

Tong D Shen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2581978/publications.pdf>

Version: 2024-02-01

154
papers

5,932
citations

81900

39
h-index

82547

72
g-index

155
all docs

155
docs citations

155
times ranked

6027
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk ferromagnetic glasses prepared by flux melting and water quenching. Applied Physics Letters, 1999, 75, 49-51.	3.3	299
2	Enhanced radiation tolerance in nanocrystalline MgGa ₂ O ₄ . Applied Physics Letters, 2007, 90, .	3.3	268
3	Boron suboxide: As hard as cubic boron nitride. Applied Physics Letters, 2002, 81, 643-645.	3.3	264
4	Enhanced hardening in Cu/330 stainless steel multilayers by nanoscale twinning. Acta Materialia, 2004, 52, 995-1002.	7.9	263
5	On the elastic moduli of nanocrystalline Fe, Cu, Ni, and Cu-Ni alloys prepared by mechanical milling/alloying. Journal of Materials Research, 1995, 10, 2892-2896.	2.6	227
6	Superhard B-C-N materials synthesized in nanostructured bulks. Journal of Materials Research, 2002, 17, 3139-3145.	2.6	222
7	Lithium whisker growth and stress generation in an in situ atomic force microscope environmental transmission electron microscope set-up. Nature Nanotechnology, 2020, 15, 94-98.	31.5	217
8	The structure and property characteristics of amorphous/nanocrystalline silicon produced by ball milling. Journal of Materials Research, 1995, 10, 139-148.	2.6	216
9	A quenchable superhard carbon phase synthesized by cold compression of carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13699-13702.	7.1	153
10	Large negative giant magnetoresistance at room temperature and electrical transport in cobalt ferrite-polyaniline nanocomposites. Polymer, 2018, 143, 324-330.	3.8	144
11	Magnetocaloric effect in bulk amorphous Pd ₄₀ Ni _{22.5} Fe _{17.5} P ₂₀ alloy. Journal of Applied Physics, 2002, 91, 5240-5245.	2.5	130
12	Atomically Dispersed Co Catalyst for Efficient Hydrodeoxygenation of Lignin-Derived Species and Hydrogenation of Nitroaromatics. ACS Catalysis, 2020, 10, 8672-8682.	11.2	130
13	Bulk ferromagnetic glasses in the Fe-Ni-P-B System. Acta Materialia, 2001, 49, 837-847.	7.9	117
14	Structural disorder and phase transformation in graphite produced by ball milling. Scripta Materialia, 1996, 7, 393-399.	0.5	113
15	Radiation tolerance in a nanostructure: Is smaller better?. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 921-925.	1.4	112
16	Formation, solid solution hardening and softening of nanocrystalline solid solutions prepared by mechanical attrition. Acta Materialia, 1996, 44, 753-761.	7.9	100
17	Soft magnetism in mechanically alloyed nanocrystalline materials. Physical Review B, 2005, 72, .	3.2	92
18	Effect of solute segregation on the strength of nanocrystalline alloys: Inverse Hall-Petch relation. Acta Materialia, 2007, 55, 5007-5013.	7.9	91

#	ARTICLE	IF	CITATIONS
19	Ultrastrong nanocrystalline steel with exceptional thermal stability and radiation tolerance. <i>Nature Communications</i> , 2018, 9, 5389.	12.8	88
20	Electromagnetic Field Absorbing Polypropylene Nanocomposites with Tuned Permittivity and Permeability by Nanoiron and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24784-24796.	3.1	86
21	Flame-Retardant Polypropylene/Multiwall Carbon Nanotube Nanocomposites: Effects of Surface Functionalization and Surfactant Molecular Weight. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 327-340.	2.2	75
22	Less is more. <i>Nature Materials</i> , 2006, 5, 515-516.	27.5	63
23	Bulk amorphous metallic alloys: Synthesis by fluxing techniques and properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998, 29, 1795-1804.	2.2	61
24	Ultrafine FePd Nanoalloys Decorated Multiwalled Carbon Nanotubes toward Enhanced Ethanol Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23920-23931.	8.0	56
25	Prediction of Stable Iron Nitrides at Ambient and High Pressures with Progressive Formation of New Polynitrogen Species. <i>Chemistry of Materials</i> , 2018, 30, 8476-8485.	6.7	56
26	Electropolymerized polyaniline/manganese iron oxide hybrids with an enhanced color switching response and electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20778-20790.	10.3	55
27	Ultralong cycling stability of carbon-nanotube/LiFePO ₄ nanocomposites as electrode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 232, 323-331.	5.2	55
28	Bulk amorphous Pd-Ni-Fe-P alloys: Preparation and characterization. <i>Journal of Materials Research</i> , 1999, 14, 2107-2115.	2.6	54
29	MOF-derived Co/C nanocomposites encapsulated by Ni(OH) ₂ ultrathin nanosheets shell for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 770, 803-812.	5.5	53
30	What is the theoretical density of a nanocrystalline material?. <i>Acta Materialia</i> , 2008, 56, 3663-3671.	7.9	51
31	Mössbauer investigation of intermixing during ball milling of Fe _{0.3} Cr _{0.7} and Fe _{0.5} W _{0.5} powder mixtures. <i>Physical Review B</i> , 1996, 54, 12775-12786.	3.2	50
32	Soft ferromagnetism in amorphous and nanocrystalline alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 283, 223-230.	2.3	50
33	Iron-core carbon-shell nanoparticles reinforced electrically conductive magnetic epoxy resin nanocomposites with reduced flammability. <i>RSC Advances</i> , 2013, 3, 9453.	3.6	49
34	Carboxyl Multiwalled Carbon Nanotube-Stabilized Palladium Nanocatalysts toward Improved Methanol Oxidation Reaction. <i>ChemElectroChem</i> , 2015, 2, 559-570.	3.4	49
35	Thermal conductivity of Pd ₄₀ Ni ₄₀ -xCu _x P ₂₀ metallic glasses. <i>Scripta Materialia</i> , 2002, 47, 411-414.	5.2	48
36	Correlation between the volume change during crystallization and the thermal stability of supercooled liquids. <i>Applied Physics Letters</i> , 2003, 83, 4512-4514.	3.3	47

#	ARTICLE	IF	CITATIONS
37	In Situ Imaging the Oxygen Reduction Reactions of Solid State Na ⁺ O ²⁻ Batteries with CuO Nanowires as the Air Cathode. Nano Letters, 2018, 18, 3723-3730.	9.1	42
38	Photoluminescence from mechanically milled Si and SiO ₂ powders. Physical Review B, 1997, 55, 7615-7623.	3.2	40
39	Effect of nano-metal particles on the fracture toughness of metal-ceramic composite. Materials & Design, 2013, 45, 67-71.	5.1	40
40	Ultra-hard bulk nanocrystalline VNbMoTaW high-entropy alloy. Journal of Alloys and Compounds, 2018, 769, 597-604.	5.5	40
41	Novel plasma-engineered MoS ₂ nanosheets for superior lithium-ion batteries. Journal of Alloys and Compounds, 2019, 787, 996-1003.	5.5	40
42	Strengthening mechanisms in nanostructured copper/304 stainless steel multilayers. Journal of Materials Research, 2003, 18, 1600-1606.	2.6	37
43	In-situ imaging electrocatalysis in a Na-O ₂ battery with Au-coated MnO ₂ nanowires air cathode. Energy Storage Materials, 2019, 19, 48-55.	18.0	37
44	Multiwalled Carbon Nanotubes Compositing with Palladium Nanocatalysts for Highly Efficient Ethanol Oxidation. Journal of the Electrochemical Society, 2015, 162, F755-F763.	2.9	36
45	Paramagnetism, superparamagnetism, and spin-glass behavior in bulk amorphous Pd-Ni-Fe-P alloys. Journal of Applied Physics, 1999, 85, 4110-4119.	2.5	35
46	A bulk nanocrystalline Mg-Ti alloy with high thermal stability and strength. Materials Letters, 2018, 210, 121-123.	2.6	35
47	<i>In Situ</i> Observation of Sodium Dendrite Growth and Concurrent Mechanical Property Measurements Using an Environmental Transmission Electron Microscopy-Atomic Force Microscopy (ETEM-AFM) Platform. ACS Energy Letters, 2020, 5, 2546-2559.	17.4	35
48	Probing the charging and discharging behavior of K-CO ₂ nanobatteries in an aberration corrected environmental transmission electron microscope. Nano Energy, 2018, 53, 544-549.	16.0	34
49	Hall-Petch relationship in nanocrystalline titanium produced by ball-milling. Journal of Materials Science Letters, 1993, 12, 1818-1820.	0.5	33
50	Atom probe tomography study of the decomposition of a bulk metallic glass. Intermetallics, 2002, 10, 1047-1052.	3.9	33
51	Thermomechanics of Nanocrystalline Nickel under High Pressure-Temperature Conditions. Nano Letters, 2007, 7, 426-432.	9.1	33
52	Bulk Fe-Based Metallic Glass with Extremely Soft Ferromagnetic Properties. Materials Science Forum, 2002, 386-388, 441-446.	0.3	32
53	Magnetoresistive polyaniline-silicon carbide metacomposites: plasma frequency determination and high magnetic field sensitivity. Physical Chemistry Chemical Physics, 2016, 18, 19536-19543.	2.8	31
54	Amorphous phase transition mechanism by the mechanical alloying of the Fe-W system. Journal of Applied Physics, 1992, 71, 1967-1971.	2.5	28

#	ARTICLE	IF	CITATIONS
55	The Influence of Dislocation Structure on Formation of Nanocrystals by Mechanical Attrition. <i>Materials Science Forum</i> , 1995, 179-181, 17-24.	0.3	28
56	Solid state displacement reaction of Fe and CuO induced by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992, 151, 189-195.	5.6	27
57	Ultrahigh volumetric capacitance biomorphic porous carbon material derived from mold. <i>Materials Letters</i> , 2016, 184, 252-256.	2.6	27
58	Compositional Design of Soft Magnetic High Entropy Alloys by Minimizing Magnetostriction Coefficient in $(\text{Fe}_{0.3}\text{Co}_{0.5}\text{Ni}_{0.2})_{100-x}(\text{Al}_{1/3}\text{Si}_{2/3})_x$ System. <i>Metals</i> , 2019, 9, 382.	2.3	27
59	<i>In Situ</i> Electrochemical Study of $\text{Na}^+/\text{O}_2/\text{CO}_2$ Batteries in an Environmental Transmission Electron Microscope. <i>ACS Nano</i> , 2020, 14, 13232-13245.	14.6	27
60	Selection of grain-boundary segregation elements for achieving stable and strong nanocrystalline Mg. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 717, 144-153.	5.6	26
61	Amorphization reaction during mechanical alloying: Influence of the milling atmospheres. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 2227-2231.	1.0	25
62	Bulk nanostructured alloys prepared by flux melting and melt solidification. <i>Applied Physics Letters</i> , 2005, 87, 141906.	3.3	25
63	Ceramic nanowelding. <i>Nature Communications</i> , 2018, 9, 96.	12.8	24
64	Stable Lithium Spheres Produced by Electrochemical Plating. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12750-12753.	13.8	24
65	Solid-state reaction in nanocrystalline Fe/SiC composites prepared by mechanical alloying. <i>Journal of Materials Science</i> , 1997, 32, 3835-3839.	3.7	23
66	Thermoelastic and texture behavior of aluminum at high pressure and high temperature investigated by in situ neutron diffraction. <i>Journal of Applied Physics</i> , 2004, 95, 4645-4650.	2.5	23
67	Lowering critical cooling rate for forming bulk metallic glass. <i>Applied Physics Letters</i> , 2006, 88, 091903.	3.3	23
68	Turbostratic carbon-localised FeS_2 nanocrystals as anodes for high-performance sodium-ion batteries. <i>Nanoscale</i> , 2019, 11, 15497-15507.	5.6	23
69	Formation and hardening effects in nanocrystalline Ti-N alloys prepared by mechanical alloying. <i>Scripta Materialia</i> , 1995, 5, 615-629.	0.5	21
70	Vacancy effect on the preparation of high-entropy carbides. <i>Journal of Materials Science</i> , 2020, 55, 6754-6760.	3.7	21
71	FeCoNiAlSi high entropy alloys with exceptional fundamental and application-oriented magnetism. <i>Intermetallics</i> , 2020, 122, 106801.	3.9	21
72	Possible evidence for the stabilization of TiC carbon nitride by high-energy ball milling. <i>Journal of Materials Research</i> , 1999, 14, 2488-2499.	2.6	19

#	ARTICLE	IF	CITATIONS
73	Grain rotation dependent fracture toughness of nanocrystalline materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7684-7687.	5.6	19
74	Segregation induced hardening in annealed nanocrystalline Ni-Fe alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 735, 354-360.	5.6	19
75	Atom probe studies of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2003, 317, 10-16.	3.1	18
76	Thermally stable and strong bulk MgO in situ nanocomposites by reactive cryomilling and high-pressure consolidation. <i>Journal of Materials Science</i> , 2018, 53, 6613-6625.	3.7	18
77	Influence of annealing on the mechanical property of iron- and nickel-based nanocrystalline alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 627, 139-144.	5.6	17
78	Bulk nanocrystalline boron-doped VNbMoTaW high entropy alloys with ultrahigh strength, hardness, and resistivity. <i>Journal of Alloys and Compounds</i> , 2021, 853, 155995.	5.5	17
79	Significant suppression of void swelling and irradiation hardening in a nanograined/nanoprecipitated 14YWT-ODS steel irradiated by helium ions. <i>Journal of Nuclear Materials</i> , 2022, 559, 153418.	2.7	17
80	In situ observation of cracking and self-healing of solid electrolyte interphases during lithium deposition. <i>Science Bulletin</i> , 2021, 66, 1754-1763.	9.0	16
81	Structure and properties of bulk nanostructured alloys synthesized by flux-melting. <i>Journal of Materials Science</i> , 2007, 42, 1638-1648.	3.7	15
82	Enhanced Negative Magnetoresistance with High Sensitivity of Polyaniline Interfaced with Nanotitania. <i>Journal of the Electrochemical Society</i> , 2016, 163, H664-H671.	2.9	14
83	<i>In situ</i> study on surface roughening in radiation-resistant Ag nanowires. <i>Nanotechnology</i> , 2018, 29, 215708.	2.6	14
84	In-situ imaging the electrochemical reactions of Li-CO ₂ nanobatteries at high temperatures in an aberration corrected environmental transmission electron microscope. <i>Nano Research</i> , 2022, 15, 542-550.	10.4	14
85	Superior high-temperature oxidation resistance of nanocrystalline 304 austenitic stainless steel containing a small amount of Si. <i>Scripta Materialia</i> , 2021, 204, 114155.	5.2	14
86	Effects of metalloids on the thermal stability and glass forming ability of bulk ferromagnetic metallic glasses. <i>Journal of Alloys and Compounds</i> , 2015, 631, 60-66.	5.5	13
87	Mg-Ti composites fabricated by a novel one-step high-pressure sintering: The correlation between microstructures and mechanical properties. <i>Composites Part B: Engineering</i> , 2021, 215, 108743.	12.0	13
88	Amorphous Phase Formation in the Fe-W System Induced by Mechanical Alloying. <i>Materials Science Forum</i> , 1992, 88-90, 391-398.	0.3	12
89	Solid state amorphization reactions in Ni/Ti multilayer composites prepared by cold rolling. <i>Journal of Materials Science</i> , 1993, 28, 394-398.	3.7	12
90	Magnetic epoxy nanocomposites with superparamagnetic MnFe ₂ O ₄ nanoparticles. <i>AIP Advances</i> , 2015, 5,	1.3	12

#	ARTICLE	IF	CITATIONS
91	Synthesis of Mn ₃ O ₄ nano-materials via CTAB/SDS vesicle templating for high performance supercapacitors. <i>Materials Letters</i> , 2018, 210, 128-132.	2.6	12
92	Air-stable Lithium Spheres Produced by Electrochemical Plating. <i>Angewandte Chemie</i> , 2018, 130, 12932-12935.	2.0	12
93	In-situ imaging Co ₃ O ₄ catalyzed oxygen reduction and evolution reactions in a solid state Na-O ₂ battery. <i>Nano Energy</i> , 2020, 77, 105289.	16.0	12
94	In situ imaging electrocatalytic CO ₂ reduction and evolution reactions in all-solid-state Li ⁺ /CO ₂ nanobatteries. <i>Nanoscale</i> , 2020, 12, 23967-23974.	5.6	12
95	Ultrastrong nanocrystalline oxide-dispersion-strengthened ferritic alloy with exceptional thermal stability. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141616.	5.6	12
96	Unmasking the anomalous rapid oxidation of refractory TiB ₂ at low temperatures. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5100-5108.	5.7	12
97	Formation of nanocrystalline Fe/SiC composite by mechanical alloying. <i>Journal of Materials Science Letters</i> , 1992, 11, 1576-1578.	0.5	11
98	Coupled effects of grain size and orientation on properties of nanocrystalline materials. <i>Computational Materials Science</i> , 2012, 58, 175-182.	3.0	11
99	Effects of grain boundaries and nano-precipitates on helium bubble behaviors in lanthanum-doped nanocrystalline steel. <i>Scripta Materialia</i> , 2021, 200, 113900.	5.2	11
100	Characteristics of the mechanically-alloyed Ni ₆₀ Ti ₄₀ amorphous powders during mechanical milling in different atmospheres. <i>Journal of Materials Science</i> , 1993, 28, 6474-6478.	3.7	10
101	Effects of ultrafine nanograins on the fracture toughness of nanocrystalline materials. <i>Journal of Materials Research</i> , 2011, 26, 1734-1741.	2.6	10
102	Influence of metalloids and annealing on the fundamental magnetic properties of bulk Fe ₆₅ (Cr,Mo,Ga) ₃₅ (P,B,C) metallic glasses. <i>Intermetallics</i> , 2015, 65, 111-116.	3.9	10
103	Microstructural origin of the ultra-low coercivity in bulk Fe _{65.5} Cr ₄ Mo ₄ Ga ₄ P ₁₂ B _{5.5} C ₅ metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 130-132.	2.3	10
104	Simultaneous sintering of low-melting-point Mg with high-melting-point Ti via a novel one-step high-pressure solid-phase sintering strategy. <i>Journal of Alloys and Compounds</i> , 2021, 858, 158344.	5.5	10
105	Achieving ultra-strong Mg alloys via a novel hierarchical long-period stacking ordered architecture. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159343.	5.5	10
106	High-T Nano-Mechanics of Polycrystalline Nickel. <i>Nanoscale Research Letters</i> , 2007, 2, 476-91.	5.7	9
107	Photogenerated carriers enhancement in Cu-doped ZnSe/ZnS/L-cys self-assembled core-shell quantum dots. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	9
108	One-pot synthesized mesoporous Ni ²⁺ /Co hydroxide for high performance supercapacitors. <i>Ionics</i> , 2017, 23, 1229-1238.	2.4	9

#	ARTICLE	IF	CITATIONS
109	Smart 3D Network Nanocomposites Collect Irradiation-Induced α - Cu . <i>Matter</i> , 2020, 3, 1631-1645.	10.0	9
110	Formation of amorphous Ge-S semiconductor alloys by mechanical alloying. <i>Applied Physics Letters</i> , 1993, 63, 1637-1639.	3.3	8
111	Structural evolutions of Ni-Ti systems caused by mechanical alloying in different atmospheres. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 179-180, 215-219.	5.6	8
112	Bulk nanocrystalline W-Ti alloys with exceptional mechanical properties and thermal stability. <i>Journal of Materials Science and Technology</i> , 2022, 114, 16-28.	10.7	8
113	Structure and phase transformation of melt-spun Gd ₅ Si ₂ Ge ₂ . <i>Thermochimica Acta</i> , 2006, 445, 53-56.	2.7	7
114	Low-temperature magnetization and magnetic exchange interactions in Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ bulk metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 429, 276-280.	2.3	7
115	Photoelectronic behaviors of self-assembled ZnSe/ZnS/L-Cys quantum dots synthesized at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4478-4487.	2.2	7
116	Highly stable nanocrystalline oxide dispersion strengthened alloys with outstanding helium bubble suppression. <i>Journal of Nuclear Materials</i> , 2021, 557, 153283.	2.7	7
117	Displacement reaction between Fe and CuO induced by mechanical alloying. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 2143-2146.	1.0	6
118	Investigation of the amorphization reaction induced by amorphous phase through mechanical milling. <i>Journal of Applied Physics</i> , 1991, 70, 7158-7160.	2.5	6
119	Self-sustaining reaction during mechanical alloying of Ni ₆₀ Ti ₄₀ in oxygen atmosphere. <i>Scripta Metallurgica Et Materialia</i> , 1992, 26, 933-937.	1.0	6
120	Low power loss in Fe _{65.5} Cr ₄ Mo ₄ Ga ₄ P ₁₂ B _{5.5} C ₅ bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2016, 658, 703-708.	5.5	6
121	A thermally stable and strong Mg-MgF ₂ nanocomposite. <i>Materials Letters</i> , 2017, 209, 476-478.	2.6	6
122	Influence of alloying elements on the thermal stability of ultra-fine-grained Ni alloys. <i>Journal of Materials Science</i> , 2019, 54, 10506-10515.	3.7	6
123	A primary study of the corrosion behavior and superior structure stability of Mg-Ti composites fabricated by high-pressure solid-state sintering. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1705-1715.	5.8	6
124	Solid state amorphization transformations induced by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 1993, 194, 325-330.	5.5	5
125	Amorphous phase growth by isothermal annealing-induced interdiffusion reactions in mechanically deformed Ni/Ti multilayered composites. <i>Journal of Materials Science</i> , 1994, 29, 2981-2986.	3.7	5
126	Dislocation propagation versus dislocation nucleation. <i>Nature Materials</i> , 2006, 5, 841-841.	27.5	5

#	ARTICLE	IF	CITATIONS
127	The effect of low temperature annealing on the structure of Gd ₅ Si ₂ Ge ₂ alloy. Journal of Alloys and Compounds, 2007, 431, 89-92.	5.5	5
128	A combined dislocation-cohesive zone model for fracture in nanocrystalline materials. Journal of Materials Research, 2012, 27, 694-700.	2.6	5
129	Micron-/nano-scale hierarchical structures and hydrogen storage mechanisms in a cast vanadium-based multicomponent alloy. Nano Energy, 2021, 90, 106588.	16.0	5
130	Mechanical Hardness as a Probe of Nanocrystalline Materials. Materials Research Society Symposia Proceedings, 1994, 362, 253.	0.1	4
131	Probing the Deformation Mechanisms of Nanocrystalline Silver by In-Situ Tension and Synchrotron X-ray Diffraction. Metals, 2020, 10, 1635.	2.3	4
132	<i>In situ</i> observation of the electrochemical lithiation of a single MnO@C nanorod electrode with core/shell structure. Chemical Communications, 2022, 58, 879-882.	4.1	4
133	Different transformation paths of the amorphization reaction by mechanical alloying in different atmospheres. Journal of Materials Science Letters, 1992, 11, 129-131.	0.5	3
134	Effect of atmosphere on further milling mechanically alloyed Ni ₆₀ Ti ₄₀ amorphous powders. Journal of Materials Science Letters, 1992, 11, 1170-1172.	0.5	3
135	Calculation of the temperature for formation of competing intermetallic compounds in multilayers. Materials Letters, 1993, 17, 258-262.	2.6	3
136	The structure and Compton profile of nanocrystalline graphite produced by Mill grinding. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 193, 298-304.	2.1	3
137	Synthesis of Al-based metastable alloys by mechanical milling Al and amorphous Fe ₇₈ Si ₁₂ B ₁₀ powders. Journal of Materials Research, 1994, 9, 866-874.	2.6	3
138	Microstructural and Structural Changes in Si and C Induced by Mechanical Attrition. Materials Science Forum, 1997, 235-238, 487-496.	0.3	3
139	Enhanced transient photovoltaic characteristics of core-shell ZnSe/ZnS/L-Cys quantum-dot-sensitized TiO ₂ thin-film. Chinese Physics B, 2018, 27, 067305.	1.4	3
140	A 2.9 GPa Strength Nano-Grained and Nano-Precipitated 304L-Type Austenitic Stainless Steel. Materials, 2020, 13, 5382.	2.9	3
141	Exceptional thermal stability of ultrafine-grained long-period stacking ordered Mg alloy. Rare Metals, 2022, 41, 1537-1542.	7.1	3
142	Amorphization induced by mechanical alloying and cold rolling. Journal of Non-Crystalline Solids, 1992, 150, 464-467.	3.1	2
143	Fabrication and Characterization of Nanostructured CuAg (Ag-40at%Cu). Microscopy and Microanalysis, 2005, 11, .	0.4	2
144	Radiation tolerance of La-doped nanocrystalline steel under heavy-ion irradiation at different temperatures. Nanotechnology, 2018, 29, 494001.	2.6	2

#	ARTICLE	IF	CITATIONS
145	Crystallization kinetics in small volumes of undercooled liquid. Philosophical Magazine Letters, 2003, 83, 503-509.	1.2	2
146	Preparation and reactivities of composite nanocrystalline solids prepared by mechanical alloying. Journal of Non-Crystalline Solids, 1992, 150, 468-471.	3.1	1
147	Vanadium-spinel composites for structural applications in hostile environments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 234-236, 1091-1094.	5.6	1
148	Effect of oxygen, nitrogen, and water on the carriers transport behaviors of nano-TiO ₂ particles. Materials Chemistry and Physics, 2018, 208, 143-148.	4.0	1
149	Stability of nanograins and nanoparticles in La-doped nanocrystalline steel irradiated with Fe ions. Nuclear Materials and Energy, 2021, 26, 100873.	1.3	1
150	Ultrafine-grained oxide-dispersion-strengthened 9Cr steel with exceptional strength and thermal stability. Nuclear Materials and Energy, 2022, 30, 101112.	1.3	1
151	Capture capability of different intrinsic structures for helium bubbles in micro-nano composite 304L steels. Nuclear Materials and Energy, 2022, 32, 101224.	1.3	1
152	The influence of atmosphere on the amorphization reaction by mechanical alloying for the Ni ₄ -Ti system. Journal of Non-Crystalline Solids, 1992, 150, 456-459.	3.1	0
153	Grain boundary status dependent mechanical property of annealed nanocrystalline Ni(Fe) alloy. Journal of Materials Research and Technology, 2022, 18, 1191-1204.	5.8	0
154	V/MgAl ₂ O ₄ Composites for Hostile Environment Applications - Part II: Properties. Ceramic Engineering and Science Proceedings, 0, , 163-170.	0.1	0