A Y Shash

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Upgrading the mechanical properties of marine structural steel by enhancement of acicular ferrite formation. Materialwissenschaft Und Werkstofftechnik, 2022, 53, 509-516. | 0.9 | Ο |
| 2 | A coupled experimental and numerical analysis of AA6063 friction stir welding. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8392-8400. | 2.1 | 6 |
| 3 | A detailed process design for conventional friction stir welding of aluminum alloys and an overview of related knowledge. Engineering Reports, 2021, 3, e12270. | 1.7 | 2 |
| 4 | Effect of section thickness on microstructure and mechanical properties of compacted graphite iron for diesel engine applications. Heliyon, 2021, 7, e05930. | 3.2 | 14 |
| 5 | Welding and processing of metallic materials by using friction stir technique: A review. Journal of Advanced Joining Processes, 2021, 3, 100059. | 2.7 | 56 |
| 6 | A coupled statistical and numerical analysis of the residual properties of AA6063 friction stir welds. Journal of Advanced Joining Processes, 2021, 3, 100042. | 2.7 | 4 |
| 7 | Thermal-induced Residual Stresses and Distortions in Friction Stir Welds - A Literature Review. Journal of Welding and Joining, 2021, 39, 409-418. | 1.3 | 2 |
| 8 | Effect of Al Content on the Strength/Toughness Relationship of Hot-Forged Bainitic Medium-Carbon Steel. Iron and Steel Technology, 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. Journal of Materials Research and Technology, 2020, 9, 1948-1954. | 5.8 | 29 |
| 11 | Investigation of process parameters in orthogonal cutting using finite element approaches. Heliyon, 2020, 6, e05498. | 3.2 | 8 |
| 12 | Cutting forces and crater wear prediction in orthogonal cutting using two approaches of finite element modeling. Engineering Reports, 2020, 2, e12240. | 1.7 | 5 |
| 13 | Replacement of silicon by aluminum with the aid of vanadium for galvanized TRIP steel. Journal of Materials Research and Technology, 2020, 9, 3578-3589. | 5.8 | 22 |
| 14 | Effects of Process Parameters on the Machining Process in Die-Sinking EDM of Alloyed Tool Steel. Advanced Structured Materials, 2020, , 215-233. | 0.5 | 7 |
| 15 | On the influence of nanoparticles as addition to the A356 aluminumâ€elloy: Is it acting as a refining or strengthening mechanism?. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 594-602. | 0.9 | 1 |
| 16 | Influence of process parameters in electrical discharge machining on H13 die steel. Heliyon, 2019, 5, e01813. | 3.2 | 23 |
| 17 | Fabrication of tungsten heavy alloy long rods by warm powder extrusion and vacuum sintering. Journal of Materials Research and Technology, 2019, 8, 2209-2215. | 5.8 | 5 |
| 18 | Influence of carbon nanotubes and dispersions of SiC on the physical and mechanical properties of pure copper and copperâ€nickel alloy. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 588-598. | 0.9 | 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. | 5.8 | 19 |
| 21 | Semi-automated Gating System Design with Optimum Gate and Overflow Positions for Aluminum HPDC. Advanced Structured Materials, 2018, , 37-51. | 0.5 | 4 |
| 22 | Finite element modeling of aluminum alloy AA5083-O friction stir welding process. Journal of Materials Processing Technology, 2018, 252, 13-24. | 6.3 | 38 |
| 23 | Influence of heat treatment conditions on the mechanical properties of Ti–6Al–4V alloy. Canadian Metallurgical Quarterly, 2018, 57, 186-193. | 1.2 | 21 |
| 24 | Design criteria of multilayer fibers reinforced composite in bulky 3D loaded applications. Composites Part B: Engineering, 2018, 137, 92-101. | 12.0 | 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. | 3.0 | 1 |
| 26 | Effect of carbon nano-tubes and dispersions of SiC and Al2O3 on the mechanical andÂphysical properties of copper-nickel alloy. Heliyon, 2018, 4, e00876. | 3.2 | 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. | 0.5 | 14 |
| 28 | Identification of copper precipitates in scrap based recycled low carbon rebar steel. Materials and Design, 2017, 120, 157-169. | 7.0 | 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. | 0.9 | 0 |
| 30 | Intrathecal dexmedetomidine in TURP operations: A randomised controlled study. Egyptian Journal of Anaesthesia, 2017, 33, 331-337. | 0.5 | 0 |
| 31 | Mechanical Properties and Wear Resistance of Semisolid Cast Al2O3 Nano Reinforced Hypo and Hyper-eutectic Al–Si Composites. Advanced Structured Materials, 2017, , 13-30. | 0.5 | 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. | 1.0 | 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. | 1.3 | 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. | 1.3 | 6 |
| 36 | Options for Nanoreinforced Cast Al–Si Alloys with TiO2 Nanoparticles. Advanced Structured Materials, 2017, , 1-12. | 0.5 | 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, . | 0.3 | 0 |
| 39 | Nanoreinforced Cast Al-Si Alloys with Al2O3, TiO2 and ZrO2 Nanoparticles. Metals, 2015, 5, 802-821. | 2.3 | 71 |
| 40 | Influence of Al2O3 Nano-dispersions on Mechanical and Wear Resistance Properties of Semisolid Cast A356 Al Alloy. Advanced Structured Materials, 2015, , 13-24. | 0.5 | 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. | 2.8 | 7 |
| 42 | Hardness and Wear Behaviour of Semi-Solid Cast A390 Alloy Reinforced with Al2O3 and TiO2 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. | 0.3 | 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 | Ο |
| 46 | Influence of nanodispersions on strength–ductility properties of semisolid cast A356 Al alloy. Materials Science and Technology, 2010, 26, 1226-1231. | 1.6 | 26 |
| 47 | Synthesis and Characterization of New Cast A356(Al2O3)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 | Ο |
| 50 | Ageing behaviour of 2024-Al alloy reinforced with Al2O3 particles. Journal of Materials Processing Technology, 1995, 55, 140-145. | 6.3 | 14 |
| 51 | Casting of 2024-Al alloy reinforced with Al2O3 particles. Journal of Materials Processing Technology, 1995, 55, 199-205. | 6.3 | 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 |