

# Glenn Cassar

## List of Publications by Year in descending order

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24  
papers

518  
citations

623188

14  
h-index

642321

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

687  
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of the reciprocating-sliding wear performance of plasma surface treated titanium alloy. <i>Wear</i> , 2010, 269, 60-70.	1.5	69
2	Influence of cross-rolling on the micro-texture and biodegradation of pure iron as biodegradable material for medical implants. <i>Acta Biomaterialia</i> , 2015, 17, 68-77.	4.1	57
3	Tribological properties of duplex plasma oxidised, nitrided and PVD coated Ti-6Al-4V. <i>Surface and Coatings Technology</i> , 2011, 206, 395-404.	2.2	38
4	Evaluating the effects of plasma diffusion processing and duplex diffusion/PVD-coating on the fatigue performance of Ti-6Al-4V alloy. <i>International Journal of Fatigue</i> , 2011, 33, 1313-1323.	2.8	38
5	Effect of Build Orientation of Electron Beam Melting on Microstructure and Mechanical Properties of Ti-6Al-4V. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 692-703.	1.2	36
6	Impact wear resistance of plasma diffusion treated and duplex treated/PVD-coated Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2012, 206, 2645-2654.	2.2	33
7	Mechanical properties of pristine and nanoporous graphene. <i>Molecular Simulation</i> , 2016, 42, 1502-1511.	0.9	32
8	Evaluating the effects of PIRAC nitrogen-diffusion treatments on the mechanical performance of Ti-6Al-4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 619, 300-311.	2.6	24
9	Surface modification of Ti-6Al-4V alloys using triode plasma oxidation treatments. <i>Surface and Coatings Technology</i> , 2012, 206, 4553-4561.	2.2	23
10	Improving the surface characteristics of Ti-6Al-4V and Timetal 834 using PIRAC nitriding treatments. <i>Surface and Coatings Technology</i> , 2018, 339, 208-223.	2.2	23
11	Triode plasma diffusion treatment of titanium alloys. <i>Surface and Coatings Technology</i> , 2012, 212, 20-31.	2.2	20
12	Effect of sterilization techniques prior to antimicrobial testing on physical properties of dental restorative materials. <i>Journal of Dentistry</i> , 2015, 43, 703-714.	1.7	18
13	An investigation into the effect of Triode Plasma Oxidation (TPO) on the tribological properties of Ti6Al4V. <i>Surface and Coatings Technology</i> , 2011, 206, 1955-1962.	2.2	17
14	Effect of polishing procedures and hydrothermal aging on wear characteristics and phase transformation of zirconium dioxide. <i>Journal of Prosthetic Dentistry</i> , 2017, 117, 545-551.	1.1	17
15	Enhanced surface performance of Ti-6Al-4V alloy using a novel duplex process combining PVD-Al coating and triode plasma oxidation. <i>Surface and Coatings Technology</i> , 2014, 257, 154-164.	2.2	15
16	Corrosion behaviour of triode plasma diffusion treated and PVD TiN-coated Ti-6Al-4V in acidified aqueous chloride environments. <i>Surface and Coatings Technology</i> , 2015, 280, 185-193.	2.2	15
17	Influence of cold rolling on in vitro cytotoxicity and electrochemical behaviour of an Fe-Mn-C biodegradable alloy in physiological solutions. <i>Heliyon</i> , 2018, 4, e00926.	1.4	9
18	Raman spectroscopy of gallium ion irradiated graphene. <i>Diamond and Related Materials</i> , 2018, 89, 163-173.	1.8	8

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19	Surface Microstructural Changes and Release of Ions from Dental Metal Alloy Removable Protheses in Patients Suffering from Acid Reflux. Journal of Prosthodontics, 2018, 27, 115-119.	1.7	7
20	Investigations on the adhesion and fatigue characteristics of hybrid surface-treated titanium alloy. Surface and Coatings Technology, 2022, 431, 128002.	2.2	6
21	Modeling and Analysis of Variable Parameters for Compound Hole Expansion of Fit Bushing. Journal of Materials Engineering and Performance, 2021, 30, 8210-8223.	1.2	5
22	Enhancing surface integrity of titanium alloy through hybrid surface modification (HSM) treatments. Materials Chemistry and Physics, 2022, 279, 125768.	2.0	4
23	THE PERSPECTIVES OF CLINICIANS ON ENRICHING PATIENT EXPERIENCES IN A CLINICAL CONTEXT: A QUALITATIVE STUDY. Proceedings of the Design Society, 2021, 1, 3061-3070.	0.5	2
24	TOWARDS A VERIFICATION AND VALIDATING TESTING FRAMEWORK TO DEVELOP BESPOKE MEDICAL PRODUCTS IN RESEARCH-FUNDED PROJECTS. Proceedings of the Design Society, 2021, 1, 3199-3208.	0.5	2