

Faris Tarlochan

List of Publications by Year in descending order

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99
papers

3,264
citations

147726

31
h-index

168321

53
g-index

100
all docs

100
docs citations

100
times ranked

3211
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion and surface modification on biocompatible metals: A review. <i>Materials Science and Engineering C</i> , 2017, 77, 1261-1274.	3.8	482
2	Design of thin wall structures for energy absorption applications: Enhancement of crashworthiness due to axial and oblique impact forces. <i>Thin-Walled Structures</i> , 2013, 71, 7-17.	2.7	223
3	Combustion synthesis of bifunctional LaMO ₃ (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , 2018, 809, 22-30.	1.9	120
4	Characterization of biogenic hydroxyapatite derived from animal bones for biomedical applications. <i>Ceramics International</i> , 2018, 44, 10525-10530.	2.3	95
5	Simulation and experimental study of underwater dissimilar friction-stir welding between aluminium and steel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3767-3781.	2.6	90
6	Advanced composite sandwich structure design for energy absorption applications: Blast protection and crashworthiness. <i>Composites Part B: Engineering</i> , 2012, 43, 2198-2208.	5.9	85
7	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. <i>Ceramics International</i> , 2018, 44, 8922-8927.	2.3	79
8	Sandwich Structures for Energy Absorption Applications: A Review. <i>Materials</i> , 2021, 14, 4731.	1.3	77
9	Collapse behavior of thin-walled corrugated tapered tubes. <i>Engineering Structures</i> , 2017, 150, 674-692.	2.6	74
10	Copper (II) oxide nanoparticles as additive in engine oil to increase the durability of piston-liner contact. <i>Fuel</i> , 2018, 212, 656-667.	3.4	74
11	Powder-based laser hybrid additive manufacturing of metals: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 63-96.	1.5	70
12	Highly efficient nonenzymatic glucose sensors based on CuO nanoparticles. <i>Applied Surface Science</i> , 2019, 481, 712-722.	3.1	65
13	Composite sandwich structures with nested inserts for energy absorption application. <i>Composite Structures</i> , 2012, 94, 904-916.	3.1	63
14	Collapse behavior of thin-walled corrugated tapered tubes under oblique impact. <i>Thin-Walled Structures</i> , 2018, 122, 510-528.	2.7	58
15	Finite element modelling and characterization of 3D cellular microstructures for the design of a cementless biomimetic porous hip stem. <i>Materials and Design</i> , 2018, 149, 101-112.	3.3	56
16	Significance of alumina in nanofluid technology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1107-1126.	2.0	55
17	In situ DRIFTS Studies on Cu, Ni and CuNi catalysts for Ethanol Decomposition Reaction. <i>Catalysis Letters</i> , 2016, 146, 778-787.	1.4	54
18	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> , 2015, 49, 321-331.	1.5	53

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19	Synthesis of Highly Efficient Bifunctional Ag/Co ₃ O ₄ Catalyst for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Medium. ACS Omega, 2018, 3, 7745-7756.	1.6	53
20	Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. International Journal of Hydrogen Energy, 2017, 42, 23464-23473.	3.8	49
21	A novel design, analysis and 3D printing of Ti-6Al-4V alloy bio-inspired porous femoral stem. Journal of Materials Science: Materials in Medicine, 2020, 31, 78.	1.7	48
22	The effect of lubrication in reducing net friction in warm powder compaction process. Journal of Materials Processing Technology, 2008, 207, 118-124.	3.1	47
23	Statistical and optimize of lattice structures with selective laser melting (SLM) of Ti6AL4V material. International Journal of Advanced Manufacturing Technology, 2018, 97, 495-510.	1.5	47
24	Highly active and stable bi-functional NiCoO ₂ catalyst for oxygen reduction and oxygen evolution reactions in alkaline medium. International Journal of Hydrogen Energy, 2019, 44, 16603-16614.	3.8	45
25	Design of new generation femoral prostheses using functionally graded materials: A finite element analysis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 3-17.	1.0	44
26	Cobalt oxide nanopowder synthesis using cellulose assisted combustion technique. Ceramics International, 2016, 42, 12771-12777.	2.3	43
27	Deformation modes and crashworthiness energy absorption of sinusoidally corrugated tubes manufactured by direct metal laser sintering. Engineering Structures, 2019, 201, 109838.	2.6	39
28	Sintering behaviour and properties of manganese-doped alumina. Ceramics International, 2019, 45, 7049-7054.	2.3	39
29	Finite element study of functionally graded porous femoral stems incorporating body-centered cubic structure. Artificial Organs, 2019, 43, E152-E164.	1.0	38
30	Single Step Synthesis of Porous NiCoO ₂ for Effective Electrooxidation of Glycerol in Alkaline Medium. Journal of the Electrochemical Society, 2018, 165, J3301-J3309.	1.3	36
31	Buckling and crushing behavior of foam-core hybrid composite sandwich columns under quasi-static edgewise compression. Journal of Sandwich Structures and Materials, 2021, 23, 2643-2670.	2.0	35
32	From sustainability assessment to sustainability management for policy development: The case for electric vehicles. Energy Conversion and Management, 2020, 216, 112937.	4.4	33
33	Influence of fuel ratio on the performance of combustion synthesized bifunctional cobalt oxide catalysts for fuel cell application. International Journal of Hydrogen Energy, 2019, 44, 436-445.	3.8	32
34	Residual Strength of Chop Strand Mats Glass Fiber/Epoxy Composite Structures: Effect of Temperature and Water Absorption. International Journal of Automotive and Mechanical Engineering, 2011, 4, 504-519.	0.5	32
35	Experimental analysis of additively manufactured thin-walled heat-treated circular tubes with slits using AlSi10Mg alloy by quasi-static axial crushing test. Thin-Walled Structures, 2019, 138, 404-414.	2.7	31
36	Effect of Ni incorporation in cobalt oxide lattice on carbon formation during ethanol decomposition reaction. Applied Catalysis B: Environmental, 2019, 254, 300-311.	10.8	30

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37	Finite element analysis on the static and fatigue characteristics of composite multi-leaf spring. Journal of Zhejiang University: Science A, 2012, 13, 159-164.	1.3	28
38	Effect of composite intramedullary nails (IM) on healing of long bone fractures by means of reamed and unreamed methods. Composite Structures, 2017, 167, 76-87.	3.1	28
39	Thermophysical properties measurement of nano cellulose in ethylene glycol/water. Applied Thermal Engineering, 2017, 123, 1158-1165.	3.0	28
40	Finite Element Analysis of Porous Titanium Alloy Hip Stem to Evaluate the Biomechanical Performance During Walking and Stair Climbing. Journal of Bionic Engineering, 2019, 16, 1103-1115.	2.7	26
41	Probing the effect of combustion controlled surface alloying in silver and copper towards ORR and OER in alkaline medium. Journal of Electroanalytical Chemistry, 2019, 844, 66-77.	1.9	25
42	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. Applied Thermal Engineering, 2017, 122, 473-483.	3.0	24
43	Influence of initial biomechanical environment provided by fibrous composite intramedullary nails on bone fracture healing. Composite Structures, 2017, 175, 123-134.	3.1	24
44	Finite element analysis of circumferential crack behavior in cement-femoral prosthesis interface. Materials & Design, 2013, 49, 96-102.	5.1	23
45	Thalamic Visual Prosthesis. IEEE Transactions on Biomedical Engineering, 2016, 63, 1573-1580.	2.5	23
46	Surface Alloying in Silver-Cobalt through a Second Wave Solution Combustion Synthesis Technique. Nanomaterials, 2018, 8, 604.	1.9	22
47	Finite element analysis on longitudinal and radial functionally graded femoral prosthesis. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 1412-1427.	1.0	21
48	Crushing analysis and multi-objective optimization of different length bi-thin walled cylindrical structures under axial impact loading. Engineering Optimization, 2019, 51, 1884-1901.	1.5	19
49	Enhancing the electrocatalytic properties of LaMnO ₃ by tuning surface oxygen deficiency through salt assisted combustion synthesis. Catalysis Today, 2021, 375, 484-493.	2.2	19
50	Practicality of 3D Printed Personalized Medicines in Therapeutics. Frontiers in Pharmacology, 2021, 12, 646836.	1.6	18
51	Effect of Geometrical Parameters on the Performance of Longitudinal Functionally Graded Femoral Prostheses. Artificial Organs, 2015, 39, 156-164.	1.0	17
52	Influence of electrodeposited Cu-Ni layer on interfacial reaction and mechanical properties of laser welded-brazed Mg/Ti lap joints. Journal of Manufacturing Processes, 2019, 37, 251-265.	2.8	17
53	A comprehensive analysis of bio-inspired design of femoral stem on primary and secondary stabilities using mechanoregulatory algorithm. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2213-2226.	1.4	17
54	Influence of functionally graded pores on bone ingrowth in cementless hip prosthesis: a finite element study using mechano-regulatory algorithm. Biomechanics and Modeling in Mechanobiology, 2018, 17, 701-716.	1.4	16

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55	Preparation of Nanoparticles via Cellulose-Assisted Combustion Synthesis. International Journal of Self-Propagating High-Temperature Synthesis, 2018, 27, 141-153.	0.2	16
56	Effect of microwave sintering on the properties of copper oxide doped Y-TZP ceramics. Ceramics International, 2018, 44, 19639-19645.	2.3	16
57	Design of Titanium Alloy Femoral Stem Cellular Structure for Stress Shielding and Stem Stability: Computational Analysis. Applied Sciences (Switzerland), 2022, 12, 1548.	1.3	16
58	Composite sandwich structures for crashworthiness applications. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2007, 221, 121-130.	0.7	15
59	Magnetorheological damper with external excitation for more efficient control of vehiclesâ€™ dynamics. Journal of Intelligent Material Systems and Structures, 2018, 29, 2919-2932.	1.4	15
60	Effect of copper-nickel interlayer thickness on laser welding-brazing of Mg/Ti alloy. Optics and Laser Technology, 2019, 115, 149-159.	2.2	15
61	HEAT TRANSFER MODEL FOR PREDICTING SURVIVAL TIME IN COLD WATER IMMERSION. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 159-166.	0.3	13
62	Nature-Inspired Cellular Structure Design for Electric Vehicle Battery Compartment: Application to Crashworthiness. Applied Sciences (Switzerland), 2020, 10, 4532.	1.3	13
63	Modeling of Surface Roughness in Turning Operation Using Extreme Learning Machine. Arabian Journal for Science and Engineering, 2015, 40, 595-602.	1.1	12
64	Additive Manufacturing Technology for Spare Parts Application: A Systematic Review on Supply Chain Management. Applied Sciences (Switzerland), 2022, 12, 4160.	1.3	12
65	Two dimensional elastic deformations of functionally graded coated plates with clamped edges. Composites Part B: Engineering, 2013, 45, 1010-1022.	5.9	10
66	Biomechanical design of a composite femoral prosthesis to investigate the effects of stiffness, coating length, and interference press fit. Composite Structures, 2018, 204, 803-813.	3.1	10
67	Failure Investigation on Reheater Tube Due to Deposit and Wall Thinning. Journal of Failure Analysis and Prevention, 2009, 9, 365-369.	0.5	9
68	Thermal rating monitoring of the TNB overhead transmission line using line ground clearance measurement and weather monitoring techniques. , 2010, , .		8
69	Parametric study of radial functionally graded femoral prostheses with different geometries. Meccanica, 2015, 50, 1657-1678.	1.2	8
70	Understanding Traffic Accidents among Young Drivers in Qatar. International Journal of Environmental Research and Public Health, 2022, 19, 514.	1.2	8
71	Comparison of Various Functionally Graded Femoral Prostheses by Finite Element Analysis. Scientific World Journal, The, 2014, 2014, 1-17.	0.8	7
72	Study of Mild Steel Sandwich Structure Energy Absorption Performance Subjected to Localized Impulsive Loading. Materials, 2020, 13, 670.	1.3	7

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73	Numerical Simulation and Experimentation of Warm Metal Powder Compaction Process. Key Engineering Materials, 2011, 462-463, 704-709.	0.4	6
74	Engineering students' attitude towards engineering ethics education. , 2015, , .		5
75	Energy absorption capabilities of complex thin walled structures. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012027.	0.3	5
76	Travelersâ€™ preferences regarding autonomous mobility in the State of Qatar. Personal and Ubiquitous Computing, 2021, 25, 141-149.	1.9	5
77	Mechanical and Fatigue Behavior of Cellular Structure Ti-6Al-4V Alloy Femoral Stems: A Finite Element Analysis. Applied Sciences (Switzerland), 2022, 12, 4197.	1.3	5
78	Internalâ€™external circumferential crack behaviour in the cement layer of total hip replacement. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 586-601.	1.7	4
79	Numerical and Experimental Investigation on Corrugation Geometry for Metallic Tubes under Lateral Loading. Materials Science Forum, 2018, 916, 226-231.	0.3	4
80	Composite Hat Structure Design for Vehicle Safety: Potential Application to B-Pillar and Door Intrusion Beam. Materials, 2022, 15, 1084.	1.3	4
81	Sustainability design: Reduction of vehicle mass without compromising crashworthiness. , 2009, , .		3
82	Analyzing The Behavior of Classical Functionally Graded Coated Beam. MATEC Web of Conferences, 2017, 131, 03009.	0.1	3
83	Colloidal metal oxide nanocrystals in catalysis. , 2020, , 247-288.		3
84	Influence of tire blowout on the collision of a light pickup truck with a guardrail safety barrier. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 1714-1724.	1.1	3
85	Numerical simulation of a novel expanded metal tubular structure for crashworthiness application. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012063.	0.3	2
86	Mechanical and Thermal Analysis of Classical Functionally Graded Coated Beam. E3S Web of Conferences, 2018, 34, 01033.	0.2	2
87	Evaluation on an Internal Surface Crack in a Compound Tube. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.4	1
88	Role of physical and mechanical properties of stainless steels in expected thermal fatigue life of plenum barrier plate of a gas turbine frame. Engineering Failure Analysis, 2011, 18, 2336-2342.	1.8	1
89	A Parametric Analysis of the Strength-Porosity Relationship of Green Compacts Formed through Powder Compaction Route. Applied Mechanics and Materials, 0, 83, 1-6.	0.2	1
90	Optimization of Anode Usage in Electroplating Process by Using Response Surface Methodology. Advanced Materials Research, 0, 576, 129-132.	0.3	1

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91	New vehicle bumper design for pedestrian protection during Impact. IOP Conference Series: Materials Science and Engineering, 2015, 88, 012020.	0.3	1
92	A Need for Functionally Graded Stiffness Femoral Stem for Reduction in Stress Shielding and Promoting Bone Growth: Computational Analysis. , 2017, , .		1
93	Fatigue Design Space for Porous Titanium Alloy Femoral Stems: Computational Approach. MATEC Web of Conferences, 2019, 291, 02003.	0.1	1
94	Functionally graded porous femoral stem: Computational Analysis. , 2019, , .		1
95	An Experimental Validation of Numerical Model for Top-Hat Tubular Structure Subjected to Axial Crush. Applied Sciences (Switzerland), 2021, 11, 4792.	1.3	1
96	Comparison between Variable and Constant Refrigerant Flow Air Conditioning Systems in Arid Climate: Life Cycle Cost Analysis and Energy Savings. Sustainability, 2021, 13, 10374.	1.6	1
97	Design Optimization of Bi-Tubular Thin Walled Columns for Crashworthiness Application. Key Engineering Materials, 0, 462-463, 1218-1223.	0.4	0
98	Review on Finite Element Material Modelling Of Brain Tissue for Surgical Simulation. MATEC Web of Conferences, 2016, 74, 00018.	0.1	0
99	Simulation method for redesign of cars hood structure to achieve the requirements of pedestrian protection during accidents. AIP Conference Proceedings, 2020, , .	0.3	0