

# Adel T Abbas

## List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Closer Look at Precision Hard Turning of AISI4340: Multi-Objective Optimization for Simultaneous Low Surface Roughness and High Productivity. <i>Materials</i> , 2022, 15, 2106.	2.9	10
2	Effect of Different Cooling Strategies on Surface Quality and Power Consumption in Finishing End Milling of Stainless Steel 316. <i>Materials</i> , 2021, 14, 903.	2.9	16
3	Comparison of Mechanical and Microstructural Properties of as-Cast Al-Cu-Mg-Ag Alloys: Room Temperature vs. High Temperature. <i>Crystals</i> , 2021, 11, 1330.	2.2	6
4	Fundamental Investigation into Tool Wear and Surface Quality in High-Speed Machining of Ti6Al4V Alloy. <i>Materials</i> , 2021, 14, 7128.	2.9	10
5	An adaptive design for cost, quality and productivity-oriented sustainable machining of stainless steel 316. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14568-14581.	5.8	15
6	Comparative Evaluation of Surface Quality, Tool Wear, and Specific Cutting Energy for Wiper and Conventional Carbide Inserts in Hard Turning of AISI 4340 Alloy Steel. <i>Materials</i> , 2020, 13, 5233.	2.9	6
7	Towards an Adaptive Design of Quality, Productivity and Economic Aspects When Machining AISI 4340 Steel With Wiper Inserts. <i>IEEE Access</i> , 2020, 8, 159206-159219.	4.2	11
8	On the Assessment of Surface Quality and Productivity Aspects in Precision Hard Turning of AISI 4340 Steel Alloy: Relative Performance of Wiper vs. Conventional Inserts. <i>Materials</i> , 2020, 13, 2036.	2.9	16
9	Influence of Extrusion Temperature on the Corrosion Behavior in Sodium Chloride Solution of Solid State Recycled Aluminum Alloy 6061 Chips. <i>Crystals</i> , 2020, 10, 353.	2.2	1
10	Sustainable and Smart Manufacturing: An Integrated Approach. <i>Sustainability</i> , 2020, 12, 2280.	3.2	97
11	Multi-Response Optimization in High-Speed Machining of Ti-6Al-4V Using TOPSIS-Fuzzy Integrated Approach. <i>Materials</i> , 2020, 13, 1104.	2.9	26
12	Investigations of surface quality and energy consumption associated with costs and material removal rate during face milling of AISI 1045 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 3511-3525.	3.0	58
13	Optimization of cutting conditions using artificial neural networks and the Edgeworth-Pareto method for CNC face-milling operations on high-strength grade-H steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2151-2165.	3.0	46
14	Enhanced Corrosion Resistance of Recycled Aluminum Alloy 6061 Chips Using Hot Extrusion Followed by ECAP. <i>Journal of Chemistry</i> , 2019, 2019, 1-8.	1.9	3
15	Sustainability assessment associated with surface roughness and power consumption characteristics in nanofluid MQL-assisted turning of AISI 1045 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 1311-1327.	3.0	117
16	Towards Optimization of Machining Performance and Sustainability Aspects when Turning AISI 1045 Steel under Different Cooling and Lubrication Strategies. <i>Materials</i> , 2019, 12, 3023.	2.9	36
17	Effect of Feed Rate in FSW on the Mechanical and Microstructural Properties of AA5754 Joints. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-12.	1.8	36
18	Effect of tensile strain rate on high-temperature deformation and fracture of rolled Al-15%vol% B4C composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 749, 129-136.	5.6	21

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19	Towards Optimization of Surface Roughness and Productivity Aspects during High-Speed Machining of Ti-6Al-4V. <i>Materials</i> , 2019, 12, 3749.	2.9	22
20	Effect of equal-channel angular pressing on the surface roughness of commercial purity aluminum during turning operation. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 995-1006.	2.4	7
21	Taguchi Robust Design for Optimizing Surface Roughness of Turned AISI 1045 Steel Considering the Tool Nose Radius and Coolant as Noise Factors. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-9.	1.8	8
22	Prediction of Cutting Conditions in Turning AZ61 and Parameters Optimization Using Regression Analysis and Artificial Neural Network. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-10.	1.8	11
23	ANN Surface Roughness Optimization of AZ61 Magnesium Alloy Finish Turning: Minimum Machining Times at Prime Machining Costs. <i>Materials</i> , 2018, 11, 808.	2.9	55
24	Artificial Intelligence Monitoring of Hardening Methods and Cutting Conditions and Their Effects on Surface Roughness, Performance, and Finish Turning Costs of Solid-State Recycled Aluminum Alloy 6061 Chips. <i>Metals</i> , 2018, 8, 394.	2.3	45
25	Effect of extrusion temperature on the surface roughness of solid state recycled aluminum alloy 6061 chips during turning operation. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401773415.	1.6	10
26	Prediction Model of Cutting Parameters for Turning High Strength Steel Grade-H: Comparative Study of Regression Model versus ANFIS. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-12.	1.8	7
27	Optimizing Cutting Conditions and Prediction of Surface Roughness in Face Milling of AZ61 Using Regression Analysis and Artificial Neural Network. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-8.	1.8	13
28	Effect of Equal Channel Angular Pressing on the Surface Roughness of Solid State Recycled Aluminum Alloy 6061 Chips. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-11.	1.8	12
29	Optimizing Cutting Conditions for Minimum Surface Roughness in Face Milling of High Strength Steel Using Carbide Inserts. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-14.	1.8	14
30	Multiobjective Optimization of Turning Cutting Parameters for J-Steel Material. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-8.	1.8	12
31	An investigation of optimum cutting conditions in turning nodular cast iron using carbide inserts with different nose radius. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 1584-1591.	2.4	8
32	Corrosion and Corrosion Inhibition of High Strength Low Alloy Steel in 2.0% M Sulfuric Acid Solutions by 3-Amino-1,2,3-triazole as a Corrosion Inhibitor. <i>Journal of Chemistry</i> , 2014, 2014, 1-8.	1.9	24
33	Optimum drilling path planning for a rectangular matrix of holes using ant colony optimisation. <i>International Journal of Production Research</i> , 2011, 49, 5877-5891.	7.5	36