

Xiao-Zhou Liao

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1708212/xiao-zhou-liao-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

289
papers

16,893
citations

67
h-index

122
g-index

307
ext. papers

19,630
ext. citations

7.2
avg, IF

6.74
L-index

#	Paper	IF	Citations
289	Giant room temperature compression and bending in ferroelectric oxide pillars.. <i>Nature Communications</i> , 2022 , 13, 335	17.4	4
288	Evolution of microstructure and mechanical properties in 2205 duplex stainless steels during additive manufacturing and heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 835, 142695	5.3	1
287	Mechanical properties and deformation behaviours of submicron-sized Cu ₃ Al single crystals. <i>Acta Materialia</i> , 2022 , 223, 117460	8.4	3
286	Room-temperature-deformation-induced chemical short-range ordering in a supersaturated ultrafine-grained Al-Zn alloy. <i>Scripta Materialia</i> , 2022 , 210, 114423	5.6	0
285	Quantifying the Influence of Inert Shell Coating on Luminescence Brightness of Lanthanide Upconversion Nanoparticles. <i>ACS Photonics</i> , 2022 , 9, 758-764	6.3	1
284	Cation vacancy enriched nickel phosphide for efficient electrosynthesis of hydrogen peroxides.. <i>Advanced Materials</i> , 2022 , e2106541	24	19
283	On the microstructure and texture evolution in 17-4 PH stainless steel during laser powder bed fusion: Towards textural design. <i>Journal of Materials Science and Technology</i> , 2022 , 117, 183-195	9.1	1
282	Uniting tensile ductility with ultrahigh strength via composition undulation.. <i>Nature</i> , 2022 , 604, 273-279	50.4	2
281	On the pitting corrosion of 2205 duplex stainless steel produced by laser powder bed fusion additive manufacturing in the as-built and post-processed conditions. <i>Materials and Design</i> , 2021 , 212, 110260	8.1	4
280	Deformation-induced crystalline-to-amorphous phase transformation in a CrMnFeCoNi high-entropy alloy. <i>Science Advances</i> , 2021 , 7,	14.3	26
279	Direct observation of nanoscale dynamics of ferroelectric degradation. <i>Nature Communications</i> , 2021 , 12, 2095	17.4	7
278	Correlation and Improvement of Bimetallic Electronegativity on Metal-Organic Frameworks for Electrocatalytic Water Oxidation. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100055	1.6	1
277	Effects of nanostructural hierarchy on the hardness and thermal stability of an austenitic stainless steel. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 376-384	5.5	7
276	A game-changing design of low-cost, large-size porous cocatalysts decorated by ultra-small photocatalysts for highly efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119923	21.8	17
275	Atomic coordinates and polarization map around a pair of 1/2 a [01 1] dislocation cores produced by plastic deformation in relaxor ferroelectric PIN _{0.5} BMN _{0.5} BT. <i>Journal of Applied Physics</i> , 2021 , 129, 234101	2.5	0
274	Ultrahigh specific strength in a magnesium alloy strengthened by spinodal decomposition. <i>Science Advances</i> , 2021 , 7,	14.3	49
273	3D characterization of microstructural evolution and variant selection in additively manufactured Ti-6Al-4 V. <i>Journal of Materials Science</i> , 2021 , 56, 14763-14782	4.3	6

272	Composition-dependent dynamic precipitation and grain refinement in Al-Si system under high-pressure torsion. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 199-208	9.1	4
271	Size-dependent deformation behavior of dual-phase, nanostructured CrCoNi medium-entropy alloy. <i>Science China Materials</i> , 2021 , 64, 209-222	7.1	8
270	Effects of elemental segregation on microstructural evolution and local mechanical properties in a dynamically deformed CrMnFeCoNi high entropy alloy. <i>Scripta Materialia</i> , 2021 , 190, 80-85	5.6	6
269	Confined Ru Nanocatalysts on Surface to Enhance Ammonia Synthesis: An In situ ETEM Study. <i>ChemCatChem</i> , 2021 , 13, 534-538	5.2	3
268	Enhanced solar-driven benzaldehyde oxidation with simultaneous hydrogen production on Pt single-atom catalyst. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119759	21.8	12
267	Introducing transformation twins in titanium alloys: an evolution of β variants during additive manufacturing. <i>Materials Research Letters</i> , 2021 , 9, 119-126	7.4	8
266	Key roles of particles in grain refinement and material strengthening for an aluminum matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140414	5.3	9
265	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. <i>Energy and Environmental Science</i> , 2021 , 14, 3502-3509	35.4	14
264	Manipulating ferroelectric behaviors via electron-beam induced crystalline defects. <i>Nanoscale</i> , 2021 , 13, 14330-14336	7.7	1
263	Tailoring Electronegativity of Bimetallic Ni/Fe Metal-Organic Framework Nanosheets for Electrocatalytic Water Oxidation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1967-1975	5.6	8
262	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO ceramics. <i>Nature Communications</i> , 2021 , 12, 881	17.4	25
261	Unraveling dual phase transformations in a CrCoNi medium-entropy alloy. <i>Acta Materialia</i> , 2021 , 215, 117112	8.4	6
260	Phase transformation pathways in Ti-6Al-4V manufactured via electron beam powder bed fusion. <i>Acta Materialia</i> , 2021 , 215, 117131	8.4	5
259	Ultra-strong and thermally stable nanocrystalline CrCoNi alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 106, 1-1	9.1	6
258	Grain size dependent microstructure and texture evolution during dynamic deformation of nanocrystalline face-centered cubic materials. <i>Acta Materialia</i> , 2021 , 216, 117088	8.4	2
257	Microstructure-property gradients in Ni-based superalloy (Inconel 738) additively manufactured via electron beam powder bed fusion. <i>Additive Manufacturing</i> , 2021 , 46, 102121	6.1	2
256	Formation and 3D morphology of interconnected β microstructures in additively manufactured Ti-6Al-4V. <i>Materialia</i> , 2021 , 20, 101201	3.2	3
255	Five-parameter characterization of intervariant boundaries in additively manufactured Ti-6Al-4V. <i>Materials and Design</i> , 2020 , 196, 109177	8.1	14

254	Thermoelectrics: Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures (Adv. Energy Mater. 41/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070171	21.8	3
253	Catalytic activity atlas of ternary CoFeV metal oxides for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15951-15961	13	14
252	Microstructural softening induced adiabatic shear banding in Ti-23Nb-0.7Ta-2Zr-O gum metal. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 31-39	9.1	12
251	Hierarchically porous carbon nanofibers embedded with cobalt nanoparticles for efficient H ₂ O ₂ detection on multiple sensor platforms. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128243	8.5	25
250	Multimodal γ precipitation in Inconel-738 Ni-based superalloy during electron-beam powder bed fusion additive manufacturing. <i>Journal of Materials Science</i> , 2020 , 55, 13342-13350	4.3	10
249	The on-demand engineering of metal-doped porous carbon nanofibers as efficient bifunctional oxygen catalysts for high-performance flexible Zn air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7297-7308	13	28
248	Nanostructuring as a route to achieve ultra-strong high- and medium-entropy alloys with high creep resistance. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154656	5.7	13
247	Electronic Modulation of Nickel Disulfide toward Efficient Water Electrolysis. <i>Small</i> , 2020 , 16, e1905885	11	31
246	Phase transformation and structural evolution in a Ti-5at.% Al alloy induced by cold-rolling. <i>Journal of Materials Science and Technology</i> , 2020 , 49, 211-223	9.1	12
245	Effect of Ion Irradiation Introduced by Focused Ion-Beam Milling on the Mechanical Behaviour of Sub-Micron-Sized Samples. <i>Scientific Reports</i> , 2020 , 10, 10324	4.9	17
244	Effect of grain size on fatigue cracking at twin boundaries in a CoCrFeMnNi high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2020 , 39, 1-6	9.1	26
243	Thiocyanate-Modified Silver Nanofoam for Efficient CO ₂ Reduction to CO. <i>ACS Catalysis</i> , 2020 , 10, 1444-1453	15.3	29
242	Effects of temperature and alloying content on the phase transformation and {101} twinning in Zr during rolling. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 76-80	9.1	9
241	Mechanical behavior, deformation mechanism and microstructure evolutions of ultrafine-grained Al during recovery via annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138706	5.3	10
240	Effect of scanning strategy on variant selection in additively manufactured Ti-6Al-4V. <i>Additive Manufacturing</i> , 2020 , 36, 101581	6.1	7
239	Giant tuning of ferroelectricity in single crystals by thickness engineering. <i>Science Advances</i> , 2020 , 6,	14.3	19
238	3D electron backscatter diffraction study of β phase morphology in additively manufactured Ti-6Al-4V. <i>Ultramicroscopy</i> , 2020 , 218, 113073	3.1	14
237	Effect of cyclic rapid thermal loadings on the microstructural evolution of a CrMnFeCoNi high-entropy alloy manufactured by selective laser melting. <i>Acta Materialia</i> , 2020 , 196, 609-625	8.4	42

236	Improvement of flow strength and scratch resistance of Ti/Cu nanocrystalline metal multilayer thin films by tailoring layer thickness and modulation ratio. <i>Surface and Coatings Technology</i> , 2020 , 404, 126461	4.4	3
235	Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures. <i>Advanced Energy Materials</i> , 2020 , 10, 2000757	21.8	33
234	Constructing phase boundary in AgNbO antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. <i>Nature Communications</i> , 2020 , 11, 4824	17.4	97
233	Intragranular glass/crystal conjugated particles in strip cast Nd-Fe-B flakes. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 495, 165863	2.8	1
232	Deformation Twinning and Detwinning in Face-Centered Cubic Metallic Materials. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900479	3.5	8
231	Cooperation of Ni and CaO at Interface for CO ₂ Reforming of CH ₄ : A Combined Theoretical and Experimental Study. <i>ACS Catalysis</i> , 2019 , 9, 10060-10069	13.1	35
230	Real-time observation of stress-induced domain evolution in a [011]Pb(Pb)-PMN-PT relaxor ferroelectric single crystal. <i>Acta Materialia</i> , 2019 , 175, 436-444	8.4	8
229	A core-sheath holey graphene/graphite composite fiber intercalated with MoS ₂ nanosheets for high-performance fiber supercapacitors. <i>Electrochimica Acta</i> , 2019 , 305, 493-501	6.7	36
228	Strengthening mechanisms in an ultrafine-grained AlZnMgCu alloy processed by high pressure torsion at different temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 752, 223-232	5.3	21
227	Room-temperature superplasticity in Au nanowires and their atomistic mechanisms. <i>Nanoscale</i> , 2019 , 11, 8727-8735	7.7	7
226	Big to Small: Ultrafine Mo C Particles Derived from Giant Polyoxomolybdate Clusters for Hydrogen Evolution Reaction. <i>Small</i> , 2019 , 15, e1900358	11	35
225	Graded Microstructure of Additive Manufactured Ti-6Al-4V via Electron Beam Melting. <i>Microscopy and Microanalysis</i> , 2019 , 25, 498-499	0.5	
224	Unravelling the effects of layered supports on Ru nanoparticles for enhancing N ₂ reduction in photocatalytic ammonia synthesis. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118026	21.8	22
223	Selective laser melting enabling the hierarchically heterogeneous microstructure and excellent mechanical properties in an interstitial solute strengthened high entropy alloy. <i>Materials Research Letters</i> , 2019 , 7, 453-459	7.4	68
222	Atomistic Mechanism of Stress-Induced Combined Slip and Diffusion in Sub-5 Nanometer-Sized Ag Nanowires. <i>ACS Nano</i> , 2019 , 13, 8708-8716	16.7	22
221	Simultaneously enhancing strength and ductility of a high-entropy alloy via gradient hierarchical microstructures. <i>International Journal of Plasticity</i> , 2019 , 123, 178-195	7.6	90
220	Effect of Cyclic Thermal Loadings on the Microstructural Evolution of a Cantor Alloy in 3D Printing Processes. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2568-2569	0.5	1
219	Ultrathin nickel boride nanosheets anchored on functionalized carbon nanotubes as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 764-774	13	75

218	Unique defect evolution during the plastic deformation of a metal matrix composite. <i>Scripta Materialia</i> , 2019 , 162, 316-320	5.6	31
217	Ultralow-platinum-loading nanocarbon hybrids for highly sensitive hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 304-311	8.5	20
216	Understanding formation of Mg-depletion zones in Al-Mg alloys under high pressure torsion. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 858-864	9.1	10
215	Cobalt Nanoparticles Confined in Carbon Cages Derived from Zeolitic Imidazolate Frameworks as Efficient Oxygen Electrocatalysts for Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 355-363	5.6	10
214	Excellent ductility and serration feature of metastable CoCrFeNi high-entropy alloy at extremely low temperatures. <i>Science China Materials</i> , 2019 , 62, 853-863	7.1	70
213	Dynamic precipitation, segregation and strengthening of an Al-Zn-Mg-Cu alloy (AA7075) processed by high-pressure torsion. <i>Acta Materialia</i> , 2019 , 162, 19-32	8.4	102
212	Cryogenic-deformation-induced phase transformation in an FeCoCrNi high-entropy alloy. <i>Materials Research Letters</i> , 2018 , 6, 236-243	7.4	115
211	Stress-induced reversible and irreversible ferroelectric domain switching. <i>Applied Physics Letters</i> , 2018 , 112, 152901	3.4	7
210	In situ mechanical resonance behaviour of pristine and defective zinc blende GaAs nanowires. <i>Nanoscale</i> , 2018 , 10, 2588-2595	7.7	12
209	Ultrahigh piezoelectricity in ferroelectric ceramics by design. <i>Nature Materials</i> , 2018 , 17, 349-354	27	513
208	Milk powder-derived bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. <i>Energy Storage Materials</i> , 2018 , 11, 134-143	19.4	33
207	Structural evolutions of metallic materials processed by severe plastic deformation. <i>Materials Science and Engineering Reports</i> , 2018 , 133, 1-59	30.9	231
206	Size effect for achieving high mechanical performance body-centered cubic metals and alloys. <i>Science China Materials</i> , 2018 , 61, 1495-1516	7.1	9
205	Nano-RuO ₂ -Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. <i>Small</i> , 2018 , 14, e1800582	11	85
204	Confinement Impact for the Dynamics of Supported Metal Nanocatalyst. <i>Small</i> , 2018 , 14, e1801586	11	3
203	Opposite grain size dependence of strain rate sensitivity of copper at low vs high strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 738, 430-438	5.3	27
202	Improving the strength and retaining the ductility of microstructural graded coarse-grained materials with low stacking fault energy. <i>Materials and Design</i> , 2018 , 160, 21-33	8.1	13
201	Hierarchical microstructure and strengthening mechanisms of a CoCrFeNiMn high entropy alloy additively manufactured by selective laser melting. <i>Scripta Materialia</i> , 2018 , 154, 20-24	5.6	244

200	Facilitation of Ferroelectric Switching via Mechanical Manipulation of Hierarchical Nanoscale Domain Structures. <i>Physical Review Letters</i> , 2017 , 118, 017601	7.4	31
199	Tuning Hydrogen and Carbon Nanotube Production from Phenol Steam Reforming on Ni/Fe-Based Nanocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2098-2108	8.3	14
198	Dual mechanisms of grain refinement in a FeCoCrNi high-entropy alloy processed by high-pressure torsion. <i>Scientific Reports</i> , 2017 , 7, 46720	4.9	46
197	Effect of strain rate on the mechanical properties of a gum metal with various microstructures. <i>Acta Materialia</i> , 2017 , 132, 193-208	8.4	16
196	In-situ investigation of dislocation tangle–untangle processes in small-sized body-centered cubic Nb single crystals. <i>Materials Letters</i> , 2017 , 198, 16-18	3.3	3
195	Effect of sample orientation and initial microstructures on the dynamic recrystallization of a Magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 691, 150-154	5.3	19
194	Atomic-scale understanding of stress-induced phase transformation in cold-rolled Hf. <i>Acta Materialia</i> , 2017 , 131, 271-279	8.4	72
193	On the wurtzite to tetragonal phase transformation in ZnO nanowires. <i>Nanotechnology</i> , 2017 , 28, 165705-4	5.4	9
192	In-situ high-resolution transmission electron microscopy investigation of grain boundary dislocation activities in a nanocrystalline CrMnFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 802-807	5.7	34
191	Mechanical behaviors of nanowires. <i>Applied Physics Reviews</i> , 2017 , 4, 031104	17.3	39
190	Hydrogen evolution reaction activity of nickel phosphide is highly sensitive to electrolyte pH. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20390-20397	13	71
189	Kinetics of Domain Switching by Mechanical and Electrical Stimulation in Relaxor-Based Ferroelectrics. <i>Physical Review Applied</i> , 2017 , 8,	4.3	11
188	Spontaneous formation of core-shell GaAsP nanowires with enhanced electrical conductivity 2016 , 463-465		
187	Manipulation of Nanoscale Domain Switching Using an Electron Beam with Omnidirectional Electric Field Distribution. <i>Physical Review Letters</i> , 2016 , 117, 027601	7.4	28
186	A double strengthened surface layer fabricated by nitro-chromizing on carbon steel. <i>Surface and Coatings Technology</i> , 2016 , 298, 83-92	4.4	8
185	Effect of equal channel angular pressing on the thermal-annealing-induced microstructure and texture evolution of cold-rolled copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 186-192	5.3	20
184	Correlation between hardness and shear banding of metallic glasses under nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 38-42	5.3	12
183	A detailed appraisal of the stress exponent used for characterizing creep behavior in metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 654, 53-59	5.3	15

182	Precipitation processes in Al-Cu-Mg-Sn and Al-Cu-Mg-Sn-Ag. <i>Materials and Design</i> , 2016 , 96, 385-391	8.1	15
181	Effect of a High Density of Stacking Faults on the Young's Modulus of GaAs Nanowires. <i>Nano Letters</i> , 2016 , 16, 1911-6	11.5	48
180	Effect of triple junctions on deformation twinning in a nanostructured Cu-Zn alloy: A statistical study using transmission Kikuchi diffraction. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1501-1506	3	1
179	Mechanical Behaviors of Semiconductor Nanowires. <i>Semiconductors and Semimetals</i> , 2016 , 94, 109-158	0.6	4
178	Fracture mechanism of an Al/AlN/CrAlN gradient coating on nitrogen implanted magnesium alloy. <i>Surface and Coatings Technology</i> , 2016 , 302, 126-130	4.4	7
177	The effect of grain size on the annealing-induced phase transformation in an Al _{0.3} CoCrFeNi high entropy alloy. <i>Materials and Design</i> , 2016 , 105, 381-385	8.1	51
176	Deformation twinning in hexagonal materials. <i>MRS Bulletin</i> , 2016 , 41, 314-319	3.2	54
175	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. <i>Acta Materialia</i> , 2016 , 109, 300-313	8.4	48
174	Thermal stability, dynamic mechanical analysis and nanoindentation behavior of FeSiB(Cu) amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 480-499	5.3	34
173	Determination of Young's Modulus of Ultrathin Nanomaterials. <i>Nano Letters</i> , 2015 , 15, 5279-83	11.5	35
172	Influence of Al content on the strain-hardening behavior of aged low density FeMnAl steels with high Al content. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 187-191	5.3	50
171	Hardening of an Al _{0.3} CoCrFeNi high entropy alloy via high-pressure torsion and thermal annealing. <i>Materials Letters</i> , 2015 , 151, 126-129	3.3	106
170	Inhomogeneous creep deformation in metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 57-60	5.3	15
169	In-situ synthesis of Ag nanoparticles by electron beam irradiation. <i>Materials Characterization</i> , 2015 , 110, 1-4	3.9	14
168	Spontaneous formation of core-shell GaAsP nanowires and their enhanced electrical conductivity. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1745-1750	7.1	14
167	Atomic-scale investigation of interface-facilitated deformation twinning in severely deformed Ag-Cu nanolamellar composites. <i>Applied Physics Letters</i> , 2015 , 107, 011901	3.4	23
166	Mechanisms for enhanced plasticity in magnesium alloys. <i>Acta Materialia</i> , 2015 , 82, 344-355	8.4	101
165	Effects of loading misalignment and tapering angle on the measured mechanical properties of nanowires. <i>Nanotechnology</i> , 2015 , 26, 435704	3.4	6

164	Grain boundary formation by remnant dislocations from the de-twinning of thin nano-twins. <i>Scripta Materialia</i> , 2015 , 100, 98-101	5.6	51
163	Elemental diffusion during the droplet epitaxy growth of In(Ga)As/GaAs(001) quantum dots by metal-organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2014 , 104, 022108	3.4	3
162	Improving the plasticity of bulk metallic glasses via pre-compression below the yield stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 602, 68-76	5.3	23
161	Characterizing deformed ultrafine-grained and nanocrystalline materials using transmission Kikuchi diffraction in a scanning electron microscope. <i>Acta Materialia</i> , 2014 , 62, 69-80	8.4	125
160	Strength, grain refinement and solute nanostructures of an AlMgSi alloy (AA6060) processed by high-pressure torsion. <i>Acta Materialia</i> , 2014 , 63, 169-179	8.4	103
159	Concurrent microstructural evolution of ferrite and austenite in a duplex stainless steel processed by high-pressure torsion. <i>Acta Materialia</i> , 2014 , 63, 16-29	8.4	66
158	Microstructure and texture analysis of hydride precipitation in Zircaloy-4 materials by electron microscopy and neutron diffraction. <i>Journal of Applied Crystallography</i> , 2014 , 47, 303-315	3.8	25
157	Phases in pure hafnium. <i>Philosophical Magazine Letters</i> , 2014 , 94, 370-376	1	8
156	Shear banding in commercial pure titanium deformed by dynamic compression. <i>Acta Materialia</i> , 2014 , 79, 47-58	8.4	72
155	Preface to the special issue on ultrafine-grained materials. <i>Journal of Materials Science</i> , 2014 , 49, 6485-6486	3.6	3
154	Ultrahigh-strength submicron-sized metallic glass wires. <i>Scripta Materialia</i> , 2014 , 84-85, 27-30	5.6	14
153	Deformation-induced phase transformation in 4HfC nanopillars. <i>Acta Materialia</i> , 2014 , 80, 392-399	8.4	12
152	Atomic-scale observation of parallel development of super elasticity and reversible plasticity in GaAs nanowires. <i>Applied Physics Letters</i> , 2014 , 104, 021904	3.4	22
151	Martensitic Phase Transformation and Deformation Behavior of FeMnAl Twinning-Induced Plasticity Steel during High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2014 , 16, 927-932	3.5	9
150	Twinning via the motion of incoherent twin boundaries nucleated at grain boundaries in a nanocrystalline Cu alloy. <i>Scripta Materialia</i> , 2014 , 72-73, 35-38	5.6	24
149	Nanocrystalline Ti alloy with high hardness, low Young's modulus and excellent in vitro biocompatibility for biomedical applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 3530-6	8.3	65
148	Preferential nucleation and growth of InAs/GaAs(0 0 1) quantum dots on defected sites by droplet epitaxy. <i>Scripta Materialia</i> , 2013 , 69, 638-641	5.6	3
147	Strengthening brittle semiconductor nanowires through stacking faults: insights from in situ mechanical testing. <i>Nano Letters</i> , 2013 , 13, 4369-73	11.5	42

146	New atom probe approaches to studying segregation in nanocrystalline materials. <i>Ultramicroscopy</i> , 2013 , 132, 158-63	3.1	13
145	Nano twins in ultrafine-grained Ti processed by dynamic plastic deformation. <i>Scripta Materialia</i> , 2013 , 68, 475-478	5.6	34
144	Precipitation of quasicrystal approximant phases in an AlMgCu alloy. <i>Philosophical Magazine Letters</i> , 2013 , 93, 77-84	1	5
143	Attraction of semiconductor nanowires: An in situ observation. <i>Acta Materialia</i> , 2013 , 61, 7166-7172	8.4	9
142	De-twinning via secondary twinning in face-centered cubic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 110-114	5.3	28
141	Anelastic behavior in GaAs semiconductor nanowires. <i>Nano Letters</i> , 2013 , 13, 3169-72	11.5	37
140	Grain size effect on deformation twinning propensity in ultrafine-grained hexagonal close-packed titanium. <i>Scripta Materialia</i> , 2013 , 69, 428-431	5.6	52
139	The effect of pre-existing defects on the strength and deformation behavior of Fe nanopillars. <i>Acta Materialia</i> , 2013 , 61, 439-452	8.4	29
138	Structural origins for the high plasticity of a ZrCuNiAl bulk metallic glass. <i>Acta Materialia</i> , 2013 , 61, 321-330	8.4	23
137	Fabrication of Mg?Al?Zn?Mn alloy sheets with homogeneous fine-grained structures using high strain-rate rolling in a wide temperature range. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 765-772	5.3	48
136	Deformation Mechanisms at Different Grain Sizes in a Cryogenically Ball-Milled Al-Mg Alloy 2013 , 323-330		1
135	Microstructural evolution during gaseous hydrogen charging of Zircaloy-4 processed by high-pressure torsion: A comparative study. <i>Materials Letters</i> , 2012 , 68, 310-313	3.3	6
134	Shear bands in a bulk metallic glass after large plastic deformation. <i>Scripta Materialia</i> , 2012 , 67, 332-335	5.6	9
133	Feasibility of high strain-rate rolling of a magnesium alloy across a wide temperature range. <i>Scripta Materialia</i> , 2012 , 67, 404-407	5.6	58
132	Effects of isothermal annealing on the microstructures and mechanical properties of a FeCuSiAl amorphous alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 543, 145-151	5.3	17
131	Deformation twinning in nanocrystalline materials. <i>Progress in Materials Science</i> , 2012 , 57, 1-62	42.2	817
130	Self-healing of fractured one-dimensional brittle nanostructures. <i>Europhysics Letters</i> , 2012 , 98, 16010	1.6	3
129	Enhanced grain refinement of an AlMgSi alloy by high-pressure torsion processing at 100 °C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 415-418	5.3	39

128	Can misfit dislocations be located above the interface of InAs/GaAs (001) epitaxial quantum dots?. <i>Nanoscale Research Letters</i> , 2012 , 7, 486	5	3
127	Self-healing in fractured GaAs nanowires. <i>Acta Materialia</i> , 2012 , 60, 5593-5600	8.4	7
126	Hydrogen-induced microstructure, texture and mechanical property evolutions in a high-pressure torsion processed zirconium alloy. <i>Scripta Materialia</i> , 2012 , 67, 752-755	5.6	12
125	Influence of microstructures on mechanical behaviours of SiC nanowires: a molecular dynamics study. <i>Nanotechnology</i> , 2012 , 23, 025703	3.4	39
124	Growth Mechanism and Magnetic Properties of Highly Crystalline NiO Nanocubes and Nanorods Fabricated by Evaporation. <i>Crystal Growth and Design</i> , 2012 , 12, 2842-2849	3.5	28
123	Introducing a strain-hardening capability to improve the ductility of bulk metallic glasses via severe plastic deformation. <i>Acta Materialia</i> , 2012 , 60, 253-260	8.4	61
122	The effect of dislocation density on the interactions between dislocations and twin boundaries in nanocrystalline materials. <i>Acta Materialia</i> , 2012 , 60, 3181-3189	8.4	101
121	Applied stress controls the production of nano-twins in coarse-grained metals. <i>Applied Physics Letters</i> , 2012 , 101, 231903	3.4	23
120	Effect of grain size on the competition between twinning and detwinning in nanocrystalline metals. <i>Physical Review B</i> , 2011 , 84,	3.3	50
119	Mechanical properties of a FeCuSiB alloy with amorphous and/or crystalline structures. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6603-6608	5.7	17
118	Grain growth and dislocation density evolution in a nanocrystalline NiFe alloy induced by high-pressure torsion. <i>Scripta Materialia</i> , 2011 , 64, 327-330	5.6	79
117	Mechanical behaviors of as-deposited and annealed nanostructured NiFe alloys. <i>Scripta Materialia</i> , 2011 , 65, 1-4	5.6	28
116	Insight into the deformation mechanisms of Fe at the nanoscale. <i>Scripta Materialia</i> , 2011 , 65, 1037-1040	5.6	16
115	Segregation of solute elements at grain boundaries in an ultrafine grained Al-Zn-Mg-Cu alloy. <i>Ultramicroscopy</i> , 2011 , 111, 500-5	3.1	81
114	On the Atomic Anisotropy of Thermal Expansion in Bulk Metallic Glass. <i>Advanced Engineering Materials</i> , 2011 , 13, 861-864	3.5	16
113	Super deformability and Young's modulus of GaAs nanowires. <i>Advanced Materials</i> , 2011 , 23, 1356-60	24	99
112	Effect of sub-T _g annealing on the mechanical properties of a ZrAlNiCuNb bulk metallic glass. <i>Philosophical Magazine Letters</i> , 2011 , 91, 713-723	1	5
111	Self-healing of fractured GaAs nanowires. <i>Nano Letters</i> , 2011 , 11, 1546-9	11.5	44

110	Dislocation-twin interactions in nanocrystalline fcc metals. <i>Acta Materialia</i> , 2011 , 59, 812-821	8.4	265
109	Three-dimensional shear-strain patterns induced by high-pressure torsion and their impact on hardness evolution. <i>Acta Materialia</i> , 2011 , 59, 3903-3914	8.4	92
108	High hardness in a nanocrystalline Mg ₉₇ Y ₂ Zn ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7494-7499	5.3	13
107	Elemental redistribution in a nanocrystalline Ni ₈₀ Fe ₂₀ alloy induced by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7500-7505	5.3	8
106	Strain hardening and softening in a nanocrystalline Ni ₈₀ Fe ₂₀ alloy induced by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3398-3403	5.3	41
105	Strain softening in nanocrystalline Ni ₈₀ Fe ₂₀ alloy induced by large HPT revolutions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4807-4811	5.3	14
104	Understanding large plastic deformation of SiC nanowires at room temperature. <i>Europhysics Letters</i> , 2011 , 95, 63003	1.6	9
103	Grain Size Effect on Deformation Twinning and De-Twinning in a Nanocrystalline Ni-Fe Alloy. <i>Materials Science Forum</i> , 2010 , 667-669, 181-186	0.4	2
102	Enhancement of the in-field J _c of MgB ₂ via SiCl ₄ doping. <i>Physical Review B</i> , 2010 , 81,	3.3	29
101	The formation of symmetric SiC bi-nanowires with a Y-shaped junction. <i>Nanotechnology</i> , 2010 , 21, 405303	3.4	9
100	Nanostructural hierarchy increases the strength of aluminium alloys. <i>Nature Communications</i> , 2010 , 1, 63	17.4	452
99	Chemistry of grain boundary environments in nanocrystalline Al 7075. <i>Journal of Alloys and Compounds</i> , 2010 , 495, 391-393	5.7	9
98	Influence of grain size on the density of deformation twins in Cu ₈₀ Zn ₂₀ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3942-3948	5.3	33
97	The role of stacking faults and twin boundaries in grain refinement of a Cu ₈₀ Zn ₂₀ alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4959-4966	5.3	111
96	High-pressure torsion induced microstructural evolution in a hexagonal close-packed Zr alloy. <i>Scripta Materialia</i> , 2010 , 62, 214-217	5.6	41
95	Grain size and reversible beta-to-omega phase transformation in a Ti alloy. <i>Scripta Materialia</i> , 2010 , 63, 613-616	5.6	66
94	Microstructural evolution of Fe-rich particles in an Al ₈₀ Mg ₁₀ Ti ₁₀ alloy during equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4742-4749	5.3	35
93	Ductility of ultrafine-grained copper processed by equal-channel angular pressing. <i>International Journal of Materials Research</i> , 2009 , 100, 1647-1652	0.5	14

92	Mechanism of grain growth during severe plastic deformation of a nanocrystalline NiBe alloy. <i>Applied Physics Letters</i> , 2009 , 94, 011908	3.4	80
91	Dislocation density evolution during high pressure torsion of a nanocrystalline NiBe alloy. <i>Applied Physics Letters</i> , 2009 , 94, 091911	3.4	35
90	Influence of stacking fault energy on deformation mechanism and dislocation storage capacity in ultrafine-grained materials. <i>Scripta Materialia</i> , 2009 , 60, 52-55	5.6	116
89	Formation of single and multiple deformation twins in nanocrystalline fcc metals. <i>Acta Materialia</i> , 2009 , 57, 3763-3770	8.4	134
88	Influence of equal-channel angular pressing on precipitation in an AlZnMgCu alloy. <i>Acta Materialia</i> , 2009 , 57, 3123-3132	8.4	213
87	Grain refinement and growth induced by severe plastic deformation. <i>International Journal of Materials Research</i> , 2009 , 100, 1632-1637	0.5	18
86	New deformation twinning mechanism generates zero macroscopic strain in nanocrystalline metals. <i>Physical Review Letters</i> , 2008 , 100, 095701	7.4	142
85	Tougher ultrafine grain Cu via high-angle grain boundaries and low dislocation density. <i>Applied Physics Letters</i> , 2008 , 92, 081903	3.4	135
84	Deformation twinning in bulk nanocrystalline metals: Experimental observations. <i>Jom</i> , 2008 , 60, 60-64	2.1	55
83	X-Ray Induced Synthesis of 8H Diamond. <i>Advanced Materials</i> , 2008 , 20, 3303-3307	2.4	22
82	Determining the optimal stacking fault energy for achieving high ductility in ultrafine-grained CuZn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 123-129	5.3	146
81	Carbon-Nanotube Cotton for Large-Scale Fibers. <i>Advanced Materials</i> , 2007 , 19, 2567-2570	2.4	61
80	Ultrastrong, Stiff, and Lightweight Carbon-Nanotube Fibers. <i>Advanced Materials</i> , 2007 , 19, 4198-4201	2.4	379
79	Influence of stacking fault energy on the minimum grain size achieved in severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 463, 22-26	5.3	101
78	Parametric study of carbon nanotube growth via cobalt-catalyzed ethanol decomposition. <i>Materials Letters</i> , 2006 , 60, 1968-1972	3.3	38
77	Simultaneously Increasing the Ductility and Strength of Nanostructured Alloys. <i>Advanced Materials</i> , 2006 , 18, 2280-2283	2.4	617
76	Simultaneously Increasing the Ductility and Strength of Ultra-Fine-Grained Pure Copper. <i>Advanced Materials</i> , 2006 , 18, 2949-2953	2.4	301
75	High-pressure torsion-induced grain growth in electrodeposited nanocrystalline Ni. <i>Applied Physics Letters</i> , 2006 , 88, 021909	3.4	155

74	Tailoring stacking fault energy for high ductility and high strength in ultrafine grained Cu and its alloy. <i>Applied Physics Letters</i> , 2006 , 89, 121906	3.4	258
73	Formation mechanisms of nanostructures in stainless steel during high-strain-rate severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 252-256	5.3	57
72	Influence of stacking fault energy on nanostructure formation under high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 188-193	5.3	156
71	Nucleation of deformation twins in nanocrystalline face-centered-cubic metals processed by severe plastic deformation. <i>Journal of Applied Physics</i> , 2005 , 98, 034319	2.5	109
70	Compact and dissociated dislocations in aluminum: implications for deformation. <i>Physical Review Letters</i> , 2005 , 94, 125502	7.4	52
69	Effects of Eu interfacial mobility on the growth of epitaxial EuBa ₂ Cu ₃ O ₇ films. <i>Applied Physics Letters</i> , 2005 , 86, 101912	3.4	
68	Formation mechanism of fivefold deformation twins in nanocrystalline face-centered-cubic metals. <i>Applied Physics Letters</i> , 2005 , 86, 103112	3.4	102
67	Enhanced mechanical properties in ultrafine grained 7075 Al alloy. <i>Journal of Materials Research</i> , 2005 , 20, 288-291	2.5	48
66	Strain effect on the critical superconducting temperature of MgB ₂ . <i>Superconductor Science and Technology</i> , 2004 , 17, 1026-1030	3.1	13
65	Enhancement of critical current density in low level Al-doped MgB ₂ . <i>Superconductor Science and Technology</i> , 2004 , 17, 1093-1096	3.1	51
64	Formation mechanism of wide stacking faults in nanocrystalline Al. <i>Applied Physics Letters</i> , 2004 , 84, 3564-3566	3.5	52
63	Quantum dot/substrate interaction in InAs/In _{0.53} Ga _{0.47} As/InP(001). <i>Applied Physics Letters</i> , 2004 , 84, 511-513	3.4	5
62	Nucleation and growth of deformation twins in nanocrystalline aluminum. <i>Applied Physics Letters</i> , 2004 , 85, 5049-5051	3.4	174
61	Large field generation with a hot isostatically pressed powder-in-tube MgB ₂ coil at 25 K. <i>Superconductor Science and Technology</i> , 2004 , 17, L35-L37	3.1	41
60	Unconfined Twist: a Simple Method to Prepare Ultrafine Grained Metallic Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 234		
59	Structures and Mechanical Properties of ECAP Processed 7075 Al Alloy upon Natural Aging and T651 Treatment. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 343		2
58	A quenchable superhard carbon phase synthesized by cold compression of carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13699-702	11.5	133
57	Ultralong single-wall carbon nanotubes. <i>Nature Materials</i> , 2004 , 3, 673-6	27	441

56	Corrosion resistance of ultra fine-grained Ti. <i>Scripta Materialia</i> , 2004 , 51, 225-229	5.6	351
55	Development of repetitive corrugation and straightening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 35-39	5.3	123
54	[001] zone-axis bright-field diffraction contrast from coherent Ge(Si) islands on Si(001). <i>Ultramicroscopy</i> , 2004 , 98, 239-47	3.1	2
53	Microstructures and mechanical properties of ultrafine grained 7075 Al alloy processed by ECAP and their evolutions during annealing. <i>Acta Materialia</i> , 2004 , 52, 4589-4599	8.4	680
52	Amorphization of TiNi induced by high-pressure torsion. <i>Philosophical Magazine Letters</i> , 2004 , 84, 183-190		114
51	Grain-size effect on the deformation mechanisms of nanostructured copper processed by high-pressure torsion. <i>Journal of Applied Physics</i> , 2004 , 96, 636-640	2.5	149
50	Deformation twinning in nanocrystalline copper at room temperature and low strain rate. <i>Applied Physics Letters</i> , 2004 , 84, 592-594	3.4	364
49	Formation of pile networks by long carbon nanotubes from decomposition of CO on Co-Mo film. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 189-91	1.3	
48	Defect structures in MgB ₂ wires introduced by hot isostatic pressing. <i>Superconductor Science and Technology</i> , 2003 , 16, 799-803	3.1	23
47	Deformation twins in pure titanium processed by equal channel angular pressing. <i>Scripta Materialia</i> , 2003 , 48, 813-817	5.6	75
46	CoMo catalyzed growth of multi-wall carbon nanotubes from CO decomposition. <i>Carbon</i> , 2003 , 41, 2635-2641		12
45	Microstructure of cryogenic treated M2 tool steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 339, 241-244	5.3	215
44	Microstructural evolution during recovery and recrystallization of a nanocrystalline Al-Mg alloy prepared by cryogenic ball milling. <i>Acta Materialia</i> , 2003 , 51, 2777-2791	8.4	198
43	Grain boundary structure of nanocrystalline Cu processed by cryomilling. <i>Philosophical Magazine</i> , 2003 , 83, 1407-1419	1.6	32
42	Mechanical milling-induced deformation twinning in Fcc materials with high stacking fault energy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 707-712	2.3	34
41	Deformation mechanism in nanocrystalline Al: Partial dislocation slip. <i>Applied Physics Letters</i> , 2003 , 83, 632-634	3.4	335
40	Effect of catalyst composition on carbon nanotube growth. <i>Applied Physics Letters</i> , 2003 , 82, 2694-2696	3.4	73
39	Nanostructures and deformation mechanisms in a cryogenically ball-milled Al-Mg alloy. <i>Philosophical Magazine</i> , 2003 , 83, 3065-3075	1.6	134

38	Microwave performance of high-density bulk MgB ₂ . <i>Applied Physics Letters</i> , 2003 , 83, 108-110	3.4	7
37	The influence of structural defects on intra-granular critical currents of bulk MgB/sub 2/. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3068-3071	1.8	6
36	High critical currents in powder in tube MgB/sub 2/ wires: influence of microstructure and heat treatments. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3347-3350	1.8	5
35	Microstructure and high critical current of powder-in-tube MgB ₂ . <i>Applied Physics Letters</i> , 2003 , 82, 1754-1756	3.4	54
34	Mg(B,O) ₂ precipitation in MgB ₂ . <i>Journal of Applied Physics</i> , 2003 , 93, 6208-6215	2.5	84
33	Deformation twins in nanocrystalline Al. <i>Applied Physics Letters</i> , 2003 , 83, 5062-5064	3.4	288
32	Role of excess Mg and heat treatments on microstructure and critical current of MgB ₂ wires. <i>Journal of Applied Physics</i> , 2003 , 94, 4024-4031	2.5	35
31	Hot isostatic pressing of powder in tube MgB ₂ wires. <i>Applied Physics Letters</i> , 2003 , 82, 2847-2849	3.4	122
30	Controlling flux pinning precipitates during MgB ₂ synthesis. <i>Applied Physics Letters</i> , 2002 , 80, 4398-4403	3.4	53
29	Influence of microstructures and crystalline defects on the superconductivity of MgB ₂ . <i>Journal of Applied Physics</i> , 2002 , 92, 351-356	2.5	80
28	Observation of coherent oxide precipitates in polycrystalline MgB ₂ . <i>Applied Physics Letters</i> , 2002 , 80, 3970-3972	3.4	58
27	Alternative mechanism for misfit dislocation generation during high-temperature Ge(Si)/Si (001) island growth. <i>Applied Physics Letters</i> , 2002 , 81, 1996-1998	3.4	25
26	Dislocation-induced spatial ordering of InAs quantum dots: Effects on optical properties. <i>Journal of Applied Physics</i> , 2002 , 91, 5826-5830	2.5	33
25	Effects of interdiffusion on the band alignment of GeSi dots. <i>Applied Physics Letters</i> , 2001 , 79, 1980-1983	3.4	25
24	Extracting composition and alloying information of coherent Ge(Si)/Si(001) islands from [001] on-zone bright-field diffraction contrast images. <i>Journal of Applied Physics</i> , 2001 , 90, 2725-2729	2.5	21
23	Annealing effects on the microstructure of Ge/Si(001) quantum dots. <i>Applied Physics Letters</i> , 2001 , 79, 1258-1260	3.4	19
22	Ge/Si interdiffusion in the GeSi dots and wetting layers. <i>Journal of Applied Physics</i> , 2001 , 90, 4290-4292	2.5	28
21	Softening of Bi2212 crystals and growth mechanism of Bi2212 and Bi2201 grown at the KCl flux surface. <i>Superconductor Science and Technology</i> , 1999 , 12, 77-80	3.1	3

20	Strain relaxation by alloying effects in Ge islands grown on Si(001). <i>Physical Review B</i> , 1999 , 60, 15605-15608	82
19	Transmission electron microscopy study of In _x Ga _{1-x} As quantum dots on a GaAs(001) substrate. <i>Physical Review B</i> , 1999 , 59, 12279-12282	3.3 34
18	Effect of cryogenic deformation on microstructure and critical current density in Ag/Bi-2223 tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 2726-2729	1.8 2
17	Island shape instabilities and surfactant-like effects in the growth of InGaAs/GaAs quantum dots. <i>Thin Solid Films</i> , 1999 , 357, 40-45	2.2 9
16	Indium Segregation and Enrichment in Coherent In _x Ga _{1-x} As/GaAs Quantum Dots. <i>Physical Review Letters</i> , 1999 , 82, 5148-5151	7.4 76
15	Improving the current-carrying capacity of silver-sheathed (Bi,Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ superconductors by cryogenic deformation. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 301, 199-204	1.3 6
14	A new monoclinic approximant of the decagonal quasicrystal in Al-Co-Cu-W and Al-Fe-Cr alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998 , 78, 143-156	9
13	Comparative studies of the fishtail effect associated with surface pinning and oxygen vacancy network in spiral and layer-by-layer grown single crystals. <i>Superconductor Science and Technology</i> , 1998 , 11, 1041-1044	3.1
12	Transmission-electron microscopy study of the shape of buried In _x Ga _{1-x} As/GaAs quantum dots. <i>Physical Review B</i> , 1998 , 58, R4235-R4237	3.3 70
11	Comments on "Characterization of the Fe-Al Interfacial Layer in a Commercial Hot-dip Galvanized Coating".. <i>ISIJ International</i> , 1998 , 38, 506-507	1.7 5
10	The influence of boron doping on the structure and characteristics of diamond thin films. <i>Diamond and Related Materials</i> , 1997 , 6, 521-525	3.5 47
9	Structural Model of the Orthorhombic Non-Fibonacci Approximant in the Al ₁₂ Fe ₂ Cr Alloy. <i>Acta Crystallographica Section B: Structural Science</i> , 1997 , 53, 587-595	17
8	A non-Fibonacci type of orthorhombic decagonal approximant. <i>Philosophical Magazine Letters</i> , 1995 , 71, 139-145	1 24
7	A transmission electron microscopy study of crystalline surface domains on Al-Co decagonal quasicrystals and the $\sqrt{2}$ -Al ₁₃ Co ₄ approximant. <i>Philosophical Magazine Letters</i> , 1994 , 70, 303-310	1 4
6	Rapid deposition of high temperature YBa ₂ Cu ₃ O _{7-x} superconducting thin films directly on silver substrates. <i>Applied Physics Letters</i> , 1993 , 62, 894-895	3.4 7
5	A new orthorhombic phase in Al ₁₀ Ti ₁₀ Co representing a rational approximant to the decagonal quasicrystalline phase. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992 , 66, 549-558	26
4	Peritectic solidification of the stable Al-Cu-Co decagonal quasicrystal. <i>Journal of Materials Science Letters</i> , 1992 , 11, 909-912	5
3	Exceptional high-strain-rate tensile mechanical properties in a CrCoNi medium-entropy alloy. <i>Science China Materials</i> , 1	7.1 4

- 2 Texture evolution in a CrMnFeCoNi high-entropy alloy manufactured by laser powder bed fusion.
Journal of Materials Science, 1 4-3 2
- 1 Transmission Electron Microscopy of Bulk Nanostructured Metals 325-342