

Amin Bahrami

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,863
citations

279798

23
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1533
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on the physicochemical treatments of rice husk for production of advanced materials. <i>Chemical Engineering Journal</i> , 2015, 264, 899-935.	12.7	441
2	Development of metal-matrix composites from industrial/agricultural waste materials and their derivatives. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 143-208.	12.8	159
3	Effect of hot extrusion on wear properties of Al-15wt.% Mg ₂ Si in situ metal matrix composites. <i>Materials & Design</i> , 2014, 53, 774-781.	5.1	118
4	Tribological characterization of Al7075-graphite composites fabricated by mechanical alloying and hot extrusion. <i>Materials & Design</i> , 2015, 67, 224-231.	5.1	111
5	Eco-fabrication of hierarchical porous silica monoliths by ice-templating of rice husk ash. <i>Green Chemistry</i> , 2017, 19, 188-195.	9.0	66
6	Waste Recycling in Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2020, 10, 1904159.	19.5	62
7	Effect of rice-husk ash on properties of laminated and functionally graded Al/SiC composites by one-step pressureless infiltration. <i>Journal of Alloys and Compounds</i> , 2015, 644, 256-266.	5.5	61
8	The effect of Zr on the microstructure and tensile properties of hot-extruded Al-Mg ₂ Si composite. <i>Materials & Design</i> , 2012, 36, 323-330.	5.1	53
9	Progress and challenges in using sustainable carbon anodes in rechargeable metal-ion batteries. <i>Progress in Energy and Combustion Science</i> , 2021, 87, 100929.	31.2	52
10	Macroporous polymer-derived SiO ₂ /SiOC monoliths freeze-cast from polysiloxane and amorphous silica derived from rice husk. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4809-4820.	5.7	51
11	Manufacturing Wear-Resistant 10Ce-TZP/Al ₂ O ₃ Nanoparticle Aluminum Composite by Powder Metallurgy Processing. <i>Materials and Manufacturing Processes</i> , 2014, 29, 1237-1244.	4.7	49
12	Mechanical and Tribological Characterization of Al-Mg ₂ Si Composites After Yttrium Addition and Heat Treatment. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1146-1156.	2.5	46
13	Wetting and reaction characteristics of crystalline and amorphous SiO ₂ derived rice-husk ash and SiO ₂ /SiC substrates with Al-Si-Mg alloys. <i>Applied Surface Science</i> , 2015, 357, 1104-1113.	6.1	44
14	The Effect of Ti on Mechanical Properties of Extruded In-Situ Al-15Åpct Mg ₂ Si Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4366-4373.	2.2	43
15	Mechanical, thermal and electrical properties of monolayer and bilayer graded Al/SiC/rice husk ash (RHA) composite. <i>Journal of Alloys and Compounds</i> , 2017, 699, 308-322.	5.5	40
16	Effect of 10Ce-TZP/Al ₂ O ₃ nanocomposite particle amount and sintering temperature on the microstructure and mechanical properties of Al/(10Ce-TZP/Al ₂ O ₃) nanocomposites. <i>Materials & Design</i> , 2013, 50, 85-91.	5.1	39
17	Structure, mechanical properties and corrosion resistance of amorphous Ti-Cr-O coatings. <i>Surface and Coatings Technology</i> , 2019, 374, 690-699.	4.8	37
18	Current State-of-the-Art in the Interface/Surface Modification of Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2021, 11, 2101877.	19.5	37

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19	The influence of Li on the tensile properties of extruded in situ Al-15%Mg ₂ Si composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 346-353.	5.6	36
20	Electrical and thermomechanical properties of CVI- Si ₃ N ₄ porous rice husk ash infiltrated by Al-Mg-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017, 696, 856-868.	5.5	35
21	Tailoring microstructure and properties of bilayer-graded Al/B ₄ C/MgAl ₂ O ₄ composites by single-stage pressureless infiltration. <i>Journal of Alloys and Compounds</i> , 2017, 694, 408-418.	5.5	33
22	Mechanical properties and microstructural stability of CuTa/Cu composite coatings. <i>Surface and Coatings Technology</i> , 2019, 364, 22-31.	4.8	32
23	Microstructure and Tensile Properties of Al-15wt%Mg₂<sub>2</sub>Si Composite after Hot Extrusion and Heat Treatment. <i>Key Engineering Materials</i> , 0, 471-472, 1171-1176.	0.4	27
24	Bilayer graded Al/B₄C/rice husk ash composite: Wettability behavior, thermo-mechanical, and electrical properties. <i>Journal of Composite Materials</i> , 2018, 52, 3745-3758.	2.4	27
25	Compositional and Tribo-Mechanical Characterization of Ti-Ta Coatings Prepared by Confocal Dual Magnetron Co-sputtering. <i>Advanced Engineering Materials</i> , 2018, 20, 1700687.	3.5	25
26	Effect of sintering temperature on tribological behavior of Ce-TZP/Al₂O₃-aluminum nanocomposite. <i>Journal of Composite Materials</i> , 2015, 49, 3507-3514.	2.4	24
27	Wear resistance of graphenic-nickel composite coating on austenitic stainless steel. <i>Materials Letters</i> , 2020, 281, 128769.	2.6	20
28	Fabrication of aligned porous LaNi _{0.6} Fe _{0.4} O ₃ perovskite by water based freeze casting. <i>Chemical Physics Letters</i> , 2018, 700, 138-144.	2.6	18
29	Surface modification of rice-husk ash (RHA) by Si ₃ N ₄ coating to promote its wetting by Al-Mg-Si alloys. <i>Materials Chemistry and Physics</i> , 2018, 203, 223-234.	4.0	17
30	Improving the Interfacial Reaction Between Cristobalite Silica from Rice Husk and Al-Mg-Si by CVD-Si ₃ N ₄ Deposition. <i>Waste and Biomass Valorization</i> , 2020, 11, 3789-3799.	3.4	16
31	Mechanism and Parameters Controlling the Decomposition Kinetics of Na₂SiF₆ Powder to SiF₄. <i>International Journal of Chemical Kinetics</i> , 2016, 48, 379-395.	1.6	9
32	The simultaneous effect of extrusion and T6 treatment on the mechanical properties of Al-15wt.%Mg ₂ Si composite. <i>HTM - Journal of Heat Treatment and Materials</i> , 2012, 67, 378-385.	0.2	9
33	Surface Modification of Bismuth by ALD of Antimony Oxide for Suppressing Lattice Thermal Conductivity. <i>ACS Applied Energy Materials</i> , 2022, 5, 4041-4046.	5.1	9
34	Kinetics of Silicon Nitride Formation on SiO₂-Derived Rice Husk Ash Using the Chemical Vapor Infiltration Method. <i>International Journal of Chemical Kinetics</i> , 2017, 49, 293-302.	1.6	7
35	Structural changes in NiO-Ce _{0.8} Sm _{0.2} O _{2-x} anode under reducing atmosphere. <i>Materials Characterization</i> , 2019, 150, 8-12.	4.4	4
36	Structural and Electrochemical Properties of Layered P2-Na _{0.8} Co _{0.8} Ti _{0.2} O ₂ Cathode in Sodium-Ion Batteries. <i>Energies</i> , 2022, 15, 3371.	3.1	3

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37	The Influence of Yttrium Rich Intermetallic Phases and Heat Treatment on the Microstructure, Hardness and Wear Properties of Al-15%Mg₂Si Composite. Key Engineering Materials, 0, 471-472, 1165-1170.	0.4	2
38	Surpassing Cu-Ta Miscibility Barriers Using a High-Current Pulsed Arc. Advanced Materials Interfaces, 2020, 7, 2000921.	3.7	1
39	Microstructure and properties of bilayer-graded Al-matrix composites by one-step pressureless infiltration of B4C/rice-husk ash preforms. Materials Research Society Symposia Proceedings, 2016, 1820, 1.	0.1	0