

# Fathallah Karimzadeh

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6013911/fathallah-karimzadeh-publications-by-citations.pdf>

**Version:** 2024-04-20

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.

272  
papers

5,567  
citations

40  
h-index

55  
g-index

275  
ext. papers

6,478  
ext. citations

4.1  
avg, IF

6.31  
L-index

#	Paper	IF	Citations
272	Fabrication and evaluation of mechanical and tribological properties of boron carbide reinforced aluminum matrix nanocomposites. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 3263-3271		180
271	A comparative review on sleep stage classification methods in patients and healthy individuals. <i>Computer Methods and Programs in Biomedicine</i> , <b>2017</b> , 140, 77-91	6.9	144
270	Effect of TIG welding on corrosion behavior of 316L stainless steel. <i>Materials Letters</i> , <b>2007</b> , 61, 2343-2346	5.3	131
269	A novel technique for development of A356/Al <sub>2</sub> O <sub>3</sub> surface nanocomposite by friction stir processing. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1614-1619	5.3	100
268	Corrosion behavior of aluminum 6061 alloy joined by friction stir welding and gas tungsten arc welding methods. <i>Materials &amp; Design</i> , <b>2012</b> , 39, 329-333		76
267	Tribological properties of Al <sub>6061</sub> /Al <sub>2</sub> O <sub>3</sub> nanocomposite prepared by milling and hot pressing. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4777-4785		72
266	Synthesis and characterization of nanocrystalline NiTi intermetallic by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 487, 46-51	5.3	70
265	An eco-friendly triboelectric hybrid nanogenerators based on graphene oxide incorporated polycaprolactone fibers and cellulose paper. <i>Nano Energy</i> , <b>2019</b> , 59, 412-421	17.1	69
264	Synthesis of nanocrystalline NiAl by mechanical alloying. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 200, 312-315	5.3	68
263	A review on recent advancements in electrochemical biosensing using carbonaceous nanomaterials. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 773	5.8	65
262	Rapid carbothermic synthesis of silicon carbide nano powders by using microwave heating. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 1787-1794	6	65
261	Tribological and microstructural evaluation of friction stir processed Al <sub>2024</sub> alloy. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4891-4896		57
260	Development of Cu <sub>1.3</sub> Mn <sub>1.7</sub> O <sub>4</sub> spinel coating on ferritic stainless steel for solid oxide fuel cell interconnects. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 1073-1083	8.9	56
259	Anticonvulsant and neuroprotective effects of Pimpinella anisum in rat brain. <i>BMC Complementary and Alternative Medicine</i> , <b>2012</b> , 12, 76	4.7	56
258	A Novel Method for Noninvasive Estimation of Utility Harmonic Impedance Based on Complex Independent Component Analysis. <i>IEEE Transactions on Power Delivery</i> , <b>2015</b> , 30, 1843-1852	4.3	55
257	Wear behavior of aluminum matrix hybrid nanocomposites fabricated by powder metallurgy. <i>Wear</i> , <b>2011</b> , 271, 1072-1079	3.5	54
256	Synthesis and characterization of NiAl/Al <sub>2</sub> O <sub>3</sub> nanocomposite powder by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 178-181	5.7	54

255	Fabrication of Al <sub>70</sub> Zn <sub>30</sub> /Al <sub>2</sub> O <sub>3</sub> nanocomposite by mechanical alloying. <i>Materials Letters</i> , <b>2008</b> , 62, 282-285	3.3	54
254	Mechanical properties of nanostructured Al <sub>2024</sub> /MWCNT composite prepared by optimized mechanical milling and hot pressing methods. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 205-210	4.6	53
253	Bioavailability of coated and uncoated ZnO nanoparticles to cucumber in soil with or without organic matter. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 144, 543-551	7	52
252	Effect of heat treatment on microstructure and corrosion behavior of Al6061 alloy weldment. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 2643-2648		52
251	Effect of composition on structural and magnetic properties of nanocrystalline ball milled Ni <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 507-512	2.8	51
250	Tribological Behavior of A356/Al <sub>2</sub> O <sub>3</sub> Surface Nanocomposite Prepared by Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 2250-2259	2.3	50
249	Synthesis and characterization of TiAl/Al <sub>2</sub> O <sub>3</sub> nanocomposite by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 257-259	5.7	50
248	Synthesis and characterization of Zn/Al <sub>2</sub> O <sub>3</sub> nanocomposite by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 486, 45-48	5.3	50
247	Study on solid-state reactions of nanocrystalline TiAl synthesized by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 471, 93-97	5.7	49
246	Bulk Al <sub>70</sub> Zn <sub>30</sub> /Al <sub>2</sub> O <sub>3</sub> nanocomposite prepared by reactive milling and hot pressing methods. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 475, 198-201	5.7	48
245	Chitosan-58S bioactive glass nanocomposite coatings on TiO <sub>2</sub> nanotube: Structural and biological properties. <i>Applied Surface Science</i> , <b>2018</b> , 441, 138-149	6.7	47
244	Wear characteristics of Al <sub>70</sub> Zn <sub>30</sub> surface nano-composite layer fabricated on Al6061 plate by friction stir processing. <i>Wear</i> , <b>2013</b> , 304, 144-151	3.5	45
243	Artificial neural network modeling for evaluating of epitaxial growth of Ti6Al4V weldment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 432, 184-190	5.3	45
242	Fabrication and mechanical property prediction of carbon nanotube reinforced Aluminum nanocomposites. <i>Materials &amp; Design</i> , <b>2012</b> , 34, 1-14		44
241	Method for determining utility and consumer harmonic contributions based on complex independent component analysis. <i>IET Generation, Transmission and Distribution</i> , <b>2016</b> , 10, 526-534	2.5	43
240	Mechanosynthesis of nanostructured magnetic Ni <sub>70</sub> Zn <sub>30</sub> ferrite. <i>Powder Technology</i> , <b>2009</b> , 193, 150-153	5.2	43
239	EFFECT OF MICROPLASMA ARC WELDING PROCESS PARAMETERS ON GRAIN GROWTH AND POROSITY DISTRIBUTION OF THIN SHEET Ti6AL4V ALLOY WELDMENT. <i>Materials and Manufacturing Processes</i> , <b>2005</b> , 20, 205-219	4.1	43
238	An injectable mechanically robust hydrogel of Kappa-carrageenan-dopamine functionalized graphene oxide for promoting cell growth. <i>Carbohydrate Polymers</i> , <b>2019</b> , 214, 234-249	10.3	42

237	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. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 113, 108-115	11.8	41
236	Mechanical modelling of carbon nanomaterials from nanotubes to buckypaper. <i>Carbon</i> , <b>2010</b> , 48, 3916-3930	3.0	41
235	Development of super-hydrophobic surface on Al 6061 by anodizing and the evaluation of its corrosion behavior. <i>Surface and Coatings Technology</i> , <b>2017</b> , 324, 99-105	4.4	40
234	Compressive and wear behaviors of bulk nanostructured Al <sub>2</sub> O <sub>3</sub> alloy. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 663-669		40
233	A non-enzymatic sensor based on three-dimensional graphene foam decorated with Cu-xCuO nanoparticles for electrochemical detection of glucose and its application in human serum. <i>Materials Science and Engineering C</i> , <b>2020</b> , 108, 110216	8.3	40
232	Ni nanoparticle-decorated reduced graphene oxide for non-enzymatic glucose sensing: An experimental and modeling study. <i>Electrochimica Acta</i> , <b>2017</b> , 240, 388-398	6.7	39
231	Microstructural evolution of nanostructure 7075 aluminum alloy during isothermal annealing. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 493, 137-141	5.7	39
230	Mechanochemical assisted synthesis of B <sub>4</sub> C nanoparticles. <i>Advanced Powder Technology</i> , <b>2011</b> , 22, 354-358	3.8	39
229	Mechanochemical behavior of Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> powder mixtures to produce Fe <sub>3</sub> Al <sub>2</sub> O <sub>8</sub> nanocomposite powder. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 132-138	4.3	39
228	Friction-stir welding of ultrafine grained austenitic 304L stainless steel produced by martensitic thermomechanical processing. <i>Materials &amp; Design</i> , <b>2015</b> , 76, 130-140		38
227	The role of martensitic transformation on bimodal grain structure in ultrafine grained AISI 304L stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 636, 221-230	5.3	37
226	Synthesis of titanium diboride reinforced alumina matrix nanocomposite by mechanochemical reaction of Al <sub>2</sub> O <sub>3</sub> /B <sub>2</sub> O <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 502, 508-512	5.7	37
225	The effect of grain size and martensitic transformation on the wear behavior of AISI 304L stainless steel. <i>Materials &amp; Design</i> , <b>2014</b> , 64, 56-62		36
224	Cognitive impairments and neuronal injury in different brain regions of a genetic rat model of absence epilepsy. <i>Neuroscience</i> , <b>2015</b> , 298, 161-70	3.9	36
223	Neuronal death by repetitive cortical spreading depression in juvenile rat brain. <i>Experimental Neurology</i> , <b>2012</b> , 233, 438-46	5.7	35
222	Preparation of Al <sub>2</sub> O <sub>3</sub> /TiB <sub>2</sub> nanocomposite powder by mechanochemical reaction between Al, B <sub>2</sub> O <sub>3</sub> and Ti. <i>Advanced Powder Technology</i> , <b>2011</b> , 22, 526-531	4.6	35
221	A study on mechanochemical behavior of B <sub>2</sub> O <sub>3</sub> /Al system to produce alumina-based nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 482, 110-113	5.7	35
220	Synthesis and thermodynamic analysis of nanostructured CuNiCoZnAl high entropy alloy produced by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 685, 278-286	5.7	35

219	Softening behaviour of nanostructured Al <sub>90</sub> 4wt% Zn alloy during mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 464, 107-110	5-7	34
218	Thermodynamic analysis of TiAl <sub>3</sub> intermetallics formation by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 576, 317-323	5-7	33
217	A comparative study on the wear properties of coarse-grained Al6061 alloy and nanostructured Al6061/Al <sub>2</sub> O <sub>3</sub> composites. <i>Tribology International</i> , <b>2012</b> , 54, 58-67	4-9	33
216	Characterization and formation mechanism of nanocrystalline (Fe,Ti) <sub>3</sub> Al intermetallic compound prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 392-396	5-7	33
215	Mechanochemically synthesized Al <sub>2</sub> O <sub>3</sub> /TiC nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 411-415	5-7	32
214	Thermodynamic analysis of NiTi formation by mechanical alloying. <i>Materials Letters</i> , <b>2009</b> , 63, 786-788	3-3	32
213	Microstructure and tensile properties of thixoformed A356 alloy. <i>Materials Characterization</i> , <b>2008</b> , 59, 223-228	3-9	32
212	Effect of heat treatment on corrosion behavior of Ti <sub>6</sub> Al <sub>4</sub> V alloy weldments. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 206, 388-394	5-3	32
211	A novel route for development of Al <sub>2</sub> O <sub>3</sub> surface nano-composite by friction stir processing. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 562, 48-55	5-7	31
210	Mechanochemical synthesis of (Fe,Ti) <sub>3</sub> Al/Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 488, 144-147	5-7	31
209	Gas tungsten arc welding and friction stir welding of ultrafine grained AISI 304L stainless steel: Microstructural and mechanical behavior characterization. <i>Materials Characterization</i> , <b>2015</b> , 109, 138-151	3-9	30
208	Formation mechanism and characterization of nanostructured Ti <sub>6</sub> Al <sub>4</sub> V alloy prepared by mechanical alloying. <i>Materials &amp; Design</i> , <b>2012</b> , 37, 152-160		30
207	A study on the effects of silica particle size and milling time on synthesis of silicon carbide nanoparticles by carbothermic reduction. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2011</b> , 29, 645-650	4-1	30
206	Mechanochemical assisted synthesis of NiTi intermetallic based nanocomposite reinforced by Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 467, 173-178	5-7	30
205	Investigation of structural and magnetic properties of nanocrystalline Ni <sub>0.3</sub> Zn <sub>0.7</sub> Fe <sub>2</sub> O <sub>4</sub> prepared by high energy ball milling. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 737-740	5-7	30
204	Gelatin methacryloyl hydrogel for glucose biosensing using Ni nanoparticles-reduced graphene oxide: An experimental and modeling study. <i>Electrochimica Acta</i> , <b>2018</b> , 261, 275-283	6-7	28
203	Preparation of nano-particles from waste tire rubber and evaluation of their effectiveness as zinc source for cucumber in nutrient solution culture. <i>Scientia Horticulturae</i> , <b>2013</b> , 160, 398-403	4-1	28
202	In situ synthesis mechanism of Al <sub>2</sub> O <sub>3</sub> /Mo nanocomposite by ball milling process. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 692-695	5-7	28

201	Thermal stability and structural changes during heat treatment of nanostructured Al <sub>2</sub> O <sub>3</sub> alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 260-264	5-7	28
200	Erosion-corrosion behavior of highly hydrophobic hierarchical nickel coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 558, 446-454	5-1	28
199	Oxidation and electrical behavior of CuFe <sub>2</sub> O <sub>4</sub> spinel coated Crofer 22 APU stainless steel for SOFC interconnect application. <i>Solid State Ionics</i> , <b>2016</b> , 289, 95-105	3-3	27
198	Nanocrystalline NiAl Coating Prepared by HVOF Thermal Spraying. <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 440-446	2-5	27
197	Synthesis and formation mechanism of nanostructured NbAl <sub>3</sub> intermetallic during mechanical alloying and a kinetic study on its formation. <i>Thermochimica Acta</i> , <b>2012</b> , 529, 36-44	2-9	26
196	Mechanochemically synthesized Fe <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 467, 159-162	5-7	26
195	The structure and mechanical properties of Fe <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 488, 134-137	5-7	26
194	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. <i>Applied Surface Science</i> , <b>2019</b> , 465, 614-624	6-7	25
193	Mesoporous and hollow hydroxyapatite nanostructured particles as a drug delivery vehicle for the local release of ibuprofen. <i>Materials Science and Engineering C</i> , <b>2018</b> , 92, 712-719	8-3	24
192	Peptide modified paper based impedimetric immunoassay with nanocomposite electrodes as a point-of-care testing of Alpha-fetoprotein in human serum. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 117, 748-757	11-8	24
191	The effect of cold rolling and annealing on microstructure and tensile properties of the nanostructured Ni <sub>50</sub> Ti <sub>50</sub> shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 607, 33-37	5-3	24
190	Physical, mechanical and dry sliding wear properties of an Al <sub>3</sub> Si <sub>2</sub> Mg <sub>2</sub> Ni <sub>2</sub> Ti alloy under different processing conditions. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 582, 213-222	5-7	24
189	Bex1 is involved in the regeneration of axons after injury. <i>Journal of Neurochemistry</i> , <b>2010</b> , 115, 910-20	6	24
188	Formation of Ti <sub>3</sub> Ni intermetallic coatings on carbon tool steel by a duplex process. <i>Surface and Coatings Technology</i> , <b>2001</b> , 148, 55-60	4-4	24
187	Structural and functional effects of social isolation on the hippocampus of rats with traumatic brain injury. <i>Behavioural Brain Research</i> , <b>2015</b> , 278, 55-65	3-4	22
186	Thermodynamic analysis of solid solution formation in the nanocrystalline Fe <sub>3</sub> TiAl ternary system during mechanical alloying. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 59, 243-249	2-9	22
185	Effects of coated and non-coated ZnO nano particles on cucumber seedlings grown in gel chamber. <i>Archives of Agronomy and Soil Science</i> , <b>2017</b> , 63, 1108-1120	2	21
184	Development of surface composite based on Mg <sub>2</sub> Al <sub>3</sub> Ni system on AZ31 magnesium alloy and evaluation of formation mechanism. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 623, 335-341	5-7	21

183	Magnetocaloric effect in Ni <sub>47</sub> Mn <sub>40</sub> Sn <sub>13</sub> alloy prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 598, 6-10	5.7	21
182	Resistance spot welding of ultrafine grained/nanostructured Al 6061 alloy produced by cryorolling process and evaluation of weldment properties. <i>Journal of Manufacturing Processes</i> , <b>2017</b> , 26, 84-93	5	20
181	Flower-like magnetized photocatalysts accelerating an emerging pollutant removal under indoor visible light and related phenomena. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 378, 105-113	4.7	20
180	Highly hydrophobic Ni-W electrodeposited film with hierarchical structure. <i>Surface and Coatings Technology</i> , <b>2018</b> , 344, 626-635	4.4	20
179	Investigation of in-situ synthesis of NbAl <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> nanocomposite by mechanical alloying and its formation mechanism. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 503, 294-298	5.7	20
178	Fabrication and characterization of nanostructured Ti <sub>6</sub> Al <sub>4</sub> V powder from machining scraps. <i>Advanced Powder Technology</i> , <b>2010</b> , 21, 336-340	4.6	20
177	Modeling Considerations and Material Properties Evaluation in Analysis of Carbon Nano-Tubes Composite. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2007</b> , 38, 695-705	2.5	20
176	Investigation of Ni nanocrystallization and the effect of Al <sub>2</sub> O <sub>3</sub> addition by high-energy ball milling. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 204, 125-129	5.3	20
175	A conductive film of chitosan-polycaprolactone-polypyrrole with potential in heart patch application. <i>Polymer Testing</i> , <b>2019</b> , 75, 254-261	4.5	20
174	TiO nanotubes/reduced GO nanoparticles for sensitive detection of breast cancer cells and photothermal performance. <i>Talanta</i> , <b>2020</b> , 208, 120369	6.2	20
173	Effect of heat treatment on martensitic transformation of Ni <sub>47</sub> Mn <sub>40</sub> Sn <sub>13</sub> ferromagnetic shape memory alloy prepared by mechanical alloying. <i>Metals and Materials International</i> , <b>2015</b> , 21, 758-764	2.4	19
172	Thermal Stability Study of Ultrafine Grained 304L Stainless Steel Produced by Martensitic Process. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1665-1672	1.6	19
171	Effect of casting process on microstructure and tribological behavior of LM13 alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 475, 321-327	5.7	19
170	Development of Surface Nanocomposite Based on Al-Ni-O Ternary System on Al6061 Alloy by Friction-Stir Processing and Evaluation of Its Properties. <i>Jom</i> , <b>2015</b> , 67, 998-1006	2.1	18
169	A Distributed Classification Procedure for Automatic Sleep Stage Scoring Based on Instantaneous Electroencephalogram Phase and Envelope Features. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2018</b> , 26, 362-370	4.8	18
168	Green reduction of graphene oxide by ascorbic acid <b>2018</b> ,		18
167	CdGAP/ARHGAP31, a Cdc42/Rac1 GTPase regulator, is critical for vascular development and VEGF-mediated angiogenesis. <i>Scientific Reports</i> , <b>2016</b> , 6, 27485	4.9	18
166	A study of pressureless microwave sintering, microwave-assisted hot press sintering and conventional hot pressing on properties of aluminium/alumina nanocomposite. <i>Journal of Mechanical Science and Technology</i> , <b>2016</b> , 30, 1967-1972	1.6	18

165	Mesoporous bioactive glasses for the combined application of osteosarcoma treatment and bone regeneration. <i>Materials Science and Engineering C</i> , <b>2019</b> , 104, 109994	8.3	18
164	A study on mechanical and physical properties of monocalcium aluminate cement reinforced with nano-SiO <sub>2</sub> particles. <i>Composites Part B: Engineering</i> , <b>2014</b> , 56, 30-33	10	18
163	Mechanical alloying behavior of Ti6Al4V residual scraps with addition of Al <sub>2</sub> O <sub>3</sub> to produce nanostructured powder. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 3954-3959		18
162	Electroconductive Graphene-Containing Polymeric Patch: A Promising Platform for Future Cardiac Repair. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 4214-4224	5.5	17
161	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. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125189	14.7	17
160	The effect of thermomechanical processing on the microstructure and mechanical properties of the nanocrystalline TiNiCo shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 598, 183-189	5.3	17
159	Photovoltaic Characterization and Electrochemical Impedance Spectroscopy Analysis of Dye-Sensitized Solar Cells Based on Composite TiO <sub>2</sub> /MWCNT Photoelectrodes. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 1450-1459	1.9	17
158	Development of NiFe-CNT and Ni <sub>3</sub> Fe-CNT nanocomposites by mechanical alloying. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 338-342	4.6	17
157	Thermodynamic analysis of (Ni, Fe) <sub>3</sub> Al formation by mechanical alloying. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 54, 406-411	2.9	17
156	Thermodynamic aspects of nanostructured Ti <sub>5</sub> Si <sub>3</sub> formation during mechanical alloying and its characterization. <i>Bulletin of Materials Science</i> , <b>2012</b> , 35, 439-447	1.7	17
155	Mechanochemical assisted synthesis of Cu(Mo)/Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 497, 95-99	5.7	17
154	Effects of Nanoparticles on Activity of Lignan Biosynthesis Enzymes in Cell Suspension Culture of <i>Linum usitatissimum</i> L.. <i>Russian Journal of Plant Physiology</i> , <b>2019</b> , 66, 756-762	1.6	16
153	Triboelectric nanogenerators based on graphene oxide coated nanocomposite fibers for biomedical applications. <i>Nanotechnology</i> , <b>2020</b> , 31, 385402	3.4	16
152	Insights into the Photocatalytic Bacterial Inactivation by Flower-Like Bi <sub>2</sub> WO <sub>6</sub> under Solar or Visible Light, Through in Situ Monitoring and Determination of Reactive Oxygen Species (ROS). <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1099	3	16
151	Microstructural and wear characteristics of HVOF-sprayed nanocrystalline NiAl coating. <i>Wear</i> , <b>2014</b> , 309, 192-199	3.5	16
150	Microstructural characterization and electrical conductivity of Cu <sub>x</sub> Mn <sub>3-x</sub> O <sub>4</sub> (0.9 ≤ x ≤ 3) spinels produced by optimized glycine/nitrate combustion and mechanical milling processes. <i>Ceramics International</i> , <b>2014</b> , 40, 12219-12226	5.1	16
149	Mechanochemical synthesis of Al <sub>2</sub> O <sub>3</sub> /Co nanocomposite by aluminothermic reaction. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 334-337	4.6	16
148	Calreticulin Is Required for TGF-β-Induced Epithelial-to-Mesenchymal Transition during Cardiogenesis in Mouse Embryonic Stem Cells. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 1299-1311	8	15



147	On effect of squeezing pressure on microstructural characteristics, heat treatment response and electrical conductivity of an Al-Si-Mg-Ni-Cu alloy. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 1162-1169	1.5	15
146	Structural evolution and grain growth kinetics during isothermal heat treatment of nanostructured Al6061. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 525, 107-111	5.3	15
145	Non-isothermal kinetic studies on the formation of Al <sub>2</sub> O <sub>3</sub> /Nb composite. <i>Thermochimica Acta</i> , <b>2010</b> , 511, 32-36	2.9	15
144	Corrosion and galvanic coupling of heat treated Ti-6Al-4V alloy weldment. <i>Materials Letters</i> , <b>2008</b> , 62, 1575-1578	3.3	15
143	Gold Nano/Micro-Islands Overcome the Molecularly Imprinted Polymer Limitations to Achieve Ultrasensitive Protein Detection. <i>ACS Sensors</i> , <b>2021</b> , 6, 797-807	9.2	15
142	Fabrication and modeling of shape memory alloy springs. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 1250034	3.4	14
141	Synthesis of the CaAl <sub>2</sub> O <sub>4</sub> nanoceramic compound using high-energy ball milling with subsequent annealing. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 338-341	4.6	14
140	Diminution of the NMDA receptor NR2B subunit in cortical and subcortical areas of WAG/Rij rats. <i>Synapse</i> , <b>2013</b> , 67, 839-46	2.4	14
139	Development of Al <sub>3.56</sub> Al <sub>2</sub> O <sub>3</sub> Nanocomposite Coatings by High Velocity Oxy-fuel Technique. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 813-820	9.1	14
138	Thermodynamic Aspects of Nanostructured CoAl Intermetallic Compound during Mechanical Alloying. <i>Journal of Materials Science and Technology</i> , <b>2011</b> , 27, 601-606	9.1	14
137	In-Situ Synthesis of Alumina Reinforced (Fe,Cr) <sub>3</sub> Al Intermetallic Matrix Nanocomposite. <i>Materials and Manufacturing Processes</i> , <b>2012</b> , 27, 1348-1353	4.1	14
136	Synthesis of Nanocrystalline (Fe,Cr) <sub>3</sub> Al Powder by Mechanical Alloying. <i>Materials and Manufacturing Processes</i> , <b>2012</b> , 27, 467-471	4.1	14
135	Microglial cell death induced by glycated bovine serum albumin: nitric oxide involvement. <i>Journal of Biochemistry</i> , <b>2008</b> , 144, 197-206	3.1	14
134	Evaluation of microstructure and mechanical properties of transient liquid phase bonding of Inconel 718 and nano/ultrafine-grained 304L stainless steel. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 49, 162-174	5	14
133	Recrystallisation mechanism during friction stir welding of ultrafine- and coarse-grained AISI 304L stainless steel. <i>Science and Technology of Welding and Joining</i> , <b>2016</b> , 21, 287-294	3.7	14
132	Copper nanoparticles supported on charcoal mediated one-pot three-component synthesis of N-substituted-2H-indazoles via consecutive condensation C-N and N-N bond formation. <i>Canadian Journal of Chemistry</i> , <b>2019</b> , 97, 303-309	0.9	14
131	Mechanical and tribological behavior of severely plastic deformed Al6061 at cryogenic temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 683, 56-63	5.3	13
130	Synthesis of (Fe,Cr) <sub>3</sub> Al/Al <sub>2</sub> O <sub>3</sub> nanocomposite through mechanochemical combustion reaction induced by ball milling of Cr, Al and Fe <sub>2</sub> O <sub>3</sub> powders. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 408-414	4.6	13

129	Kinetic analysis of thermite reaction in Al/Ti/Fe <sub>2</sub> O <sub>3</sub> system to produce (Fe,Ti) <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Powder Technology</i> , <b>2014</b> , 253, 553-560	5.2	13
128	The Modulatory Effect of Metabotropic Glutamate Receptor Type-1 on Spike-Wave Discharges in WAG/Rij Rats. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 846-854	6.2	12
127	Effects of garlic extract on spreading depression: In vitro and in vivo investigations. <i>Nutritional Neuroscience</i> , <b>2017</b> , 20, 127-134	3.6	12
126	Thermal stability evaluation of nanostructured Al6061 alloy produced by cryorolling. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2017</b> , 27, 754-762	3.3	12
125	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. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 145, 111611	11.8	12
124	Investigating the Properties of Friction Welded 2014 Aluminum Joints Prepared with Different Rotational Speeds. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 479-489	1.2	12
123	Fabrication and characterization of nanostructured hydroxyapatite coating on Mg-based alloy by high-velocity oxygen fuel spraying. <i>Ceramics International</i> , <b>2018</b> , 44, 14667-14676	5.1	12
122	The effect of exercise on GABA signaling pathway in the model of chemically induced seizures. <i>Life Sciences</i> , <b>2019</b> , 232, 116667	6.8	12
121	Synthesis of Cu/Zr/Al <sub>2</sub> O <sub>3</sub> amorphous nanocomposite by mechanical alloying. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 519-523	4.6	12
120	Microstructure and Mechanical Property Change During FSW and GTAW of Al6061 Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 2187-2195 <sup>2,3</sup>	2.3	12
119	Microstructure and mechanical properties of transient liquid phase bonding of Al <sub>2</sub> O <sub>3</sub> p/Al nanocomposite using copper interlayer. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 275-282		12
118	Synthesis and structural characterization of nanocrystalline (Ni, Fe) <sub>3</sub> Al intermetallic compound prepared by mechanical alloying. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 284-289	4.6	12
117	The effect of vacancy defects and temperature on fundamental frequency of single walled carbon nanotubes. <i>Computational Materials Science</i> , <b>2012</b> , 63, 12-19	3.2	12
116	The pattern of injury and poisoning in South East Iran. <i>BMC International Health and Human Rights</i> , <b>2012</b> , 12, 17	2.5	12
115	Mechanochemical assisted synthesis of Al <sub>2</sub> O <sub>3</sub> /Nb nanocomposite by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 493, 609-612	5.7	12
114	Novel artificial neural network model for evaluating hardness of stir zone of submerge friction stir processed Al 6061-T6 plate. <i>Materials Science and Technology</i> , <b>2011</b> , 27, 990-995	1.5	12
113	Thermodynamic analysis of nanocrystalline and amorphous phase formation in Nb/Al system during mechanical alloying. <i>Powder Metallurgy</i> , <b>2012</b> , 55, 142-147	1.9	12
112	A stretch of polybasic residues mediates Cdc42 GTPase-activating protein (CdGAP) binding to phosphatidylinositol 3,4,5-trisphosphate and regulates its GAP activity. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 19610-21	5.4	12

111	Thermodynamic analysis and characterisation of nanostructured Cu(Mo) compounds prepared by mechanical alloying and subsequent sintering. <i>Powder Metallurgy</i> , <b>2012</b> , 55, 222-227	1.9	12
110	The effect of Ti addition on alloying and formation of nanocrystalline structure in FeAl system. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4058-4062	4.3	12
109	Developmental changes in Notch1 and NLE1 expression in a genetic model of absence epilepsy. <i>Brain Structure and Function</i> , <b>2017</b> , 222, 2773-2785	4	11
108	A study on corrosion behavior of graphene oxide coating produced on stainless steel by electrophoretic deposition. <i>Surface and Coatings Technology</i> , <b>2019</b> , 372, 327-342	4.4	11
107	Correlation between microstructure and electrical properties of Cu <sub>1.3</sub> Mn <sub>1.7</sub> O <sub>4</sub> /La <sub>2</sub> O <sub>3</sub> composite-coated ferritic stainless steel interconnects. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 673, 249-257	5.7	11
106	Simultaneous Reconfiguration and Capacitor Placement with Harmonic Consideration Using Fuzzy Harmony Search Algorithm. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 3859-3871		11
105	Formation mechanism of NbSi <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> nanocomposite subject to mechanical alloying. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 1357-1361	4.6	11
104	Formation and crystallization of an amorphous Al <sub>80</sub> Fe <sub>10</sub> Ti <sub>5</sub> Ni <sub>3</sub> B <sub>2</sub> alloy. <i>Metals and Materials International</i> , <b>2011</b> , 17, 853-856	2.4	11
103	Wear behaviour of Al/Al <sub>2</sub> O <sub>3</sub> nanocomposites prepared by mechanical alloying and hot pressing. <i>Materials Science and Technology</i> , <b>2010</b> , 26, 1114-1119	1.5	11
102	Finite-element modeling of rate dependent mechanical properties in nanocrystalline materials. <i>Computational Materials Science</i> , <b>2009</b> , 45, 1113-1124	3.2	11
101	Anticonvulsant effect of neural regeneration peptide 2945 on pentylenetetrazol-induced seizures in rats. <i>Neuropeptides</i> , <b>2015</b> , 49, 15-23	3.3	10
100	Effect of graphene oxide and friction stir processing on microstructure and mechanical properties of Al5083 matrix composite. <i>Materials Research Express</i> , <b>2019</b> , 6, 106566	1.7	10
99	In-situ fabrication of Al <sub>3</sub> V/Al <sub>2</sub> O <sub>3</sub> nanocomposite through mechanochemical synthesis and evaluation of its mechanism. <i>Advanced Powder Technology</i> , <b>2013</b> , 24, 106-112	4.6	10
98	Fate and effect of tire rubber ash nano-particles (RANPs) in cucumber. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 115, 137-43	7	10
97	Behavioural and histopathological assessment of the effects of periodic fasting on pentylenetetrazol-induced seizures in rats. <i>Nutritional Neuroscience</i> , <b>2013</b> , 16, 147-52	3.6	10
96	An experimental and numerical investigation on damping capacity of nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 507, 149-154	5.3	10
95	A comparative study on wear properties of nanostructured Al and Al/Al <sub>2</sub> O <sub>3</sub> nanocomposite prepared by microwave-assisted hot press sintering and conventional hot pressing. <i>Journal of Mechanical Science and Technology</i> , <b>2015</b> , 29, 3685-3690	1.6	9
94	Nanocrystallization of the Ti <sub>50</sub> Ni <sub>48</sub> Co <sub>2</sub> Shape Memory Alloy by Thermomechanical Treatment. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 445-451	1.6	9

93	Synthesis and characterisation of nanostructured Al <sub>3</sub> V and Al <sub>3</sub> V/Al <sub>2</sub> O <sub>3</sub> composites by powder metallurgy. <i>Materials Science and Technology</i> , <b>2018</b> , 34, 179-190	1.5	9
92	Formation of the Nanocrystalline Structure in an Equiatomic NiTi Shape-Memory Alloy by Thermomechanical Processing. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1408-1414	1.6	9
91	Amorphous phase formation in Al <sub>80</sub> Fe <sub>10</sub> M <sub>10</sub> (M = Ni, Ti, and V) ternary systems by mechanical alloying. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7633-7638	4.3	9
90	Brain Derived Neurotrophic Factor Modification of Epileptiform Burst Discharges in a Temporal Lobe Epilepsy Model. <i>Basic and Clinical Neuroscience</i> , <b>2016</b> , 7, 115-20	1.4	9
89	Influence of zirconium addition on the microstructure, thermodynamic stability, thermal stability and mechanical properties of mechanical alloyed spark plasma sintered (MA-SPS) FeCoCrNi high entropy alloy. <i>Powder Metallurgy</i> , <b>2018</b> , 61, 405-416	1.9	9
88	Finite Element modeling of Microwave-Assisted Hot Press process in a multimode furnace. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 7452-7468	4.5	8
87	A review on discoloration and high accelerated testing of optical materials in LED based-products. <i>Microelectronics Reliability</i> , <b>2018</b> , 81, 136-142	1.2	8
86	Microstructure Evolution of Ultra-Fine-Grained AZ31 B Magnesium Alloy Produced by Submerged Friction Stir Processing. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 4593-4601	1.6	8
85	Kinetic study of non-isothermal crystallization in Al <sub>80</sub> Fe <sub>10</sub> Ti <sub>5</sub> Ni <sub>5</sub> metallic glass. <i>Metals and Materials International</i> , <b>2013</b> , 19, 901-906	2.4	8
84	FABRICATION OF ALUMINUM MATRIX HYBRID NANOCOMPOSITE BY MECHANICAL MILLING. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 4825-4832	1.1	8
83	Structural, optical and electrical properties of co-sputtered p-type ZnO:Cu thin-films. <i>Ceramics International</i> , <b>2019</b> , 45, 7472-7479	5.1	8
82	Polycaprolactone-chitosan-polypyrrole conductive biocomposite nanofibrous scaffold for biomedical applications. <i>Polymer Composites</i> , <b>2020</b> , 41, 645-652	3	8
81	Sleep microstructure dynamics and neurocognitive performance in obstructive sleep apnea syndrome patients. <i>Journal of Integrative Neuroscience</i> , <b>2017</b> , 16, 127-142	1.5	7
80	Effect of Cryorolling and Aging on Fatigue Behavior of Ultrafine-grained Al6061. <i>Jom</i> , <b>2016</b> , 68, 1446-1455		7
79	EFFECT OF FRICTION STIR PROCESSING ON CORROSION BEHAVIOR OF CAST AZ91C MAGNESIUM ALLOY. <i>Surface Review and Letters</i> , <b>2019</b> , 26, 1850213	1.1	7
78	Synthesis and characterization of magnetite/Alyssum homolocarpum seed gum/Ag nanocomposite and determination of its antibacterial activity. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 139, 1263-1271	7.9	7
77	Presenting efficient features for automatic CAP detection in sleep EEG signals <b>2015</b> ,		7
76	Experimental and Finite Element Simulation of Wear in Nanostructured NiAl Coating. <i>Journal of Tribology</i> , <b>2015</b> , 137,	1.8	7

75	A study on the mechanochemical behavior of TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> system to produce Ti <sub>5</sub> Si <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 199-204	4.6	7
74	The effect of type of atmospheric gas on milling behavior of nanostructured Ti6Al4V alloy. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 264-267	4.6	7
73	Formation and characterization of amorphous/nanocrystalline Al <sub>80</sub> Fe <sub>10</sub> M <sub>10</sub> [M = Fe, Nb, Ti, Ni, (Ni <sub>0.5</sub> Ti <sub>0.5</sub> )] alloys. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 551, 584-590	5.7	7
72	Investigation of the effects of grain size and nano-sized reinforcements on tribological properties of Ti6Al4V alloy. <i>Wear</i> , <b>2013</b> , 305, 51-57	3.5	7
71	A numerical study on the damping capacity of metal matrix nanocomposites. <i>Simulation Modelling Practice and Theory</i> , <b>2011</b> , 19, 337-349	3.9	7
70	The role of graphene oxide interlayer on corrosion barrier and bioactive properties of electrophoretically deposited ZrO <sub>2</sub> -10wt. % SiO <sub>2</sub> composite coating on 316L stainless steel. <i>Materials Science and Engineering C</i> , <b>2020</b> , 117, 111342	8.3	7
69	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of AZ91C Magnesium Cast Alloy Weld Zone. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 2776-2785	1.6	7
68	Dependence of corrosion properties of AISI 304L stainless steel on the austenite grain size. <i>International Journal of Materials Research</i> , <b>2017</b> , 108, 552-559	0.5	6
67	Fabrication of Bulk (Fe,Cr) <sub>3</sub> Al/Al <sub>2</sub> O <sub>3</sub> Intermetallic Matrix Nanocomposite Through Mechanical Alloying and Sintering. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2016</b> , 29, 911-919	2.5	6
66	Crystallisation process of Al <sub>80</sub> Fe <sub>10</sub> Ti <sub>10</sub> amorphous phase. <i>Powder Metallurgy</i> , <b>2011</b> , 54, 445-449	1.9	6
65	Highly hydrophobic nickel and nickel-tungsten coatings: Microstructural and surface properties. <i>Applied Surface Science</i> , <b>2020</b> , 520, 146319	6.7	6
64	Microstructure and Mechanical Properties of Dissimilar Friction Stir Spot Welding Between St37 Steel and 304 Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 2847-2858	1.6	5
63	Formation Mechanism of Nanostructured (Ni, Fe) <sub>3</sub> Al-Al <sub>2</sub> O <sub>3</sub> Nanocomposite and Its Characterization. <i>Materials and Manufacturing Processes</i> , <b>2012</b> , 27, 626-630	4.1	5
62	SYNTHESIS AND CHARACTERIZATION OF NANOCRYSTALLINE FeNi AND Ni <sub>3</sub> Fe ALLOYS. <i>International Journal of Modern Physics B</i> , <b>2011</b> , 25, 1013-1019	1.1	5
61	FABRICATION AND CHARACTERIZATION OF AL-AL <sub>4</sub> C <sub>3</sub> NANOCOMPOSITE BY MECHANICAL ALLOYING. <i>International Journal of Modern Physics Conference Series</i> , <b>2012</b> , 05, 480-487	0.7	5
60	Discrepancies of Notch 1 receptor during development of chronic seizures. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 13773-13780	7	4
59	Phase Stability in Mechanically Alloyed Mg/Ni System Studied by Experiments and Thermodynamic Calculations. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2015</b> , 28, 1002-1007	2.5	4
58	The effect of an MgO intermediate layer on a nanostructured HA coating fabricated by HVOF on an Mg alloy. <i>Surface and Coatings Technology</i> , <b>2019</b> , 374, 1071-1077	4.4	4

57	Nanoscale Grain Growth Behaviour of CoAl Intermetallic Synthesized by Mechanical Alloying. <i>Bulletin of Materials Science</i> , <b>2014</b> , 37, 383-387	1.7	4
56	Improvement of Tribological Behavior of Ti6Al4V Alloy Using Nanostructured NbSi2 and NbSi2/Al2O3 Plasma Spray Coatings. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 927-934	1.2	4
55	FABRICATION OF IRON-ALUMINA NANOCOMPOSITE POWDER BY HIGH ENERGY BALL MILLING OF HEMATITE-ALUMINUM POWDER MIXTURE. <i>International Journal of Modern Physics B</i> , <b>2008</b> , 22, 3233-3236	1.1	4
54	Investigation and regulation of self-assembled well-ordered nano/microstructures via an aromatic amino acid. <i>Soft Matter</i> , <b>2018</b> , 14, 4996-5007	3.6	4
53	Reliability and diffusion-controlled through thickness oxidation of optical materials in LED-based products. <i>Microelectronics Reliability</i> , <b>2017</b> , 78, 143-147	1.2	3
52	Characterization of Nanostructured NbSi2 Intermetallic Coatings Obtained by Plasma Spraying of Mechanically Alloyed Powders. <i>Journal of Thermal Spray Technology</i> , <b>2015</b> , 24, 947-952	2.5	3
51	Formation mechanism, crystallite growth and electrical conductivity of nano-crystalline $Cu_xFe_{3-x}O_4$ (0.75 ≤ x ≤ 2.5) spinels prepared by glycine-nitrate process. <i>Thermochimica Acta</i> , <b>2016</b> , 639, 91-97	2.9	3
50	Development and characterization of CoAl/Al2O3 intermetallic matrix nanocomposite. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 136, 341-346	4.4	3
49	PROPERTIES OF BULK FeNi/CNT NANOCOMPOSITES PREPARED BY MECHANICAL MILLING AND SINTERING. <i>International Journal of Modern Physics B</i> , <b>2013</b> , 27, 1350102	1.1	3
48	FINITE ELEMENT MODELING OF DAMPING CAPACITY IN NANO-CRYSTALLINE MATERIALS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , <b>2010</b> , 01, 421-433	0.8	3
47	SYNTHESIS, GRAIN GROWTH, Cu-DOPING, AND MAGNETIC PROPERTIES OF NANOCRYSTALLINE Ni <sub>2</sub> N FERRITE. <i>International Journal of Modern Physics B</i> , <b>2010</b> , 24, 1067-1077	1.1	3
46	Consolidation of Amorphous Powders by Hot Pressing. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-10	3.2	3
45	Microstructure and Corrosion Characterization of a MgO/Hydroxyapatite Bilayer Coating by Plasma Electrolytic Oxidation Coupled with Flame Spraying on a Mg Alloy. <i>ACS Omega</i> , <b>2020</b> , 5, 24186-24194	3.9	3
44	FeO/Bioactive glass nanostructure: A promising therapeutic platform for osteosarcoma treatment. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> ,	3.5	3
43	Thermodynamic analysis of nanostructured (Fe,Cr)3Al formation during mechanical alloying. <i>Materials Research Innovations</i> , <b>2016</b> , 20, 32-36	1.9	3
42	LaCrO3/CuFe2O4 Composite-Coated Crofer 22 APU Stainless Steel Interconnect of Solid Oxide Fuel Cells. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 3490-3496	2.3	2
41	Microstructure and mechanical properties of transient liquid phase (TLP)-bonded Ni3Al intermetallic compounds. <i>Materials Today Communications</i> , <b>2019</b> , 21, 100619	2.5	2
40	Characterization of NbSi2-Al2O3 nanocomposite coatings prepared with plasma spraying mechanically alloyed powders. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2015</b> , 22, 748-754	3.1	2

39	Structural and Electrical Investigation of Cobalt-Doped NiO/Perovskite Interface for Efficient Inverted Solar Cells. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
38	Development of an electrochemical biosensor for vitamin B12 using D-phenylalanine nanotubes <b>2018</b> ,		2
37	The use of response surface methodology in cryrolling of ultrafine grained Al6061 to improve the mechanical properties. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2016</b> , 230, 400-417	1.3	2
36	The Effect of Crystallinity of Carbon Source on Mechanically Activated Carbothermic Synthesis of Nano-Sized SiC Powders. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 421-426	1.6	2
35	Bulk Al <sub>3</sub> Zr composite prepared by mechanical alloying and hot extrusion for high-temperature applications. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2017</b> , 24, 937-942	3.1	2
34	Synthesis and Hydrogen Desorption Properties of Mg <sub>1.7</sub> Al <sub>0.15</sub> Ti <sub>0.15</sub> Ni-CNT Nanocomposite Powder. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 1100-1106	1.6	2
33	Effects of Micro and Macroalloying on the Formation and Thermal Stability of Nanocrystalline L12-Al <sub>3</sub> V. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1173-1181	1.6	2
32	Calculating Dryformer leakage reactance using analytical and finite element methods <b>2011</b> ,		2
31	Mechanochemically Synthesized Metallic-Ceramic Nanocomposite; Mechanisms and Properties <b>2011</b> ,		2
30	Fabrication and characterisation of bulk Al <sub>2</sub> O <sub>3</sub> /Mo nanocomposite by mechanical milling and sintering. <i>Powder Metallurgy</i> , <b>2011</b> , 54, 513-517	1.9	2
29	Surface Characteristics and Tribological Properties of Ti-Al Intermetallic Compound Coatings On Ferrous Substrates. <i>Surface Engineering</i> , <b>2002</b> , 18, 368-372	2.6	2
28	A novel approach toward attachment of graphene oxide on copper using electrochemical grafting of an organic interlayer with enhanced corrosion performance. <i>Progress in Organic Coatings</i> , <b>2021</b> , 154, 106185	4.8	2
27	Physical, mechanical and dry sliding wear properties of hybrid and non-hybrid Al <sub>3</sub> V nanocomposites produced by powder metallurgy. <i>Powder Metallurgy</i> , <b>2017</b> , 60, 309-320	1.9	1
26	Investigation of structural and optical properties of ZnO:Cu co-sputtered thin films. <i>Materials Research Express</i> , <b>2019</b> , 6, 116420	1.7	1
25	Development of Al-Al <sub>3</sub> Ni Nanocomposite by Duplex Processing of Flame Spray and Friction Stir Processing, and Evaluation of Its Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 4693-4700	2.3	1
24	Study on the Wear Behavior of Ultrafine Grained 304L Stainless Steel. <i>Advanced Materials Research</i> , <b>2013</b> , 829, 177-181	0.5	1
23	FABRICATION AND CHARACTERIZATION OF NANOSTRUCTURED Al6061 ALLOY AND ITS AGING BEHAVIOR. <i>International Journal of Modern Physics B</i> , <b>2011</b> , 25, 265-275	1.1	1
22	Metastable Phases in Al <sub>80</sub> Fe <sub>10</sub> Ti <sub>5</sub> Ni <sub>5</sub> Alloy Fabricated by Non-Equilibrium Processes. <i>Materials Transactions</i> , <b>2012</b> , 53, 1739-1743	1.3	1

21	HEAT TREATMENT EFFECTS ON STRUCTURE AND PROPERTIES OF SYNTHESIZED NANOCRYSTALLINE NiTi INTERMETALLIC BY MECHANICAL ALLOYING. <i>International Journal of Modern Physics B</i> , <b>2008</b> , 22, 2970-2978	1.1	1
20	Stable Knockdown of Adenosine Kinase by Lentiviral Anti-ADK miR-shRNAs in Wharton's Jelly Stem Cells. <i>Cell Journal</i> , <b>2018</b> , 20, 1-9	2.4	1
19	The Effects of Exercise Training Intensity on the Expression of C/EBP $\beta$ and CITED4 in Rats with Myocardial Infarction. <i>Asian Journal of Sports Medicine</i> , <b>2018</b> , 9,	1.4	1
18	Determination of Culture Condition for Polygalacturonase Production by <i>Rhizoctonia solani</i> AG2-2, Causal Agent of Root Rot in Sugar Beet. <i>Plant Pathology Journal</i> , <b>2007</b> , 6, 153-158	0.6	1
17	Preparation of amino silane magnetic nanocomposite by the sol-gel process and investigation of its antibacterial activity. <i>Micro and Nano Letters</i> , <b>2019</b> , 14, 196-201	0.9	1
16	The Effect of Reduction Process Parameters on Magnetic and Structural Properties of SmCo/Co Nanocomposites. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2020</b> , 33, 783-793	1.5	1
15	Effects of Surface Morphology on Erosion-Corrosion and Corrosion Resistance of Highly Hydrophobic Nickel-Tungsten Electrodeposited Film. <i>Coatings</i> , <b>2021</b> , 11, 1084	2.9	1
14	Decrypting the photocatalytic bacterial inactivation of hierarchical flower-like Bi <sub>2</sub> WO <sub>6</sub> microspheres induced by surface properties: Experimental studies and ab initio calculations. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131768	14.7	1
13	The effects of shape-setting on transformation temperatures of pseudoelastic shape memory alloy springs. <i>Journal of Science: Advanced Materials and Devices</i> , <b>2019</b> , 4, 568-576	4.2	0
12	Evaluation of Thermal and Mechanical Behavior of CuNiCoZnAl High-Entropy Alloy Fabricated Using Mechanical Alloying and Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 1947-1962	2.3	0
11	Mechanical and biological performance of rainbow trout collagen-boron nitride nanocomposite scaffolds for soft tissue engineering. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50664	2.9	0
10	Microstructure and Mechanical Properties of Nanostructured CoCrFeMoTi High-Entropy Alloy Fabricated by Mechanical Alloying and Spark Plasma Sintering. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 7710-7725	1.6	0
9	Green synthesis of ZnO@ZnS core-shell nanoparticles for detection of lead and iron ions in aqueous solutions by colorimetric paper sensors. <i>Chemical Papers</i> , 1	1.9	0
8	Fabrication of Fe <sub>3</sub> O <sub>4</sub> /Ag-TiO <sub>2</sub> magnetic nanocomposite for antibacterial applications. <i>Micro and Nano Letters</i> , <b>2022</b> , 17, 9-15	0.9	0
7	Preparation of paraffin/silica-graphene shape-stabilized composite phase change materials for thermal energy storage. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
6	The synthesis of SmCo/Co nanoplates: reductant effect in the synthesis process. <i>Journal of Sol-Gel Science and Technology</i> , <b>2019</b> , 92, 706-714	2.3	
5	Calculation of short circuit electromagnetic forces in Dryformer using finite element method. <i>International Transactions on Electrical Energy Systems</i> , <b>2015</b> , 25, 433-453	2.2	
4	The effects of friction stir processing on the wear behavior of cast AZ91C magnesium alloy. <i>International Journal of Materials Research</i> , <b>2018</b> , 109, 241-249	0.5	



- 3 Nb Doping Effects on Formation Mechanism and Structural Characteristics of Nanostructured Ti<sub>5</sub>Si<sub>3</sub>. *Materials and Manufacturing Processes*, **2012**, 27, 614-619 4.1
- 2 Mechanochemical Behavior of NiO-Al-Fe Powder Mixtures to Produce (Ni, Fe)<sub>3</sub>Al-Al<sub>2</sub>O<sub>3</sub> Nanocomposite Powder. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 3359-3365 2.3
- 1 FABRICATION AND CHARACTERIZATION OF NANOSTRUCTURED CU-15WT.% MO COMPOUND BY MECHANICAL ALLOYING. *International Journal of Modern Physics Conference Series*, **2012**, 05, 456-463 0.7