

Filipe Silva

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266
papers

4,334
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288
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5,536
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
266	Nano-scale modification of titanium implant surfaces to enhance osseointegration. <i>Acta Biomaterialia</i> , 2019 , 94, 112-131	10.8	156
265	316L stainless steel mechanical and tribological behavior: A comparison between selective laser melting, hot pressing and conventional casting. <i>Additive Manufacturing</i> , 2017 , 16, 81-89	6.1	150
264	Additive manufacturing of Ti6Al4V parts through laser metal deposition (LMD): Process, microstructure, and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 163-191	5.7	118
263	Dry sliding and tribocorrosion behaviour of hot pressed CoCrMo biomedical alloy as compared with the cast CoCrMo and Ti6Al4V alloys. <i>Materials & Design</i> , 2013 , 52, 47-57		107
262	Fatigue on engine pistons: A compendium of case studies. <i>Engineering Failure Analysis</i> , 2006 , 13, 480-492	3.2	97
261	Predictive models for physical and mechanical properties of 316L stainless steel produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 43-56	5.3	95
260	Zirconia surface modifications for implant dentistry. <i>Materials Science and Engineering C</i> , 2019 , 98, 1294-1305	3.05	93
259	Advantages of the centrifugal casting technique for the production of structural components with AlSi alloys. <i>Materials & Design</i> , 2008 , 29, 20-27		89
258	Predictive models for physical and mechanical properties of Ti6Al4V produced by Selective Laser Melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 663, 181-192	5.3	75
257	Wear behavior of Ti6Al4V biomedical alloys processed by selective laser melting, hot pressing and conventional casting. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 829-838	3.3	67
256	Influence of vibration on the solidification behaviour and tensile properties of an Al18wt%Si alloy. <i>Materials & Design</i> , 2009 , 30, 1575-1580		60
255	The importance of compressive stresses on fatigue crack propagation rate. <i>International Journal of Fatigue</i> , 2005 , 27, 1441-1452	5	55
254	Microstructure, hardness, corrosion resistance and porcelain shear bond strength comparison between cast and hot pressed CoCrMo alloy for metal-ceramic dental restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 12, 83-92	4.1	53
253	Tribocorrosion behavior of veneering biomedical PEEK to Ti6Al4V structures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 54, 123-30	4.1	52
252	The Potential Use of Oyster Shell Waste in New Value-Added By-Product. <i>Resources</i> , 2019 , 8, 13	3.7	52
251	Crack closure inadequacy at negative stress ratios. <i>International Journal of Fatigue</i> , 2004 , 26, 241-252	5	50
250	Shear bond strength comparison between conventional porcelain fused to metal and new functionally graded dental restorations after thermal-mechanical cycling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 13, 194-205	4.1	46

249	Recycling of aluminium swarf by direct incorporation in aluminium melts. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 5195-5203	5.3	46
248	Effect of laser surface texturing on primary stability and surface properties of zirconia implants. <i>Ceramics International</i> , 2017 , 43, 15227-15236	5.1	45
247	Fatigue crack propagation after overloading and underloading at negative stress ratios. <i>International Journal of Fatigue</i> , 2007 , 29, 1757-1771	5	45
246	Corrosion and tribocorrosion behaviour of Ti6Al4V produced by selective laser melting and hot pressing in comparison with the commercial alloy. <i>Journal of Materials Processing Technology</i> , 2019 , 266, 239-245	5.3	45
245	Tribocorrosion behavior of additive manufactured Ti-6Al-4V biomedical alloy. <i>Tribology International</i> , 2018 , 119, 381-388	4.9	44
244	Tribological behavior of Ti6Al4V cellular structures produced by Selective Laser Melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 69, 128-134	4.1	42
243	Dry sliding wear behaviour of AlSiCNTs/BiCp hybrid composites. <i>Tribology International</i> , 2015 , 90, 148-156	4.9	42
242	Fractography analysis and fatigue of thermoplastic composite laminates at different environmental conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 505-513	5.3	42
241	A new method for prediction of nodular cast iron fatigue limit. <i>International Journal of Fatigue</i> , 2010 , 32, 988-995	5	41
240	Design of Ti6Al4V-HA composites produced by hot pressing for biomedical applications. <i>Materials and Design</i> , 2016 , 108, 488-493	8.1	41
239	Scaffolds and coatings for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 27	4.5	40
238	Abrasive and sliding wear of resin composites for dental restorations. <i>Tribology International</i> , 2016 , 102, 154-160	4.9	40
237	Optimization of AlSiCNTs functionally graded material composites for engine piston rings. <i>Materials & Design</i> , 2015 , 80, 163-173		40
236	Compressive properties and energy absorption of aluminum foams with modified cellular geometry. <i>Journal of Materials Processing Technology</i> , 2014 , 214, 571-577	5.3	39
235	Tribocorrosion behavior of hot pressed CoCrMo alloys in artificial saliva. <i>Tribology International</i> , 2016 , 97, 423-430	4.9	37
234	Study of the tribocorrosion behaviour of Ti6Al4V IHA biocomposites. <i>Tribology International</i> , 2017 , 107, 77-84	4.9	37
233	Analysis of a vehicle crankshaft failure. <i>Engineering Failure Analysis</i> , 2003 , 10, 605-616	3.2	36
232	Low velocity impact response of fabric reinforced hybrid composites with stratified filled epoxy matrix. <i>Composites Science and Technology</i> , 2019 , 169, 242-248	8.6	35

231	Hybrid composites [Metallic and ceramic reinforcements influence on mechanical and wear behavior. <i>Composites Part B: Engineering</i> , 2015 , 74, 153-165	10	34
230	Comparison between PEEK and Ti6Al4V concerning micro-scale abrasion wear on dental applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 60, 212-219	4.1	33
229	Hot pressing effect on the shear bond strength of dental porcelain to CoCrMoSi alloy substrates with different surface treatments. <i>Materials Science and Engineering C</i> , 2013 , 33, 557-63	8.3	30
228	Optimization of bond strength between gold alloy and porcelain through a composite interlayer obtained by powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1415-1420	5.3	30
227	Implant surface design for improved implant stability [A study on Ti6Al4V dense and cellular structures produced by Selective Laser Melting. <i>Tribology International</i> , 2019 , 129, 272-282	4.9	29
226	Laser surface structuring of Ti6Al4V substrates for adhesion enhancement in Ti6Al4V-PEEK joints. <i>Materials Science and Engineering C</i> , 2017 , 79, 177-184	8.3	28
225	Shear bond strength of a hot pressed Au-Pd-Pt alloy-porcelain dental composite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 1718-26	4.1	28
224	Additive manufactured porous biomaterials targeting orthopedic implants: A suitable combination of mechanical, physical and topological properties. <i>Materials Science and Engineering C</i> , 2020 , 107, 110342	8.3	28
223	The bending stress distribution in bilayered and graded zirconia-based dental ceramics. <i>Ceramics International</i> , 2016 , 42, 11025-11031	5.1	28
222	Experimental evaluation of the bond strength between a CoCrMo dental alloy and porcelain through a composite metal-ceramic graded transition interlayer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 13, 206-14	4.1	26
221	A study on the production of thin-walled Ti6Al4V parts by selective laser melting. <i>Journal of Manufacturing Processes</i> , 2019 , 39, 346-355	5	25
220	Evaluation of CNT Dispersion Methodology Effect on Mechanical Properties of an AlSi Composite. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 2535-2545	1.6	25
219	The effect of surface treatment on the friction and wear behavior of dental Y-TZP ceramic against human enamel. <i>Tribology International</i> , 2017 , 116, 192-198	4.9	25
218	Interface analysis and wear behavior of Ni particulate reinforced aluminum-silicon composites produced by PM. <i>Composites Part B: Engineering</i> , 2015 , 69, 101-110	10	24
217	Microstructure, Mechanical and Wear Behaviors of Hot-Pressed Copper-Nickel-Based Materials for Diamond Cutting Tools. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 4046-4055	1.6	24
216	Effects of laser fluence and liquid media on preparation of small Ag nanoparticles by laser ablation in liquid. <i>Optics and Laser Technology</i> , 2017 , 97, 20-28	4.2	24
215	Novel laser surface texturing for improved primary stability of titanium implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 98, 26-39	4.1	23
214	Ti6Al4V cellular structures impregnated with biomedical PEEK - New material design for improved tribological behavior. <i>Tribology International</i> , 2018 , 119, 157-164	4.9	23

213	Damping capacity and dynamic modulus of hot pressed AlSi composites reinforced with different SiC particle sized. <i>Composites Part B: Engineering</i> , 2016 , 90, 399-405	10	23
212	The effect of SiCp size on high temperature damping capacity and dynamic Young's modulus of hot-pressed AlSiBiCp MMCs. <i>Materials and Design</i> , 2016 , 93, 409-417	8.1	23
211	Influence of preoxidation cycle on the bond strength of CoCrMoSi porcelain dental composites. <i>Materials Science and Engineering C</i> , 2012 , 32, 2374-2380	8.3	23
210	On assessment of processing variables in vertical centrifugal casting technique. <i>International Journal of Cast Metals Research</i> , 2009 , 22, 382-389	1	22
209	Fatigue life predictions including the Bauschinger effect. <i>International Journal of Fatigue</i> , 2011 , 33, 145-152		22
208	Multi-material Ti6Al4V & PEEK cellular structures produced by Selective Laser Melting and Hot Pressing: A tribocorrosion study targeting orthopedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 89, 54-64	4.1	22
207	Effect of ultrasonic degassing on performance of Al-based components. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3459-3464	3.3	21
206	Tribological behavior of zirconia-reinforced glass ceramic composites in artificial saliva. <i>Tribology International</i> , 2016 , 103, 379-387	4.9	21
205	Predicting the output dimensions, porosity and elastic modulus of additive manufactured biomaterial structures targeting orthopedic implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 99, 104-117	4.1	20
204	Tribological solutions for engine piston ring surfaces: an overview on the materials and manufacturing. <i>Materials and Manufacturing Processes</i> , 2020 , 35, 498-520	4.1	20
203	Surface design using laser technology for Ti6Al4V-hydroxyapatite implants. <i>Optics and Laser Technology</i> , 2019 , 109, 488-495	4.2	20
202	Evaluation of in vitro properties of 3D micro-macro porous zirconia scaffolds coated with 58S bioactive glass using MG-63 osteoblast-like cells. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2545-2558 ⁶		19
201	Mechanical properties of hot pressed CoCrMo alloy compacts for biomedical applications. <i>Materials and Design</i> , 2015 , 83, 829-834	8.1	19
200	Mechanical and thermal properties of hot pressed CoCrMo-porcelain composites developed for prosthetic dentistry. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 30, 103-110	4.1	19
199	Development of TCP-Ti6Al4V structures: Driving cellular response by modulating physical and chemical properties. <i>Materials Science and Engineering C</i> , 2019 , 98, 705-716	8.3	19
198	New perspectives for recycling dental zirconia waste resulting from CAD/CAM manufacturing process. <i>Journal of Cleaner Production</i> , 2017 , 152, 454-463	10.3	18
197	Finite element analysis of the residual thermal stresses on functionally graded dental restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 50, 123-30	4.1	18
196	Mechanical Strength and Wear of Dental Glass-Ionomer and Resin Composites Affected by Porosity and Chemical Composition. <i>Journal of Bio- and Tribo-Corrosion</i> , 2015 , 1, 1	2.9	18

195	Ti6Al4V laser surface preparation and functionalization using hydroxyapatite for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 1534-1545	3.5	18
194	Micro-CT based finite element modelling and experimental characterization of the compressive mechanical properties of 3-D zirconia scaffolds for bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103516	4.1	18
193	Shear bond strength of veneering porcelain to zirconia: Effect of surface treatment by CNC-milling and composite layer deposition on zirconia. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 60, 547-556	4.1	18
192	Carbon nanotube dispersion in aluminum matrix composites: Quantification and influence on strength. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 66-73	1.8	17
191	Bioactive materials driven primary stability on titanium biocomposites. <i>Materials Science and Engineering C</i> , 2017 , 77, 1104-1110	8.3	17
190	Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva. <i>Wear</i> , 2016 , 368-369, 84-91	3.5	17
189	Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia. <i>Tribology International</i> , 2016 , 102, 361-370	4.9	17
188	Removal Torque and Biofilm Accumulation at Two Dental Implant-Abutment Joints After Fatigue. <i>International Journal of Oral and Maxillofacial Implants</i> , 2016 , 31, 813-9	2.8	17
187	Ti6Al4V-PEEK multi-material structures: Design, fabrication and tribological characterization focused on orthopedic implants. <i>Tribology International</i> , 2019 , 131, 672-678	4.9	17
186	A novel approach to reduce in-service temperature in WC-Co cutting tools. <i>Ceramics International</i> , 2020 , 46, 3002-3008	5.1	17
185	Influence of laser structuring of PEEK, PEEK-GF30 and PEEK-CF30 surfaces on the shear bond strength to a resin cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 84, 225-234	4.1	17
184	THERMAL RESIDUAL STRESSES IN BILAYERED, TRILAYERED AND GRADED DENTAL CERAMICS. <i>Ceramics International</i> , 2017 , 43, 3670-3678	5.1	16
183	HAp-functionalized zirconia surfaces via hybrid laser process for dental applications. <i>Optics and Laser Technology</i> , 2018 , 106, 157-167	4.2	16
182	Influence of the processing route of porcelain/Ti-6Al-4V interfaces on shear bond strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 20, 327-37	4.1	16
181	Processing and strengthening of 58S bioactive glass-infiltrated titania scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 590-600	5.4	16
180	Influence of interlayer design on residual thermal stresses in trilayered and graded all-ceramic restorations. <i>Materials Science and Engineering C</i> , 2017 , 71, 1037-1045	8.3	16
179	Tribocorrosion Behavior of Ti6Al4V Coated with a Bio-absorbable Polymer for Biomedical Applications. <i>Journal of Bio- and Tribo-Corrosion</i> , 2015 , 1, 1	2.9	16
178	Engineering the elastic modulus of NiTi cellular structures fabricated by selective laser melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103891	4.1	16

177	45S5 BAG-Ti6Al4V structures: The influence of the design on some of the physical and chemical interactions that drive cellular response. <i>Materials and Design</i> , 2018 , 160, 95-105	8.1	16
176	Mechanisms governing the tensile, fatigue, and wear behavior of carbon nanotube reinforced aluminum alloy. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 917-925	1.8	15
175	Additive manufacturing of NiTi-Ti6Al4V multi-material cellular structures targeting orthopedic implants. <i>Optics and Lasers in Engineering</i> , 2020 , 134, 106208	4.6	15
174	Bond strength enhancement of zirconia-porcelain interfaces via Nd:YAG laser surface structuring. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 81, 161-167	4.1	15
173	A particle swarm-based algorithm for optimization of multi-layered and graded dental ceramics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 461-469	4.1	15
172	On the mechanical properties and microstructure of zirconia-reinforced feldspar-based porcelain. <i>Ceramics International</i> , 2016 , 42, 14214-14221	5.1	15
171	High temperature damping behavior and dynamic Young's modulus of AlSiCNTsBiCp hybrid composite. <i>Composite Structures</i> , 2016 , 141, 155-162	5.3	15
170	Surface damage of dental implant systems and ions release after exposure to fluoride and hydrogen peroxide. <i>Journal of Periodontal Research</i> , 2019 , 54, 46-52	4.3	15
169	Hard and Soft Tissue Cell Behavior on Polyetheretherketone, Zirconia, and Titanium Implant Materials. <i>International Journal of Oral and Maxillofacial Implants</i> , 2019 , 34, 39-46	2.8	15
168	Fluorescence of natural teeth and restorative materials, methods for analysis and quantification: A literature review. <i>Journal of Esthetic and Restorative Dentistry</i> , 2018 , 30, 397-407	3.5	15
167	Effect of sintering pressure on microstructure and mechanical properties of hot-pressed Ti6Al4V-ZrO2 materials. <i>Materials and Design</i> , 2017 , 120, 394-403	8.1	14
166	Copper-Bickel-based diamond cutting tools: stone cutting evaluation. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 1339-1348	3.2	14
165	Tribocorrosion behaviour of hot pressed CoCrMo/AP biocomposites. <i>Tribology International</i> , 2015 , 91, 221-227	4.9	14
164	Mechanisms governing the mechanical behavior of an AlSiCNTsBiCp hybrid composite. <i>Composites Part B: Engineering</i> , 2016 , 90, 443-449	10	14
163	CNT-reinforced aluminum composites: processing and mechanical properties. <i>Ciência & Tecnologia Dos Materiais</i> , 2013 , 25, 75-78		14
162	Synergism between corrosion and wear on CoCrMo/Al2O3 biocomposites in a physiological solution. <i>Tribology International</i> , 2015 , 91, 198-205	4.9	14
161	Review on current limits and potentialities of technologies for biomedical ceramic scaffolds production. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 377-393	3.5	14
160	Wear of Morse taper and external hexagon implant joints after abutment removal. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 65	4.5	13

159	Novel design of low modulus high strength zirconia scaffolds for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 97, 375-384	4.1	13
158	Development of novel zirconia implant's materials gradated design with improved bioactive surface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 94, 110-125	4.1	13
157	Bioactivity of novel functionally structured titanium-ceramic composites in contact with human osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1923-1931	5.4	13
156	Development of a method to produce FGMs by controlling the reinforcement distribution. <i>Materials and Design</i> , 2016 , 92, 233-239	8.1	13
155	Tribocorrosion behaviour of hot pressed CoCrMo/Al ₂ O ₃ composites for biomedical applications. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2014 , 8, 201-208	1.4	13
154	Improvement on Sliding Wear Behavior of Al/Cast Iron Tribopair by CNT's Reinforcement of an Al Alloy. <i>Tribology Transactions</i> , 2015 , 58, 643-653	1.8	13
153	Novel laser textured surface designs for improved zirconia implants performance. <i>Materials Science and Engineering C</i> , 2020 , 108, 110390	8.3	13
152	Cell adhesion evaluation of laser-sintered HAp and 45S5 bioactive glass coatings on micro-textured zirconia surfaces using MC3T3-E1 osteoblast-like cells. <i>Materials Science and Engineering C</i> , 2020 , 109, 110492	8.3	13
151	Selective Laser Melting of Ti6Al4V sub-millimetric cellular structures: Prediction of dimensional deviations and mechanical performance. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 113, 104123	4.1	13
150	Tribological behavior of bioactive multi-material structures targeting orthopedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 94, 193-200	4.1	12
149	Optimized route for the production of zirconia structures with controlled surface porosity for biomedical applications. <i>Ceramics International</i> , 2018 , 44, 12496-12503	5.1	12
148	Custom-made root-analogue zirconia implants: A scoping review on mechanical and biological benefits. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2888-2900	3.5	12
147	Effect of sintering stage in NiTi short-fibre-reinforced aluminium/silicon composites interface properties. <i>Journal of Composite Materials</i> , 2013 , 47, 1625-1631	2.7	12
146	Interface analysis on an eutectic AlSi alloy reinforced with Ni coated MWCNT. <i>Composites Part B: Engineering</i> , 2016 , 93, 229-235	10	12
145	In-vitro mechanical and biological evaluation of novel zirconia reinforced bioglass scaffolds for bone repair. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 114, 104164	4.1	12
144	Laser surface texturing of Ti-6Al-4V by nanosecond laser: Surface characterization, Ti-oxide layer analysis and its electrical insulation performance. <i>Materials Science and Engineering C</i> , 2019 , 104, 109901	8.3	11
143	Mechanical and chemical analyses across dental porcelain fused to CP titanium or Ti6Al4V. <i>Materials Science and Engineering C</i> , 2014 , 37, 76-83	8.3	11
142	Sensitivity of different AlSi alloys to centrifugal casting effect. <i>Materials & Design</i> , 2010 , 31, 2867-2877		11

141	The influence of zirconia veneer thickness on the degree of conversion of resin-matrix cements: an integrative review. <i>Clinical Oral Investigations</i> , 2021 , 25, 3395-3408	4.2	11
140	Effect of Zirconia and Alumina Fillers on the Microstructure and Mechanical Strength of Dental Glass Ionomer Cements. <i>Open Dentistry Journal</i> , 2016 , 10, 58-68	0.8	11
139	Cytotoxic effects of submicron- and nano-scale titanium debris released from dental implants: an integrative review. <i>Clinical Oral Investigations</i> , 2021 , 25, 1627-1640	4.2	11
138	Nickel-cobalt-based materials for diamond cutting tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 1059-1067	3.2	11
137	Laser machining of WC-Co green compacts for cutting tools manufacturing. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 81, 316-324	4.1	10
136	Physicochemical and in-vitro biological analysis of bio-functionalized titanium samples in a protein-rich medium. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 96, 152-164	4.1	10
135	Properties assessment of nickel particulate-reinforced aluminum composites produced by hot pressing. <i>Journal of Composite Materials</i> , 2016 , 50, 523-531	2.7	10
134	Influence of wear damage on the fretting fatigue life prediction of an Al7175 alloy. <i>International Journal of Fatigue</i> , 2009 , 31, 1278-1285	5	10
133	Influence of Graphite Nodules Geometrical Features on Fatigue Life of High-Strength Nodular Cast Iron. <i>Journal of Materials Engineering and Performance</i> , 2008 , 17, 352-362	1.6	10
132	Effect of surface and heat treatments on the biaxial flexural strength and phase transformation of a Y-TZP ceramic. <i>Journal of Adhesive Dentistry</i> , 2014 , 16, 451-8	3	10
131	A novel gradated zirconia implant material embedding bioactive ceramics: Osteoblast behavior and physicochemical assessment. <i>Materialia</i> , 2018 , 1, 3-14	3.2	9
130	On a new temperature factor to predict the fatigue limit at different temperatures. <i>International Journal of Fatigue</i> , 2011 , 33, 624-631	5	9
129	An Investigation into the Mechanism of a Crankshaft Failure. <i>Key Engineering Materials</i> , 2003 , 245-246, 351-358	0.4	9
128	Aunps and Agβs-functionalized zirconia surfaces by hybrid laser technology for dental implants. <i>Ceramics International</i> , 2020 , 46, 7109-7121	5.1	9
127	Effect of laser surface texturing on the wettability of WC-Co cutting tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 1991-1999	3.2	9
126	Laser-assisted production of HAp-coated zirconia structured surfaces for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 112, 104049	4.1	9
125	Electrochemical characterization of hot pressed CoCrMo/HAP biocomposite in a physiological solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2015 , 66, 790-795	1.6	8
124	Wear behaviour of tetragonal zirconia polycrystal with a porous surface. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 75, 85-93	4.1	8

123	Dry sliding wear behaviour of Ti-TiB-TiN _x in-situ composite synthesised by reactive hot pressing. <i>International Journal of Surface Science and Engineering</i> , 2016 , 10, 317	1	8
122	Design improvement of an automotive-formed suspension component subjected to fretting fatigue. <i>Engineering Failure Analysis</i> , 2007 , 14, 810-821	3.2	8
121	Multi-material NiTi-PEEK hybrid cellular structures by Selective Laser Melting and Hot Pressing: Tribological characterization. <i>Tribology International</i> , 2021 , 156, 106830	4.9	8
120	Corrosion behaviour of PEEK or β -TCP-impregnated Ti6Al4V SLM structures targeting biomedical applications. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 2523-2533	3.3	8
119	Influence of specimens' geometry and materials on the thermal stresses in dental restorative materials during thermal cycling. <i>Journal of Dentistry</i> , 2018 , 69, 41-48	4.8	7
118	Lithium-zirconium silicate glass-ceramics for restorative dentistry: Physicochemical analysis and biological response in contact with human osteoblast. <i>Materialia</i> , 2018 , 2, 37-45	3.2	7
117	High heterogeneity in in vivo instrumented-assisted patellofemoral joint stress testing: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019 , 27, 745-757	5.5	7
116	Physicochemical properties and cytocompatibility assessment of non-degradable scaffolds for bone tissue engineering applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 112, 103997	4.1	7
115	Influence of laser texturing on surface features, mechanical properties and low-temperature degradation behavior of 3Y-TZP. <i>Ceramics International</i> , 2020 , 46, 3502-3512	5.1	7
114	A new device for patellofemoral instrumented stress-testing provides good reliability and validity. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020 , 28, 389-397	5.5	7
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