

Seyed Farshid Kashani-Bozorg

List of Publications by Year in descending order

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56
papers

2,116
citations

218381

26
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233125

45
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57
all docs

57
docs citations

57
times ranked

1752
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructures and mechanical properties of Al/Al ₂ O ₃ surface nano-composite layer produced by friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 500, 84-91.	2.6	332
2	Wear assessment of Al/Al ₂ O ₃ nano-composite surface layer produced using friction stir processing. <i>Wear</i> , 2011, 270, 403-412.	1.5	125
3	The effects of friction-stir process parameters on the fabrication of Ti/SiC nano-composite surface layer. <i>Surface and Coatings Technology</i> , 2011, 206, 1372-1381.	2.2	107
4	Joining of CP-Ti to 304 stainless steel using friction stir welding technique. <i>Materials & Design</i> , 2010, 31, 4800-4807.	5.1	97
5	Nanocrystalline Mg ₂ Ni-based powders produced by high-energy ball milling and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2008, 456, 211-215.	2.8	96
6	Strong, persistent superficial oxidation-assisted chemical bonding of black phosphorus with multiwall carbon nanotubes for high-capacity ultradurable storage of lithium and sodium. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10121-10134.	5.2	71
7	Microstructure and mechanical properties of steel/TiC nano-composite surface layer produced by friction stir processing. <i>Surface and Coatings Technology</i> , 2012, 209, 15-22.	2.2	70
8	Hierarchical brain-coral-like structure (3D) vs rod-like structure (1D): Effect on electromagnetic wave loss features of SrFe ₁₂ O ₁₉ and CoFe ₂ O ₄ . <i>Ceramics International</i> , 2021, 47, 30448-30458.	2.3	67
9	Boosted microwave dissipation performance via integration of magneto/dielectric particles with hierarchical 3D morphology in bilayer absorber. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168363.	1.0	63
10	Dissimilar lap joining of 304 stainless steel to CP-Ti employing friction stir welding. <i>Materials & Design</i> , 2011, 32, 1824-1832.	5.1	62
11	Effects of thermal conditions on microstructure in nanocomposite of Al/Si ₃ N ₄ produced by friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 187-193.	2.6	62
12	Ultrafast green microwave-assisted synthesis of high-entropy oxide nanoparticles for Li-ion battery applications. <i>Materials Chemistry and Physics</i> , 2021, 262, 124265.	2.0	61
13	A robust design of Ru quantum dot/N-doped holey graphene for efficient Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 619-631.	5.2	55
14	Significant improvement in cell adhesion and wear resistance of biomedical β -type titanium alloy through ultrasonic nanocrystal surface modification. <i>Journal of Alloys and Compounds</i> , 2018, 762, 941-949.	2.8	54
15	Rational hybrid modulation of P, N dual-doped holey graphene for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2017, 372, 286-296.	4.0	51
16	Nanostructured β -type titanium alloy fabricated by ultrasonic nanocrystal surface modification. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 698-706.	3.8	50
17	Simultaneous grain refinement and nanoscale spinodal decomposition of β phase in Ti-Nb-Ta-Zr alloy induced by ultrasonic mechanical impacts. <i>Journal of Alloys and Compounds</i> , 2018, 738, 540-549.	2.8	42
18	Reactive mechanism and mechanical properties of in-situ hybrid nano-composites fabricated from an Al-Fe ₂ O ₃ system by friction stir processing. <i>Materials Characterization</i> , 2017, 127, 279-287.	1.9	38

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19	Dissimilar resistance spot welding of 6061-T6 aluminum alloy/St-12 carbon steel using a high entropy alloy interlayer. <i>Intermetallics</i> , 2020, 124, 106876.	1.8	38
20	Three-dimensional graphene-based spheres and crumpled balls: micro- and nano-structures, synthesis strategies, properties and applications. <i>RSC Advances</i> , 2016, 6, 50941-50967.	1.7	33
21	Strengthening analyses and mechanical assessment of Ti/Al ₂ O ₃ nano-composites produced by friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 631, 75-85.	2.6	32
22	Microstructure and wear of in-situ Ti/(TiN+TiB) hybrid composite layers produced using liquid phase process. <i>Materials Chemistry and Physics</i> , 2015, 152, 147-157.	2.0	31
23	Perforated two-dimensional nanoarchitectures for next-generation batteries: Recent advances and extensible perspectives. <i>Progress in Materials Science</i> , 2021, 116, 100716.	16.0	30
24	Production of in-situ hard Ti/TiN composite surface layers on CP-Ti using reactive friction stir processing under nitrogen environment. <i>Surface and Coatings Technology</i> , 2013, 218, 62-70.	2.2	29
25	Effect of friction stir processing on the tribological performance of Steel/Al ₂ O ₃ nanocomposites. <i>Surface and Coatings Technology</i> , 2015, 276, 507-515.	2.2	28
26	Exceptionally Reversible Li-/Na-Ion Storage and Ultrastable Solid-Electrolyte Interphase in Layered GeP ₅ Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32815-32825.	4.0	28
27	Ultra-fast, highly efficient and green synthesis of bioactive forsterite nanopowder via microwave irradiation. <i>Materials Science and Engineering C</i> , 2018, 92, 236-244.	3.8	22
28	Effect of Pre- and Post-weld Heat Treatment on Microstructure and Mechanical Properties of GTD-111 Superalloy Welds. <i>Metals and Materials International</i> , 2021, 27, 1173-1192.	1.8	22
29	Relationship between solidification and liquation cracks in the joining of GTD-111 nickel-based superalloy by Nd:YAG pulsed-laser welding. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5635-5649.	2.6	22
30	A Thermodynamic Approach to Predict Formation Enthalpies of Ternary Systems Based on Miedema's Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3761-3770.	1.1	21
31	Hot Cracking of GTD-111 Nickel-Based Superalloy Welded by Pulsed Nd:YAG Laser. <i>Metallography, Microstructure, and Analysis</i> , 2020, 9, 16-32.	0.5	21
32	In vitro study of a novel multi-substituted hydroxyapatite nanopowder synthesized by an ultra-fast, efficient and green microwave-assisted method. <i>Materials Science and Engineering C</i> , 2020, 117, 111310.	3.8	19
33	Effects of TIG surface melting and chromium surface alloying on microstructure, hardness and wear resistance of ADI. <i>Journal of Iron and Steel Research International</i> , 2008, 15, 86-94.	1.4	18
34	Formation of Al/(Al ₁₃ Fe ₄ +Al ₂ O ₃) Nano-composites via Mechanical Alloying and Friction Stir Processing. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 471-482.	1.2	18
35	The effect of service temperature on the impact strength and fracture toughness of GTD-111 superalloy. <i>Engineering Failure Analysis</i> , 2021, 127, 105507.	1.8	18
36	Exceptional improvement in the wear resistance of biomedical β -type titanium alloy with the use of a biocompatible multilayer Si/DLC nanocomposite coating. <i>Ceramics International</i> , 2022, 48, 17376-17384.	2.3	17

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37	Texture Analyses of Ti/Al ₂ O ₃ Nanocomposite Produced Using Friction Stir Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5618-5629.	1.1	15
38	Mechanical and Microstructural Characterization of Hybrid Aluminum Nanocomposites Synthesized from an Al-Fe ₃ O ₄ System by Friction Stir Processing. Metals and Materials International, 2020, 26, 1441-1453.	1.8	15
39	Friction Stir Processing of Mild Steel/Al ₂ O ₃ Nanocomposite: Modeling and Experimental Studies. Metallography, Microstructure, and Analysis, 2015, 4, 122-130.	0.5	14
40	Microstructure and property assessment of dissimilar joints of 6061-T6 Al/dual-phase steel fabricated by friction stir spot welding. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 751-765.	1.3	14
41	Ultra-fast microwave-assisted synthesis of diopside nanopowder for biomedical applications. Ceramics International, 2018, 44, 18752-18758.	2.3	12
42	Defect-rich Ni ₃ Sn ₄ quantum dots anchored on graphene sheets exhibiting unexpected reversible conversion reactions with exceptional lithium and sodium storage performance. Applied Surface Science, 2020, 526, 146756.	3.1	12
43	EBSID investigation of Al/(Al ₁₃ Fe ₄ +Al ₂ O ₃) nanocomposites fabricated by mechanical milling and friction stir processing. Journal of Microscopy, 2018, 270, 3-16.	0.8	11
44	Surface Modification of Titanium by Producing Ti/TiN Surface Composite Layers via FSP. Acta Metallurgica Sinica (English Letters), 2017, 30, 550-557.	1.5	10
45	FABRICATION OF Mg/SiC NANOCOMPOSITE SURFACE LAYER USING FRICTION STIR PROCESSING TECHNIQUE. International Journal of Nanoscience, 2011, 10, 1073-1076.	0.4	9
46	Effect of multi-pass friction stir processing on textural evolution and grain boundary structure of Al-Fe ₃ O ₄ system. Journal of Materials Research and Technology, 2020, 9, 1070-1086.	2.6	9
47	Effect of Nd:YAG Pulsed-Laser Welding Parameters on Melting Rate of GTD-111 Superalloy Joint. Journal of Materials Engineering and Performance, 2021, 30, 9108-9117.	1.2	9
48	Fabrication of Al/AlN nano-composite layers by friction stir processing of 6061 Al-T6 substrate. Surface and Interface Analysis, 2015, 47, 227-238.	0.8	7
49	FABRICATION OF TI/SiC SURFACE NANO-COMPOSITE LAYER BY FRICTION STIR PROCESSING. International Journal of Modern Physics Conference Series, 2012, 05, 367-374.	0.7	5
50	Creep Behaviors Evaluation of IN738 Superalloy Welded by Pulsed Nd:YAG Laser Through the Small Punch Creep Test. Metallography, Microstructure, and Analysis, 2021, 10, 199-207.	0.5	5
51	Evolution and Stability of a Nanocrystalline Cu ₃ Ge Intermetallic Compound Fabricated by Means of High Energy Ball Milling and Annealing Processes. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 516-524.	1.1	4
52	Evolution of Nanocrystalline Structures Using High Energy Ball Milling of Quaternary Mg _{1.75} Nb _{0.125} C _{0.125} Ni and Binary Mg ₂ Ni. Acta Physica Polonica A, 2012, 121, 211-213.	0.2	3
53	Wear Assessment of Ti/SiC Surface Nano-Composite Layer and its Associated CP-Ti Substrate. Advanced Materials Research, 2012, 445, 595-600.	0.3	2
54	Electrochemical and kinetic performance of amorphous/nanostructured TiNi-based intermetallic compound with Nb substitution synthesized by mechanical alloying. Journal of Materials Research, 2018, 33, 3774-3784.	1.2	2

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55	Failure mechanisms of friction stir spot welds of AA6061/DP590 steel during tensile/shear testing. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2247-2261.	1.7	2
56	COMPARISON OF ELECTRODE PROPERTIES OF BINARY, TERNARY AND QUATERNARY NANOCRYSTALLINE Mg ₂ Ni-BASED POWDERS. International Journal of Nanoscience, 2011, 10, 1067-1071.	0.4	0