

# Faris Tarlochan

## List of Publications by Citations

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**Version:** 2024-04-26

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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.

98  
papers

2,048  
citations

25  
h-index

42  
g-index

100  
ext. papers

2,674  
ext. citations

3.8  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
98	Corrosion and surface modification on biocompatible metals: A review. <i>Materials Science and Engineering C</i> , <b>2017</b> , 77, 1261-1274	8.3	312
97	Design of thin wall structures for energy absorption applications: Enhancement of crashworthiness due to axial and oblique impact forces. <i>Thin-Walled Structures</i> , <b>2013</b> , 71, 7-17	4.7	160
96	Combustion synthesis of bifunctional LaMO <sub>3</sub> (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 809, 22-30	4.1	76
95	Advanced composite sandwich structure design for energy absorption applications: Blast protection and crashworthiness. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 2198-2208	10	64
94	Copper (II) oxide nanoparticles as additive in engine oil to increase the durability of piston-liner contact. <i>Fuel</i> , <b>2018</b> , 212, 656-667	7.1	58
93	Collapse behavior of thin-walled corrugated tapered tubes. <i>Engineering Structures</i> , <b>2017</b> , 150, 674-692	4.7	56
92	Composite sandwich structures with nested inserts for energy absorption application. <i>Composite Structures</i> , <b>2012</b> , 94, 904-916	5.3	52
91	Characterization of biogenic hydroxyapatite derived from animal bones for biomedical applications. <i>Ceramics International</i> , <b>2018</b> , 44, 10525-10530	5.1	50
90	Simulation and experimental study of underwater dissimilar friction-stir welding between aluminium and steel. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 3767-3781	5.5	46
89	Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23464-23473	6.7	41
88	Synthesis of Highly Efficient Bifunctional Ag/CoO Catalyst for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Medium. <i>ACS Omega</i> , <b>2018</b> , 3, 7745-7756	3.9	41
87	In situ DRIFTS Studies on Cu, Ni and CuNi catalysts for Ethanol Decomposition Reaction. <i>Catalysis Letters</i> , <b>2016</b> , 146, 778-787	2.8	40
86	Mechanical and physical behavior of newly developed functionally graded materials and composites of stainless steel 316L with calcium silicate and hydroxyapatite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2015</b> , 49, 321-31	4.1	38
85	Highly efficient nonenzymatic glucose sensors based on CuO nanoparticles. <i>Applied Surface Science</i> , <b>2019</b> , 481, 712-722	6.7	37
84	Cobalt oxide nanopowder synthesis using cellulose assisted combustion technique. <i>Ceramics International</i> , <b>2016</b> , 42, 12771-12777	5.1	37
83	The effect of lubrication in reducing net friction in warm powder compaction process. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 207, 118-124	5.3	36
82	Collapse behavior of thin-walled corrugated tapered tubes under oblique impact. <i>Thin-Walled Structures</i> , <b>2018</b> , 122, 510-528	4.7	35

81	Significance of alumina in nanofluid technology. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 1107-1126	4.1	34
80	Finite element modelling and characterization of 3D cellular microstructures for the design of a cementless biomimetic porous hip stem. <i>Materials and Design</i> , <b>2018</b> , 149, 101-112	8.1	34
79	Statistical and optimize of lattice structures with selective laser melting (SLM) of Ti6AL4V material. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 97, 495-510	3.2	33
78	Highly active and stable bi-functional NiCoO <sub>2</sub> catalyst for oxygen reduction and oxygen evolution reactions in alkaline medium. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 16603-16614	6.7	31
77	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. <i>Ceramics International</i> , <b>2018</b> , 44, 8922-8927	5.1	31
76	Design of new generation femoral prostheses using functionally graded materials: a finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2013</b> , 227, 3-17	1.7	31
75	Influence of fuel ratio on the performance of combustion synthesized bifunctional cobalt oxide catalysts for fuel cell application. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 436-445	6.7	27
74	Powder-based laser hybrid additive manufacturing of metals: a review. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 114, 63-96	3.2	26
73	Buckling and crushing behavior of foam-core hybrid composite sandwich columns under quasi-static edgewise compression. <i>Journal of Sandwich Structures and Materials</i> , <b>2019</b> , 109963621989466 <sup>21</sup>	4.6	23
72	Single Step Synthesis of Porous NiCoO <sub>2</sub> for Effective Electrooxidation of Glycerol in Alkaline Medium. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, J3301-J3309	3.9	23
71	Effect of composite intramedullary nails (IM) on healing of long bone fractures by means of reamed and unreamed methods. <i>Composite Structures</i> , <b>2017</b> , 167, 76-87	5.3	22
70	Experimental analysis of additively manufactured thin-walled heat-treated circular tubes with slits using AlSi10Mg alloy by quasi-static axial crushing test. <i>Thin-Walled Structures</i> , <b>2019</b> , 138, 404-414	4.7	22
69	Finite element study of functionally graded porous femoral stems incorporating body-centered cubic structure. <i>Artificial Organs</i> , <b>2019</b> , 43, E152-E164	2.6	22
68	From sustainability assessment to sustainability management for policy development: The case for electric vehicles. <i>Energy Conversion and Management</i> , <b>2020</b> , 216, 112937	10.6	21
67	Finite element analysis of circumferential crack behavior in cement-femoral prosthesis interface. <i>Materials &amp; Design</i> , <b>2013</b> , 49, 96-102		20
66	Thermophysical properties measurement of nano cellulose in ethylene glycol/water. <i>Applied Thermal Engineering</i> , <b>2017</b> , 123, 1158-1165	5.8	19
65	Deformation modes and crashworthiness energy absorption of sinusoidally corrugated tubes manufactured by direct metal laser sintering. <i>Engineering Structures</i> , <b>2019</b> , 201, 109838	4.7	19
64	Investigation on effective thermal conductivity and relative viscosity of cellulose nanocrystal as a nanofluidic thermal transport through a combined experimental & statistical approach by using Response Surface Methodology. <i>Applied Thermal Engineering</i> , <b>2017</b> , 122, 473-483	5.8	18

63	Influence of initial biomechanical environment provided by fibrous composite intramedullary nails on bone fracture healing. <i>Composite Structures</i> , <b>2017</b> , 175, 123-134	5.3	18
62	Probing the effect of combustion controlled surface alloying in silver and copper towards ORR and OER in alkaline medium. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 844, 66-77	4.1	18
61	Crushing analysis and multi-objective optimization of different length bi-thin walled cylindrical structures under axial impact loading. <i>Engineering Optimization</i> , <b>2019</b> , 51, 1884-1901	2	17
60	Finite element analysis on the static and fatigue characteristics of composite multi-leaf spring. <i>Journal of Zhejiang University: Science A</i> , <b>2012</b> , 13, 159-164	2.1	17
59	Sintering behaviour and properties of manganese-doped alumina. <i>Ceramics International</i> , <b>2019</b> , 45, 7049-7054	5.1	17
58	Effect of Ni incorporation in cobalt oxide lattice on carbon formation during ethanol decomposition reaction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 300-311	21.8	16
57	Surface Alloying in Silver-Cobalt through a Second Wave Solution Combustion Synthesis Technique. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	16
56	A novel design, analysis and 3D printing of Ti-6Al-4V alloy bio-inspired porous femoral stem. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2020</b> , 31, 78	4.5	16
55	Finite element analysis on longitudinal and radial functionally graded femoral prosthesis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2013</b> , 29, 1412-27	2.6	15
54	Finite Element Analysis of Porous Titanium Alloy Hip Stem to Evaluate the Biomechanical Performance During Walking and Stair Climbing. <i>Journal of Bionic Engineering</i> , <b>2019</b> , 16, 1103-1115	2.7	15
53	Sandwich Structures for Energy Absorption Applications: A Review. <i>Materials</i> , <b>2021</b> , 14,	3.5	15
52	Preparation of Nanoparticles via Cellulose-Assisted Combustion Synthesis. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , <b>2018</b> , 27, 141-153	0.7	14
51	Thalamic Visual Prosthesis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1573-80	5	13
50	Effect of geometrical parameters on the performance of longitudinal functionally graded femoral prostheses. <i>Artificial Organs</i> , <b>2015</b> , 39, 156-64	2.6	12
49	Influence of functionally graded pores on bone ingrowth in cementless hip prosthesis: a finite element study using mechano-regulatory algorithm. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2018</b> , 17, 701-716	3.8	12
48	Enhancing the electrocatalytic properties of LaMnO <sub>3</sub> by tuning surface oxygen deficiency through salt assisted combustion synthesis. <i>Catalysis Today</i> , <b>2021</b> , 375, 484-493	5.3	11
47	Two dimensional elastic deformations of functionally graded coated plates with clamped edges. <i>Composites Part B: Engineering</i> , <b>2013</b> , 45, 1010-1022	10	10
46	HEAT TRANSFER MODEL FOR PREDICTING SURVIVAL TIME IN COLD WATER IMMERSION. <i>Biomedical Engineering - Applications, Basis and Communications</i> , <b>2005</b> , 17, 159-166	0.6	10

45	Effect of copper-nickel interlayer thickness on laser welding-brazing of Mg/Ti alloy. <i>Optics and Laser Technology</i> , <b>2019</b> , 115, 149-159	4.2	8
44	Biomechanical design of a composite femoral prosthesis to investigate the effects of stiffness, coating length, and interference press fit. <i>Composite Structures</i> , <b>2018</b> , 204, 803-813	5.3	8
43	Influence of electrodeposited Cu-Ni layer on interfacial reaction and mechanical properties of laser welded-brazed Mg/Ti lap joints. <i>Journal of Manufacturing Processes</i> , <b>2019</b> , 37, 251-265	5	8
42	A comprehensive analysis of bio-inspired design of femoral stem on primary and secondary stabilities using mechanoregulatory algorithm. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2020</b> , 19, 2213-2226	3.8	7
41	Nature-Inspired Cellular Structure Design for Electric Vehicle Battery Compartment: Application to Crashworthiness. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4532	2.6	7
40	Magnetorheological damper with external excitation for more efficient control of vehicles dynamics. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 2919-2932	2.3	7
39	Parametric study of radial functionally graded femoral prostheses with different geometries. <i>Meccanica</i> , <b>2015</b> , 50, 1657-1678	2.1	7
38	Modeling of Surface Roughness in Turning Operation Using Extreme Learning Machine. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 595-602		7
37	Failure Investigation on Reheater Tube Due to Deposit and Wall Thinning. <i>Journal of Failure Analysis and Prevention</i> , <b>2009</b> , 9, 365-369	0.9	7
36	Composite sandwich structures for crashworthiness applications. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2007</b> , 221, 121-130	1.3	7
35	Residual Strength of Chop Strand Mats Glass Fiber/Epoxy Composite Structures: Effect of Temperature and Water Absorption. <i>International Journal of Automotive and Mechanical Engineering</i> , <b>2011</b> , 4, 504-519	1.4	7
34	Effect of microwave sintering on the properties of copper oxide doped Y-TZP ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, 19639-19645	5.1	6
33	Thermal rating monitoring of the TNB overhead transmission line using line ground clearance measurement and weather monitoring techniques <b>2010</b> ,		6
32	Study of Mild Steel Sandwich Structure Energy Absorption Performance Subjected to Localized Impulsive Loading. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
31	Numerical and Experimental Investigation on Corrugation Geometry for Metallic Tubes under Lateral Loading. <i>Materials Science Forum</i> , <b>2018</b> , 916, 226-231	0.4	4
30	Internal-external circumferential crack behaviour in the cement layer of total hip replacement. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2013</b> , 36, 586-601	3	4
29	Comparison of various functionally graded femoral prostheses by finite element analysis. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 807621	2.2	4
28	Numerical Simulation and Experimentation of Warm Metal Powder Compaction Process. <i>Key Engineering Materials</i> , <b>2011</b> , 462-463, 704-709	0.4	4

27	Energy absorption capabilities of complex thin walled structures. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 257, 012027	0.4	3
26	Engineering students' attitude towards engineering ethics education <b>2015</b> ,		3
25	Design of Titanium Alloy Femoral Stem Cellular Structure for Stress Shielding and Stem Stability: Computational Analysis. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1548	2.6	3
24	Understanding Traffic Accidents among Young Drivers in Qatar.. <i>International Journal of Environmental Research and Public Health</i> , <b>2022</b> , 19,	4.6	3
23	Travelers' preferences regarding autonomous mobility in the State of Qatar. <i>Personal and Ubiquitous Computing</i> , <b>2021</b> , 25, 141-149	2.1	3
22	Additive Manufacturing Technology for Spare Parts Application: A Systematic Review on Supply Chain Management. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4160	2.6	3
21	Analyzing The Behavior of Classical Functionally Graded Coated Beam. <i>MATEC Web of Conferences</i> , <b>2017</b> , 131, 03009	0.3	2
20	Numerical simulation of a novel expanded metal tubular structure for crashworthiness application. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 100, 012063	0.4	2
19	Sustainability design: Reduction of vehicle mass without compromising crashworthiness <b>2009</b> ,		2
18	Mechanical and Fatigue Behavior of Cellular Structure Ti-6Al-4V Alloy Femoral Stems: A Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4197	2.6	2
17	Functionally graded porous femoral stem: Computational Analysis <b>2019</b> ,		1
16	Mechanical and Thermal Analysis of Classical Functionally Graded Coated Beam. <i>E3S Web of Conferences</i> , <b>2018</b> , 34, 01033	0.5	1
15	Fatigue Design Space for Porous Titanium Alloy Femoral Stems: Computational Approach. <i>MATEC Web of Conferences</i> , <b>2019</b> , 291, 02003	0.3	1
14	A Need for Functionally Graded Stiffness Femoral Stem for Reduction in Stress Shielding and Promoting Bone Growth: Computational Analysis <b>2017</b> ,		1
13	New vehicle bumper design for pedestrian protection during Impact. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 88, 012020	0.4	1
12	Role of physical and mechanical properties of stainless steels in expected thermal fatigue life of plenum barrier plate of a gas turbine frame. <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 2336-2342	3.2	1
11	Evaluation on an Internal Surface Crack in a Compound Tube. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2009</b> , 131,	1.2	1
10	Optimization of Anode Usage in Electroplating Process by Using Response Surface Methodology. <i>Advanced Materials Research</i> , <b>2012</b> , 576, 129-132	0.5	1

9	Practicality of 3D Printed Personalized Medicines in Therapeutics. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 646836	5.6	1
8	Colloidal metal oxide nanocrystals in catalysis <b>2020</b> , 247-288		1
7	Comparison between Variable and Constant Refrigerant Flow Air Conditioning Systems in Arid Climate: Life Cycle Cost Analysis and Energy Savings. <i>Sustainability</i> , <b>2021</b> , 13, 10374	3.6	1
6	A Framework for Developing Innovative Problem-Solving and Creativity Skills for Engineering Undergraduates <b>2016</b> , 161-186		0
5	An Experimental Validation of Numerical Model for Top-Hat Tubular Structure Subjected to Axial Crush. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4792	2.6	0
4	Design Optimization of Bi-Tubular Thin Walled Columns for Crashworthiness Application. <i>Key Engineering Materials</i> , <b>2011</b> , 462-463, 1218-1223	0.4	
3	A Parametric Analysis of the Strength-Porosity Relationship of Green Compacts Formed through Powder Compaction Route. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 83, 1-6	0.3	
2	Influence of tire blowout on the collision of a light pickup truck with a guardrail safety barrier. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2020</b> , 234, 1714-1724	1.4	
1	Review on Finite Element Material Modelling Of Brain Tissue for Surgical Simulation. <i>MATEC Web of Conferences</i> , <b>2016</b> , 74, 00018	0.3	