Fathallah Karimzadeh

List of Publications by Year
in descending order

273 papers	7,415 citations	53660 45 h-index	110170 64 g-index
275 all docs	275 docs citations	275 times ranked	7547 citing authors

#	Article	IF	Citations
1	A comparative review on sleep stage classification methods in patients and healthy individuals. Computer Methods and Programs in Biomedicine, 2017, 140, 77-91.	2.6	225
2	Fabrication and evaluation of mechanical and tribological properties of boron carbide reinforced aluminum matrix nanocomposites. Materials & Design, 2011, 32, 3263-3271.	5.1	218
3	Effect of TIG welding on corrosion behavior of 316L stainless steel. Materials Letters, 2007, 61, 2343-2346.	1.3	188
4	An eco-friendly triboelectric hybrid nanogenerators based on graphene oxide incorporated polycaprolactone fibers and cellulose paper. Nano Energy, 2019, 59, 412-421.	8.2	142
5	A novel technique for development of A356/Al2O3 surface nanocomposite by friction stir processing. Journal of Materials Processing Technology, 2011, 211, 1614-1619.	3.1	115
6	A review on recent advancements in electrochemical biosensing using carbonaceous nanomaterials. Mikrochimica Acta, 2019, 186, 773.	2.5	103
7	Corrosion behavior of aluminum 6061 alloy joined by friction stir welding and gas tungsten arc welding methods. Materials & Design, 2012, 39, 329-333.	5.1	102
8	Bioavailability of coated and uncoated ZnO nanoparticles to cucumber in soil with or without organic matter. Ecotoxicology and Environmental Safety, 2017, 144, 543-551.	2.9	92
9	Tribological properties of Al6061â€“Al2O3 nanocomposite prepared by milling and hot pressing. Materials & Design, 2010, 31, 4777-4785.	5.1	88
10	Synthesis and characterization of nanocrystalline NiTi intermetallic by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 46-51.	2.6	85
11	A Novel Method for Noninvasive Estimation of Utility Harmonic Impedance Based on Complex Independent Component Analysis. IEEE Transactions on Power Delivery, 2015, 30, 1843-1852.	2.9	83
12	Tribological and microstructural evaluation of friction stir processed Al2024 alloy. Materials & Design, 2010, 31, 4891-4896.	5.1	78
13	Synthesis of nanocrystalline NiAl by mechanical alloying. Journal of Materials Processing Technology, 2008, 200, 312-315.	3.1	76
14	Rapid carbothermic synthesis of silicon carbide nano powders by using microwave heating. Journal of the European Ceramic Society, 2012, 32, 1787-1794.	2.8	76
15	An injectable mechanically robust hydrogel of Kappa-carrageenan-dopamine functionalized graphene oxide for promoting cell growth. Carbohydrate Polymers, 2019, 214, 234-249.	5.1	76
16	Development of Cu1.3Mn1.7O4 spinel coating on ferritic stainless steel for solid oxide fuel cell interconnects. Journal of Power Sources, 2015, 273, 1073-1083.	4.0	74
17	A non-enzymatic sensor based on three-dimensional graphene foam decorated with Cu-xCu2O nanoparticles for electrochemical detection of glucose and its application in human serum. Materials Science and Engineering C, 2020, 108, 110216.	3.8	72
18	Wear behavior of aluminum matrix hybrid nanocomposites fabricated by powder metallurgy. Wear, 2011, 271, 1072-1079.	1.5	71

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19	Anticonvulsant and neuroprotective effects of Pimpinella anisum in rat brain. BMC Complementary and Alternative Medicine, 2012, 12, 76.	3.7	71
20	Mechanical properties of nanostructured Al2024â€“MWCNT composite prepared by optimized mechanical milling and hot pressing methods. Advanced Powder Technology, 2012, 23, 205-210.	2.0	69
21	Effect of heat treatment on microstructure and corrosion behavior of Al6061 alloy weldment. Materials & Design, 2010, 31, 2643-2648.	5.1	67
22	Chitosan-58S bioactive glass nanocomposite coatings on TiO2 nanotube: Structural and biological properties. Applied Surface Science, 2018, 441, 138-149.	3.1	65
23	Fabrication of Alâ€“Zn/Î±-Al2O3 nanocomposite by mechanical alloying. Materials Letters, 2008, 62, 282-285.	1.3	62
24	Method for determining utility and consumer harmonic contributions based on complex independent component analysis. IET Generation, Transmission and Distribution, 2016, 10, 526-534.	1.4	62
25	Tribological Behavior of A356/Al2O3 Surface Nanocomposite Prepared by Friction Stir Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2250-2259.	1.1	61
26	Effect of composition on structural and magnetic properties of nanocrystalline ball milled Ni1â^'xZnxFe2O4 ferrite. Physica B: Condensed Matter, 2010, 405, 507-512.	1.3	60
27	Bulk Alâ€“Zn/Al2O3 nanocomposite prepared by reactive milling and hot pressing methods. Journal of Alloys and Compounds, 2009, 475, 198-201.	2.8	58
28	Diagnosis of EGFR exon21 L858R point mutation as lung cancer biomarker by electrochemical DNA biosensor based on reduced graphene oxide /functionalized ordered mesoporous carbon/Ni-oxytetracycline metallopolymer nanoparticles modified pencil graphite electrode. Biosensors and Bioelectronics, 2018, 113, 108-115.	5.3	58
29	Synthesis and characterization of NiAlâ€“Al2O3 nanocomposite powder by mechanical alloying. Journal of Alloys and Compounds, 2009, 477, 178-181.	2.8	57
30	Development of super-hydrophobic surface on Al 6061 by anodizing and the evaluation of its corrosion behavior. Surface and Coatings Technology, 2017, 324, 99-105.	2.2	57
31	Synthesis and characterization of Zn/Al2O3 nanocomposite by mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 45-48.	2.6	56
32	Study on solid-state reactions of nanocrystalline TiAl synthesized by mechanical alloying. Journal of Alloys and Compounds, 2009, 471, 93-97.	2.8	54
33	The role of martensitic transformation on bimodal grain structure in ultrafine grained AISI 304L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 221-230.	2.6	54
34	Wear characteristics of Alâ€“Crâ€“O surface nano-composite layer fabricated on Al6061 plate by friction stir processing. Wear, 2013, 304, 144-151.	1.5	53
35	Synthesis and thermodynamic analysis of nanostructured CuNiCoZnAl high entropy alloy produced by mechanical alloying. Journal of Alloys and Compounds, 2016, 685, 278-286.	2.8	52
36	Mechanosynthesis of nanostructured magnetic Niâ€“Zn ferrite. Powder Technology, 2009, 193, 150-153.	2.1	51

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37	Synthesis and characterization of TiAl/Î±-Al2O3 nanocomposite by mechanical alloying. Journal of Alloys and Compounds, 2009, 478, 257-259.	2.8	51
38	Friction-stir welding of ultrafine grained austenitic 304L stainless steel produced by martensitic thermomechanical processing. Materials & Design, 2015, 76, 130-140.	5.1	51
39	Fabrication and mechanical property prediction of carbon nanotube reinforced Aluminum nanocomposites. Materials & Design, 2012, 34, 1-14.	5.1	50
40	Ni nanoparticle-decorated reduced graphene oxide for non-enzymatic glucose sensing: An experimental and modeling study. Electrochimica Acta, 2017, 240, 388-398.	2.6	50
41	Artificial neural network modeling for evaluating of epitaxial growth of Ti6Al4V weldment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 432, 184-190.	2.6	49
42	Microstructural evolution of nanostructure 7075 aluminum alloy during isothermal annealing. Journal of Alloys and Compounds, 2010, 493, 137-141.	2.8	48
43	Compressive and wear behaviors of bulk nanostructured Al2024 alloy. Materials & Design, 2010, 31, 663-669.	5.1	47
44	Mechanical modelling of carbon nanomaterials from nanotubes to buckypaper. Carbon, 2010, 48, 3916-3930.	5.4	47
45	TiO2 nanotubes/reduced GO nanoparticles for sensitive detection of breast cancer cells and photothermal performance. Talanta, 2020, 208, 120369.	2.9	47
46	Improving visible light photocatalytic inactivation of E. coli by inducing highly efficient radical pathways through peroxymonosulfate activation using 3-D, surface-enhanced, reduced graphene oxide (rGO) aerogels. Chemical Engineering Journal, 2020, 396, 125189.	6.6	47
47	Mechanochemical assisted synthesis of B4C nanoparticles. Advanced Powder Technology, 2011, 22, 354-358.	2.0	46
48	EFFECT OF MICROPLASMA ARC WELDING PROCESS PARAMETERS ON GRAIN GROWTH AND POROSITY DISTRIBUTION OF THIN SHEET Ti6AL4V ALLOY WELDMENT. Materials and Manufacturing Processes, 2005, 20, 205-219.	2.7	45
49	Triboelectric nanogenerators based on graphene oxide coated nanocomposite fibers for biomedical applications. Nanotechnology, 2020, 31, 385402.	1.3	45
50	Neuronal death by repetitive cortical spreading depression in juvenile rat brain. Experimental Neurology, 2012, 233, 438-446.	2.0	44
51	Effect of heat treatment on corrosion behavior of Tiâ€“6Alâ€“4V alloy weldments. Journal of Materials Processing Technology, 2008, 206, 388-394.	3.1	43
52	The effect of grain size and martensitic transformation on the wear behavior of AISI 304L stainless steel. Materials & Design, 2014, 64, 56-62.	5.1	43
53	Microstructure and tensile properties of thixoformed A356 alloy. Materials Characterization, 2008, 59, 223-228.	1.9	42
54	Characterization and formation mechanism of nanocrystalline (Fe,Ti)3Al intermetallic compound prepared by mechanical alloying. Journal of Alloys and Compounds, 2009, 480, 392-396.	2.8	42

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55	Preparation of Al2O3â€“TiB2 nanocomposite powder by mechanochemical reaction between Al, B2O3 and Ti. Advanced Powder Technology, 2011, 22, 526-531.	2.0	42
56	A comparative study on the wear properties of coarse-grained Al6061 alloy and nanostructured Al6061â€“Al2O3 composites. Tribology International, 2012, 54, 58-67.	3.0	42
57	Thermodynamic analysis of Tiâ€“Alâ€“C intermetallics formation by mechanical alloying. Journal of Alloys and Compounds, 2013, 576, 317-323.	2.8	42
58	Mechanochemical behavior of Fe2O3â€“Alâ€“Fe powder mixtures to produce Fe3Alâ€“Al2O3 nanocomposite powder. Journal of Materials Science, 2008, 43, 132-138.	1.7	41
59	Synthesis of titanium diboride reinforced alumina matrix nanocomposite by mechanochemical reaction of Alâ€“TiO2â€“B2O3. Journal of Alloys and Compounds, 2010, 502, 508-512.	2.8	41
60	Cognitive impairments and neuronal injury in different brain regions of a genetic rat model of absence epilepsy. Neuroscience, 2015, 298, 161-170.	1.1	41
61	Oxidation and electrical behavior of CuFe2O4 spinel coated Crofer 22 APU stainless steel for SOFC interconnect application. Solid State Ionics, 2016, 289, 95-105.	1.3	41
62	A study on mechanochemical behavior of B2O3â€“Al system to produce alumina-based nanocomposite. Journal of Alloys and Compounds, 2009, 482, 110-113.	2.8	40
63	Preparation of nano-particles from waste tire rubber and evaluation of their effectiveness as zinc source for cucumber in nutrient solution culture. Scientia Horticulturae, 2013, 160, 398-403.	1.7	39
64	Comparative study on microstructure and corrosion behavior of nanostructured hydroxyapatite coatings deposited by high velocity oxygen fuel and flame spraying on AZ61 magnesium based substrates. Applied Surface Science, 2019, 465, 614-624.	3.1	38
65	Thermodynamic analysis of NiTi formation by mechanical alloying. Materials Letters, 2009, 63, 786-788.	1.3	37
66	A novel route for development of Alâ€“Crâ€“O surface nano-composite by friction stir processing. Journal of Alloys and Compounds, 2013, 562, 48-55.	2.8	37
67	Mesoporous and hollow hydroxyapatite nanostructured particles as a drug delivery vehicle for the local release of ibuprofen. Materials Science and Engineering C, 2018, 92, 712-719.	3.8	37
68	Gas tungsten arc welding and friction stir welding of ultrafine grained AISI 304L stainless steel: Microstructural and mechanical behavior characterization. Materials Characterization, 2015, 109, 138-151.	1.9	36
69	Gelatin methacryloyl hydrogel for glucose biosensing using Ni nanoparticles-reduced graphene oxide: An experimental and modeling study. Electrochimica Acta, 2018, 261, 275-283.	2.6	36
70	Formation mechanism and characterization of nanostructured Ti6Al4V alloy prepared by mechanical alloying. Materials & Design, 2012, 37, 152-160.	5.1	35
71	Structural and functional effects of social isolation on the hippocampus of rats with traumatic brain injury. Behavioural Brain Research, 2015, 278, 55-65.	1.2	35
72	Mesoporous bioactive glasses for the combined application of osteosarcoma treatment and bone regeneration. Materials Science and Engineering C, 2019, 104, 109994.	3.8	35

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73	Softening behaviour of nanostructured Alâ€“14wt% Zn alloy during mechanical alloying. Journal of Alloys and Compounds, 2008, 464, 107-110.	2.8	34
74	Mechanochemical synthesis of (Fe,Ti)3Alâ€“Al2O3 nanocomposite. Journal of Alloys and Compounds, 2009, 488, 144-147.	2.8	34
75	Mechanochemically synthesized Al2O3â€“TiC nanocomposite. Journal of Alloys and Compounds, 2010, 491, 411-415.	2.8	34
76	Investigation of structural and magnetic properties of nanocrystalline Ni0.3Zn0.7Fe2O4 prepared by high energy ball milling. Journal of Alloys and Compounds, 2009, 480, 737-740.	2.8	33
77	A study on the effects of silica particle size and milling time on synthesis of silicon carbide nanoparticles by carbothermic reduction. International Journal of Refractory Metals and Hard Materials, 2011, 29, 645-650.	1.7	33
78	A Distributed Classification Procedure for Automatic Sleep Stage Scoring Based on Instantaneous Electroencephalogram Phase and Envelope Features. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 362-370.	2.7	33
79	Erosion-corrosion behavior of highly hydrophobic hierarchical nickel coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 446-454.	2.3	33
80	Peptide modified paper based impedimetric immunoassay with nanocomposite electrodes as a point-of-care testing of Alpha-fetoprotein in human serum. Biosensors and Bioelectronics, 2018, 117, 748-757.	5.3	33
81	A conductive film of chitosan-polycaprolcatone-polypyrrole with potential in heart patch application. Polymer Testing, 2019, 75, 254-261.	2.3	33
82	Electroconductive Graphene-Containing Polymeric Patch: A Promising Platform for Future Cardiac Repair. ACS Biomaterials Science and Engineering, 2020, 6, 4214-4224.	2.6	33
83	Mechanochemical assisted synthesis of NiTi intermetallic based nanocomposite reinforced by Al2O3. Journal of Alloys and Compounds, 2009, 467, 173-178.	2.8	32
84	Thermal stability and structural changes during heat treatment of nanostructured Al2024 alloy. Journal of Alloys and Compounds, 2009, 478, 260-264.	2.8	32
85	Bex1 is involved in the regeneration of axons after injury. Journal of Neurochemistry, 2010, 115, 910-920.	2.1	31
86	Nanocrystalline NiAl Coating Prepared by HVOF Thermal Spraying. Journal of Thermal Spray Technology, 2011, 20, 440-446.	1.6	31
87	In situ synthesis mechanism of Al2O3â€“Mo nanocomposite by ball milling process. Journal of Alloys and Compounds, 2009, 477, 692-695.	2.8	30
88	Gold Nano/Micro-Islands Overcome the Molecularly Imprinted Polymer Limitations to Achieve Ultrasensitive Protein Detection. ACS Sensors, 2021, 6, 797-807.	4.0	30
89	Evaluation of microstructure and mechanical properties of transient liquid phase bonding of Inconel 718 and nano/ultrafine-grained 304L stainless steel. Journal of Manufacturing Processes, 2020, 49, 162-174.	2.8	29
90	Synthesis and formation mechanism of nanostructured NbAl3 intermetallic during mechanical alloying and a kinetic study on its formation. Thermochimica Acta, 2012, 529, 36-44.	1.2	28

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91	Physical, mechanical and dry sliding wear properties of an Alâ€“Siâ€“Mgâ€“Niâ€“Cu alloy under different processing conditions. Journal of Alloys and Compounds, 2014, 582, 213-222.	2.8	28
92	Mechanochemically synthesized Fe3Alâ€“Al2O3 nanocomposite. Journal of Alloys and Compounds, 2009, 467, 159-162.	2.8	27
93	The structure and mechanical properties of Fe3Alâ€“30vol.% Al2O3 nanocomposite. Journal of Alloys and Compounds, 2009, 488, 134-137.	2.8	27
94	Fabrication and characterization of nanostructured Ti6Al4V powder from machining scraps. Advanced Powder Technology, 2010, 21, 336-340.	2.0	27
95	Effects of coated and non-coated ZnO nano particles on cucumber seedlings grown in gel chamber. Archives of Agronomy and Soil Science, 2017, 63, 1108-1120.	1.3	27
96	Highly hydrophobic Ni-W electrodeposited film with hierarchical structure. Surface and Coatings Technology, 2018, 344, 626-635.	2.2	27
97	Thermodynamic aspects of nanostructured Ti5Si3 formation during mechanical alloying and its characterization. Bulletin of Materials Science, 2012, 35, 439-447.	0.8	26
98	The effect of cold rolling and annealing on microstructure and tensile properties of the nanostructured Ni50Ti50 shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 33-37.	2.6	26
99	Green reduction of graphene oxide by ascorbic acid. AIP Conference Proceedings, 2018, , .	0.3	26
100	Electrochemical molecularly bioimprinted siloxane biosensor on the basis of core/shell silver nanoparticles/EGFR exon 21 L858R point mutant gene/siloxane film for ultra-sensing of Gemcitabine as a lung cancer chemotherapy medication. Biosensors and Bioelectronics, 2019, 145, 111611.	5.3	26
101	Insights into the Photocatalytic Bacterial Inactivation by Flower-Like Bi2WO6 under Solar or Visible Light, Through in Situ Monitoring and Determination of Reactive Oxygen Species (ROS). Water (Switzerland), 2020, 12, 1099.	1.2	26
102	Formation of Tiâ€“Ni intermetallic coatings on carbon tool steel by a duplex process. Surface and Coatings Technology, 2001, 148, 55-60.	2.2	25
103	Modeling Considerations and Material Properties Evaluation in Analysis of Carbon Nano-Tubes Composite. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 695-705.	1.0	25
104	Thermodynamic analysis of solid solution formation in the nanocrystalline Feâ€“Tiâ€“Al ternary system during mechanical alloying. Journal of Chemical Thermodynamics, 2013, 59, 243-249.	1.0	25
105	Development of surface composite based on Mgâ€“Alâ€“Ni system on AZ31 magnesium alloy and evaluation of formation mechanism. Journal of Alloys and Compounds, 2015, 623, 335-341.	2.8	25
106	Magnetocaloric effect in Ni47Mn40Sn13 alloy prepared by mechanical alloying. Journal of Alloys and Compounds, 2014, 598, 6-10.	2.8	24
107	CdGAP/ARHGAP31, a Cdc42/Rac1 GTPase regulator, is critical for vascular development and VEGF-mediated angiogenesis. Scientific Reports, 2016, 6, 27485.	1.6	24
108	A study of pressureless microwave sintering, microwave-assisted hot press sintering and conventional hot pressing on properties of aluminium/alumina nanocomposite. Journal of Mechanical Science and Technology, 2016, 30, 1967-1972.	0.7	24

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109	Investigation of Ni nanocrystallization and the effect of Al2O3 addition by high-energy ball milling. Journal of Materials Processing Technology, 2008, 204, 125-129.	3.1	23
110	Thermal Stability Study of Ultrafine Grained 304L Stainless Steel Produced by Martensitic Process. Journal of Materials Engineering and Performance, 2014, 23, 1665-1672.	1.2	23
111	Development of Surface Nanocomposite Based on Al-Ni-O Ternary System on Al6061 Alloy by Friction-Stir Processing and Evaluation of Its Properties. Jom, 2015, 67, 998-1006.	0.9	23
112	Resistance spot welding of ultrafine grained/nanostructured Al 6061 alloy produced by cryorolling process and evaluation of weldment properties. Journal of Manufacturing Processes, 2017, 26, 84-93.	2.8	23
113	Effects of Nanoparticles on Activity of Lignan Biosynthesis Enzymes in Cell Suspension Culture of Linum usitatissimum L.. Russian Journal of Plant Physiology, 2019, 66, 756-762.	0.5	23
114	Flower-like magnetized photocatalysts accelerating an emerging pollutant removal under indoor visible light and related phenomena. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 105-113.	2.0	23
115	Decrypting the photocatalytic bacterial inactivation of hierarchical flower-like Bi2WO6 microspheres induced by surface properties: Experimental studies and ab initio calculations. Chemical Engineering Journal, 2022, 427, 131768.	6.6	23
116	Effect of heat treatment on martensitic transformation of Ni47Mn40Sn13 ferromagnetic shape memory alloy prepared by mechanical alloying. Metals and Materials International, 2015, 21, 758-764.	1.8	22
117	A study on corrosion behavior of graphene oxide coating produced on stainless steel by electrophoretic deposition. Surface and Coatings Technology, 2019, 372, 327-342.	2.2	22
118	Thermodynamic analysis of (Ni, Fe)3Al formation by mechanical alloying. Journal of Chemical Thermodynamics, 2012, 54, 406-411.	1.0	21
119	Kinetic analysis of thermite reaction in Alâ€“Tiâ€“Fe2O3 system to produce (Fe,Ti)3Alâ€“Al2O3 nanocomposite. Powder Technology, 2014, 253, 553-560.	2.1	21
120	A study on mechanical and physical properties of monocalcium aluminate cement reinforced with nano-SiO2 particles. Composites Part B: Engineering, 2014, 56, 30-33.	5.9	21
121	Corrosion and galvanic coupling of heat treated Ti-6Al-4V alloy weldment. Materials Letters, 2008, 62, 1575-1578.	1.3	20
122	Effect of casting process on microstructure and tribological behavior of LM13 alloy. Journal of Alloys and Compounds, 2009, 475, 321-327.	2.8	20
123	Mechanical alloying behavior of Ti6Al4V residual scraps with addition of Al2O3 to produce nanostructured powder. Materials & Design, 2010, 31, 3954-3959.	5.1	20
124	Investigation of in-situ synthesis of NbAl3/Al2O3 nanocomposite by mechanical alloying and its formation mechanism. Journal of Alloys and Compounds, 2010, 503, 294-298.	2.8	20
125	Microstructural characterization and electrical conductivity of CuxMn3â^'xO4 (0.9â‰¤xâ‰¤1.3) spinels produced by optimized glycineâ€“nitrate combustion and mechanical milling processes. Ceramics International, 2014, 40, 12219-12226.	2.3	20
126	Microstructural and wear characteristics of HVOF-sprayed nanocrystalline NiAl coating. Wear, 2014, 309, 192-199.	1.5	20

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127	Recrystallisation mechanism during friction stir welding of ultrafine- and coarse-grained AISI 304L stainless steel. Science and Technology of Welding and Joining, 2016, 21, 287-294.	1.5	20
128	Highly hydrophobic nickel and nickel-tungsten coatings: Microstructural and surface properties. Applied Surface Science, 2020, 520, 146319.	3.1	20
129	Diminution of the NMDA receptor NR_{2B}subunit in cortical and subcortical areas of WAG/Rij rats. Synapse, 2013, 67, 839-846.	0.6	19
130	The effect of thermomechanical processing on the microstructure and mechanical properties of the nanocrystalline TiNiCo shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 183-189.	2.6	19
131	Fabrication and modeling of shape memory alloy springs. Smart Materials and Structures, 2016, 25, 125003.	1.8	19
132	Copper nanoparticles supported on charcoal mediated one-pot three-component synthesis of N-substituted-2H-indazoles via consecutive condensation Câ€“N and Nâ€“N bond formation. Canadian Journal of Chemistry, 2019, 97, 303-309.	0.6	19
133	Mechanochemical synthesis of Al2O3/Co nanocomposite by aluminothermic reaction. Advanced Powder Technology, 2012, 23, 334-337.	2.0	18
134	Development of NiFe-CNT and Ni3Fe-CNT nanocomposites by mechanical alloying. Advanced Powder Technology, 2012, 23, 338-342.	2.0	18
135	The effect of vacancy defects and temperature on fundamental frequency of single walled carbon nanotubes. Computational Materials Science, 2012, 63, 12-19.	1.4	18
136	Synthesis of the CaAl2O4 nanoceramic compound using high-energy ball milling with subsequent annealing. Advanced Powder Technology, 2014, 25, 338-341.	2.0	18
137	On effect of squeezing pressure on microstructural characteristics, heat treatment response and electrical conductivity of an Al-Si-Mg-Ni-Cu alloy. Materials Science and Technology, 2014, 30, 1162-1169.	0.8	18
138	Calreticulin Is Required for TGF-Î²-Induced Epithelial-to-Mesenchymal Transition during Cardiogenesis in Mouse Embryonic Stem Cells. Stem Cell Reports, 2017, 8, 1299-1311.	2.3	18
139	Microglial Cell Death Induced by Glycated Bovine Serum Albumin: Nitric Oxide Involvement. Journal of Biochemistry, 2008, 144, 197-206.	0.9	17
140	Non-isothermal kinetic studies on the formation of Al2O3/Nb composite. Thermochimica Acta, 2010, 511, 32-36.	1.2	17
141	Wear behaviour of Alâ€“Al₂O₃ nanocomposites prepared by mechanical alloying and hot pressing. Materials Science and Technology, 2010, 26, 1114-1119.	0.8	17
142	Mechanochemical assisted synthesis of Cu(Mo)/Al2O3 nanocomposite. Journal of Alloys and Compounds, 2010, 497, 95-99.	2.8	17
143	Thermodynamic analysis of nanocrystalline and amorphous phase formation in Nbâ€“Al system during mechanical alloying. Powder Metallurgy, 2012, 55, 142-147.	0.9	17
144	Development of Al356â€“Al2O3 Nanocomposite Coatings by High Velocity Oxy-fuel Technique. Journal of Materials Science and Technology, 2013, 29, 813-820.	5.6	17

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145	Photovoltaic Characterization and Electrochemical Impedance Spectroscopy Analysis of Dye-Sensitized Solar Cells Based on Composite TiO2â€“MWCNT Photoelectrodes. Journal of Electronic Materials, 2014, 43, 1450-1459.	1.0	17
146	Mechanical and tribological behavior of severely plastic deformed Al6061 at cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 56-63.	2.6	17
147	Fabrication and characterization of nanostructured hydroxyapatite coating on Mg-based alloy by high-velocity oxygen fuel spraying. Ceramics International, 2018, 44, 14667-14676.	2.3	17
148	Microstructure Evolution of Ultra-Fine-Grained AZ31 B Magnesium Alloy Produced by Submerged Friction Stir Processing. Journal of Materials Engineering and Performance, 2019, 28, 4593-4601.	1.2	17
149	The pattern of injury and poisoning in South East Iran. BMC International Health and Human Rights, 2012, 12, 17.	2.5	16
150	Microstructure and Mechanical Property Change During FSW and GTAW of Al6061 Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2187-2195.	1.1	16
151	Simultaneous Reconfiguration and Capacitor Placement with Harmonic Consideration Using Fuzzy Harmony Search Algorithm. Arabian Journal for Science and Engineering, 2014, 39, 3859-3871.	1.1	16
152	Effects of garlic extract on spreading depression: In vitro and in vivo investigations. Nutritional Neuroscience, 2017, 20, 127-134.	1.5	16
153	Developmental changes in Notch1 and NLE1 expression in a genetic model of absence epilepsy. Brain Structure and Function, 2017, 222, 2773-2785.	1.2	16
154	Effect of graphene oxide and friction stir processing on microstructure and mechanical properties of Al5083 matrix composite. Materials Research Express, 2019, 6, 106566.	0.8	16
155	The effect of exercise on GABA signaling pathway in the model of chemically induced seizures. Life Sciences, 2019, 232, 116667.	2.0	16
156	Polycaprolactoneâ€chitosanâ€polypyrrole conductive biocomposite nanofibrous scaffold for biomedical applications. Polymer Composites, 2020, 41, 645-652.	2.3	16
157	Stable Knockdown of Adenosine Kinase by Lentiviral Anti-ADK miR-shRNAs in Wharton's Jelly Stem Cells. Cell Journal, 2018, 20, 1-9.	0.2	16
158	Structural evolution and grain growth kinetics during isothermal heat treatment of nanostructured Al6061. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 525, 107-111.	2.6	15
159	Thermodynamic Aspects of Nanostructured CoAl Intermetallic Compound during Mechanical Alloying. Journal of Materials Science and Technology, 2011, 27, 601-606.	5.6	15
160	Synthesis of Nanocrystalline (Fe,Cr)3Al Powder by Mechanical Alloying. Materials and Manufacturing Processes, 2012, 27, 467-471.	2.7	15
161	Microstructure and mechanical properties of transient liquid phase bonding of /Al nanocomposite using copper interlayer. Materials & Design, 2014, 53, 275-282.	5.1	15
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