

Abdelkrim Redjaïmia

List of Publications by Year in descending order

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72
docs citations

72
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and crystallographic characterization of grain boundaries coarse particles in an Al-Mg-Si alloy, using convergent beam electron diffraction. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	0
2	On the M23C6-Carbide in 2205 Duplex Stainless Steel: An Unexpected (M23C6/Austenite)-Eutectoid in the δ -Ferritic Matrix. Metals, 2021, 11, 1340.	2.3	8
3	Blue emission and twin structure of p-type copper iodide thin films. Surfaces and Interfaces, 2021, 27, 101500.	3.0	6
4	Epitaxial Growth of Sc _{0.09} Al _{0.91} N and Sc _{0.18} Al _{0.82} N Thin Films on Sapphire Substrates by Magnetron Sputtering for Surface Acoustic Waves Applications. Sensors, 2020, 20, 4630.	3.8	5
5	High-Temperature Deformation Behavior of 718Plus: Consideration of $\dot{\epsilon}^2$ Effects. Materials Performance and Characterization, 2020, 9, 20190031.	0.3	3
6	Crystal structure, morphology and formation mechanism of a novel polymorph of lead dioxide, δ -PbO ₂ . Journal of Applied Crystallography, 2019, 52, 304-311.	4.5	9
7	Transmission of Plasticity Through Grain Boundaries in a Metastable Austenitic Stainless Steel. Metals, 2019, 9, 234.	2.3	2
8	Isothermal decomposition of carbon and nitrogen-enriched austenite in 23MnCrMo5 low-alloy steel. Acta Materialia, 2018, 148, 363-373.	7.9	8
9	Synthesis of two-dimensional lead sheets by spark discharge in liquid nitrogen. Particuology, 2018, 40, 152-159.	3.6	22
10	Influence of testing mode on the fatigue behavior of δ austenitic grain at the nanometric length scale for TRIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 287-293.	5.6	7
11	Dynamic Deformation of Metastable Austenitic Stainless Steels at the Nanometric Length Scale. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6034-6039.	2.2	4
12	Reversible Phase Transformation in Polycrystalline TRIP Steels Induced by Cyclic Indentation Performed at the Nanometric Length Scale. Steel Research International, 2018, 89, 1800234.	1.8	3
13	Contribution of Local Analysis Techniques for the Characterization of Iron and Alloying Elements in Nitrides: Consequences on the Precipitation Process in Fe-Si and Fe-Cr Nitrided Alloys. Materials, 2018, 11, 1409.	2.9	2
14	A proper assessment of TEM diffraction patterns originating from CrN nitrides in a ferritic matrix. Materials Characterization, 2018, 144, 671-677.	4.4	9
15	Nitrogen-induced nanotwinning of bainitic ferrite in low-alloy steel. Scripta Materialia, 2018, 155, 63-67.	5.2	6
16	Mechanism of porosity formation and influence on mechanical properties in selective laser melting of Ti-6Al-4V parts. Materials and Design, 2018, 156, 480-493.	7.0	90
17	Bainite Formation in Carbon and Nitrogen enriched Low Alloyed Steels: Kinetics and Microstructures*. HTM - Journal of Heat Treatment and Materials, 2018, 73, 144-156.	0.2	1
18	Carbonitriding of low alloy steels: Mechanical and metallurgical responses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 225-232.	5.6	18

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19	Deformation mechanisms induced by nanoindentation tests on a metastable austenitic stainless steel: A FIB/SIM investigation. <i>Materials Characterization</i> , 2017, 131, 253-260.	4.4	24
20	Mechanism of Si ₃ N ₄ precipitation in nitrated Fe-Si alloys: A novel example of particle-stimulated-nucleation. <i>Materials Letters</i> , 2017, 189, 25-27.	2.6	6
21	Multiscale analysis of an ODS FeAl ₄₀ intermetallic after plasma-assisted nitriding. <i>Journal of Alloys and Compounds</i> , 2016, 683, 418-426.	5.5	12
22	Carbon and nitrogen effects on microstructure and kinetics associated with bainitic transformation in a low-alloyed steel. <i>Journal of Alloys and Compounds</i> , 2016, 658, 832-838.	5.5	24
23	Relationship between Microstructure, Mechanical Properties and Damage Mechanisms in High Martensite Fraction Dual Phase Steels. <i>ISIJ International</i> , 2015, 55, 2237-2246.	1.4	41
24	Competitive precipitation of amorphous and crystalline silicon nitride in ferrite: Interaction between structure, morphology, and stress relaxation. <i>Acta Materialia</i> , 2015, 93, 218-234.	7.9	17
25	Effect of microstructure on the thermal conductivity of nanostructured Mg ₂ (Si,Sn) thermoelectric alloys: An experimental and modeling approach. <i>Acta Materialia</i> , 2015, 95, 102-110.	7.9	43
26	Precipitation of aluminum nitride in a high strength maraging steel with low nitrogen content. <i>Materials Characterization</i> , 2014, 98, 193-201.	4.4	11
27	La ₁₀ W ₂ O ₂₁ : An Anion-Deficient Fluorite-Related Superstructure with Oxide Ion Conduction. <i>Inorganic Chemistry</i> , 2014, 53, 147-159.	4.0	24
28	Tempering of a martensitic stainless steel: Investigation by in situ synchrotron X-ray diffraction. <i>Acta Materialia</i> , 2014, 81, 30-40.	7.9	26
29	The determination of the activation energy varying with the precipitated fraction of $\hat{\Gamma}^2$ metastable phase in an Al-Si-Mg alloy using non-isothermal dilatometry. <i>Thermochimica Acta</i> , 2014, 577, 5-10.	2.7	30
30	Phase transformations and mechanical properties in heat treated superaustenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 561, 477-485.	5.6	90
31	Unexpected low-temperature crystallization of amorphous silicon nitride into $\hat{\Gamma}^2$ -Si ₃ N ₄ in a ferritic Fe-Si matrix. <i>Scripta Materialia</i> , 2013, 68, 187-190.	5.2	10
32	Distribution of Carbon in Martensite During Quenching and Tempering of Dual Phase Steels and Consequences for Damage Properties. <i>ISIJ International</i> , 2013, 53, 1215-1223.	1.4	20
33	Nitride precipitation in compositionally heterogeneous alloys: Nucleation, growth and coarsening during nitriding. <i>Journal of Crystal Growth</i> , 2012, 341, 53-60.	1.5	26
34	Investigation of a Ferrite/Silicon Nitride Composite Concept Aimed at Automotive Applications. <i>Steel Research International</i> , 2012, 83, 590-593.	1.8	14
35	DSC study of the kinetic parameters of the metastable phases formation during non-isothermal annealing of an Al-Si-Mg alloy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 627-633.	3.6	39
36	Behaviour of a maraging steel under quasi-static and dynamic compressive loading. <i>International Journal of Microstructure and Materials Properties</i> , 2010, 5, 65.	0.1	2

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37	Transmission electron microscopy investigation of acicular ferrite precipitation in $\hat{\Gamma}^3\hat{\epsilon}^2\text{-Fe}_4\text{N}$ nitride. <i>Materials Characterization</i> , 2010, 61, 1245-1251.	4.4	3
38	In situ transmission electron microscopy investigations of the kinetics of $\hat{\Gamma}^3\hat{\epsilon}^3\text{-Fe}_{16}\text{N}_2$ precipitation during the ageing of nitrogen $\hat{\epsilon}$ -ferrite. <i>Scripta Materialia</i> , 2010, 63, 1232-1235.	5.2	5
39	Pearlite in hypoeutectoid iron $\hat{\epsilon}$ -nitrogen binary alloys. <i>Journal of Materials Science</i> , 2009, 44, 632-638.	3.7	8
40	LACDIF, a new electron diffraction technique obtained with the LACBED configuration and a Cs corrector: Comparison with electron precession. <i>Ultramicroscopy</i> , 2008, 108, 100-115.	1.9	26
41	Dynamical behaviour and microstructural evolution of a nitrogen-alloyed austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 480, 89-95.	5.6	30
42	Orientation Relationships between the $\hat{\Gamma}$ -ferrite Matrix in a Duplex Stainless Steel and its Decomposition Products: the Austenite and the $\hat{\Gamma}$ and R Frank-Kasper Phases. , 2008, , 479-480.		2
43	Contribution of electron precession to the identification of the space group from microdiffraction patterns. <i>Ultramicroscopy</i> , 2007, 107, 514-522.	1.9	40
44	Selecting non-isothermal heat treatment schedules for precipitation hardening systems: An example of coupled process $\hat{\epsilon}$ -property optimization. <i>Acta Materialia</i> , 2007, 55, 213-223.	7.9	49
45	Electron precession microdiffraction as a useful tool for the identification of the space group. <i>Journal of Microscopy</i> , 2007, 227, 157-171.	1.8	19
46	On the behaviour and microstructural evolution of a TiAl alloy under quasistatic and dynamic compression. <i>European Physical Journal Special Topics</i> , 2006, 134, 1125-1130.	0.2	0
47	Characterization of the behavior under impact loading of a maraging steel strengthened by nano-precipitates. <i>European Physical Journal Special Topics</i> , 2006, 134, 839-844.	0.2	0
48	Mechanical behaviour of nitrogen-alloyed austenitic stainless steel hardened by warm rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 415, 219-224.	5.6	46
49	Morphology, crystallography and defects of the intermetallic \hat{A} -phase precipitated in a duplex ($\hat{A} + \hat{A}$) stainless steel. <i>Journal of Materials Science</i> , 2004, 39, 2371-2386.	3.7	38
50	Title is missing!. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003, 34, 410-414.	0.9	0
51	Thermodynamic and structural studies on nitrated $\text{Fe}\hat{\epsilon}^1.62\%\text{Mn}$ and $\text{Fe}\hat{\epsilon}^0.56\%\text{V}$ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 351, 23-30.	5.6	31
52	Identification and characterization of a novel $\text{Mn}\hat{\epsilon}^{\text{N}}$ nitride formed in $\text{Fe}\hat{\epsilon}^{\text{Mn}}\hat{\epsilon}^{\text{N}}$ alloy. <i>Journal of Applied Crystallography</i> , 2003, 36, 103-108.	4.5	14
53	A new constitutive model for nitrogen austenitic stainless steel. <i>European Physical Journal Special Topics</i> , 2003, 110, 9-14.	0.2	1
54	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 4079-4091.	3.7	27

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55	Title is missing!. Journal of Materials Science, 2001, 36, 1717-1725.	3.7	15
56	Microdiffraction, EDS, and HREM Investigation for Phase Identification With the Electron Microscope. Materials Research Society Symposia Proceedings, 1999, 589, 161.	0.1	1
57	Nanoscale Hardening Precipitation in AlMgSi Alloys: A Transmission Electron Microscopy and Small-Angle Neutron Scattering Study. Journal of Applied Crystallography, 1998, 31, 212-222.	4.5	22
58	Characterization of the intermetallic G-phase in an AISI 329 duplex stainless steel. Journal of Materials Science, 1997, 32, 4533-4540.	3.7	142
59	Interface Between Simple Crystal and Icosahedral-Symmetry Related Crystal. European Physical Journal Special Topics, 1996, 06, C2-135-C2-140.	0.2	1
60	Transformation of the quasicrystalline phase Al-Cr-Fe induced by rapid solidification. Journal of Materials Science, 1995, 30, 2921-2929.	3.7	14
61	A New Example of Non-Crystalline Microstructure in Metallurgy. Journal De Physique, I, 1995, 5, 1-6.	1.2	2
62	Application of microdiffraction to crystal structure identification. Ultramicroscopy, 1994, 53, 305-317.	1.9	27
63	Identification and characterization of a novel intermetallic compound in a Fe-22 wt % Cr-5 wt % Ni-3 wt % Mo-0.03 wt % C duplex stainless steel. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 1277-1286.	0.6	19
64	Approximant and Frank-Kasper phases. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1993, 67, 569-585.	0.6	3
65	Identification by Electron Microdiffraction of Intermetallic Phases in a Duplex Stainless Steel. Proceedings Annual Meeting Electron Microscopy Society of America, 1990, 48, 494-495.	0.0	0
66	Characterization of Precipitation Sequences in Superaustenitic Stainless Steels. Solid State Phenomena, 0, 172-174, 493-498.	0.3	16
67	Phase Transformations in the Al-Si Coating during the Austenitization Step. Solid State Phenomena, 0, 172-174, 784-790.	0.3	34
68	A Study of Dual Phase Steel Damage Evolution with Microstructure. Solid State Phenomena, 0, 172-174, 839-844.	0.3	0