic electron transport in disordered alloys I. Theory. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 85-103.	0.6	9
357	Relativistic and non-relativistic electron transport in disordered alloys I. Theory. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 85-103.	0.6	3
358	Relativistic and non-relativistic electron transport in disordered alloys II. Applications to palladium alloyed with copper, silver and gold. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 105-119.	0.6	2
359	Applicability of the two-current model for systems with strongly spin-dependent disorder. Physical Review B, 1997, 56, 10165-10171.	3.2	37
360	Aluminium foams for transport industry. Materials & Design, 1997, 18, 217-220.	5.1	268

#	Article	IF	CITATIONS
361	Relativistic bandstructure of disordered magnetic alloys. Solid State Communications, 1997, 104, 243-247.	1.9	18
362	Anisotropic electrical resistivity of ferromagnetic Co-Pd and Co-Pt alloys. Physical Review B, 1996, 54, 8479-8486.	3.2	35
363	Spin-orbit interaction and spontaneous galvanomagnetic effects in ferromagnetic alloys. Solid State Communications, 1996, 98, 129-132.	1.9	19
364	Damping properties of aluminium foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 205, 221-228.	5.6	134
365	`Band structure' and electrical conductivity of disordered layered systems. Journal of Physics Condensed Matter, 1996, 8, 7677-7688.	1.8	58
366	Pressure dependence of the electrical residual resistivity of disordered alloys. Physical Review B, 1996, 53, 7128-7133.	3.2	12
367	First-principles calculation of the thermoelectric power of disordered alloys. Solid State Communications, 1995, 94, 445-449.	1.9	14
368	First-Principles Theory of Spontaneous-Resistance Anisotropy and Spontaneous Hall Effect in Disordered Ferromagnetic Alloys. Europhysics Letters, 1995, 32, 517-522.	2.0	59
369	Approximations made in evaluating the residual electrical dc resistivity of disordered alloys. Physical Review B, 1994, 50, 2104-2109.	3.2	39
370	Electronic properties of single-phased metastable Ag-Cu alloys. Physical Review B, 1992, 46, 9968-9975.	3.2	7
371	Kubo and Boltzmann electrical residual resistivities of disordered transition-metal alloys. Solid State Communications, 1991, 77, 107-110.	1.9	15
372	Changes of the electronic structure of Cu-Pt due to order-disorder transitions. Physical Review B, 1991, 44, 11624-11631.	3.2	4
373	Calculation of magnetic impurities in a nonmagnetic host: Fe in Au. Physical Review B, 1990, 41, 9444-9451.	3.2	7
374	Short-range-order effects inCuxPt1â^'x. Physical Review B, 1989, 40, 12079-12085.	3.2	19
375	Fermi surface and electrical resistivity of Cu-Pt alloys: A relativistic calculation. Journal of Physics Condensed Matter, 1989, 1, 7013-7020.	1.8	16
376	Nuclear spin-lattice relaxation and effects of short-range order in Cux-Pt1â^'x. Solid State Communications, 1988, 65, 693-696.	1.9	11
377	Detection of short- and long-range order in Cu-Pt alloys. Physical Review B, 1988, 37, 6027-6029.	3.2	15
378	Environmental influence on the nuclear spinâ€lattice relaxation rate in CuxPt1â^'x. Journal of Applied Physics, 1988, 63, 4130-4132.	2.5	2

#	Article	IF	CITATIONS
379	Application of the Coherent Potential Approximation to Substitutional Ternary Alloys. Physica Status Solidi (B): Basic Research, 1987, 139, K19.	1.5	3
380	Diamagnetic susceptibility of pure metals and binary alloys. Journal of Magnetism and Magnetic Materials, 1986, 61, 221-224.	2.3	35
381	Weight Savings by Aluminum Metal Foams: Production, Properties and Applications in Automotive. , 0, , \cdot		8
382	Ultra-Lightweight Aluminum Foam Materials for Automotive Applications. , 0, , .		19
383	Influence of Pre-Straining and Pre-Ageing on the Age-Hardening Response of Al-Mg-Si Alloys. Materials Science Forum, 0, 794-796, 903-908.	0.3	15
384	Ageing Characteristics of Al-Mg-(Ge,Si)-Cu Alloys. Materials Science Forum, 0, 794-796, 971-976.	0.3	3
385	A Positron Study of Early Clustering in Al-Mg-Si Alloys. Materials Science Forum, 0, 794-796, 33-38.	0.3	4