

A Y Shash

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Upgrading the mechanical properties of marine structural steel by enhancement of acicular ferrite formation. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2022, 53, 509-516.	0.5	0
2	A coupled experimental and numerical analysis of AA6063 friction stir welding. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 8392-8400.	1.1	6
3	A detailed process design for conventional friction stir welding of aluminum alloys and an overview of related knowledge. <i>Engineering Reports</i> , 2021, 3, e12270.	0.9	2
4	Effect of section thickness on microstructure and mechanical properties of compacted graphite iron for diesel engine applications. <i>Heliyon</i> , 2021, 7, e05930.	1.4	14
5	Welding and processing of metallic materials by using friction stir technique: A review. <i>Journal of Advanced Joining Processes</i> , 2021, 3, 100059.	1.5	56
6	A coupled statistical and numerical analysis of the residual properties of AA6063 friction stir welds. <i>Journal of Advanced Joining Processes</i> , 2021, 3, 100042.	1.5	4
7	Thermal-induced Residual Stresses and Distortions in Friction Stir Welds - A Literature Review. <i>Journal of Welding and Joining</i> , 2021, 39, 409-418.	0.6	2
8	Effect of Al Content on the Strength/Toughness Relationship of Hot-Forged Bainitic Medium-Carbon Steel. <i>Iron and Steel Technology</i> , 2021, 18, .	0.1	1
9	Optimization of Strength and Toughness for Hot-Forged Bainitic Medium Carbon Steel Using RSM. , 2021, , .		0
10	Effect of carbon nanotubes (CNTs) and silicon carbide (SiC) on mechanical properties of pure Al manufactured by powder metallurgy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1948-1954.	2.6	29
11	Investigation of process parameters in orthogonal cutting using finite element approaches. <i>Heliyon</i> , 2020, 6, e05498.	1.4	8
12	Cutting forces and crater wear prediction in orthogonal cutting using two approaches of finite element modeling. <i>Engineering Reports</i> , 2020, 2, e12240.	0.9	5
13	Replacement of silicon by aluminum with the aid of vanadium for galvanized TRIP steel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3578-3589.	2.6	22
14	Effects of Process Parameters on the Machining Process in Die-Sinking EDM of Alloyed Tool Steel. <i>Advanced Structured Materials</i> , 2020, , 215-233.	0.3	7
15	On the influence of nanoparticles as addition to the A356 aluminum alloy: Is it acting as a refining or strengthening mechanism?. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 594-602.	0.5	1
16	Influence of process parameters in electrical discharge machining on H13 die steel. <i>Heliyon</i> , 2019, 5, e01813.	1.4	23
17	Fabrication of tungsten heavy alloy long rods by warm powder extrusion and vacuum sintering. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2209-2215.	2.6	5
18	Influence of carbon nanotubes and dispersions of SiC on the physical and mechanical properties of pure copper and copper-nickel alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 588-598.	0.5	3

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19	Studying the Effect of Manganese Content on TRIP Advanced High Strength Steel. Materials Science Forum, 2019, 950, 50-54.	0.3	2
20	Effect of holding time, thickness and heat treatment on microstructure and mechanical properties of compacted graphite cast iron. Journal of Materials Research and Technology, 2019, 8, 1188-1196.	2.6	19
21	Semi-automated Gating System Design with Optimum Gate and Overflow Positions for Aluminum HPDC. Advanced Structured Materials, 2018, , 37-51.	0.3	4
22	Finite element modeling of aluminum alloy AA5083-O friction stir welding process. Journal of Materials Processing Technology, 2018, 252, 13-24.	3.1	38
23	Influence of heat treatment conditions on the mechanical properties of Ti-6Al-4V alloy. Canadian Metallurgical Quarterly, 2018, 57, 186-193.	0.4	21
24	Design criteria of multilayer fibers reinforced composite in bulky 3D loaded applications. Composites Part B: Engineering, 2018, 137, 92-101.	5.9	4
25	Effect of Coke Size on the Mechanical and Wear Properties of Carburized Mild Steel. Arabian Journal for Science and Engineering, 2018, 43, 1083-1092.	1.7	1
26	Effect of carbon nano-tubes and dispersions of SiC and Al ₂ O ₃ on the mechanical and physical properties of copper-nickel alloy. Heliyon, 2018, 4, e00876.	1.4	8
27	Effect of Friction Stir Welding Parameters on the Peak Temperature and the Mechanical Properties of Aluminum Alloy 5083-O. Advanced Structured Materials, 2018, , 11-25.	0.3	14
28	Identification of copper precipitates in scrap based recycled low carbon rebar steel. Materials and Design, 2017, 120, 157-169.	3.3	5
29	Evaluation of microstructural evolution during torsion fatigue and surface performance of high nitrogen stainless steels suitable for biomedical applications. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 378-386.	0.5	0
30	Intrathecal dexmedetomidine in TURP operations: A randomised controlled study. Egyptian Journal of Anaesthesia, 2017, 33, 331-337.	0.2	0
31	Mechanical Properties and Wear Resistance of Semisolid Cast Al ₂ O ₃ Nano Reinforced Hypo and Hyper-eutectic Al-Si Composites. Advanced Structured Materials, 2017, , 13-30.	0.3	7
32	Designing, Processing and Isothermal Transformation of Al-Si Medium Carbon Ultrafine High Strength Bainitic Steel. Defect and Diffusion Forum, 2017, 380, 1-11.	0.4	0
33	Application of Short Fibers Reinforced Composites in Power Transmission Coupling. Latin American Journal of Solids and Structures, 2017, 14, 1789-1803.	0.6	3
34	Heat Transfer Simulation and Effect of Tool Pin Profile and Rotational Speed on Mechanical Properties of Friction Stir Welded AA5083-O. Journal of Welding and Joining, 2017, 35, 35-43.	0.6	6
35	Influence of the Welding Speeds and Changing the Tool Pin Profiles on the Friction Stir Welded AA5083-O Joints. Journal of Welding and Joining, 2017, 35, 44-51.	0.6	6
36	Options for Nanoreinforced Cast Al-Si Alloys with TiO ₂ Nanoparticles. Advanced Structured Materials, 2017, , 1-12.	0.3	1

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37	The Effect of Process Parameters on the Mechanical Properties of A356 Al-Alloy/ZrO ₂ Nanocomposite. Journal of Nano Research, 2016, 38, 1-8.	0.8	5
38	Influence of Microstructure and Second Phase Precipitation by Adding Al-Ti on the Mechanical Behavior of Austenitic Heat Resistant Steel Castings. Journal of Materials Science and Engineering B, 2016, 6, .	0.2	0
39	Nanoreinforced Cast Al-Si Alloys with Al ₂ O ₃ , TiO ₂ and ZrO ₂ Nanoparticles. Metals, 2015, 5, 802-821.	1.0	71
40	Influence of Al ₂ O ₃ Nano-dispersions on Mechanical and Wear Resistance Properties of Semisolid Cast A356 Al Alloy. Advanced Structured Materials, 2015, , 13-24.	0.3	7
41	Effect of tempcore processing on mitigating problems of tramp elements in low c steel produced from recycled material. Journal of Iron and Steel Research International, 2015, 22, 582-589.	1.4	7
42	Hardness and Wear Behaviour of Semi-Solid Cast A390 Alloy Reinforced with Al ₂ O ₃ and TiO ₂ Nanoparticles. Arabian Journal for Science and Engineering, 2014, 39, 5171-5184.	1.1	28
43	Enhancement of pearlitic structure through inoculation with nano-size silicon carbide. International Journal of Nanoparticles, 2014, 7, 203.	0.1	1
44	NICKEL BASE SUPERALLOYS USED FOR AERO ENGINE TURBINE BLADES. The International Conference on Applied Mechanics and Mechanical Engineering, 2014, 16, 1-22.	0.1	4
45	ENHANCING PROPERTIES OF CAST AL ALLOYS BY RHEOCASTING AND NANO-DISPERSIONS. The International Conference on Applied Mechanics and Mechanical Engineering, 2012, 15, 1-18.	0.1	0
46	Influence of nanodispersions on strength"ductility properties of semisolid cast A356 Al alloy. Materials Science and Technology, 2010, 26, 1226-1231.	0.8	26
47	Synthesis and Characterization of New Cast A356(Al ₂ O ₃)P Metal Matrix Nano-Composites. , 2008, , .		10
48	Optimization of Residual Manganese in Molten Metal in Basic Oxygen Furnace (BOF). Materials Science Forum, 2007, 561-565, 85-89.	0.3	2
49	Influence of Microstructural Changes and Grain Boundary Precipitation on the Behavior of 25Ni-15Cr-2Ti Superalloy during High Temperature Creep. Materials Science Forum, 2005, 475-479, 643-650.	0.3	0
50	Ageing behaviour of 2024-Al alloy reinforced with Al ₂ O ₃ particles. Journal of Materials Processing Technology, 1995, 55, 140-145.	3.1	14
51	Casting of 2024-Al alloy reinforced with Al ₂ O ₃ particles. Journal of Materials Processing Technology, 1995, 55, 199-205.	3.1	21
52	Turbo-compressors surge and surge control. , 1981, , .		1
53	Improvement of Mechanical Properties and Structure Modifications of Low Carbon Steel by Inoculations with Nano-Size Silicon Nitride. Journal of Nano Research, 0, 47, 24-32.	0.8	5
54	Effect of Aluminum and Vanadium on Retained Austenite Stability and Work Hardening in Silicon Free TRIP Steel. Key Engineering Materials, 0, 835, 347-352.	0.4	1