List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effects of Y Additions on the Microstructures and Mechanical Behaviours of as Cast Mg– <i>x</i> Y–0.5Zr Alloys. Advanced Engineering Materials, 2022, 24, .	1.6	4
2	Unconventional twin deformation of Ni-Mn-Ga 7M martensite under tension mediated by the collective lattice reorientation from a-c twin to b-c twin. Acta Materialia, 2022, 227, 117729.	3.8	8
3	Quantification of Residual Stress Relief by Heat Treatments in Austenitic Cladded Layers. Materials, 2022, 15, 1364.	1.3	2
4	On the impact of nanometric γ' precipitates on the tensile deformation of superelastic Co49Ni21Ga30. Acta Materialia, 2022, 230, 117835.	3.8	1
5	Effect of grain boundary segregation on microstructure and mechanical properties of ultra-fine grained Mg–Al–Ca–Mn alloy wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143423.	2.6	11
6	Microstructure and mechanical behavior of Mg-5Zn matrix influenced by particle deformation zone. Journal of Materials Science and Technology, 2021, 60, 8-20.	5.6	30
7	Development and strengthening mechanisms of a hybrid CNTs@SiCp/Mg-6Zn composite fabricated by a novel method. Journal of Magnesium and Alloys, 2021, 9, 1363-1372.	5.5	36
8	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. Acta Biomaterialia, 2021, 121, 695-712.	4.1	39
9	Multi-scale phase analyses of strain-induced martensite in austempered ductile iron (ADI) using neutron diffraction and transmission techniques. Journal of Materials Science, 2021, 56, 5296-5306.	1.7	6
10	Evolution of microscopic strains, stresses, and dislocation density during in-situ tensile loading of additively manufactured AlSi10Mg alloy. International Journal of Plasticity, 2021, 139, 102946.	4.1	46
11	Tube Drawing with Tilted Die: Texture, Dislocation Density and Mechanical Properties. Metals, 2021, 11, 638.	1.0	4
12	Microstructure and mechanical properties of M40/AZ91 composites fabricated by pressure infiltration method. Composites Communications, 2021, 24, 100640.	3.3	5
13	New insight into deformation induced α variant selection in a metastable β titanium alloy during isothermal compression at 600Â °C. Progress in Natural Science: Materials International, 2021, 31, 471-476.	1.8	3
14	Large rotating magnetocaloric effects in polycrystalline Ni-Mn-Ga alloys. Journal of Alloys and Compounds, 2021, 874, 159755.	2.8	11
15	An additively manufactured and direct-aged AlSi3.5Mg2.5 alloy with superior strength and ductility: micromechanical mechanisms. International Journal of Plasticity, 2021, 146, 103083.	4.1	18
16	A Unique Quenching and Deformation Dilatometer for Combined In Situ Neutron Diffraction Analysis of Engineering Materials. Advanced Engineering Materials, 2021, 23, 2170046.	1.6	1
17	Work hardening and softening behavior of pure Mg influenced by Zn addition investigated via in-situ neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138827.	2.6	31
18	Investigation into the influence of carbon nanotubes addition on residual stresses and mechanical properties in the CNTs@SiCp/Mg-6Zn hybrid composite using neutron diffraction method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140105.	2.6	10

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19	Elastic strain induced abnormal grain growth in graphene nanosheets (GNSs) reinforced copper (Cu) matrix composites. Acta Materialia, 2020, 200, 338-350.	3.8	16
20	Processing, microstructure and mechanical properties of a novel mg matrix composites reinforced with urchin-like CNTs@SiCp. Diamond and Related Materials, 2020, 109, 108087.	1.8	3
21	Effects of finish turning on an austenitic weld investigated using diffraction methods. International Journal of Advanced Manufacturing Technology, 2020, 108, 635-645.	1.5	3
22	Over 2% magnetic-field-induced strain in a polycrystalline Ni50Mn28.5Ga21.5 alloy prepared by directional solidification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139170.	2.6	21
23	Microstructure, texture and hardness of a metastable β-titanium alloy after bar-rolling and annealing. Journal of Alloys and Compounds, 2020, 825, 154082.	2.8	24
24	In situ compressive investigations on the effects of solid solution Gd on the texture and lattice strain evolution of Mg. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 774, 138938.	2.6	9
25	Microscopic stresses in carbon nanotube reinforced aluminum matrix composites determined by in-situ neutron diffraction. Journal of Materials Science and Technology, 2020, 54, 58-68.	5.6	23
26	Non-destructive Neutron Surface Residual Stress Analysis. Journal of Nondestructive Evaluation, 2019, 38, 1.	1.1	1
27	Carbon Redistribution Process in Austempered Ductile Iron (ADI) During Heat Treatment—APT and Synchrotron Diffraction Study. Metals, 2019, 9, 789.	1.0	8
28	Enhanced tensile plasticity of a CuZr-based bulk metallic glass composite induced by ion irradiation. Journal of Materials Science and Technology, 2019, 35, 2221-2226.	5.6	36
29	Effect of Applied Compressive Stress and Impregnation Material on Internal Strain and Stress State in Nb ₃ Sn Rutherford Cable Stacks. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	5
30	Neutron diffraction measurement of residual stresses in an ITER-like tungsten-monoblock type plasma-facing component. Fusion Engineering and Design, 2019, 146, 701-704.	1.0	9
31	Texture in Superconducting Magnet Constituent Materials and Its Effect on Elastic Anisotropy. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	1
32	Fabrication, microstructure and mechanical properties of the as-rolled ZW31/PMMCs laminate. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 761, 138043.	2.6	9
33	Deformation of Ni–Mn-Ga 7M modulated martensite through detwinning/twinning and forward/reverse intermartensitic transformation studied by in-situ neutron diffraction and interrupted in-situ EBSD. Acta Materialia, 2019, 174, 319-331.	3.8	15
34	The Role of Second Phases on the Creep Behavior of As-Cast and Hot-Extruded Mg-Ca-Zr Alloys. Jom, 2019, 71, 2227-2234.	0.9	0
35	Unexpected Expansion Behavior of Mg-Al Alloys During Isothermal Ageing. Jom, 2019, 71, 2906-2912.	0.9	2
36	Hot extrusion approach to enhance the cyclic stability of elastocaloric effect in polycrystalline Ni-Mn-Ga alloys. Scripta Materialia, 2019, 168, 28-32.	2.6	27

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37	Hot deformation behavior originated from dislocation activity and \hat{I}^2 to $\hat{I}\pm$ phase transformation in a metastable \hat{I}^2 titanium alloy. International Journal of Plasticity, 2019, 119, 200-214.	4.1	28
38	Evolution of texture in precision seamless tubes investigated by synchrotron and neutron radiation measurement. Materials Characterization, 2019, 151, 582-589.	1.9	7
39	2D/3D local strain analysis of layered metal composites with a strength-ductility synergy. IOP Conference Series: Materials Science and Engineering, 2019, 580, 012038.	0.3	0
40	Effects of welding speed on the multiscale residual stresses in friction stir welded metal matrix composites. Journal of Materials Science and Technology, 2019, 35, 824-832.	5.6	21
41	Diffraction-based determination of single-crystal elastic constants of polycrystalline titanium alloys. Journal of Applied Crystallography, 2019, 52, 1144-1156.	1.9	14
42	Crystallographic texture gradient along the wall thickness of an SF-copper tube. Materials Characterization, 2018, 139, 125-133.	1.9	7
43	Role of layered structure in ductility improvement of layered Ti-Al metal composite. Acta Materialia, 2018, 153, 235-249.	3.8	244
44	Correlation Between the Microstructural Defects and Residual Stress in a Single Crystal Nickel-Based Superalloy During Different Creep Stages. Metals and Materials International, 2018, 24, 1002-1011.	1.8	6
45	Heat-treatment induced defect formation in α-Al matrix in Sr-modified eutectic Al–Si alloy. Journal of Alloys and Compounds, 2018, 730, 208-218.	2.8	34
46	Strain-Induced Martensitic Transformation Kinetic in Austempered Ductile Iron (ADI). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 94-104.	1.1	14
47	Correlation between imposed deformation and transformation lattice strain on α variant selection in a metastable β-Ti alloy under isothermal compression. Acta Materialia, 2018, 161, 150-160.	3.8	32
48	Rapid measurement of volumetric texture using resonant ultrasoundÂspectroscopy. Scripta Materialia, 2018, 157, 44-48.	2.6	10
49	The metallurgical texture of gold artefacts found at the Bronze Age rampart of Bernstorf (Bavaria) studied by neutron diffraction. Journal of Archaeological Science: Reports, 2018, 20, 338-346.	0.2	0
50	Energy-Efficient Elastocaloric Cooling by Flexibly and Reversibly Transferring Interface in Magnetic Shape-Memory Alloys. ACS Applied Materials & Interfaces, 2018, 10, 25438-25445.	4.0	28
51	Direct volumetric measurement of crystallographic texture using acoustic waves. Acta Materialia, 2018, 159, 384-394.	3.8	12
52	Strengthening and ductilizing of magnesium alloying with heavy rare earth elements. MATEC Web of Conferences, 2018, 188, 03021.	0.1	2
53	Crystallographic texture and lattice strain evolution during tensile load of swaged brass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 149-155.	2.6	3
54	Effects of extrusion ratio and annealing treatment on the mechanical properties and microstructure	17	94

⁵⁴ of a Mgâ€"11Gdâ€"4.5Yâ€"1Ndâ€"1.5Znâ€"0.5Zr (wt%) alloy. Journal of Materials Science, 2017, 52, 6670-6686. ^{1.7} ²⁴

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55	Evolution of twinning in extruded AZ31 alloy with bimodal grain structure. Materials Characterization, 2017, 126, 116-124.	1.9	12
56	Ordering and disordering of β/βo-phase in γ-TiAl based alloys investigated by neutron diffraction. MRS Advances, 2017, 2, 1399-1404.	0.5	7
57	Composite structure of α phase in metastable β Ti alloys induced by lattice strain during β to α phase transformation. Acta Materialia, 2017, 132, 307-326.	3.8	80
58	The origin of striation in the metastable β phase of titanium alloys observed by transmission electron microscopy. Journal of Applied Crystallography, 2017, 50, 795-804.	1.9	20
59	Combined caloric effects in a multiferroic Ni–Mn–Ga alloy with broad refrigeration temperature region. APL Materials, 2017, 5, .	2.2	53
60	Effect of Extrusion Temperature on the Plastic Deformation of an Mg-Y-Zn Alloy Containing LPSO Phase Using In Situ Neutron Diffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5332-5343.	1.1	21
61	Reply to comments on "composite structure of α phase in metastable β Ti alloys induced by lattice strain during β to α phase transformation―by prof. D. Banerjee. Scripta Materialia, 2017, 141, 148-150.	2.6	5
62	Inhomogeneity and relaxation phenomena in the graphite anode of a lithium-ion battery probed by in situ neutron diffraction. Journal of Power Sources, 2017, 361, 54-60.	4.0	34
63	Enhanced multiscale modeling of macroscopic and microscopic residual stresses evolution during multi-thermo-mechanical processes. Materials and Design, 2017, 115, 364-378.	3.3	21
64	Crystallographic Characterization on Polycrystalline Ni-Mn-Ga Alloys with Strong Preferred Orientation. Materials, 2017, 10, 463.	1.3	20
65	Influence of crystallographic texture on the microstructure, tensile properties and residual stress state of laser-welded titanium joints. Materials and Design, 2016, 101, 137-145.	3.3	25
66	Microstructure evolution and mechanical properties of nano-SiCp/AZ91 composite processed by extrusion and equal channel angular pressing (ECAP). Materials Characterization, 2016, 121, 222-230.	1.9	70
67	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys. Journal of Magnesium and Alloys, 2016, 4, 173-180.	5.5	37
68	Impact of the B2 ordering behavior on the mechanical properties of a FeCoMo alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 511-518.	2.6	25
69	Microstructure evolution of Mg–11Gd–4.5Y–1Nd–1.5Zn–0.5Zr (wt%) alloy during deformation and its effect on strengthening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 259-268.	5 2.6	16
70	Effect of compressive load on the martensitic transformation from austenite to 5M martensite in a polycrystalline Ni–Mn-Ga alloy studied by in-situ neutron diffraction. Journal of Alloys and Compounds, 2016, 666, 1-9.	2.8	11
71	Strain Induced Martensitic Transformation in Austempered Ductile Iron (ADI). Journal of Physics: Conference Series, 2016, 746, 012055.	0.3	5
72	Reverse tension/compression asymmetry of a Mg–Y–Zn alloys containing LPSO phases. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 647, 287-293.	2.6	75

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73	Diffraction on heavy samples at STRESS-SPEC using a robot system. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012105.	0.3	0
74	B2 order transformation in a Fe – 25 at% Co – 9 at% Mo alloy. Materials Research Society Symposia Proceedings, 2015, 1760, 175.	0.1	2
75	Determination of macroscopic and microscopic residual stresses in friction stir welded metal matrix composites via neutron diffraction. Acta Materialia, 2015, 87, 161-173.	3.8	55
76	Improved sample manipulation at the STRESS-SPEC neutron diffractometer using an industrial 6-axis robot for texture and strain analyses. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 794, 67-75.	0.7	9
77	The effect of magnetic annealing on crystallographic texture and magnetic properties of Fe-2.6% Si. Journal of Magnetism and Magnetic Materials, 2015, 381, 350-359.	1.0	7
78	Dislocation density evolution of AA 7020-T6 investigated by in-situ synchrotron diffraction under tensile load. Materials Characterization, 2015, 108, 124-131.	1.9	56
79	Microstructures and mechanical properties of SiCp/AZ91 magnesium matrix nanocomposites processed by multidirectional forging. Journal of Alloys and Compounds, 2015, 622, 1018-1026.	2.8	43
80	<i>In-situ</i> neutron diffraction study of martensitic variant redistribution in polycrystalline Ni-Mn-Ga alloy under cyclic thermo-mechanical treatment. Applied Physics Letters, 2014, 105, .	1.5	9
81	Microstructural evolution and delayed hydride cracking of FSW-AZ31 magnesium alloy during SSRT. Transactions of Nonferrous Metals Society of China, 2014, 24, 3060-3069.	1.7	21
82	Role of multi-microalloying by rare earth elements in ductilization of magnesium alloys. Journal of Magnesium and Alloys, 2014, 2, 1-7.	5.5	74
83	Non-destructive residual stress evaluation in mechanically surface treated Ti–2.5Cu by diffraction techniques. NDT and E International, 2014, 61, 67-70.	1.7	1
84	Hardening mechanism of commercially pure Mg processed by high pressure torsion at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 619, 95-106.	2.6	62
85	Modified twinning behaviour induced by texture evolution in hot rolled Mg–3Al–1Zn alloy. Materials Science and Technology, 2014, 30, 694-699.	0.8	3
86	The effect of intermediate annealing between cold rolled steps on crystallographic texture and magnetic properties of Fe–2.6% Si. Journal of Magnetism and Magnetic Materials, 2014, 362, 141-149.	1.0	9
87	Magnetic properties and crystallographic textures of Fe 2.6% Si after 90% cold rolling plus different annealing. Journal of Magnetism and Magnetic Materials, 2014, 354, 105-111.	1.0	20
88	Microstructures and mechanical properties of pure Mg processed by rotary swaging. Materials & Design, 2014, 63, 83-88.	5.1	47
89	Texture gradient studies of a Cuâ€ŧube by the robot at STRESS‣PEC. Crystal Research and Technology, 2014, 49, 888-898.	0.6	3
90	Bulk and local textures of pure magnesium processed by rotary swaging. Journal of Magnesium and Alloys, 2013, 1, 341-345.	5.5	19

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91	Verification of Structural Simulation Results of Metal-based Additive Manufacturing by Means of Neutron Diffraction. Physics Procedia, 2013, 41, 849-857.	1.2	29
92	Materials science at the diffractometer STRESS-SPEC at FRM II. Neutron News, 2013, 24, 14-17.	0.1	7
93	Effect of grain size on cyclic microplasticity of ECAP processed commercial pure magnesium. Journal of Materials Science, 2013, 48, 1239-1248.	1.7	4
94	Texture Evolution of the Mg/Al Laminated Composite by Accumulative Roll Bonding at Ambient Temperature. Rare Metal Materials and Engineering, 2013, 42, 441-446.	0.8	15
95	Compressive deformation behavior of Mg–Zn–Ca alloy at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 586, 71-77.	2.6	7
96	Rotatable multifunctional load frames for neutron diffractometers at FRM II—design, specifications and applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 711, 101-105.	0.7	37
97	Internal friction and microplastic deformation behavior of pure magnesium processed by equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 100-108.	2.6	38
98	Residual Stresses in the Hot Sprues of as-cast Mg-Zn Alloys Investigated by STRESS-SPEC Neutron Diffractometer. Materials Science Forum, 2013, 768-769, 428-432.	0.3	0
99	In situneutron diffraction on ferroelectrics under electric field. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s214-s214.	0.3	0
100	Peak broadening and peak shift pole figures investigations by STRESS-SPEC diffractometer at FRM II. Journal of Physics: Conference Series, 2012, 340, 012100.	0.3	3
101	Identification of unexpected hydrides in Mg–20 wt% Dy alloy by high-brilliance synchrotron radiation. Journal of Applied Crystallography, 2012, 45, 17-21.	1.9	17
102	Effect of particle size on microstructure and mechanical properties of SiCp/AZ91 magnesium matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 158-163.	2.6	94
103	Isothermal forging of AZ91 reinforced with 10vol.% silicon carbon particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1707-1712.	2.6	50
104	Effect of Mn addition on microstructure, texture and mechanical properties of Mg–Zn–Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3741-3747.	2.6	98
105	Texture analysis at neutron diffractometer STRESS-SPEC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 642, 87-92.	0.7	66
106	Texture development of ARB processed Mg/Al multilayers. Journal of Physics: Conference Series, 2010, 240, 012125.	0.3	2
107	Microstructure and mechanical properties of the accumulative roll bonded (ARBed) pure magnesium sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7176-7183.	2.6	43
108	Microstructure evolution and mechanical properties of a particulate reinforced magnesium matrix composites forged at elevated temperatures. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1630-1635.	2.6	78

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109	Microstructure and mechanical properties of the Mg/Al laminated composite fabricated by accumulative roll bonding (ARB). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3073-3078.	2.6	201
110	Impact fatigue behavior of superelastic NiTi shape memory alloy wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 764-769.	2.6	21
111	Effect of Texture on Damping Behaviour in an AZ80 Alloy. Solid State Phenomena, 2010, 160, 117-121.	0.3	2
112	The Robot Concept at STRESS-SPEC for the Characterisation or Semi-Finished Products. Materials Science Forum, 2010, 652, 197-201.	0.3	4
113	Texture evolution of the Mg/Al laminated composite fabricated by the accumulative roll bonding. Scripta Materialia, 2009, 61, 717-720.	2.6	93
114	Microstructure and mechanical property of the ECAPed Mg2Si/Mg composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 516, 283-289.	2.6	44
115	Microstructure and tensile property of the ECAPed pure magnesium. Journal of Alloys and Compounds, 2009, 470, 256-262.	2.8	89
116	Hot deformation behavior of SiCp/AZ91 magnesium matrix composite fabricated by stir casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 481-485.	2.6	36
117	Compressive Behavior of Ultrafine-Grained Mg-Zn-Y-Zr Alloy Containing Quasicrystalline Phase. Materials Science Forum, 2008, 584-586, 287-292.	0.3	0
118	Low frequency damping capacities and mechanical properties of Mg–Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 374-379.	2.6	81
119	Effect of hot extrusion on the microstructure of a particulate reinforced magnesium matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 465, 78-84.	2.6	77
120	Development of Extrusion and Rolling Textures during ECAP of Mg-Alloys. Materials Science Forum, 0, 584-586, 748-753.	0.3	2
121	Texture Gradient in a Single Pass ECAPed Pure Mg by Neutron Radiation. Materials Science Forum, 0, 584-586, 513-517.	0.3	1
122	Textures in Multi-Directional Forged Mg by Neutron Diffraction. Advanced Materials Research, 0, 146-147, 879-882.	0.3	1
123	Microstructure and Properties of Pure Mg/ZK60 Laminate Processed by Accumulative Roll Bonding. Materials Science Forum, 0, 650, 343-346.	0.3	3
124	Investigation of Texture Gradients of Semi-Finished Products by Neutrons and Photons. Materials Science Forum, 0, 702-703, 499-506.	0.3	4
125	Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. Advanced Materials Research, 0, 996, 592-597.	0.3	0
126	A Unique Quenching and Deformation Dilatometer for Combined In Situ Neutron Diffraction Analysis of Engineering Materials. Advanced Engineering Materials, 0, , 2100163.	1.6	1

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127	STRESS-SPEC: Materials science diffractometer. Journal of Large-scale Research Facilities JLSRF, 0, 1, A6.	0.0	20