Sajjad Amirkhanlou

List of Publications by Year
in descending order

40	1,396	318942	371746
papers	citations	23 h-index	37 g-index

40	40	40	1023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on high stiffness aluminum-based composites and bimetallics. Critical Reviews in Solid State and Materials Sciences, 2020, 45, 1-21.	6.8	30
2	Evidence of disruption of Si-rich microstructure in engineering-lightweight Alâ€“12.2at.%Si alloy melt above liquidus temperature. Scientific Reports, 2020, 10, 12979.	1.6	5
3	Formation of strength platform in cast Alâ€“Siâ€“Mgâ€“Cu alloys. Scientific Reports, 2019, 9, 9582.	1.6	19
4	High performance gravity cast Al9Si0.45Mg0.4Cu alloy inoculated with AlB 2 and TiB 2. Journal of Materials Processing Technology, 2018, 252, 604-611.	3.1	19
5	High modulus Al Si Mg Cu/Mg2Si TiB2 hybrid nanocomposite: Microstructural characteristics and micromechanics-based analysis. Journal of Alloys and Compounds, 2017, 694, 313-324.	2.8	26
6	Continuous Dynamic Recovery in Pure Aluminium Deformed to High Strain by Accumulative Press Bonding. Minerals, Metals and Materials Series, 2017, , 671-680.	0.3	2
7	Strengthening Mechanisms in Nanostructured Al/SiCp Composite Manufactured by Accumulative Press Bonding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5136-5145.	1.1	24
8	Fabrication and properties of ZrO 2 /AZ31 nanocomposite fillers of gas tungsten arc welding by accumulative roll bonding. Archives of Civil and Mechanical Engineering, 2016, 16, 397-402.	1.9	21
9	Effect of Particles on Continuous and Discontinuous Recrystallization of Nanostructured Interstitial Free Steel. Jom, 2016, 68, 271-278.	0.9	5
10	Homogeneous and ultrafine-grained metal matrix nanocomposite achieved by accumulative press bonding as a novel severe plastic deformation process. Scripta Materialia, 2015, 100, 40-43.	2.6	32
11	Achieving ultrafine grained and homogeneous AA1050/ZnO nanocomposite with well-developed high angle grain boundaries through accumulative press bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 374-380.	2.6	13
12	Production of nanograin microstructure in steel nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 638, 143-151.	2.6	12
13	Strengthening mechanisms in nanostructured interstitial free steel deformed to high strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 656-662.	2.6	27
14	On the Achievement of Nanostructured Interstitial Free Steel by Four-Layer Accumulative Roll Bonding Process at Room Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4013-4019.	1.1	19
15	Microstructural evolution of nanostructured steel-based composite fabricated by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 298-306.	2.6	22
16	High strength tailor-made metallic foams (TMFs): Development and characterization. Materials Letters, 2015, 154, 152-155.	1.3	8
17	Gradual formation of nano/ultrafine structure under accumulative press bonding (APB) process. Materials Characterization, 2015, 109, 57-65.	1.9	16
18	Effect of processing cycles on aluminum/tungsten carbide composites prepared by continual annealing and press bonding process. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012002.	0.3	3

#	Article	IF	Citations
19	Application of compocasting and cross accumulative roll bonding processes for manufacturing high-strength, highly uniform and ultra-fine structured Al/SiCp nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 592, 121-127.	2.6	47
20	Structural Evaluation and Mechanical Properties of Aluminum/Tungsten Carbide Composites Fabricated by Continual Annealing and Press Bonding (CAPB) Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1992-1999.	1.0	14
21	Manufacturing of nanostructured Al/WC_p metal- matrix composites by accumulative press bonding. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012001.	0.3	8
22	Cross accumulative roll bondingâ€"A novel mechanical technique for significant improvement of stir-cast Al/Al2O3 nanocomposite properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 144-149.	2.6	31
23	Microstructure and Mechanical Properties of Al356/SiCp Cast Composites Fabricated by a Novel Technique. Journal of Materials Engineering and Performance, 2013, 22, 85-93.	1.2	26
24	Accumulative press bonding; a novel manufacturing process of nanostructured metal matrix composites. Materials & Design, 2013, 51, 367-374.	5.1	59
25	The production of nanocrystalline cobalt titanide intermetallic compound via mechanical alloying. Intermetallics, 2012, 29, 104-109.	1.8	14
26	Fabrication and characterization of Al356/SiCp semisolid composites by injecting SiCp containing composite powders. Journal of Materials Processing Technology, 2012, 212, 841-847.	3.1	43
27	Nanocrystalline/nanoparticle ZnO synthesized by high energy ball milling process. Materials Letters, 2012, 86, 122-124.	1.3	63
28	Comparison of the Microstructure and Mechanical Properties of As-Cast A356/SiC MMC Processed by ARB and CAR Methods. Journal of Materials Engineering and Performance, 2012, 21, 1249-1253.	1.2	40
29	Synthesis and characterization of nanocrystalline CoTi intermetallic compound prepared by mechanical alloying. Materials Letters, 2012, 81, 254-257.	1.3	11
30	Manufacturing of High-Performance Al356/SiCpComposite by CAR Process. Materials and Manufacturing Processes, 2011, 26, 902-907.	2.7	37
31	CAR process: A technique for significant enhancement of as-cast MMC properties. Materials Characterization, 2011, 62, 1228-1234.	1.9	41
32	Effects of reinforcement distribution on low and high temperature tensile properties of Al356/SiCp cast composites produced by a novel reinforcement dispersion technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7186-7195.	2.6	36
33	Refinement of microstructure and improvement of mechanical properties of Al/Al2O3 cast composite by accumulative roll bonding process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2548-2553.	2.6	51
34	Using ARB process as a solution for dilemma of Si and SiCp distribution in cast Alâ€"Si/SiCp composites. Journal of Materials Processing Technology, 2011, 211, 1159-1165.	3.1	54
35	High-strength and highly-uniform composites produced by compocasting and cold rolling processes. Materials & Design, 2011, 32, 2085-2090.	5.1	63
36	Development of Al356/SiCp cast composites by injection of SiCp containing composite powders. Materials & Design, 2011, 32, 1895-1902.	5.1	91

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37	Effect of particle size on microstructure and mechanical properties of composites produced by ARB process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2143-2148.	2.6	123
38	Significant improvement of semi-solid microstructure and mechanical properties of A356 alloy by ARB process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2495-2501.	2.6	63
39	Fabrication and characterization of Al/SiCp composites by CAR process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4462-4467.	2.6	52
40	Synthesis and characterization of 356-SiCp composites by stir casting and compocasting methods. Transactions of Nonferrous Metals Society of China, 2010, 20, s788-s793.	1.7	126