Reza Taghiabadi

List of Publications by Year
in descending order

43 papers	562 citations	840119 11 h-index	713013 21 g-index
43 all docs	43 docs citations	43 times ranked	380 citing authors

#	Article	IF	Citations
1	Enhancing the mechanical and tribological properties of Mg2Si-rich aluminum alloys by multi-pass friction stir processing. Materials Chemistry and Physics, 2020, 250, 123066.	2.0	60
2	Effect of iron-intermetallics on the fluidity of 413 aluminum alloy. Journal of Alloys and Compounds, 2009, 468, 539-545.	2.8	59
3	Effect of iron-rich intermetallics on the sliding wear behavior of Alâ€“Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 162-170.	2.6	58
4	Quality index and hot tearing susceptibility of Alâ€“7Siâ€“0.35Mgâ€“ x Cu alloys. Transactions of Nonferrous Metals Society of China, 2018, 28, 1275-1286.	1.7	25
5	Effect of Tool Pin Profile on the Microstructure and Tribological Properties of Friction Stir Processed Al-20 wt% Mg2Si Composite. Journal of Tribology, 2019, 141, .	1.0	25
6	Tensile properties and hot tearing susceptibility of cast Al-Cu alloys containing excess Fe and Si. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 718-728.	2.4	23
7	Microstructure, Texture, Electrical and Mechanical Properties of AA-6063 Processed by Multi Directional Forging. Materials, 2018, 11, 2419.	1.3	19
8	Effect of casting techniques on tensile properties of cast aluminium alloy (Alâ€“Siâ€“Mg) and TiB2containing metal matrix composite. Materials Science and Technology, 2003, 19, 497-502.	0.8	17
9	Effect of Ca additions on evolved microstructures and subsequent mechanical properties of a cast and hot-extruded Mgâ€“Znâ€“Zr magnesium alloy. International Journal of Advanced Manufacturing Technology, 2019, 104, 4265-4275.	1.5	16
10	Mechanical properties enhancement of Mgâ€“4Si in-situ composites by friction stir processing. Materials Science and Technology, 2021, 37, 66-77.	0.8	15
11	Effect of friction hardening on the surface mechanical properties and tribological behavior of biocompatible Ti-6Al-4V alloy. Journal of Manufacturing Processes, 2018, 31, 776-786.	2.8	14
12	Effect of multi-pass friction stir processing on microstructure and mechanical properties of cast Al-7Fe-5Ni alloy. Materials Research Express, 2019, 6, 106571.	0.8	13
13	Effect of cell imprinting on viability and drug susceptibility of breast cancer cells to doxorubicin. Acta Biomaterialia, 2020, 113, 119-129.	4.1	13
14	Enhancing the Mechanical Properties of Si Particle Reinforced ZA22 Composite by Tiâ€“B Modification. International Journal of Metalcasting, 2021, 15, 206-215.	1.5	12
15	Dry sliding wear behaviour of hypoeutectic Alâ€“Si alloys containing excess iron. Materials Science and Technology, 2009, 25, 1017-1022.	0.8	11
16	Effect of Bifilm Oxides on the Dry Sliding Wear Behavior of Fe-Rich Alâ€“Si Alloys. Journal of Tribology, 2017, 139, .	1.0	11
17	Investigation of the Tribological Properties of AlxSi-1.2Fe(Mn) (xâ€‰=â€‰5-13Âwt.%) Alloys. Journal of Materials Engineering and Performance, 2018, 27, 3323-3334.	1.2	11
18	Effect of Mn Modification on the Tribological Properties of In Situ Al-15Mg2Si Composites Containing Fe as an Impurity. Journal of Tribology, 2018, 140, .	1.0	11

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19	Investigating the combination effect of warm extrusion and multi-directional forging on microstructure and mechanical properties of Alâ€“Mg2Si composites. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	11
20	Effect of Fe-impurity on tribological properties of Al-15Mg 2 Si composite. Transactions of Nonferrous Metals Society of China, 2018, 28, 1084-1093.	1.7	10
21	Tribological properties improvement of conventionally-cast Al-8.5Fe-1.3V-1.7Si alloy by multi-pass friction stir processing. Transactions of Nonferrous Metals Society of China, 2021, 31, 1262-1275.	1.7	10
22	Effect of Be Modification on the Oxide Bifilms and Tensile Strength Reliability of Al-Si-Mg Alloys Containing Excess Fe. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1236-1245.	1.0	9
23	Effect of Partial Substitution of Mn for Ni on Mechanical Properties of Friction Stir Processed Hypoeutectic Al-Ni Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3007-3018.	1.0	9
24	Weibull analysis of effect of T6 heat treatment on fracture strength of AM60B magnesium alloy. Transactions of Nonferrous Metals Society of China, 2018, 28, 20-29.	1.7	9
25	The Correlation of Microstructure and Mechanical Properties of In-Situ Al-Mg2Si Cast Composite Processed by Equal Channel Angular Pressing. Materials, 2019, 12, 1553.	1.3	9
26	Mechanical properties of Al-15Mg2Si composites prepared under different solidification cooling rates. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1249-1260.	2.4	7
27	Improving mechanical properties of Mn-added hypoeutectic Al-4Ni alloy by friction stir processing. Transactions of Nonferrous Metals Society of China, 2019, 29, 460-472.	1.7	6
28	Mechanical properties enhancement of cast Al-8.5Fe-1.3V-1.7Si (FVS0812) alloy by friction stir processing. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	6
29	Effect of multi-pass multi-directional forging on tribological properties of Si-rich eutectoid ZA alloys. Transactions of Nonferrous Metals Society of China, 2021, 31, 2024-2038.	1.7	6
30	Improving the Tribological Properties of Al-7Fe-5Ni Alloys via Friction Stir Processing. Journal of Tribology, 2019, 141, .	1.0	6
31	Study on the modification effect of copper on Alâ€“15Mg2Si composite. Materials Chemistry and Physics, 2022, 276, 125323.	2.0	6
32	Statistical Strength Analysis of Dissimilar AA2024-T6 and AA6061-T6 Friction Stir Welded Joints. Journal of Materials Engineering and Performance, 2019, 28, 1822-1832.	1.2	5
33	Effect of Oxide Bifilms on the Fracture Behavior of AM60B Mg Alloy. Transactions of the Indian Institute of Metals, 2020, 73, 275-283.	0.7	5
34	Increasing the recycling percent in liquid-state recycling of Al machining chips by friction stir processing. Materials Chemistry and Physics, 2020, 243, 122627.	2.0	5
35	Tribology of Si-rich TIG-deposited coatings on Znâ€“40Alâ€“2Cu alloy. Surface Engineering, 2020, 36, 735-744.	1.1	5
36	Effect of equal channel angular pressing on microstructure and mechanical properties of thermally-homogenized Alâ€“Mg2Si composites. Materials Chemistry and Physics, 2021, 259, 124200.	2.0	5

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37	Effect of Cooling Rate on Microstructure and Mechanical Properties of AA5056 Al-Mg Alloy. International Journal of Metalcasting, 2022, 16, 1533-1543.	1.5	5
38	Investigation on beneficial effects of beryllium on entrained oxide films, mechanical properties and casting reliability of Fe-rich Alâ€“Si cast alloy. Materials Science and Technology, 2015, 31, 506-512.	0.8	4
39	Optimizing the mechanical properties of Al-4.5Cu-xSi alloys through multi-pass friction stir processing and post-process aging. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	3
40	Microstructural evolution and mechanical properties of multi-directionally forged SiP/ZA22 composite. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	2
41	Quality Index Assessment of Multi-Pass Friction Stir Processed Alâ€“Siâ€“Mg Alloys Fully Produced by Recycling of Machining Chips. Transactions of the Indian Institute of Metals, 2021, 74, 273-284.	0.7	2
42	Tribological Properties of Surface Friction Hardened AISI 316L Steel. Transactions of the Indian Institute of Metals, 2021, 74, 1979-1989.	0.7	2
43	Tribological behavior of friction stir processed SiP/ZA40 in-situ composites. Transactions of Nonferrous Metals Society of China, 2020, 30, 3043-3057.	1.7	2