

# Paulo Soares

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2072202/publications.pdf>

Version: 2024-02-01

75  
papers

1,710  
citations

236833

25  
h-index

330025

37  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1964  
citing authors

#	ARTICLE	IF	CITATIONS
1	TEM and XRD study of early crystallization of lithium disilicate glasses. Journal of Non-Crystalline Solids, 2003, 331, 217-227.	1.5	140
2	Evaluation of surface structural and mechanical changes following remineralization of dentin. Scanning, 2010, 32, 312-319.	0.7	65
3	Surface modification of tool steel by electrical discharge machining with molybdenum powder mixed in dielectric fluid. International Journal of Advanced Manufacturing Technology, 2017, 91, 341-350.	1.5	61
4	Hardness and elastic modulus of TiO <sub>2</sub> anodic films measured by instrumented indentation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 524-530.	1.6	59
5	Tribocorrosion behavior of low friction TiSiCN nanocomposite coatings deposited on titanium alloy for biomedical applications. Surface and Coatings Technology, 2018, 347, 1-12.	2.2	52
6	Tribocorrosion behavior of DLC-coated Ti-6Al-4V alloy deposited by PIID and PEMS + PIID techniques for biomedical applications. Surface and Coatings Technology, 2017, 332, 223-232.	2.2	50
7	On the persistence of metastable crystal phases in lithium disilicate glass. Journal of Non-Crystalline Solids, 2000, 274, 188-194.	1.5	48
8	Incorporation of Ca and P on anodized titanium surface: Effect of high current density. Materials Science and Engineering C, 2014, 37, 223-231.	3.8	47
9	Synthesis of SnO <sub>2</sub> Nanoribbons by a Carbothermal Reduction Process. Journal of Nanoscience and Nanotechnology, 2002, 2, 125-128.	0.9	45
10	Influence of the nitriding and TiAlN/TiN coating thickness on the sliding wear behavior of duplex treated AISI H13 steel. Surface and Coatings Technology, 2010, 205, 1381-1385.	2.2	43
11	Effect of Ceramic Veneer Opacity and Exposure Time on the Polymerization Efficiency of Resin Cements. Operative Dentistry, 2012, 37, 281-289.	0.6	41
12	Surface modification of metal alloys by plasma immersion ion implantation and subsequent plasma nitriding. Surface and Coatings Technology, 2004, 186, 204-208.	2.2	39
13	Tribo-mechanical characterization of rough, porous and bioactive Ti anodic layers. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 796-806.	1.5	39
14	Surface modification of AISI H13 tool steel with silicon or manganese powders mixed to the dielectric in electrical discharge machining process. International Journal of Advanced Manufacturing Technology, 2016, 83, 1057-1068.	1.5	39
15	Effect of welding energy on the corrosion and tribological properties of duplex stainless steel weld overlay deposited by GMAW/CMT process. Surface and Coatings Technology, 2019, 375, 688-693.	2.2	38
16	Bioactive and antibacterial boron doped TiO <sub>2</sub> coating obtained by PEO. Applied Surface Science, 2018, 458, 49-58.	3.1	36
17	Microstructural and tribological characterization of DLC coatings deposited by plasma enhanced techniques on steel substrates. Surface and Coatings Technology, 2020, 389, 125615.	2.2	35
18	Grain-boundary segregation and precipitates in La <sub>2</sub> O <sub>3</sub> and Pr <sub>2</sub> O <sub>3</sub> doped SnO <sub>2</sub> -CoO-based varistors. Journal of the European Ceramic Society, 2003, 23, 1875-1880.	2.8	33

#	ARTICLE	IF	CITATIONS
19	Electrochemical and morphological analyses on the titanium surface modified by shot blasting and anodic oxidation processes. <i>Thin Solid Films</i> , 2013, 528, 163-166.	0.8	33
20	Effects of irradiance, wavelength, and thermal emission of different light curing units on the Knoop and Vickers hardness of a composite resin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 85B, 166-171.	1.6	30
21	In-vitro cell adhesion and proliferation of adipose derived stem cell on hydroxyapatite composite surfaces. <i>Materials Science and Engineering C</i> , 2017, 75, 1305-1316.	3.8	30
22	XRD investigation of metastable phase formation in Li <sub>2</sub> O•2SiO <sub>2</sub> glass. <i>Journal of Non-Crystalline Solids</i> , 1999, 255, 264-268.	1.5	29
23	Residual stress determination on lithium disilicate glass-ceramic by nanoindentation. <i>Journal of Non-Crystalline Solids</i> , 2004, 348, 139-143.	1.5	29
24	Performance and Surface Integrity of Ti6Al4V After Sinking EDM with Special Graphite Electrodes. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1480-1488.	1.2	29
25	Biodegradation of orthodontic metallic brackets and associated implications for friction. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2011, 140, 501-509.	0.8	28
26	Recast layer mechanical properties of tool steel after electrical discharge machining with silicon powder in the dielectric. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 15-28.	1.5	28
27	Titania nanotube arrays as interfaces for neural prostheses. <i>Materials Science and Engineering C</i> , 2015, 49, 735-745.	3.8	25
28	Mechanical properties of kaolinite ~macro-crystals™. <i>Philosophical Magazine</i> , 2007, 87, 4445-4459.	0.7	24
29	Bactericidal activity and cytotoxicity of a zinc doped PEO titanium coating. <i>Thin Solid Films</i> , 2018, 660, 477-483.	0.8	24
30	High temperature plasma immersion ion implantation of Ti6Al4V. <i>Surface and Coatings Technology</i> , 2007, 201, 4953-4956.	2.2	23
31	Effect of thermal aging conditions on the corrosion properties and hardness of a duplex stainless steel. <i>Materials Research</i> , 2010, 13, 431-436.	0.6	23
32	Nanomechanical and nanotribological properties of bioactive titanium surfaces prepared by alkali treatment. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 756-765.	1.5	23
33	Effect of crystalline phases of titania nanotube arrays on adipose derived stem cell adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2019, 103, 109850.	3.8	21
34	Fracture toughness, hardness, and elastic modulus of kyanite investigated by a depth-sensing indentation technique. <i>American Mineralogist</i> , 2008, 93, 844-852.	0.9	20
35	Tribocorrosion behavior of boronized AISI 4140 steel. <i>Surface and Coatings Technology</i> , 2018, 352, 265-272.	2.2	19
36	Mechanical and tribological properties of carbon and nitrogen consecutive ion implantation into aluminium. <i>Surface and Coatings Technology</i> , 2006, 201, 1488-1494.	2.2	18

#	ARTICLE	IF	CITATIONS
37	Effect of high pressure in the Li <sub>2</sub> O–2SiO <sub>2</sub> crystallization. Journal of Non-Crystalline Solids, 2010, 356, 3004-3008.	1.5	18
38	Effect of high pressure on the mechanical properties of lithium disilicate glass ceramic. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3921-3924.	2.6	18
39	Evaluation of Hard Coating Performance in Drilling Compacted Graphite Iron (CGI). Journal of Materials Engineering and Performance, 2013, 22, 3155-3160.	1.2	18
40	Enhanced Micro-Electric Discharge Machining-Induced Surface Modification on Biomedical Ti-6Al-4V Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	1.3	16
41	Effect of Ti and Mg dopants on the mechanical properties, solubility, and bioactivity in vitro of a Sr-containing phosphate based glass. Journal of Non-Crystalline Solids, 2014, 386, 34-38.	1.5	15
42	Sinterability and mechanical properties of glass-ceramics in the system SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -MgO/ZnO. Journal of the European Ceramic Society, 2020, 40, 6002-6013.	2.8	15
43	Surface Modification of Medical-Grade Ni55.6Ti44.4 alloy via enhanced machining characteristics of Zn Powder Mixed-1/4-EDM. Surface and Coatings Technology, 2021, 425, 127725.	2.2	15
44	Effect of a bioactive glass-ceramic on the apatite nucleation on titanium surface modified by micro-arc oxidation. Surface and Coatings Technology, 2012, 206, 4601-4605.	2.2	14
45	Mechanical and Tribological Properties of Ca/P-Doped Titanium Dioxide Layer Produced by Plasma Electrolytic Oxidation: Effects of Applied Voltage and Heat Treatment. Tribology Transactions, 2018, 61, 733-741.	1.1	13
46	Annealing Temperature Effect on Tribocorrosion and Biocompatibility Properties of TiO <sub>2</sub> Nanotubes. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	1.2	13
47	Liquid–liquid phase separation in alkali-borosilicate glass.. Journal of Non-Crystalline Solids, 2003, 332, 166-172.	1.5	12
48	The effect of nitriding on adhesion and mechanical properties of electroless Ni–P coating on AISI 4140 steel. Surface Engineering, 2017, 33, 116-121.	1.1	12
49	Tribological behavior of superduplex stainless steel against PVD hard coatings on cemented carbide. International Journal of Advanced Manufacturing Technology, 2017, 90, 1649-1658.	1.5	12
50	Mechanical and tribological properties of a sintered glass-ceramic compared to granite and porcelainized stoneware. Wear, 2011, 271, 875-880.	1.5	11
51	Effects of calcium and phosphorus incorporation on the properties and bioactivity of TiO <sub>2</sub> nanotubes. Journal of Biomaterials Applications, 2018, 33, 410-421.	1.2	11
52	Effect of Powder Particle Concentration and Tool Electrode Material amid Zinc Powder-Mixed $\mu$ EDM of Biocompatible Mg Alloy AZ91D. Journal of Materials Engineering and Performance, 2021, 30, 5704-5718.	1.2	11
53	Influence of the annealing treatment on the tribocorrosion properties of Ca and P containing TiO <sub>2</sub> produced by plasma electrolytic oxidation. Materials Technology, 2016, 31, 719-725.	1.5	10
54	Titanium-Niobium (Ti-xNb) Alloys with High Nb Amounts for Applications in Biomaterials. Materials Research, 2020, 23, .	0.6	10

#	ARTICLE	IF	CITATIONS
55	Nearly constant loss behavior of lithium disilicate during devitrification. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 1031-1038.	1.5	9
56	Melanoma Metastasis to the Breast Masquerading as Fibroadenoma. <i>Gynecologic and Obstetric Investigation</i> , 2006, 62, 97-99.	0.7	9
57	Results from experiments on hybrid plasma immersion ion implantation/nitriding processing of materials. <i>Brazilian Journal of Physics</i> , 2004, 34, 1632-1637.	0.7	9
58	Crystallinity of TiO <sub>2</sub> nanotubes and its effects on fibroblast viability, adhesion, and proliferation. <i>Journal of Materials Science: Materials in Medicine</i> , 2020, 31, 94.	1.7	8
59	Performance Investigation of Cryo-treated End Mill on the Mechanical and in vitro behavior of Hybrid-lubri-coolant-milled Ti-6Al-4V alloy. <i>Journal of Manufacturing Processes</i> , 2021, 71, 472-488.	2.8	8
60	Bioactive response of PMMA coating obtained by electrospinning on ISO5832-9 and Ti6Al4V biomaterials. <i>Surface and Coatings Technology</i> , 2021, 412, 127033.	2.2	7
61	Nanocomposite Metal Amorphous-Carbon Thin Films Deposited by Hybrid PVD and PECVD Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4061-4066.	0.9	6
62	Structural and mechanical analysis for the optimization of PVD oxide coatings for protection against metal dusting. <i>Applied Surface Science</i> , 2012, 258, 7306-7313.	3.1	6
63	Titanium bioactivity surfaces obtained by chemical/electrochemical treatments. <i>Revista Materia</i> , 2014, 19, 16-23.	0.1	6
64	Plasma electrolytic oxidation up to four-steps performed on niobium and Nb-Ti alloys. <i>Surface and Coatings Technology</i> , 2022, 438, 128369.	2.2	6
65	Thermal stability of lithium metasilicate produced under high pressure from lithium disilicate glass. <i>International Journal of Applied Glass Science</i> , 2019, 10, 522-531.	1.0	4
66	Influência da cristalização na dureza, módulo de elasticidade e tenacidade à fratura por indentação em vitro cerâmicas de dissilicato de lítio (Li <sub>2</sub> O.2SiO <sub>2</sub> ). <i>Ceramica</i> , 2018, 64, 301-310.	0.3	3
67	Strength and Deformation Properties of Low-Alloy Steel Bolts with Electroless Ni-P Coating: An Investigation of Two Thermal Routes. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6025-6032.	1.2	3
68	Enamel erosion control by strontium-containing TiO <sub>2</sub> - and/or MgO-doped phosphate bioactive glass. <i>Clinical Oral Investigations</i> , 2022, 26, 1915-1925.	1.4	3
69	Improvements of tribological properties of CrNiMo and CrCoMo alloys by nitrogen plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2005, 200, 594-597.	2.2	2
70	Elastic Modulus and Hardness of Bioactive Ti Obtained by Anodic Oxidation Using Ca/P-Based Solutions. <i>Key Engineering Materials</i> , 0, 396-398, 323-326.	0.4	2
71	Mechanical, Tribological, and Corrosion Properties of Composite NiP-Al <sub>2</sub> O <sub>3</sub> With Different Amount of Particles. <i>Journal of Tribology</i> , 2021, 143, .	1.0	2
72	Methodology for error propagation analysis of the complex stiffness modulus of asphalt mixes. <i>Construction and Building Materials</i> , 2021, 290, 123156.	3.2	2

#	ARTICLE	IF	CITATIONS
73	WED-machining performance by reciprocating molybdenum wire on Inconel 718 with water or hydrocarbon dielectrics. International Journal of Advanced Manufacturing Technology, 0, , 1.	1.5	2
74	Weightings on the Propagation of Errors in the Vickers Hardness Parameters. Brazilian Journal of Physics, 2022, 52, 1.	0.7	2
75	Resistencia al desgaste de recubrimientos sol-gel de SiO <sub>2</sub> y SiO <sub>2</sub> - ZrO <sub>2</sub> sobre materiales vitrocerámicos obtenidos por sinterización. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2013, 52, 225-230.	0.9	1