Chan Hung Shek

List of Publications by Year
in descending order

224 papers	9,458 citations	71061 41 h-index	45285 90 g-index
236 all docs	236 docs citations	236 times ranked	7748 citing authors

#	Article	IF	Citations
1	Bulk metallic glasses. Materials Science and Engineering Reports, 2004, 44, 45-89.	14.8	2,242
2	Recent developments in stainless steels. Materials Science and Engineering Reports, 2009, 65, 39-104.	14.8	1,640
3	Recent Advances in Manganese Oxide Nanocrystals: Fabrication, Characterization, and Microstructure. Chemical Reviews, 2012, 112, 3833-3855.	23.0	219
4	On the thermodynamics and kinetics of electropulsing induced dissolution of Î²-Mg17Al12 phase in an aged Mgâ€“9Alâ€“1Zn alloy. Acta Materialia, 2009, 57, 4797-4808.	3.8	202
5	Recent Advances in Tin Dioxide Materials: Some Developments in Thin Films, Nanowires, and Nanorods. Chemical Reviews, 2014, 114, 7442-7486.	23.0	146
6	Transformation evolution and infrared absorption spectra of amorphous and crystalline nano-Al2O3 powders. Scripta Materialia, 1997, 8, 605-610.	0.5	144
7	Measurements of slowÎ²-relaxations in metallic glasses and supercooled liquids. Physical Review B, 2007, 75, .	1.1	132
8	Insights into microstructural evolution from nanocrystallineSnO2thin films prepared by pulsed laser deposition. Physical Review B, 2004, 70, .	1.1	121
9	Plasticity-improved Zrâ€“Cuâ€“Al bulk metallic glass matrix composites containing martensite phase. Applied Physics Letters, 2005, 87, 051905.	1.5	91
10	Effect of oxygen deficiency on the Raman spectra and hyperfine interactions of nanometer SnO2. Scripta Materialia, 1999, 11, 831-835.	0.5	87
11	Friction-stir welding of a ductile high entropy alloy: microstructural evolution and weld strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 524-532.	2.6	82
12	Thermal and mechanical properties of Cuâ€“Zrâ€“Al bulk metallic glasses. Journal of Alloys and Compounds, 2007, 434-435, 71-74.	2.8	81
13	Compositional dependence of phase formation and mechanical properties in three CoCrFeNi-(Mn/Al/Cu) high entropy alloys. Intermetallics, 2016, 79, 1-11.	1.8	81
14	Effects of Hf on the microstructure and mechanical properties of CoCrFeNi high entropy alloy. Journal of Alloys and Compounds, 2020, 827, 154159.	2.8	81
15	Microstructure and texture evolution of the cold-rolled AZ91 magnesium alloy strip under electropulsing treatment. Journal of Alloys and Compounds, 2011, 509, 4308-4313.	2.8	77
16	Irradiated Graphene Loaded with SnO₂ Quantum Dots for Energy Storage. ACS Nano, 2015, 9, 11351-11361.	7.3	76
17	Synthesis and structural characterization of rutile SnO₂ nanocrystals. Journal of Materials Research, 2003, 18, 1289-1292.	1.2	75
18	Effect of electropulsing treatment on solid solution behavior of an aged Mg alloy AZ61 strip. Journal of Materials Research, 2008, 23, 2685-2691.	1.2	75

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19	Grain growth in nanocrystalline SnO2 prepared by sol-gel route. Scripta Materialia, 1999, 11, 887-893.	0.5	74
20	Friction stir welding of a CoCrFeNiAl0.3 high entropy alloy. Materials Letters, 2017, 205, 142-144.	1.3	72
21	Hierarchical Mesoporous MnO₂ Superstructures Synthesized by Soft-Interface Method and Their Catalytic Performances. ACS Applied Materials & Interfaces, 2014, 6, 9776-9784.	4.0	68
22	Grain growth kinetics of nanocrystalline SnO2 for long-term isothermal annealing. Scripta Materialia, 2003, 49, 441-446.	2.6	66
23	Mechanism of electropulsing induced recrystallization in a cold-rolled Mgâ€“9Alâ€“1Zn alloy. Journal of Alloys and Compounds, 2012, 536, 94-105.	2.8	65
24	Annealing effect on the phase stability and mechanical properties of (FeNiCrMn)(100â^')Co high entropy alloys. Journal of Alloys and Compounds, 2017, 695, 2945-2950.	2.8	65
25	Microstructural evolution of oxides and semiconductor thin films. Progress in Materials Science, 2011, 56, 901-1029.	16.0	64
26	Fe-Species-Loaded Mesoporous MnO₂ Superstructural Requirements for Enhanced Catalysis. ACS Applied Materials & Interfaces, 2015, 7, 3949-3959.	4.0	61
27	Nanomicrostructure, chemical stability and abnormal transformation in ultrafine particles of oxidized tin. Journal of Physics and Chemistry of Solids, 1997, 58, 13-17.	1.9	59
28	Insight on Fractal Assessment Strategies for Tin Dioxide Thin Films. ACS Nano, 2010, 4, 1202-1208.	7.3	59
29	Synthesis of an Fe Rich Amorphous Structure with a Catalytic Effect To Rapidly Decolorize Azo Dye at Room Temperature. ACS Applied Materials & Interfaces, 2014, 6, 5500-5505.	4.0	59
30	Friction welding of Zr41Ti14Cu12.5Ni10Be22.5 bulk metallic glass. Scripta Materialia, 2003, 49, 393-397.	2.6	53
31	Assembling Tin Dioxide Quantum Dots to Graphene Nanosheets by a Facile Ultrasonic Route. Langmuir, 2013, 29, 4111-4118.	1.6	53
32	Composition optimization of the Alâ€“Coâ€“Zr bulk metallic glasses. Scripta Materialia, 2004, 50, 829-833.	2.6	52
33	Multifractal spectra of scanning electron microscope images of SnO2 thin films prepared by pulsed laser deposition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 345, 218-223.	0.9	52
34	Influence of electropulsing treatment on microstructure and mechanical properties of cold-rolled Mgâ€“9Alâ€“1Zn alloy strip. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5627-5635.	2.6	51
35	D-Band Micromachined Silicon Rectangular Waveguide Filter. IEEE Microwave and Wireless Components Letters, 2012, 22, 230-232.	2.0	51
36	Abrasive wear of Cu60Zr30Ti10 bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 384, 138-142.	2.6	50

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37	Composition optimization of the Cu-based Cuâ€“Zrâ€“Al alloys. Intermetallics, 2004, 12, 1229-1232.	1.8	49
38	Surface modification of polymeric materials by plasma immersion ion implantation. Nuclear Instruments & Methods in Physics Research B, 2005, 237, 417-421.	0.6	49
39	Shape-controlled synthesis and nanostructure evolution of single-crystal Mn3O4 nanocrystals. Scripta Materialia, 2006, 55, 735-738.	2.6	49
40	Investigation of interface defects in nanocrystalline SnO2 by positron annihilation. Journal of Physics and Chemistry of Solids, 1999, 60, 189-193.	1.9	45
41	Mechanical heterogeneity and mechanism of plasticity in metallic glasses. Applied Physics Letters, 2009, 94, .	1.5	43
42	Facile strategy and mechanism for orthorhombic SnO2 thin films. Applied Physics Letters, 2006, 89, 231902.	1.5	42
43	Abrasion resistance of Cu based bulk metallic glasses. Journal of Non-Crystalline Solids, 2004, 347, 268-272.	1.5	41
44	Influence of grain size on the vibrational properties in Mn2O3 nanocrystals. Journal of Non-Crystalline Solids, 2006, 352, 3285-3289.	1.5	41
45	Electropulsing Induced Texture Evolution in the Recrystallization of Fe-3ÂPct Si Alloy Strip. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3484-3490.	1.1	41
46	Effect of electropulsing treatment on microstructure and tensile fracture behavior of aged Mgâ€“9Alâ€“1Zn alloy strip. Applied Physics A: Materials Science and Processing, 2009, 97, 607-615.	1.1	40
47	Microstructure evolution and advanced performance of Mn3O4 nanomorphologies. Nanoscale, 2012, 4, 2590.	2.8	40
48	The e/a-constant Humeâ€“Rothery phases in an As-cast Zr65Al7.5Ni10Cu17.5 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 291, 78-85.	2.6	37
49	The e/a Criterion for the Largest Glass-forming Abilities of the Zr-Al-Ni(Co) Alloys. Materials Transactions, 2004, 45, 1180-1183.	0.4	37
50	Corrosion behavior and glass-forming ability of Cuâ€“Zrâ€“Alâ€“Nb alloys. Journal of Non-Crystalline Solids, 2007, 353, 3596-3599.	1.5	37
51	Effects of annealing on mechanical behavior of Zrâ€“Tiâ€“Ni thin film metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 608, 258-264.	2.6	37
52	Optimum Zrâ€“Alâ€“Co bulk metallic glass composition Zr53Al23.5Co23.5. Intermetallics, 2004, 12, 1275-1278.	1.8	36
53	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography. Acta Materialia, 2018, 155, 69-79.	3.8	35
54	Effect of process parameters on microstructure and mechanical properties of friction stir welded CoCrFeNi high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 782, 139277.	2.6	35

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55	Nucleation site and mechanism leading to growth of bulk-quantity Mn3O4 nanorods. Applied Physics Letters, 2005, 86, 181911.	1.5	34
56	Observation of secondary relaxation in a fragile Pd40Ni10Cu30P20 bulk metallic glass. Applied Physics Letters, 2006, 89, 071920.	1.5	34
57	Improved ductility of aged Mg-9Al-1Zn alloy strip by electropulsing treatment. Journal of Materials Research, 2009, 24, 1810-1814.	1.2	34
58	Single photon sources with single semiconductor quantum dots. Frontiers of Physics, 2014, 9, 170-193.	2.4	33
59	Compressive ductility and fracture resistance in CuZr-based shape-memory metallic-glass composites. International Journal of Plasticity, 2020, 128, 102687.	4.1	33
60	Effect of Nb content on the microstructure and mechanical properties of Zrâ€“Cuâ€“Niâ€“Alâ€“Nb glass forming alloys. Journal of Alloys and Compounds, 2005, 403, 239-244.	2.8	32
61	Preparation of nanocomposite working substances for room-temperature magnetic refrigeration. Journal of Magnetism and Magnetic Materials, 1996, 163, 103-108.	1.0	31
62	The e/a factor governing the formation and stability of (Zr76Ni24)1â^'xAlx bulk metallic glasses. Scripta Materialia, 2003, 48, 1525-1529.	2.6	31
63	Composition Rules from Electron Concentration and Atomic Size Factors in Zr-Al-Cu-Ni Bulk Metallic Glasses. Materials Transactions, 2004, 45, 1177-1179.	0.4	31
64	Effects of pretreatment by ion implantation and interlayer on adhesion between aluminum substrate and TiN film. Thin Solid Films, 2005, 493, 152-159.	0.8	30
65	Zrâ€“Tiâ€“Ni thin film metallic glass as a diffusion barrier between copper and silicon. Journal of Materials Science, 2015, 50, 2085-2092.	1.7	30
66	Formation of orthorhombic SnO₂ originated from lattice distortion by Mn-doped tetragonal SnO₂. RSC Advances, 2015, 5, 39285-39290.	1.7	30
67	Review of temperature indicators and the use of duplex stainless steels for life assessment. Materials Science and Engineering Reports, 1997, 19, 153-200.	14.8	29
68	Nucleation and growth of SnO2 nanocrystallites prepared by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2005, 81, 959-962.	1.1	29
69	Oxidation Behavior of Cu60Zr30Ti10 Bulk Metallic Glass. Journal of Materials Research, 2005, 20, 1396-1403.	1.2	29
70	Heterojunctions and optical properties of ZnO/SnO2 nanocomposites adorned with quantum dots. Solar Energy Materials and Solar Cells, 2014, 128, 254-259.	3.0	29
71	Hot tensile properties of 25Cr-8Ni duplex stainless steel containing cellular (Ïƒ+Î³2) structure after various thermal treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 231, 42-47.	2.6	27
72	Machine learning prediction of magnetic properties of Fe-based metallic glasses considering glass forming ability. Journal of Materials Science and Technology, 2022, 103, 113-120.	5.6	27

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73	Fractal fracture of amorphous Fe46Ni32V2Si14B6 alloy. Journal of Non-Crystalline Solids, 1998, 224, 244-248.	1.5	26
74	Corrosion behavior of glassy Ni55Co5Nb20Ti10Zr10 alloy in 1N HCl solution studied by potentiostatic polarization and XPS. Corrosion Science, 2006, 48, 625-633.	3.0	26
75	Effect of Electropulsing on Recrystallization and Mechanical Properties of Silicon Steel Strips. Journal of Materials Science and Technology, 2011, 27, 1034-1038.	5.6	26
76	Effects of pre-compression deformation on nanoindentation response of Zr65Cu15Al10Ni10 bulk metallic glass. Journal of Alloys and Compounds, 2016, 674, 223-228.	2.8	24
77	Effect of Electropulsing on Recrystallization of Fe-3%Si Alloy Strip. Materials Transactions, 2010, 51, 1390-1394.	0.4	23
78	Al-Induced Crystallization of Amorphous Ge and Formation of Fractal Ge Micro-/Nanoclusters. Inorganic Chemistry, 2012, 51, 8473-8478.	1.9	23
79	Formation and corrosion behavior of glassy Niâ€“Nbâ€“Tiâ€“Zrâ€“Co(â€“Cu) alloys. Journal of Alloys and Compounds, 2007, 434-435, 240-243.	2.8	22
80	Sm-based Smâ€“Alâ€“Ni ternary bulk metallic glasses. Journal of Materials Research, 2007, 22, 573-577.	1.2	22
81	Statistic Analysis of the Mechanical Behavior of Bulk Metallic Glasses. Advanced Engineering Materials, 2009, 11, 370-373.	1.6	22
82	Formation, thermal stability and deformation behavior of graphite-flakes reinforced Cu-based bulk metallic glass matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 435-436, 132-138.	2.6	21
83	Electropulsing-induced G-texture evolution in a deformed Feâ€“3%Si alloy strip. Journal of Materials Research, 2011, 26, 917-922.	1.2	21
84	Creep properties of aged duplex stainless steels containing Ïƒ phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 266, 30-36.	2.6	20
85	Crystallization and corrosion resistance of Cu50Zr45Al5 bulk amorphous alloy. Materials Chemistry and Physics, 2006, 100, 34-37.	2.0	20
86	Stress-induced martensitic transformations in CuZrAl bulk metallic glass forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 479, 31-36.	2.6	20
87	Ïƒ phase dissolution in duplex stainless steel at elevated temperature studied by thermal analysis. Materials Letters, 2008, 62, 3991-3994.	1.3	20
88	Enhancing plasticity of Zr46.75Ti8.25Cu7.5Ni10Be27.5 bulk metallic glass by precompression. Applied Physics Letters, 2009, 95, 071906.	1.5	20
89	High-resolution transmission electron microscopy investigation of nanostructures in SnO2 thin films prepared by pulsed laser deposition. Journal of Solid State Chemistry, 2005, 178, 892-896.	1.4	19
90	Effects of niobium on thermal stability and corrosion behavior of glassy Cuâ€“Zrâ€“Alâ€“Nb alloys. Journal of Physics and Chemistry of Solids, 2006, 67, 762-766.	1.9	19

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91	Microstructural changes and fractal Ge nanocrystallites in polycrystalline Au/amorphous Ge thin bilayer films upon annealing. Journal Physics D: Applied Physics, 2006, 39, 4544-4548.	1.3	19
92	CoCuFeNi high entropy alloy reinforced by in-situ W particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140218.	2.6	19
93	Production of amorphous tin oxide thin films and microstructural transformation induced by heat treatment. Applied Physics A: Materials Science and Processing, 2005, 81, 1073-1076.	1.1	18
94	Quantum dot formation and dynamic scaling behavior of SnO2 nanocrystals induced by pulsed delivery. Applied Physics Letters, 2006, 88, 033115.	1.5	18
95	Formation, thermal stability and corrosion behavior of glassy Ti45Zr5Cu45Ni5 alloy. Intermetallics, 2007, 15, 683-686.	1.8	18
96	Relaxation and crystallization of Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 364, 198-201.	2.6	17
97	Nucleation mechanism and microstructural assessment of SnO2 nanowires prepared by pulsed laser deposition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 345, 391-397.	0.9	17
98	An analysis of the grain growth kinetics in Mn2O3 nanocrystals. Applied Physics A: Materials Science and Processing, 2005, 80, 703-707.	1.1	17
99	Magnetic and transformation behaviour of duplex stainless steels under non-isothermal conditions and temperature-fluctuation monitoring. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 149-160.	2.6	17
100	Pulsed Laser Ablation for Tin Dioxide: Nucleation, Growth, and Microstructures. Critical Reviews in Solid State and Materials Sciences, 2008, 33, 197-209.	6.8	17
101	Facile fabrication and application of SnO₂â€“ZnO nanocomposites: insight into chain-like frameworks, heterojunctions and quantum dots. RSC Advances, 2016, 6, 82096-82102.	1.7	17
102	Brittleness of Zr-based bulk metallic glass matrix composites containing ductile dendritic phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 406, 57-62.	2.6	16
103	Enhanced Plasticity of Zr-based Bulk Metallic Glass Matrix Composite with Ductile Reinforcement. Journal of Materials Research, 2005, 20, 2386-2390.	1.2	16
104	The oxidation behavior of Cu42Zr42Al8Ag8 bulk metallic glasses. Journal of Materials Science, 2013, 48, 1141-1146.	1.7	16
105	Dilatometric measurements and calculation of effective pair potentials for Zr41Ti14Cu12.5Ni10Be22.5 bulk metallic glass. Materials Letters, 2003, 57, 1229-1232.	1.3	15
106	Mystery of porous SnO2 thin film formation by pulsed delivery. Chemical Physics Letters, 2006, 422, 1-5.	1.2	15
107	Effects of pre-treatment on the ac magnetic susceptibility and ageing behaviour of duplex stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 78-86.	2.6	15
108	Magnetic behavior of Gd4Co3 metallic glass. Journal of Magnetism and Magnetic Materials, 2013, 326, 157-161.	1.0	15

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109	Microstructure, grain growth behavior and mechanical properties of W-CoCuFeNi tungsten heavy alloys prepared by infiltration. International Journal of Refractory Metals and Hard Materials, 2021, 98, 105572.	1.7	15
110	Spatial fractal characteristic of spinodal decomposition in Fe-Cr-Ni duplex stainless steel. Scripta Materialia, 1997, 37, 529-533.	2.6	14
111	Nanocrystals formation and fractal microstructural assessment in Au/Ge bilayer films upon annealing. Applied Surface Science, 2005, 250, 3-8.	3.1	14
112	Evolution of electronic structure and spectral evaluation in single-crystal Mn3O4 nanorods. Journal of Chemical Physics, 2006, 124, 184707.	1.2	14
113	Relaxation behavior on high frequency profile in strong/fragile metallic glass-forming systems. Journal of Non-Crystalline Solids, 2010, 356, 1198-1200.	1.5	14
114	G-band rectangular waveguide filter fabricated using deep reactive ion etching and bonding processes. Micro and Nano Letters, 2012, 7, 1237-1240.	0.6	14
115	Gold-rich ligament nanostructure by dealloying Au-based metallic glass ribbon for surface-enhanced Raman scattering. Scientific Reports, 2017, 7, 7485.	1.6	14
116	Fractal structure and optical properties of semicontinuous silver films. Thin Solid Films, 1997, 300, 1-5.	0.8	13
117	Effect of quasicrystalline phase on the deformation behavior of Zr62Al9.5Ni9.5Cu14Nb5 bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 398, 22-27.	2.6	13
118	Compressive and tensile properties of CuZrAl alloy plates containing martensitic phases. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 375-380.	2.6	13
119	Recent research situation in tin dioxide nanomaterials: synthesis, microstructures, and properties. Frontiers of Materials Science, 2013, 7, 203-226.	1.1	13
120	The interface character distribution of cold-rolled and annealed duplex stainless steel. Materials Characterization, 2016, 118, 397-404.	1.9	13
121	Electroplastic forming in a Fe-based metallic glass ribbon. Journal of Alloys and Compounds, 2016, 658, 795-799.	2.8	13
122	Evolution of 3D nanoporosity and morphology in selectively dealloying ternary Au₅₅Cu₂₅Si₂₀ metallic glass ribbon with enhanced alcohol electro-oxidation performance. Nanoscale, 2018, 10, 18846-18856.	2.8	13
123	Oxidation-induced copper segregation in Cu60Zr30Ti10 bulk metallic glass. Journal of Materials Research, 2006, 21, 851-855.	1.2	12
124	Corrosion behavior of a glassy Tiâ€“Zrâ€“Hfâ€“Cuâ€“Niâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 557-560.	2.6	12
125	Influence of short- to medium-range electronic and atomic structure on secondary relaxations in metallic glasses. Acta Materialia, 2020, 196, 88-100.	3.8	12
126	Effects of alloying on oxidation of Cu-based bulk metallic glasses. Journal of Materials Research, 2005, 20, 2647-2653.	1.2	11

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127	Effects of electropulsing treatment on mechanical properties in Ti rich TiNi shape memory alloy. Materials Science and Technology, 2013, 29, 1135-1138.	0.8	11
128	Abnormal thermal expansion, multiple transitions, magnetocaloric effect, and electronic structure of Gd6Co4.85. Journal of Applied Physics, 2015, 118, .	1.1	11
129	Structure and magnetic behaviors of Gd 6 FeBi 2 compound. Intermetallics, 2016, 68, 51-56.	1.8	11
130	The transformation characteristics of ferrite in a cast of duplex stainless steel and its applications in temperature measurement. Materials at High Temperatures, 1992, 10, 60-62.	0.5	10
131	Positron lifetime study of vacancy-type defects in amorphous and polycrystalline nanometer-sized alumina. Applied Physics A: Materials Science and Processing, 1998, 66, 413-418.	1.1	10
132	Transition from superparamagnetism to ferromagnetic single-domain in a Heisenberg model for nano-cluster magnetic system. Physica A: Statistical Mechanics and Its Applications, 2000, 276, 201-214.	1.2	10
133	Electron-Beam Irradiation Strategies for Growth Behavior of Tin Dioxide Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 20523-20528.	1.5	10
134	Design of soft magnetic CoSiB metallic glass with low Co contents. Journal of Applied Physics, 2011, 110, 083919.	1.1	10
135	Rapid thermoplastic formation of Fe-based metallic glass foil achieved by electropulsing. Materials Letters, 2014, 136, 353-355.	1.3	10
136	Texture analysis of grain refinement in undercooled Ni99.45B0.55. Journal of Materials Research, 2001, 16, 1434-1438.	1.2	9
137	Effect of composition and cooling rate on structures and properties of quenched or cast Alâ€“Vâ€“Fe alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 357, 20-26.	2.6	9
138	Magnetic properties of thermal-aged 316 stainless steel and its precipitated phases. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 379, 308-312.	2.6	9
139	Magnetic and ageing behaviour of 7MoPLUS and the viability of monitoring ferrite decomposition using AC magnetic susceptibility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 406, 110-118.	2.6	9
140	Exploring the microstructural and electrical properties of SnO2 nanorods prepared by a widely applicable route. Acta Materialia, 2009, 57, 4632-4637.	3.8	9
141	Defect evolution of nanocrystalline SnO2 thin films induced by pulsed delivery during in situ annealing. Acta Materialia, 2009, 57, 5078-5082.	3.8	9
142	Probing into Interesting Effects of Fractal Ge Nanoclusters Induced by Pd Nanoparticles. Inorganic Chemistry, 2011, 50, 6756-6761.	1.9	9
143	Silver mushroom induced by oxidation in Cu42Zr42Al8Ag8 metallic glasses. Journal of Alloys and Compounds, 2011, 509, S219-S222.	2.8	9
144	Polycondensation-type Ge nanofractal assembly. Materials Today, 2011, 14, 106-113.	8.3	9

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145	Shear dependent nonlinear vibration in a high quality factor single crystal silicon micromechanical resonator. Applied Physics Letters, 2012, 101, 034102.	1.5	9
146	Oxidation behavior of Zr56Co28Al16 bulk metallic glasses. Corrosion Science, 2012, 65, 528-534.	3.0	9
147	Vertical-external-cavity surface-emitting lasers and quantum dot lasers. Frontiers of Optoelectronics, 2012, 5, 157-170.	1.9	9
148	Corrosion of Glassy (Ni8Nb5)99.5Sb0.5 Alloy and Stability of Passive Film. Rare Metal Materials and Engineering, 2013, 42, 447-451.	0.8	9
149	High temperature deformation behavior of Mg67Zn28Ca5 metallic glass and its composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 621, 1-7.	2.6	9
150	Structures and physical properties of two magnetic Fe-based metallic glasses. Journal of Alloys and Compounds, 2018, 747, 636-639.	2.8	9
151	Heterogeneous Structure Design to Strengthen Carbon-Containing CoCrFeNi High Entropy Alloy. Acta Metallurgica Sinica (English Letters), 2021, 34, 1503-1510.	1.5	9
152	Interdiffusion assessment of nanoparticles in fat fractal patterns. Journal Physics D: Applied Physics, 2004, 37, 2726-2729.	1.3	8
153	Difference in crystallization kinetics of Zr41Ti14Cu12.5Ni10Be22.5 bulk metallic glass under different oxidizing environments. Intermetallics, 2004, 12, 1257-1259.	1.8	8
154	The best glass-forming compositions in Alâ€“Co(or Ni)â€“Y ternary systems. Journal of Alloys and Compounds, 2007, 434-435, 167-170.	2.8	8
155	Bulk-quantity synthesis and electrical properties of SnO2 nanowires prepared by pulsed delivery. Materials Chemistry and Physics, 2009, 115, 660-663.	2.0	8
156	Controllable Growth and Unexpected Effects of Ge Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 9871-9878.	1.5	8
157	Atomic-level structures and physical properties of magnetic CoSiB metallic glasses. Journal of Magnetism and Magnetic Materials, 2014, 352, 49-55.	1.0	8
158	3D Nanoporous Gold with Very Low Parting Limit Derived from Auâ€Based Metallic Glass and Enhanced Methanol Electroâ€oxidation Catalytic Performance Induced by Metal Migration. ChemNanoMat, 2018, 4, 88-97.	1.5	8
159	Strengthening and deformation mechanism of a Fe20Co20Cr20Mn20Ni20 high entropy alloy with high nitrogen content. Journal of Alloys and Compounds, 2021, 871, 159587.	2.8	8
160	Strengthening and deformation mechanism of interstitially N and C doped FeCrCoNi high entropy alloy. Journal of Alloys and Compounds, 2022, 904, 164118.	2.8	8
161	Thermal analysis studies of oxygen chemisorption on nanocrystalline SnO₂. Journal of Materials Research, 2000, 15, 1994-1997.	1.2	7
162	Investigation on bulk Ndâ€“Feâ€“Al amorphous/nano-crystalline alloy. Journal of Magnetism and Magnetic Materials, 2002, 241, 73-80.	1.0	7

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163	Bulk-quantity SnO2 nanorods synthesized from simple calcining process based on annealing precursor powders. Journal of Non-Crystalline Solids, 2005, 351, 3619-3623.	1.5	7
164	Characterization Strategies for Mn₂O₃ Nanomaterials. Journal of Nanoscience and Nanotechnology, 2014, 14, 1693-1709.	0.9	6
165	A novel technique to detect hot spots in high temperature boilers. Sensors and Actuators A: Physical, 2001, 95, 51-54.	2.0	5
166	Insights into microstructural evolution and polycrystalline compounds formation from Pdâ€“Ge thin films. Physica B: Condensed Matter, 2005, 358, 56-62.	1.3	5
167	Formation and mechanical properties of minor-Sb alloyed Ni8Nb5 bulk metallic glasses. Journal of Alloys and Compounds, 2010, 491, 513-516.	2.8	5
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