

Morteza Shamanian

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Band gap tuning of oxygen vacancy-induced Al ₂ O ₃ -TiO ₂ ceramics processed by spark plasma sintering. <i>Journal of Electroceramics</i> , 2022, 48, 35-50.	0.8	1
2	The Effect of Bonding Time on Dissimilar Joint Properties Between Inconel 625 and AISI 316L Using Transient Liquid Phase Bonding Method with Cu Interlayer. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 3311-3325.	1.2	4
3	Effects of cooling regimes on the microstructural and mechanical properties of the transient liquid phase joints of UNS S32750 super duplex stainless steel/BNi-2/AISI 304 stainless steel. <i>Journal of Materials Science</i> , 2022, 57, 4383-4398.	1.7	3
4	Asymmetric Cu Diffusion in Transient Liquid Phase (TLP) Bonding of Inconel 625 to AISI 316L Stainless Steel with Cu Interlayer. <i>Journal of Phase Equilibria and Diffusion</i> , 2022, 43, 43-50.	0.5	1
5	Microstructure and corrosion resistance of TLPB of Inconel 625 to 316l SS. <i>Materials Science and Technology</i> , 2022, 38, 444-452.	0.8	1
6	Damage Micromechanisms in Friction Stir-Welded DP600 Steel during Uniaxial Tensile Deformation. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 10044-10053.	1.2	4
7	Effects of ER308L buttering and post-buttering heat treatment on the microstructure and mechanical properties of API 5L X65/AISI304 dissimilar joint. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 199, 104702.	1.2	5
8	Osteogenic and antibacterial surfaces on additively manufactured porous Ti-6Al-4V implants: Combining silver nanoparticles with hydrothermally synthesized HA nanocrystals. <i>Materials Science and Engineering C</i> , 2021, 120, 111745.	3.8	29
9	Insights into the microstructure evolution and crystallographic texture of API X-65 steel/UNS S32750 stainless steel dissimilar welds by EBSD analysis. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 973-986.	1.3	4
10	EBSD study of dissimilar transient liquid phase joining of duplex stainless steel SAF 2205 to nickel-based superalloy IN X-750. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 721-730.	1.3	3
11	Study of DP590 Microstructure Welded with Resistance Spot Welding Method by Using EBSD Technique. <i>Metallography, Microstructure, and Analysis</i> , 2021, 10, 266-275.	0.5	3
12	Improvement of the microstructural features and mechanical properties of advanced high-strength steel DP590 welds. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1022-1029.	2.4	7
13	Assessment of Microstructure and Stress Corrosion Cracking Susceptibility of Multipass Gas Metal Arc Welded Al 5083-H321 Aluminum Alloy. <i>Metallography, Microstructure, and Analysis</i> , 2021, 10, 246-256.	0.5	5
14	Effect of Pulse Current Frequency on Microstructure and Hot Corrosion Behavior of Tungsten Inert Gas-Welded Joints of N155 Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7494-7509.	1.2	3
15	Characterization of Microstructure, Microtexture, and Mechanical Response in UNS N08825 Superalloy/AISI 316L Stainless Steel Welds by Electron Backscatter Diffraction Analysis. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6009-6026.	1.2	2
16	Microstructure and Corrosion Properties of Friction Stir-Welded High-Strength Low -Alloy Steel. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 1763-1774.	0.7	4
17	Transient Liquid Phase Bonding of Al-2%Nanoclay Composite: Microstructural Characterization and Mechanical Properties. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 2285-2295.	0.7	0
18	Effect of Friction Stir Welding on the Microstructure and Mechanical Properties of Super Duplex Stainless Steel. <i>Metallography, Microstructure, and Analysis</i> , 2021, 10, 383-391.	0.5	3

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19	Effect of Bonding Temperature on Microstructure and Mechanical Properties of Dissimilar Joint Between Inconel 617 and Stainless Steel 310. <i>Metallography, Microstructure, and Analysis</i> , 2021, 10, 419-429.	0.5	3
20	Comprehensive microstructural investigation during dissimilar transient liquid phase bonding cobalt-based superalloys by BNi-9 amorphous interlayer foil. <i>Journal of Materials Research and Technology</i> , 2021, 13, 2144-2160.	2.6	13
21	Phase Formation during Heating of Amorphous Nickel-Based BNi-3 for Joining of Dissimilar Cobalt-Based Superalloys. <i>Materials</i> , 2021, 14, 4600.	1.3	8
22	WEAR ANALYSIS OF ALUMINUM-NICKEL INTERMETALLIC SURFACE COMPOSITE FABRICATED BY FRICTION STIR PROCESSING. <i>Surface Review and Letters</i> , 2021, 28, 2050057.	0.5	2
23	The Effect of Welding Heat Input on the Structure-Property Relationship of a New Grade Super Duplex Stainless Steel. <i>Steel Research International</i> , 2020, 91, 1900347.	1.0	20
24	Void Formation and Plastic Deformation Mechanism of a Cold-Rolled Dual-Phase Steel During Tension. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 299-306.	1.5	22
25	Effect of Substrate's Heat Treatment on Microstructure and Mechanical Properties TLP Bonding of Dissimilar X-45/FSX-414 Cobalt Based Superalloys. <i>Metals and Materials International</i> , 2020, , 1.	1.8	13
26	Characterization of Microstructure and Texture across N155 Superalloy Weldment Joint with Austenitic Filler Metal. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1964-1973.	1.2	6
27	An injectable carboxymethyl chitosan-methylcellulose-pluronic hydrogel for the encapsulation of meloxicam loaded nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 220-229.	3.6	34
28	Effect of Pulsed Current Frequency on Microstructure and Mechanical Properties of Gas-Tungsten-Arc-Welded Joints of UNS R30155. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2635-2647.	1.2	4
29	Electroless nickel-phosphorus plating on WC-Co powders using HVOF feedstock. <i>Surface Engineering</i> , 2019, 35, 120-127.	1.1	11
30	Micro-texture and corrosion behavior of dissimilar joints of UNS S32750 stainless steel/UNS N08825 Ni-based superalloy. <i>Materials Characterization</i> , 2019, 155, 109802.	1.9	19
31	Electron beam welding of inconel 617 to AISI 310: Corrosion behavior of weld metal. <i>Vacuum</i> , 2019, 161, 371-374.	1.6	23
32	Electron Back Scattered Diffraction Study of Dissimilar Welding Between the Super Duplex Stainless Steel and the Ni-Based Superalloy. <i>Metals and Materials International</i> , 2019, 25, 1287-1300.	1.8	11
33	Effect of Pulsed Current on the Microstructure, Mechanical Properties and Corrosion Behavior of Ni-Based Alloy/Super Duplex Stainless Steel Dissimilar Welds. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 2403-2416.	0.7	4
34	Microstructure and Mechanical Properties of Inconel 617/AISI 310 Electron Beam Welds. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3164-3173.	1.1	11
35	The PC-GTAW of Ti-6Al-4V Thin Sheets and Its Effects on Mechanical and Microstructural Properties. <i>Metallography, Microstructure, and Analysis</i> , 2019, 8, 871-879.	0.5	5
36	Poly (3-hydroxybutyrate-co-3-hydroxyvalerate)/fibrinogen/bredigite nanofibrous membranes and their integration with osteoblasts for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1154-1165.	2.1	34

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37	Characterization of Al1100-RHA composite developed by accumulative roll bonding. Journal of Composite Materials, 2019, 53, 2047-2052.	1.2	4
38	Comparison of Microstructure and Tensile Properties of Dual Phase Steel Welded Using Friction Stir Welding and Gas Tungsten Arc Welding. Steel Research International, 2018, 89, 1700427.	1.0	13
39	Characterization of Structure-Property Relationship of Incoloy 825 and SAF 2507 Dissimilar Welds. Transactions of the Indian Institute of Metals, 2018, 71, 1747-1757.	0.7	18
40	Comparison of pulsed and continuous current gas tungsten arc welding in dissimilar welding between UNS S32750 and AISI 321 in optimized condition. International Journal of Advanced Manufacturing Technology, 2018, 97, 687-696.	1.5	11
41	Friction Stir Welding of Al-B4C Composite Fabricated by Accumulative Roll Bonding: Evaluation of Microstructure and Mechanical Behavior. Journal of Materials Engineering and Performance, 2018, 27, 835-846.	1.2	30
42	Preparation and characterization of biohybrid poly (3-hydroxybutyrate-co-3-hydroxyvalerate) based nanofibrous scaffolds. AIP Conference Proceedings, 2018, , .	0.3	4
43	Surface Modification by Friction Stir Processing of Low-Carbon Steel: Microstructure Investigation and Wear Performance. Journal of Materials Engineering and Performance, 2018, 27, 751-763.	1.2	4
44	Development and characterization of Al/MWCNT-Al ₂ O ₃ hybrid composite by accumulative roll bonding. Journal of Materials Science, 2018, 53, 10812-10821.	1.7	8
45	FABRICATION OF IN SITU NICKEL INTERMETALLIC COMPOUND DISPERSED ALUMINUM MATRIX COMPOSITES BY FRICTION STIR PROCESS. Surface Review and Letters, 2018, 25, 1950010.	0.5	1
46	Parametric Optimization of Pulsed Current Gas Arc Welding of Dissimilar Welding Between UNS32750 and AISI 321 Based on Taguchi Method. Transactions of the Indian Institute of Metals, 2018, 71, 597-603.	0.7	6
47	A Comparative Study on Direct and Pulsed Current Micro-plasma Arc Welding of Alloy Ti-6Al-4V. Transactions of the Indian Institute of Metals, 2018, 71, 3103-3110.	0.7	5
48	Surface Characterization of Incoloy 825 Ni-Based Alloy/2507 Super Duplex Stainless Steel Dissimilar Friction Stir Welds. Corrosion, 2018, 74, 1259-1271.	0.5	5
49	A microstructure evaluation of different areas of resistance spot welding on ultra-high strength TRIP1100 steel. Cogent Engineering, 2018, 5, 1512939.	1.1	8
50	Grain and texture evolution in nano/ultrafine-grained bimetallic Al/Ni composite during accumulative roll bonding. Journal of Materials Science, 2018, 53, 12553-12569.	1.7	14
51	Effect of Recrystallization and Phase Transitions on the Mechanical Properties of Semihard Magnetic FeCo-7.15V Alloy During the Thermomechanical Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1903-1909.	1.1	7
52	Microstructure and Mechanical Properties of Dissimilar Friction Stir Spot Welding Between St37 Steel and 304 Stainless Steel. Journal of Materials Engineering and Performance, 2017, 26, 2847-2858.	1.2	10
53	Mechanical and microstructural evaluation of SAF 2507 and incoloy 825 dissimilar welds. Journal of Manufacturing Processes, 2017, 26, 407-418.	2.8	41
54	Tribological properties of B ₄ C-TiB ₂ -TiC-Ni cermet coating produced by HVOF. International Journal of Materials Research, 2017, 108, 681-687.	0.1	3

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55	Dissimilar welding between SAF 2507 stainless steel and Incoloy 825 Ni-based alloy: The role of microstructure on corrosion behavior of the weld metals. <i>Journal of Manufacturing Processes</i> , 2017, 29, 376-388.	2.8	40
56	Diffusion brazing of Ti-6Al-4V and AISI 304: an EBSD study and mechanical properties. <i>Journal of Materials Science</i> , 2017, 52, 12467-12475.	1.7	27
57	Influence of Microstructural Features on the Mechanical Behavior of Incoloy 825 Welds. <i>Metallography, Microstructure, and Analysis</i> , 2017, 6, 190-199.	0.5	19
58	Influence of Heat Treatment Schedule on the Tensile Properties and Wear Behavior of Dual Phase Steels. <i>Steel Research International</i> , 2017, 88, 1600213.	1.0	18
59	The Effect of Strain on the Formation of an Intermetallic Layer in an Al-Ni Laminated Composite. <i>Metals</i> , 2017, 7, 445.	1.0	13
60	Process analysis and optimization for fracture stress of electron beam welded ultra-thin FeCo-V foils. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 1045-1056.	1.5	3
61	EBSD Study on Grain Boundary and Microtexture Evolutions During Friction Stir Processing of A413 Cast Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2824-2835.	1.2	16
62	Synthesis, Characterization, In Vitro Bioactivity and Biocompatibility Evaluation of Hydroxyapatite/Bredigite (Ca ₇ MgSi ₄ O ₁₆) Composite Nanoparticles. <i>Jom</i> , 2016, 68, 1061-1070.	0.9	18
63	Evaluation of microstructure and texture across the welded interface of super duplex stainless steel and high strength low alloy steel. <i>Surface and Coatings Technology</i> , 2015, 264, 150-162.	2.2	85
64	Physical, Mechanical, and Dry Sliding Wear Properties of Fe-Cr-W-C Hardfacing Alloys Under Different Tungsten Addition. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 919-927.	1.0	10
65	Study of the Microstructures and Abrasive Characteristics of Mo-Fe-C Hardfacing Alloys Fabricated by Gas Tungsten Arc Welding. <i>Tribology Transactions</i> , 2015, 58, 225-230.	1.1	4
66	Effect of Welding Time in the Resistance Spot Welded Dissimilar Stainless Steels. <i>Transactions of the Indian Institute of Metals</i> , 2015, 68, 247-255.	0.7	14
67	Structure, Texture and Magnetic Properties of Laser-Welded Ultrathin Fe-Co-V Foils. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 338-347.	1.5	1
68	The Effect of Process Parameters on the Microstructure and Mechanical Properties of Semisolid Cast Al6061. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 780-792.	1.0	7
69	Correlation Between Magnetic Properties and Allotropic Phase Transition of Fe-Co-V Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1055-1058.	1.5	10
70	Design and optimization of alginate-chitosan-pluronic nanoparticles as a novel meloxicam drug delivery system. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	29
71	Characterization of microstructure and texture across dissimilar super duplex/austenitic stainless steel weldment joint by super duplex filler metal. <i>Materials Characterization</i> , 2015, 106, 27-35.	1.9	40
72	Microstructure and Crystallographic Texture Variations in the Friction-Stir-Welded Al-Al ₂ O ₃ -B ₄ C Metal Matrix Composite Produced by Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5747-5755.	1.1	4

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73	Tribocorrosion Behavior of Overlay Welded Super Duplex Stainless Steel in Chloride Medium. Journal of Bio- and Tribo-Corrosion, 2015, 1, 1.	1.2	7
74	Electron Backscatter Diffraction Analysis of Joints Between AISI 316L Austenitic/UNS S32750 Dual-Phase Stainless Steel. Journal of Materials Engineering and Performance, 2015, 24, 3118-3128.	1.2	10
75	Cementite Formation from Hematite-Graphite Mixture by Simultaneous Thermal-Mechanical Activation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 813-823.	1.0	2
76	Fabrication and characterization of Al-Al ₂ O ₃ -ZrC composite produced by accumulative roll bonding (ARB) process. Journal of Alloys and Compounds, 2015, 618, 19-26.	2.8	36
77	Effect of current type on microstructure and corrosion resistance of super duplex stainless steel claddings produced by the gas tungsten arc welding process. Surface and Coatings Technology, 2014, 244, 45-51.	2.2	95
78	Interface microstructure across cladding of super duplex stainless steel with austenitic stainless steel buffer layer. Surface and Coatings Technology, 2014, 259, 532-542.	2.2	22
79	Microstructural and Statistical Study of Semisolid Casting of 6061 Alloy Using a Miniature Cooling Slope. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1804-1816.	1.0	8
80	Investigation on the resistance spot-welded austenitic/ferritic stainless steel. International Journal of Advanced Manufacturing Technology, 2014, 75, 1371-1379.	1.5	27
81	Evaluation of Microstructure and Mechanical Properties in Dissimilar Austenitic/Super Duplex Stainless Steel Joint. Journal of Materials Engineering and Performance, 2014, 23, 3745-3753.	1.2	72
82	Weldability of Ferritic Ductile Cast Iron Using Full Factorial Design of Experiment. Journal of Iron and Steel Research International, 2014, 21, 252-263.	1.4	23
83	Production of High-Strength Al/Al ₂ O ₃ /WC Composite by Accumulative Roll Bonding. Journal of Materials Engineering and Performance, 2014, 23, 3152-3158.	1.2	11
84	Dilution and Ferrite Number Prediction in Pulsed Current Cladding of Super-Duplex Stainless Steel Using RSM. Journal of Materials Engineering and Performance, 2013, 22, 3657-3664.	1.2	24
85	Oxygen vacancy-induced Al ₂ TiO ₅ -based multifunctional ceramic composites: Electrochemical and optical properties. Journal of Electroceramics, 0, , 1.	0.8	1