

# Etienne Bousser, PEng

## List of Publications by Year in descending order

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36  
papers

696  
citations

567144

15  
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580701

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36  
docs citations

36  
times ranked

869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid particle erosion mechanisms of protective coatings for aerospace applications. <i>Surface and Coatings Technology</i> , 2014, 257, 165-181.	2.2	112
2	Cavitation erosion mechanisms in stainless steels and in composite metal-ceramic HVOF coatings. <i>Wear</i> , 2016, 364-365, 201-210.	1.5	66
3	Effect of microstructure on the erosion resistance of Cr-Si-N coatings. <i>Surface and Coatings Technology</i> , 2008, 203, 776-780.	2.2	52
4	Correlation Between Mechanical Properties and Cross-Linking Degree of Ethyl Lactate Plasma Polymer Films. <i>Plasma Processes and Polymers</i> , 2015, 12, 508-518.	1.6	44
5	Solid particle erosion mechanisms of hard protective coatings. <i>Surface and Coatings Technology</i> , 2013, 235, 383-393.	2.2	35
6	Effect of Pt nanoparticle decoration on the H <sub>2</sub> storage performance of plasma-derived nanoporous graphene. <i>Carbon</i> , 2021, 171, 294-305.	5.4	27
7	Tribo-Mechanical Properties of DLC Coatings Deposited on Nitrided Biomedical Stainless Steel. <i>Plasma Processes and Polymers</i> , 2007, 4, S640-S646.	1.6	26
8	Tantalum-doped hydroxyapatite thin films: Synthesis and characterization. <i>Acta Materialia</i> , 2012, 60, 3435-3443.	3.8	25
9	Effect of erodent properties on the solid particle erosion mechanisms of brittle materials. <i>Journal of Materials Science</i> , 2013, 48, 5543-5558.	1.7	25
10	Influence of the Chemical Composition on the Phase Constitution and the Elastic Properties of RF-Sputtered Hydroxyapatite Coatings. <i>Plasma Processes and Polymers</i> , 2008, 5, 168-174.	1.6	24
11	Stable reactive deposition of amorphous Al <sub>2</sub> O <sub>3</sub> films with low residual stress and enhanced toughness using pulsed dc magnetron sputtering with very low duty cycle. <i>Vacuum</i> , 2016, 124, 96-100.	1.6	24
12	Toward a Better Understanding of the Influence of the Hydrocarbon Precursor on the Mechanical Properties of a-C:H Coatings Synthesized by a Hybrid PECVD/PVD Method. <i>Plasma Processes and Polymers</i> , 2016, 13, 316-323.	1.6	22
13	Growth and properties of high index Ta <sub>2</sub> O <sub>5</sub> optical coatings prepared by HiPIMS and other methods. <i>Surface and Coatings Technology</i> , 2014, 241, 33-37.	2.2	20
14	Coupled Broad Ion Beam-Scanning Electron Microscopy (BIB-SEM) for polishing and three dimensional (3D) serial section tomography (SST). <i>Ultramicroscopy</i> , 2020, 214, 112989.	0.8	20
15	Effect of Cr interlayer on the adhesion and corrosion enhancement of nanocomposite TiN-based coatings deposited on stainless steel 410. <i>Thin Solid Films</i> , 2011, 519, 3128-3134.	0.8	19
16	Solid solution hardening in nanolaminate ZrN-TiN coatings with enhanced wear resistance. <i>Thin Solid Films</i> , 2019, 688, 137431.	0.8	15
17	Thermal stability of a Stellite/steel hardfacing interface during long-term aging. <i>Materials Characterization</i> , 2019, 154, 181-192.	1.9	15
18	Novel combustion synthesis of carbon foam-aluminum fluoride nanocomposite materials. <i>Materials and Design</i> , 2018, 144, 222-228.	3.3	14

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19	Hard titanium nitride coating deposition inside narrow tubes using pulsed DC PECVD processes. <i>Surface and Coatings Technology</i> , 2019, 377, 124894.	2.2	13
20	Influence of internal stress in optical thin films on their failure modes assessed by in situ real-time scratch analysis. <i>Tribology International</i> , 2017, 109, 355-366.	3.0	11
21	Hybrid organic/inorganic nanolaminate structures with enhanced tribo-mechanical properties for optical applications. <i>Surface and Coatings Technology</i> , 2017, 315, 399-407.	2.2	9
22	On the Application of Xe <sup>+</sup> Plasma FIB for Micro-fabrication of Small-scale Tensile Specimens. <i>Experimental Mechanics</i> , 2019, 59, 1113-1125.	1.1	9
23	Sputter-deposited nitrides for oxidation protection in a steam environment at high temperatures. <i>Thin Solid Films</i> , 2019, 688, 137439.	0.8	9
24	Hybrid Co-Cr/W-WC and Ni-W-Cr-B/W-WC Coating Systems. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 346-356.	1.6	8
25	Impact dynamics of supercooled microdroplets on water-repellent coatings. <i>Thin Solid Films</i> , 2019, 688, 137309.	0.8	8
26	Nanostructural Characterisation and Optical Properties of Sputter-Deposited Thick Indium Tin Oxide (ITO) Coatings. <i>Coatings</i> , 2020, 10, 1127.	1.2	7
27	Effects of interfacial microstructure on mechanical properties of Stellite-hardfaced coating during long-term aging. <i>Surface and Coatings Technology</i> , 2020, 398, 125989.	2.2	6
28	In situ ice growth kinetics on water-repellent coatings under atmospheric icing conditions. <i>Surface and Coatings Technology</i> , 2020, 399, 126136.	2.2	6
29	In situ real time nanowear testing method of optical functional thin films. <i>Tribology International</i> , 2016, 95, 147-155.	3.0	5
30	Microstructural and mechanical characterization of Stellite-hardfaced coatings with two types of buffer layers. <i>Surface and Coatings Technology</i> , 2020, 390, 125611.	2.2	5
31	In situ real-time solid particle erosion testing methodology for hard protective coatings. <i>Surface and Coatings Technology</i> , 2013, 237, 313-319.	2.2	4
32	3D Imaging of Indentation Damage in Bone. <i>Materials</i> , 2018, 11, 2533.	1.3	3
33	Ceramic buckling for determining the residual stress in thin films. <i>Scripta Materialia</i> , 2021, 201, 113949.	2.6	3
34	High-dose ion irradiation damage in Fe <sub>28</sub> Ni <sub>28</sub> Mn <sub>26</sub> Cr <sub>18</sub> characterised by TEM and depth-sensing nanoindentation. <i>Nuclear Materials and Energy</i> , 2021, 28, 101028.	0.6	3
35	Predicting the Load-Carrying Capacity and Wear Resistance of Duplex-Coated Low-Strength Alloys for Severe Service Ball Valves. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 1177-1186.	1.6	1
36	Study of the synthesis of C:H coating by PECVD for protecting Mg-based nano-objects. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000083.	1.6	1