

Sivaprasad

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

2,281
citations

27
h-index

44
g-index

122
ext. papers

2,651
ext. citations

2.5
avg, IF

5.23
L-index

#	Paper	IF	Citations
116	Mechanical and Tribological Behavior of Gravity and Squeeze Cast Novel Al-Si Alloy. <i>Metals</i> , 2022 , 12, 194	2.3	0
115	Influence of nickel-based buttering material on welded joint between SA508 low alloy steel and 304LN stainless steel. <i>International Journal of Pressure Vessels and Piping</i> , 2022 , 195, 104576	2.4	0
114	Characterization based analysis on TiAl ₃ intermetallic phase layer growth phenomenon and kinetics in diffusion bonded Ti/TiAl ₃ /Al laminates. <i>Materials Characterization</i> , 2021 , 174, 110981	3.9	4
113	Microstructural and corrosion behavior of MAO coated 5052 aluminum alloy. <i>Materials Today: Proceedings</i> , 2021 , 41, 1120-1124	1.4	0
112	Simulations on compressive properties of Al-Cu metal intermetallic laminates (MILs) using FEA. <i>Materials Today: Proceedings</i> , 2021 , 41, 1110-1115	1.4	0
111	Combination of high strength and corrosion resistance in AA5052 alloy using cryorolling and micro arc oxidation. <i>Materials Today: Proceedings</i> , 2021 , 39, 1738-1742	1.4	
110	Deformation behavior of Al/Cu in-situ metal-intermetallic laminates at low and high strain rates. <i>Journal of Alloys and Compounds</i> , 2021 , 873, 159767	5.7	2
109	Comparison based on specific strength and density of in-situ Ti/Al and Ti/Ni metal intermetallic laminates. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1126-1136	5.5	2
108	Microstructural, Mechanical and Tribological Behavior of Gravity- and Squeeze-Cast Novel Al ₈ Si ₂ Ti ₃ Mg ₂ Be Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 1409-1415	1.2	3
107	Excellent Combination of Tensile ductility and strength due to nanotwinning and a bimodal structure in cryorolled austenitic stainless steel. <i>Scientific Reports</i> , 2020 , 10, 354	4.9	0
106	Tribological Behavior of Additive Manufactured TiAl by Electron Beam Melting. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 1661-1667	1.2	2
105	Replication of the Al/Ti Metal Intermetallic Laminates Using LS Dyna for Tungsten Alloy Penetrator Application. <i>Journal of the Institution of Engineers (India): Series D</i> , 2020 , 1	0.9	0
104	Effect of Fe Addition to Binder Phase on Mechanical Properties of Tungsten Heavy Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 863-871	1.2	1
103	Novel welding of Al _{0.5} CoCrFeNi high-entropy alloy: Corrosion behavior. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153163	5.7	20
102	Electron-beam welding of high-entropy alloy and stainless steel: microstructure and mechanical properties. <i>Materials and Manufacturing Processes</i> , 2020 , 35, 1885-1894	4.1	8
101	Powder metallurgy of Al _{0.1} CoCrFeNi high-entropy alloy. <i>Journal of Materials Research</i> , 2020 , 35, 2835-2847	2.5	8
100	Achieving Superior Strength and Ductility Combination Through Cryorolling in 2219 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 6809-6817	1.6	2

99	Effect of crack path and high angle grain boundaries on fracture toughness and fatigue behaviour of cryorolled AA2219. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 2608-2622	3	2
98	Microstructure and properties of in-situ high entropy alloy/tungsten carbide composites by mechanical alloying.. <i>Material Design and Processing Communications</i> , 2020 ,	0.9	1
97	DSC analysis on AA2219 plates processed by cryorolling and coldrolling. <i>Materials Research Express</i> , 2019 , 6, 1065c9	1.7	3
96	Tungsten Matrix Composite Reinforced with CoCrFeMnNi High-Entropy Alloy: Impact of Processing Routes on Microstructure and Mechanical Properties. <i>Metals</i> , 2019 , 9, 992	2.3	8
95	Dissimilar welding of Al0.1CoCrFeNi high-entropy alloy and AISI304 stainless steel. <i>Journal of Materials Research</i> , 2019 , 34, 2683-2694	2.5	30
94	Superior Strength with Enhanced Fracture Resistance of Al-Mg-Sc Alloy Through Two-Step Cryo Cross Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 3265-3281	2.3	3
93	Evaluation of Microstructure at Interfaces of Welded Joint Between Low Alloy Steel and Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 2784-2797	2.3	3
92	Role of deformation induced martensite on mechanical properties of cryorolled 304 stainless steel. <i>Materials Research Express</i> , 2019 , 6, 086539	1.7	1
91	Analysis of Heat Treatment Response for Cryorolled AA2219 Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 1881-1900	1.2	2
90	Narrow gap welding of low alloy and austenitic stainless steels using different Inconel alloys: comparison of microstructure and properties. <i>Materials Research Express</i> , 2019 , 6, 096518	1.7	2
89	Correlating Tensile Properties with Microstructures of Various Regions in Gas Tungsten Arc Welded AA2014 Alloy. <i>Materials Science Forum</i> , 2019 , 969, 22-26	0.4	1
88	Effect of Type and Concentration of Aqueous Solutions on Corrosion Behaviour of Plasma Electrolytic Oxide Films on ZM21 Mg Alloy. <i>Materials Science Forum</i> , 2019 , 969, 309-314	0.4	
87	High strength and high conductive copper-based alloy produced by SPD for contact wires for high speed railway lines - A short review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 672, 012055	0.4	
86	Microstructure Characterization of Superalloy 718 during Dissimilar Rotary Friction Welding. <i>Materials Science Forum</i> , 2019 , 969, 211-217	0.4	19
85	Effect of Welding Speed on the Microstructure and Corrosion Properties of Weld and Heat Affected Zones in GTA Welded AA2014 Alloy. <i>Materials Science Forum</i> , 2019 , 969, 834-838	0.4	
84	Microstructure and mechanical properties of Al BMg 0.25 Sc alloy sheets produced by cryorolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 740-741, 49-62	5.3	19
83	Formability and fracture behaviour of cryorolled Al-3 Mg-0.25 Sc alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 721, 14-21	5.3	11
82	Effect of gaussian beam on microstructural and mechanical properties of dissimilar laser welding of AA5083 and AA6061 alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 330, 012066	0.4	11

81	Microstructure and Mechanical properties of Cu-7wt.% Al Alloy produced by Equal Channel Angular pressing with different routes. <i>Materials Today: Proceedings</i> , 2018 , 5, 8241-8248	1.4	
80	Studies on Dissimilar Friction Stir Welded Al ₃ CuTiB ₂ In Situ Composites with Base Alloy. <i>Advanced Materials Research</i> , 2018 , 1148, 165-175	0.5	
79	Effect of Frequency and Duty Cycle on Growth, Structure and Corrosion Resistance of Micro Arc Oxidation Coating on RZ5 Magnesium Alloy. <i>Key Engineering Materials</i> , 2018 , 775, 291-297	0.4	0
78	Study on low melting nanocrystalline Sn-0.7Cu solder alloy. <i>International Journal of Engineering, Science and Technology</i> , 2018 , 10, 17-26	1.4	3
77	Characterization of Laser Beam Welded Al _{0.5} CoCrFeNi High-Entropy Alloy. <i>Key Engineering Materials</i> , 2018 , 775, 448-453	0.4	12
76	Development of a Friction Welded Bimetallic Joints Between Titanium and 304 Austenitic Stainless Steel 2018 , 709-717		18
75	Synthesis of metal catalyst carbon nanotubes by arc-discharge method used for energy efficient applications 2018 ,		2
74	Nucleation and growth of TiAl intermetallic phase in diffusion bonded Ti/Al Metal Intermetallic Laminate. <i>Scientific Reports</i> , 2018 , 8, 16797	4.9	34
73	Studies on post weld heat treatment of dissimilar aluminum alloys by laser beam welding technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 330, 012079	0.4	10
72	Mechanical and Tribological Behavior of Multiwalled Carbon Nanotubes-Reinforced AA7075 Composites Prepared by Powder Metallurgy and Hot Extrusion. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 5675-5688	1.6	11
71	Mechanical behavior and void coalescence analysis of cryorolled AA8090 alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 253-259	3.2	5
70	Microstructural Characterization and Mechanical Properties of Diffusion Bonded Ti/Ni In Situ Metal Intermetallic Laminates. <i>Transactions of the Indian Institute of Metals</i> , 2017 , 70, 709-719	1.2	6
69	Improving the corrosion properties of magnesium AZ31 alloy GTA weld metal using microarc oxidation process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017 , 24, 566-573	3.1	7
68	Enhanced Relative Slip Distance in Gas-Tungsten-Arc-Welded Al _{0.5} CoCrFeNi High-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3630-3634	2.3	45
67	A comparative study on microstructure and mechanical properties near interface for dissimilar materials during conventional V-groove and narrow gap welding. <i>Journal of Manufacturing Processes</i> , 2017 , 25, 274-283	5	20
66	Corrosion behavior of ultrafine-grained AA2024 aluminum alloy produced by cryorolling. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017 , 24, 1293-1305	3.1	9
65	Effect of Stress Relief Annealing on Microstructure & Mechanical Properties of Welded Joints Between Low Alloy Carbon Steel and Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 230-245	2.3	7
64	On Plastic Deformation Behavior of Cryorolled AA8090 Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2017 , 70, 1463-1475	1.2	7

63	Work hardening behavior of Ti/Al-based metal intermetallic laminates. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 361-374	3.2	10
62	WEAR BEHAVIOUR OF CARBON NANOTUBES REINFORCED NANOCRYSTALLINE AA 4032 COMPOSITES. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 149, 012080	0.4	
61	Analysis and Characterization of the Role of Ni Interlayer in the Friction Welding of Titanium and 304 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 347-359	2.3	73
60	A study on the work hardening and the effect of triaxiality on the fracture behaviour of some cryorolled aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 165-177	5.3	15
59	Effect of Composition on Tensile and Impact Properties of Tungsten-Based Heavy Alloy. <i>Materials Science Forum</i> , 2016 , 863, 40-44	0.4	1
58	Effect of coarse grain matrix content on the mechanical behavior of trimodal AA 6061-TiO ₂ nanocomposite prepared by mechanical alloying. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 78, 385-394	3.2	5
57	Mechanical anisotropy and microstructural changes during cryorolling of AlMgSi alloy. <i>Materials Characterization</i> , 2015 , 107, 302-308	3.9	28
56	Effect of cryorolling on the mechanical properties of AA5083 alloy and the Portevin-Chatelier phenomenon. <i>Materials & Design</i> , 2015 , 67, 107-117		47
55	Microstructural observation, consolidation and mechanical behaviour of AA 6061 nanocomposites reinforced by Al ₂ O ₃ nanoparticles. <i>Advanced Powder Technology</i> , 2015 , 26, 139-148	4.6	32
54	An investigation of the synthesis, consolidation and mechanical behaviour of Al 6061 nanocomposites reinforced by TiC via mechanical alloying. <i>Materials & Design</i> , 2014 , 57, 394-404		75
53	Evaluation of Microstructures and Mechanical Properties of Dissimilar Materials by Friction Welding 2014 , 5, 1107-1113		48
52	Fabrication and consolidation behavior of Al 6061 nanocomposite powders reinforced by multi-walled carbon nanotubes. <i>Powder Technology</i> , 2014 , 258, 189-197	5.2	29
51	The influence of aluminium intermediate layer in dissimilar friction welds. <i>International Journal of Materials Research</i> , 2014 , 105, 350-357	0.5	47
50	Properties of Friction Welding Titanium-stainless Steel Joints with a Nickel Interlayer 2014 , 5, 1120-1129		67
49	Thermal Analysis and Nanoindentation Studies on Nanocrystalline AlCrNiFeZn High Entropy Alloy 2014 , 6, 641-647		13
48	Characterization of Nanocrystalline AlCoCrCuNiFeZn High Entropy Alloy Produced by Mechanical Alloying 2014 , 5, 1020-1026		20
47	Mechanical Properties and Corrosion Behavior of Carbon Nanotubes Reinforced AA 4032 Nanocomposites. <i>Experimental Techniques</i> , 2014 , 38, 48-52	1.4	5
46	Strengthening contributions in ultra-high strength cryorolled Al-4%Cu-3%TiB ₂ in situ composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 641-647	3.3	21

45	Dispersion and Thermal Analysis of Carbon Nanotube Reinforced AA 4032 Alloy Produced by High Energy Ball Milling. <i>Experimental Techniques</i> , 2013 , 37, 14-18	1.4	5
44	Influence of turning parameters on the machinability of homogenized AlCu/TiB ₂ in situ metal matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 67, 1589-1596	3.2	32
43	Phase Evolution and Thermal Analysis of Nanocrystalline AlCrCuFeNiZn High Entropy Alloy Produced by Mechanical Alloying. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3077-3084	1.6	26
42	Study on cryorolled AlCu alloy using X-ray diffraction line profile analysis and evaluation of strengthening mechanisms. <i>Materials & Design</i> , 2013 , 52, 785-790		63
41	Tribological studies on laser surface melted Hastelloy C-276. <i>Surface Engineering</i> , 2013 , 29, 531-535	2.6	6
40	Improving Corrosion Resistance of AA2014 Welds with Micro Arc Oxidation. <i>Materials Science Forum</i> , 2013 , 765, 634-638	0.4	1
39	Studies on Potentiodynamic Polarization Behaviour of Cryorolled Al-Mg-Si Alloy. <i>Key Engineering Materials</i> , 2013 , 545, 153-157	0.4	6
38	Enhanced Mechanical Properties of AA5083 GTA Weldments with Current Pulsing and Addition of Scandium. <i>Materials Science Forum</i> , 2013 , 765, 716-720	0.4	6
37	Influence of titaniumBoron additions on grain refinement of AA6082 gas tungsten arc welds. <i>Materials & Design</i> , 2012 , 40, 467-475		11
36	Microstructural evolution and aging behavior of cryorolled AlZnMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 535, 129-135	5.3	47
35	Mechanical properties and microstructures of AlFe(0-1)Zr bulk nano-crystalline alloy processed by mechanical alloying and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 541, 152-158	5.3	24
34	Localized corrosion of an ultrafine grained AlZnMg alloy produced by cryorolling. <i>Corrosion Science</i> , 2012 , 60, 82-89	6.8	61
33	Studies of the energy spectrum and composition of the primary cosmic rays at 100-1000 TeV from the GRAPES-3 experiment. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2012 , 39, 025201	2.9	22
32	Microstructural characterization and grain refinement of AA6082 gas tungsten arc welds by scandium modified fillers. <i>Materials Chemistry and Physics</i> , 2012 , 137, 543-551	4.4	17
31	Effect of Rolling Temperature on Microstructure and Mechanical Properties of Cryorolled Al-Mg-Si Alloy Reinforced with 3wt% TiB ₂ In Situ Composite. <i>Advanced Materials Research</i> , 2012 , 584, 556-560	0.5	12
30	Studies on Dissimilar Welding of AA5083 and AA6061 Alloys by Laser Beam Welding. <i>Advanced Materials Research</i> , 2012 , 626, 701-705	0.5	
29	X-ray peak broadening analysis of AA 6061 100 % wt.% Al ₂ O ₃ nanocomposite prepared by mechanical alloying. <i>Materials Characterization</i> , 2011 , 62, 661-672	3.9	131
28	High temperature tensile properties of cryorolled Al-4wt%Cu-3wt%TiB ₂ in-situ composites. <i>Transactions of the Indian Institute of Metals</i> , 2011 , 64, 63-66	1.2	16

27	Microstructure, cold workability and strain hardening behavior of trimodal AA 6061/TiO ₂ nanocomposite prepared by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6776-6787	5.3	21
26	Anisotropy models in precise crystallite size determination of mechanically alloyed powders. <i>Physica B: Condensed Matter</i> , 2011 , 406, 165-168	2.8	24
25	Evaluation of compaction equations and prediction using adaptive neuro-fuzzy inference system on compressibility behavior of AA 6061/100 μm wt.% TiO ₂ nanocomposites prepared by mechanical alloying. <i>Powder Technology</i> , 2011 , 209, 124-137	5.2	28
24	Influence of Crystallite Size on Consolidation of Carbon Nanotube Reinforced AA 4032 Composite Powders by Equal Channel Angular Pressing. <i>Key Engineering Materials</i> , 2011 , 471-472, 127-132	0.4	
23	CONSOLIDATION OF CNT-REINFORCED AA4032 NANOCOMPOSITES BY ECAP. <i>International Journal of Nanoscience</i> , 2011 , 10, 233-236	0.6	2
22	Techno-economics of carbon nanotubes produced by open air arc discharge method. <i>International Journal of Engineering, Science and Technology</i> , 2010 , 2,	1.4	15
21	Synthesis and Characterization of CNT Reinforced AA4032 Nanocomposites by High Energy Ball Milling 2010 ,		2
20	Synthesis, structure and sinterability of 6061 AA100 μm wt.% TiO ₂ composites prepared by high-energy ball milling. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 712-721	5.7	55
19	Effect of strengthening mechanisms on cold workability and instantaneous strain hardening behavior during grain refinement of AA 6061-10wt.% TiO ₂ composite prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 236-244	5.7	17
18	Influence of short annealing treatment on corrosion behaviour of cryorolled commercially pure aluminum. <i>Anti-Corrosion Methods and Materials</i> , 2010 , 57, 18-20	0.8	9
17	An investigation on flowability and compressibility of AA 6061/100 μm -x wt.% TiO ₂ micro and nanocomposite powder prepared by blending and mechanical alloying. <i>Powder Technology</i> , 2010 , 201, 70-82	5.2	90
16	Dry sliding wear behaviour of AA 6351-ZrB ₂ in situ composite at room temperature. <i>Materials & Design</i> , 2010 , 31, 1526-1532		96
15	Studies on void coalescence analysis of nanocrystalline cryorolled commercially pure aluminium formed under different stress conditions. <i>Materials & Design</i> , 2010 , 31, 3578-3584		21
14	Microstructure and mechanical properties of fly ash particle reinforced AA6061 composites produced by press and extrusion. <i>Transactions of the Indian Institute of Metals</i> , 2009 , 62, 559-566	1.2	22
13	Sliding wear behaviour of Al 6063/TiB ₂ in situ composites at elevated temperatures. <i>Materials & Design</i> , 2009 , 30, 2521-2531		155
12	Influence of Weld Cooling Rate on Microstructure and Mechanical Properties of Alloy 718 Weldments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 2115-2127	2.3	55
11	Microstructure and mechanical properties of ultra fine grained Cu ₃ Zn and Cu ₃ Al alloys produced by cryorolling and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 489, 253-258	5.3	87
10	Study on abrasive and erosive wear behaviour of Al 6063/TiB ₂ in situ composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 498, 495-500	5.3	79

9	A Novel Method of Estimating the Laves Phase in Electron Beam Welded Alloy 718. <i>Praktische Metallographie/Practical Metallography</i> , 2008 , 45, 271-282	0.3	1
8	Influence of magnetic arc oscillation and current pulsing on fatigue behavior of alloy 718 TIG weldments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 448, 120-127	5.3	42
7	Coupled effect of heat input and beam oscillation on mechanical properties of alloy 718 electron beam weldments. <i>Science and Technology of Welding and Joining</i> , 2006 , 11, 127-134	3.7	10
6	Influence of magnetic arc oscillation and current pulsing on microstructure and high temperature tensile strength of alloy 718 TIG weldments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 327-331	5.3	38
5	Microwave processing of functionally graded bioactive materials. <i>Materials Letters</i> , 2003 , 57, 2716-2721	3.3	23
4	Dissimilar welding of high-entropy alloy to Inconel 718 superalloy for structural applications. <i>Journal of Materials Research</i> , 1	2.5	1
3	Tribological Behavior of Laser Surface Melted TiAl Fabricated by Electron Beam Additive Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	1
2	Dynamic Compression Behavior of Ti/TiAl ₃ /Al Metal Intermetallic Laminates. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	
1	Sustainable Low-Cost Method for Production of High-Entropy Alloys from Alloy Scraps. <i>Journal of Sustainable Metallurgy</i> ,	2.7	0