

Randi Holmestad

List of Publications by Year in descending order

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254
papers

5,978
citations

66234

42
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118652

62
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270
all docs

270
docs citations

270
times ranked

4272
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved modelling framework for strength and work hardening of precipitate strengthened Al-Mg-Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142500.	2.6	15
2	Studying GPI zones in Al-Zn-Mg alloys by 4D-STEM. <i>Materials Characterization</i> , 2022, 185, 111675.	1.9	14
3	Effect of Multiply Twinned Ag(0) Nanoparticles on Photocatalytic Properties of TiO ₂ Nanosheets and TiO ₂ Nanostructured Thin Films. <i>Nanomaterials</i> , 2022, 12, 750.	1.9	3
4	AutomAl 6000: Semi-automatic structural labelling of HAADF-STEM images of precipitates in Al-Mg-Si(Cu) alloys. <i>Ultramicroscopy</i> , 2022, 236, 113493.	0.8	3
5	The Effect of Small Additions of Fe and Heavy Deformation on the Precipitation in an Al-1.1Mg-0.5Cu-0.3Si At. Pct Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 3296-3310.	1.1	1
6	Fully resolved strain field of the $\langle 111 \rangle_{\text{Al}}$ precipitate calculated by density functional theory. <i>Computational Materials Science</i> , 2021, 187, 110054.	1.9	9
7	Microstructural and mechanical characterisation of a second generation hybrid metal extrusion & bonding aluminium-steel butt joint. <i>Materials Characterization</i> , 2021, 173, 110761.	3.8	38
8	Atomic structure of solute clusters in Al-Zn-Mg alloys. <i>Acta Materialia</i> , 2021, 205, 116574.	0.8	6
9	Comparing intergranular corrosion in Al-Mg-Si-Cu alloys with and without $\pm \text{Al}(\text{Fe}, \text{Mn}, \text{Cu})\text{Si}$ particles. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 575-584.	0.3	2
10	Quantitative analysis of $\{100\}_{\text{Al}}$ plate/lath- and $\langle 100 \rangle_{\text{Al}}$ rod-shaped precipitates in an aged Al-Cu-Mg-Si alloy using TEM. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1014, 012013.	0.5	3
11	Data on atomic structures of precipitates in an Al-Mg-Cu alloy studied by high resolution transmission electron microscopy and first-principles calculations. <i>Data in Brief</i> , 2021, 34, 106748.	1.9	9
12	Copper enrichment on aluminium surfaces after electropolishing and its effect on electron imaging and diffraction. <i>Materials Characterization</i> , 2021, 172, 110846.	3.3	31
13	Precipitation processes and structural evolutions of various GPB zones and two types of S phases in a cold-rolled Al-Mg-Cu alloy. <i>Materials and Design</i> , 2021, 199, 109425.	1.9	5
14	Precipitation behavior of Al-Si-Cu-Mg(-Fe) alloys by a deformation-semisolid extrusion process. <i>Materials Characterization</i> , 2021, 173, 110863.	2.6	33
15	Linking mechanical properties to precipitate microstructure in three Al-Mg-Si(-Cu) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 807, 140862.	0.8	1
16	Detecting minute amounts of nitrogen in GaNAs thin films using STEM and CBED. <i>Ultramicroscopy</i> , 2021, 231, 113299.	1.9	17
17	On the microstructural origins of improvements in conductivity by heavy deformation and ageing of Al-Mg-Si alloy 6101. <i>Materials Characterization</i> , 2021, 176, 111073.	0.2	0
18	Studying clusters and nano-precipitates in Aluminium alloys using SPED and ADF-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 3090-3094.		

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19	Effect of pre-deformation on age-hardening behaviors in an Al-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141557.	2.6	12
20	Vacancy and solute co-segregated δ -1 interface in over-aged Al-Zn-Mg alloys. <i>Acta Materialia</i> , 2021, 218, 117082.	3.8	14
21	Enhanced Mechanical Properties in 6082 Aluminum Alloy Processed by Cyclic Deformation. <i>Metals</i> , 2021, 11, 1735.	1.0	7
22	Precipitation in an extruded AA7003 aluminium alloy: Observations of δ -xxx-type hardening phases. <i>Materials and Design</i> , 2020, 186, 108204.	3.3	33
23	<i>In situ</i> heating TEM observations of evolving nanoscale Al-Mg-Si-Cu precipitates. <i>Journal of Microscopy</i> , 2020, 279, 143-147.	0.8	11
24	The effect of heavy deformation on the precipitation in an Al-1.3Cu-1.0Mg-0.4Si wt.% alloy. <i>Materials and Design</i> , 2020, 186, 108203.	3.3	16
25	The effect of low Cu additions on precipitate crystal structures in overaged Al-Mg-Si(-Cu) alloys. <i>Materials Characterization</i> , 2020, 160, 110087.	1.9	64
26	Nanocrystal segmentation in scanning precession electron diffraction data. <i>Journal of Microscopy</i> , 2020, 279, 158-167.	0.8	14
27	Grain boundary structures and their correlation with intergranular corrosion in an extruded Al-Mg-Si-Cu alloy. <i>Materials Characterization</i> , 2020, 170, 110695.	1.9	27
28	Detailed investigation of the shearing mechanism of δ " precipitates in Al-Mg-Si alloys. <i>MATEC Web of Conferences</i> , 2020, 326, 01005.	0.1	6
29	Stress Corrosion Cracking in an Extruded Cu-Free Al-Zn-Mg Alloy. <i>Metals</i> , 2020, 10, 1194.	1.0	3
30	Multislice image simulations of sheared needle-like precipitates in an Al-Mg-Si alloy. <i>Journal of Microscopy</i> , 2020, 279, 265-273.	0.8	1
31	Unique hybrid precipitate structures forming in an Al-Cu-Mg-Si alloy. <i>Journal of Alloys and Compounds</i> , 2020, 826, 153977.	2.8	14
32	Scanning Precession Electron Diffraction to aid Aluminum Alloy Development. <i>Microscopy and Microanalysis</i> , 2019, 25, 1920-1921.	0.2	2
33	Controlling Phase Purity and Texture of K _{0.5} Na _{0.5} NbO ₃ Thin Films by Aqueous Chemical Solution Deposition. <i>Materials</i> , 2019, 12, 2042.	1.3	13
34	Characterisation of structural similarities of precipitates in Mg-Zn and Al-Zn-Mg alloys systems. <i>Philosophical Magazine</i> , 2019, 99, 2619-2635.	0.7	24
35	An unreported precipitate orientation relationship in Al-Zn-Mg based alloys. <i>Materials Characterization</i> , 2019, 158, 109958.	1.9	20
36	Effect of Copper Addition on Precipitation Behavior near Grain Boundary in Al-Zn-Mg Alloy. <i>Materials Transactions</i> , 2019, 60, 1688-1696.	0.4	20

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37	Precipitation behavior in an Al-Cu-Mg-Si alloy during ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 767, 138369.	2.6	40
38	Muon Spin Relaxation Study of Solute-Vacancy Interactions During Natural Aging of Al-Mg-Si-Cu Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3446-3451.	1.1	5
39	An analytical framework for modelling intermetallic compound ($\langle \text{IMC} \rangle$) formation and optimising bond strength in aluminium-steel welds. <i>Material Design and Processing Communications</i> , 2019, 1, e57.	0.5	14
40	The Effect of Elastic Strain and Small Plastic Deformation on Tensile Strength of a Lean Al-Cu-Mg-Si Alloy. <i>Metals</i> , 2019, 9, 1276.	1.0	2
41	Nano-scale characterisation of sheared Al_2Si -precipitates in a deformed Al-Mg-Si alloy. <i>Scientific Reports</i> , 2019, 9, 17446.	1.6	25
42	Comparative analysis of the microstructure and mechanical properties of an Al-Cu-Mg-Ag alloy peak-aged at relatively low and high temperatures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012027.	0.3	4
43	In situ DSC investigation into the kinetics and microstructure of dispersoid formation in Al-Mn-Fe-Si(-Mg) alloys. <i>Materials and Design</i> , 2018, 146, 96-107.	3.3	31
44	Orientation relationships of phase transformation in $\text{Al}_{12}\text{Mn}_3\text{Si}$ pseudomorphs after plate-like Al_6Mn precipitate in an AA3004 Al-Mn based alloy. <i>Materials Characterization</i> , 2018, 136, 367-374.	1.9	9
45	In-situ studies of multicrystalline silicon nucleation and growth on Si - and Si_3N_4 coated substrates. <i>Journal of Crystal Growth</i> , 2018, 482, 75-84.	0.7	2
46	2aB_SS2-1 Scanning precession electron diffraction used to determine precipitate microstructure and its evolution during aging in Al-Mg-Si(-Cu) alloys. <i>Microscopy (Oxford, England)</i> , 2018, 67, i17-i17.	0.7	0
47	2aB_SS2-2 The Connection Between Inter-Granular Corrosion Resistance and Precipitate Microstructure in an AA6005A Alloy. <i>Microscopy (Oxford, England)</i> , 2018, 67, i17-i17.	0.7	0
48	LT-01 Structure and interface of the Al_2MgZn_2 precipitate studied using TEM and DFT calculations. <i>Microscopy (Oxford, England)</i> , 2018, 67, i49-i49.	0.7	0
49	Atomic Structures of Precipitates in Al-Cu-Mg-Si Alloys with Small Additions of Other Elements. <i>Advanced Engineering Materials</i> , 2018, 20, 1800125.	1.6	60
50	Orientation relationship between Si_3N_4 and Si in multicrystalline silicon ingots for PV applications. <i>Journal of Crystal Growth</i> , 2018, 495, 14-19.	0.7	1
51	The evolution of precipitate crystal structures in an Al-Mg-Si(-Cu) alloy studied by a combined HAADF-STEM and SPED approach. <i>Materials Characterization</i> , 2018, 142, 458-469.	1.9	68
52	Effect of Copper Addition on the Cluster Formation Behavior of Al-Mg-Si, Al-Zn-Mg, and Al-Mg-Ge in the Natural Aging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5871-5877.	1.1	8
53	The Correlation Between Intergranular Corrosion Resistance and Copper Content in the Precipitate Microstructure in an AA6005A Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5146-5156.	1.1	14
54	Precipitates in aluminium alloys. <i>Advances in Physics: X</i> , 2018, 3, 1479984.	1.5	28

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55	Lattice rotations in precipitate free zones in an Al-Mg-Si alloy. <i>Materials Characterization</i> , 2018, 144, 522-531.	1.9	27
56	Thermal stability of the lightweight 2099 Al-Cu-Li alloy: Tensile tests and microstructural investigations after overaging. <i>Materials and Design</i> , 2017, 119, 54-64.	3.3	65
57	Atomic-resolution chemical mapping of ordered precipitates in Al alloys using energy-dispersive X-ray spectroscopy. <i>Micron</i> , 2017, 96, 103-111.	1.1	65
58	Atomistic details of precipitates in lean Al-Mg-Si alloys with trace additions of Ag and Ge studied by HAADF-STEM and DFT. <i>Philosophical Magazine</i> , 2017, 97, 851-866.	0.7	23
59	Optimising multi-frame ADF-STEM for high-precision atomic-resolution strain mapping. <i>Ultramicroscopy</i> , 2017, 179, 57-62.	0.8	46
60	Atomap: a new software tool for the automated analysis of atomic resolution images using two-dimensional Gaussian fitting. <i>Advanced Structural and Chemical Imaging</i> , 2017, 3, 9.	4.0	159
61	Quantitative strain analysis of InAs/GaAs quantum dot materials. <i>Scientific Reports</i> , 2017, 7, 45376.	1.6	17
62	The effects and behaviour of Li and Cu alloying agents in lean Al-Mg-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017, 699, 235-242.	2.8	30
63	Magnetic domain configuration of (111)-oriented LaFeO ₃ epitaxial thin films. <i>APL Materials</i> , 2017, 5, .	2.2	7
64	Effects of overaging on microstructure and tensile properties of the 2055 Al-Cu-Li-Ag alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 221-231.	2.6	36
65	Bandgap measurement of high refractive index materials by off-axis EELS. <i>Ultramicroscopy</i> , 2017, 182, 92-98.	0.8	3
66	Atomap - Automated Analysis of Atomic Resolution STEM Images. <i>Microscopy and Microanalysis</i> , 2017, 23, 426-427.	0.2	1
67	Scanning Precession Electron Diffraction Study of Hybrid Precipitates in a 6xxx Series Aluminium Alloy. <i>Microscopy and Microanalysis</i> , 2017, 23, 114-115.	0.2	0
68	Strategy for reliable strain measurement in InAs/GaAs materials from high-resolution Z-contrast STEM images. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012021.	0.3	2
69	Precipitate statistics in an Al-Mg-Si-Cu alloy from scanning precession electron diffraction data. <i>Journal of Physics: Conference Series</i> , 2017, 902, 012022.	0.3	4
70	Modeling over-ageing in Al-Mg-Si alloys by a multi-phase CALPHAD-coupled Kampmann-Wagner Numerical model. <i>Acta Materialia</i> , 2017, 122, 178-186.	3.8	65
71	Mapping the Chemistry Within, and the Strain Around, Al-alloy Precipitates at Atomic Resolution by Multi-frame Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 384-385.	0.2	0
72	Methodology to Improve Strain Measurement in III-V Semiconductors Materials. <i>Microscopy and Microanalysis</i> , 2017, 23, 1416-1417.	0.2	0

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73	Extra Electron Diffraction Spots Caused by Fine Precipitates Formed at the Early Stage of Aging in Al-Mg-X (X=Si, Ge, Zn)-Cu Alloys. <i>Materials Transactions</i> , 2017, 58, 167-175.	0.4	22
74	Effect of copper on fine precipitates at the early stage of aging in Al-Mg-X (X=Si, Ge, Zn) alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2017, 67, 186-192.	0.1	2
75	Assessing electron beam sensitivity for SrTiO ₃ and La _{0.7} Sr _{0.3} MnO ₃ using electron energy loss spectroscopy. <i>Ultramicroscopy</i> , 2016, 169, 98-106.	0.8	17
76	The effect of holding time on the size distribution of \hat{I}^2 -Si ₃ N ₄ particles and nucleation undercooling in multicrystalline silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 822-826.	0.8	4
77	Thermal migration of alloying agents in aluminium. <i>Materials Research Express</i> , 2016, 3, 116501.	0.8	3
78	Strengthening mechanisms in ultrafine grained Al-Mg-Si alloy processed by hydrostatic extrusion - Influence of ageing temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 447-458.	2.6	20
79	Precipitation in a mixed Al-Cu-Mg/Al-Zn-Mg alloy system. <i>Journal of Alloys and Compounds</i> , 2016, 684, 195-200.	2.8	22
80	Concurrent magnetic and structural reconstructions at the interface of (111)-oriented L a S r Mn	1.1	26
81	Elemental electron energy loss mapping of a precipitate in a multi-component aluminium alloy. <i>Micron</i> , 2016, 86, 22-29.	1.1	5
82	Compositional and structural properties of pulsed laser-deposited ZnS:Cr films. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	1
83	White light emitting silicon nano-crystals-polymeric hybrid films prepared by single batch solution based method. <i>Thin Solid Films</i> , 2016, 603, 126-133.	0.8	5
84	Precipitation in an Al-Mg-Cu alloy and the effect of a low amount of Ag. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 658, 91-98.	2.6	36
85	Accurately measured precipitate-matrix misfit in an Al-Mg-Si alloy by electron microscopy. <i>Scripta Materialia</i> , 2016, 118, 5-8.	2.6	43
86	Effect of Polar (111)-Oriented SrTiO ₃ on Initial Perovskite Growth. <i>Crystal Growth and Design</i> , 2016, 16, 2357-2362.	1.4	32
87	Cu atoms suppress misfit dislocations at the \hat{I}^2 /Al interface in Al-Mg-Si alloys. <i>Scripta Materialia</i> , 2016, 110, 6-9.	2.6	35
88	Solute-Vacancy Clustering In Al-Mg-Si Alloys Studied By Muon Spin Relaxation Technique. <i>Archives of Metallurgy and Materials</i> , 2015, 60, 925-929.	0.6	6
89	Structural investigation of epitaxial LaFeO ₃ thin films on (111) oriented SrTiO ₃ by transmission electron microscopy. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012002.	0.3	9
90	The Effect of Cu and Ge Additions on Strength and Precipitation in a lean 6xxx Aluminium Alloy. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012028.	0.3	1

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91	Materials Development Aided by Atomic-Resolution Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 1515-1516.	0.2	0
92	A hybrid aluminium alloy and its zoo of interacting nano-precipitates. <i>Materials Characterization</i> , 2015, 106, 226-231.	1.9	16
93	Effects of Germanium, Copper, and Silver Substitutions on Hardness and Microstructure in Lean Al-Mg-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4369-4379.	1.1	42
94	Structural phases driven by oxygen vacancies at the La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ hetero-interface. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	42
95	Combining HAADF STEM tomography and electron diffraction for studies of $\hat{1}\pm$ -Al(Fe,Mn)Si dispersoids in 3xxx aluminium alloys. <i>Philosophical Magazine</i> , 2015, 95, 744-758.	0.7	12
96	Structural modifications and electron beam damage in aluminium alloy precipitate $\hat{1}$ ' \hat{a} "AL ₂ >. <i>Philosophical Magazine</i> , 2015, 95, 3524-3534.	0.7	14
97	$\langle i \rangle \hat{1} \frac{1}{4} \langle /i \rangle$ SR study of Al-0.67%Mg-0.77%Si alloys. <i>Journal of Physics: Conference Series</i> , 2014, 551, 012031.	0.3	7
98	Clustering and Vacancy Behavior in High- and Low-Solute Al-Mg-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5777-5781.	1.1	21
99	Structural investigation of precipitates with Cu and Zn atomic columns in Al-Mg-Si alloys by aberration-corrected HAADF-STEM. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012030.	0.3	1
100	Detailed atomistic insight into the $\hat{1} \hat{2} \hat{a} \hat{e} 3$ phase in Al \hat{a} "Mg \hat{a} "Si alloys. <i>Acta Materialia</i> , 2014, 69, 126-134.	3.8	156
101	Atomic-resolution electron energy loss studies of precipitates in an Al \hat{a} "Mg \hat{a} "Si \hat{a} "Cu \hat{a} "Ag alloy. <i>Scripta Materialia</i> , 2014, 74, 92-95.	2.6	26
102	Improving Thermal Stability in Cu-Containing Al-Mg-Si Alloys by Precipitate Optimization. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 2938-2949.	1.1	76
103	Quantum confinement of PbSe nanocrystals embedded in a spacer ZnSe matrix for solar cell applications. <i>Solar Energy</i> , 2014, 106, 38-42.	2.9	4
104	Aberration-corrected HAADF-STEM investigations of precipitate structures in Al \hat{a} "Mg \hat{a} "Si alloys with low Cu additions. <i>Philosophical Magazine</i> , 2014, 94, 520-531.	0.7	70
105	The effect of Zn on precipitation in Al \hat{a} "Mg \hat{a} "Si alloys. <i>Philosophical Magazine</i> , 2014, 94, 2410-2425.	0.7	54
106	Mackay icosahedron explaining orientation relationship of dispersoids in aluminium alloys. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 888-896.	0.5	7
107	Composition and orientation relationships of constituent particles in 3xxx aluminum alloys. <i>Philosophical Magazine</i> , 2014, 94, 556-568.	0.7	24
108	HAADF-STEM and DFT investigations of the Zn-containing $\hat{1} \hat{2} \hat{a} \hat{e} 3$ phase in Al \hat{a} "Mg \hat{a} "Si alloys. <i>Acta Materialia</i> , 2014, 78, 245-253.	3.8	52

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109	Phase stabilization principle and precipitate-host lattice influences for Al-Mg-Si-Cu alloy precipitates. <i>Journal of Materials Science</i> , 2014, 49, 6413-6426.	1.7	34
110	3D modelling of $\hat{\Gamma}^2$ in Al-Mg-Si: Towards an atomistic level ab initio based examination of a full precipitate enclosed in a host lattice. <i>Computational Materials Science</i> , 2014, 91, 200-210.	1.4	16
111	The effects of quench rate and pre-deformation on precipitation hardening in Al-Mg-Si alloys with different Cu amounts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 609, 72-79.	2.6	27
112	Using (S)TEM Techniques to Study Energy Related Materials at the Nanoscale. <i>Microscopy and Microanalysis</i> , 2014, 20, 414-415.	0.2	0
113	In-plane structural order of domain engineered $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films. <i>Philosophical Magazine</i> , 2013, 93, 1549-1562.	0.7	9
114	Surface stability of epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films on (111)-oriented SrTiO_3 . <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	31
115	Quantum confinement in two dimensional layers of PbSe/ZnSe multiple quantum well structures. <i>Applied Physics Letters</i> , 2013, 102, 242110.	1.5	7
116	The Effects of Low Cu Additions and Predeformation on the Precipitation in a 6060 Al-Mg-Si Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4124-4135.	1.1	67
117	Ab initio based interface modeling for fully coherent precipitates of arbitrary size in Al alloys. <i>Computational Materials Science</i> , 2013, 72, 146-157.	1.4	12
118	Dispersoid strengthening in AA3xxx alloys with varying Mn and Si content during annealing at low temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 567, 21-28.	2.6	111
119	How calcium prevents precipitation hardening in Al-Mg-Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 575, 241-247.	2.6	9
120	Interface energy determination for the fully coherent $\hat{\Gamma}^3$ phase in Al-Mg-Si: making a case for a first principles based hybrid atomistic modelling scheme. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 085018.	0.8	8
121	Solution based synthesis of simple fcc Si nano-crystals under ambient conditions. <i>Dalton Transactions</i> , 2013, 42, 2700.	1.6	8
122	Muon kinetics in heat treated Al (Mg)(Si) alloys. <i>Acta Materialia</i> , 2013, 61, 6082-6092.	3.8	19
123	Effects of Cu and Ag additions on age-hardening behavior during multi-step aging in Al-Mg-Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 154-162.	2.6	57
124	Crystalline $\text{Al}_{1-x}\text{Ti}_x$ phases in the hydrogen cycled $\text{NaAlH}_4 + 0.02\text{TiCl}_3$ system. <i>Philosophical Magazine</i> , 2013, 93, 1080-1094.	0.7	6
125	3D Hybrid Atomistic Modeling of $\hat{\Gamma}^3$ in Al-Mg-Si: Putting the Full Coherency of a Needle Shaped Precipitate to the Test. , 2013, , 189-194.		0
126	Probing defects in Al-Mg-Si alloys using muon spin relaxation. <i>Physical Review B</i> , 2012, 86, .	1.1	21

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127	Characterization and structure of precipitates in 6xxx Aluminium Alloys. Journal of Physics: Conference Series, 2012, 371, 012082.	0.3	10
128	Effect of room temperature storage time on precipitation in Al-Mg-Si-Cu alloys with different Mg/Si ratios. International Journal of Materials Research, 2012, 103, 948-954.	0.1	33
129	Quantitative HAADF-STEM on heterostructured GaAs nanowires. Journal of Physics: Conference Series, 2012, 371, 012056.	0.3	1
130	Quantitative HAADF STEM study of β' -like precipitates in an Al-Mg-Ge alloy. Journal of Physics: Conference Series, 2012, 371, 012015.	0.3	1
131	Quantitative STEM Study of the β' -Ge Phase in Al-Mg-Ge Alloys. Microscopy and Microanalysis, 2012, 18, 360-361.	0.2	0
132	Domain relaxation in La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ thin films due to declamping. Microscopy and Microanalysis, 2012, 18, 1868-1869.	0.2	0
133	Scanning transmission electron microscopy investigation of an Al-Mg-Si-Cu alloy. Philosophical Magazine, 2012, 92, 3983-3993.	0.7	9
134	Hydrogen Absorption Kinetics of the Transition-Metal-Chloride-Enhanced NaAlH ₄ System. Journal of Physical Chemistry C, 2012, 116, 14205-14217.	1.5	28
135	The location of Ti containing phases after the completion of the NaAlH ₄ +xTiCl ₃ milling process. Journal of Alloys and Compounds, 2012, 513, 597-605.	2.8	18
136	Functionality of the nanoscopic crystalline Al/amorphous Al ₅₀ Ti ₅₀ surface embedded composite observed in the NaAlH ₄ +xTiCl ₃ system after milling. Journal of Alloys and Compounds, 2012, 514, 163-169.	2.8	14
137	Amorphous Al _{1-x} Ti _x , Al _{1-x} V _x , and Al _{1-x} Fe _x phases in the hydrogen cycled TiCl ₃ , VCl ₃ and FeCl ₃ enhanced NaAlH ₄ systems. Journal of Alloys and Compounds, 2012, 521, 112-120.	2.8	15
138	A structural review of nanoscopic Al _{1-x} TM _x phase formation in the TMCl _n enhanced NaAlH ₄ system. Journal of Alloys and Compounds, 2012, 527, 16-24.	2.8	12
139	Epitaxial relationships of ZnO nanostructures grown by Au-assisted pulsed laser deposition on c- and a-plane sapphire. Journal of Crystal Growth, 2012, 355, 52-58.	0.7	15
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