

Gonzalo G Fuentes

List of Publications by Year in descending order

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51
papers

959
citations

430874

18
h-index

454955

30
g-index

51
all docs

51
docs citations

51
times ranked

1133
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient production of B-substituted single-wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2003, 378, 516-520.	2.6	95
2	Triode plasma nitriding and PVD coating: A successful pre-treatment combination to improve the wear resistance of DLC coatings on Ti6Al4V alloy. <i>Surface and Coatings Technology</i> , 2006, 201, 4335-4340.	4.8	66
3	Cr and Zr/Cr nitride CAE-PVD coated aluminum bipolar plates for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11489-11498.	7.1	66
4	High temperature tribological characterisation of TiAlSiN coatings produced by cathodic arc evaporation. <i>Surface and Coatings Technology</i> , 2010, 205, 1368-1373.	4.8	59
5	Recent advances in the chromium nitride PVD process for forming and machining surface protection. <i>Journal of Materials Processing Technology</i> , 2005, 167, 415-421.	6.3	55
6	Plasma nitriding of Ti6Al4V alloy and AISI M2 steel substrates using D.C. glow discharges under a triode configuration. <i>Surface and Coatings Technology</i> , 2005, 200, 1954-1961.	4.8	41
7	Characterization of hard DC-sputtered Si-based TiN coatings: the effect of composition and ion bombardment. <i>Surface and Coatings Technology</i> , 2004, 188-189, 351-357.	4.8	36
8	Tribocorrosion behaviour of duplex surface treated AISI 304 stainless steel. <i>Surface and Coatings Technology</i> , 2010, 204, 1623-1630.	4.8	36
9	Mechanical and tribological properties of TiC _x N _{1-x} wear resistant coatings. <i>International Journal of Refractory Metals and Hard Materials</i> , 2001, 19, 507-513.	3.8	35
10	Mechanical behavior of Cu/TiN multilayers at ambient and elevated temperatures: Stress-assisted diffusion of Cu. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 620, 375-382.	5.6	34
11	Influence of temperature in arc-activated plasma nitriding of maraging steel in solution annealed and aged conditions. <i>Surface and Coatings Technology</i> , 2014, 258, 754-762.	4.8	28
12	Improvement of surface mechanical properties of polymers by helium ion implantation. <i>Surface and Coatings Technology</i> , 2007, 201, 8146-8149.	4.8	24
13	Sliding friction and wear behaviour of Titanium-Zirconium-Molybdenum (TZM) alloy against Al ₂ O ₃ and Si ₃ N ₄ balls under several environments and temperatures. <i>Tribology International</i> , 2017, 110, 348-357.	5.9	24
14	Electrode surface treatments in sludge electro-osmosis dewatering. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1265-1273.	4.7	23
15	Gradient CrCN cathodic arc PVD coatings. <i>Surface and Coatings Technology</i> , 2008, 203, 670-674.	4.8	22
16	Gradient CrCN cathodic arc PVD coatings. <i>Thin Solid Films</i> , 2009, 517, 5894-5899.	1.8	21
17	Bactericidal silver-doped DLC coatings obtained by pulsed filtered cathodic arc co-deposition. <i>Surface and Coatings Technology</i> , 2021, 411, 126977.	4.8	21
18	Antibacterial Functionalization of PVD Coatings on Ceramics. <i>Coatings</i> , 2018, 8, 197.	2.6	20

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19	Investigation on the sliding of aluminium thin foils against PVD-coated carbide forming-tools during micro-forming. <i>Journal of Materials Processing Technology</i> , 2006, 177, 644-648.	6.3	18
20	Quasi-One-Dimensional K-O Chain in PTCDA Thin Films: Evidence from First-Principles Calculations. <i>Physical Review Letters</i> , 2007, 98, 046401.	7.8	18
21	Microstructural and tribological investigations of CrN coated, wet-stripped and recoated functional substrates used for cutting and forming tools. <i>Thin Solid Films</i> , 2004, 469-470, 466-471.	1.8	15
22	Tribological improvements of ion implanted technological alloys: Plasma immersion vs. conventional ion implantation. <i>Surface and Coatings Technology</i> , 2005, 200, 573-578.	4.8	15
23	Comparative study of CrAlSiN monolayer and CrN/AlSiN superlattice multilayer coatings: Behavior at high temperature in steam atmosphere. <i>Journal of Alloys and Compounds</i> , 2019, 778, 652-661.	5.5	15
24	Electronic structure and work function of potassium-doped PTCDA thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 329-333.	2.3	14
25	Correlation between bonding structure and mechanical properties of amorphous carbon nitride thin films. <i>Surface and Coatings Technology</i> , 2000, 125, 284-288.	4.8	13
26	Tribological metal-carbon coatings deposited by PVD magnetron sputtering. <i>Applied Surface Science</i> , 2004, 235, 53-59.	6.1	11
27	Spectroscopic investigations of Cr, CrN and TiCr anti-multipactor coatings grown by cathodic-arc reactive evaporation. <i>Applied Surface Science</i> , 2007, 253, 7627-7631.	6.1	11
28	Chemical and mechanical stability of air annealed cathodic arc evaporated CrAlON coatings. <i>Surface and Coatings Technology</i> , 2018, 351, 153-161.	4.8	11
29	Elastic properties of hard TiCxNy films grown by dual ion beam sputtering. <i>Surface and Coatings Technology</i> , 2002, 151-152, 365-369.	4.8	10
30	Interface effects in the electronic structure of TiO ₂ deposited on MgO, Al ₂ O ₃ and SiO ₂ substrates. <i>Surface Science</i> , 2011, 605, 539-544.	1.9	10
31	Characterisation of cathodic arc evaporated CrTiAlN coatings: Tribological response at room temperature and at 400°C. <i>Materials Chemistry and Physics</i> , 2017, 190, 194-201.	4.0	10
32	CrAlON CAE-PVD coatings for oxidation and wear protection of TZM alloys in FAST sintering applications. <i>Materials Chemistry and Physics</i> , 2018, 208, 189-197.	4.0	10
33	Antibacterial response of titanium oxide coatings doped by nitrogen plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2017, 314, 67-71.	4.8	9
34	Effect of coating thickness and deposition methods on the stripping rate of CrN coatings. <i>Surface and Coatings Technology</i> , 2005, 200, 1842-1848.	4.8	8
35	Vapour deposition technologies for the fabrication of hot-forming tools: a review. <i>Manufacturing Review</i> , 2014, 1, 20.	1.5	8
36	Simultaneous ageing and plasma nitriding of grade 300 maraging steel: How working pressure determines the effective nitrogen diffusion into narrow cavities. <i>Surface and Coatings Technology</i> , 2017, 317, 64-74.	4.8	8

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37	Characterisation of Pristine and Recoated electron beam evaporation plasma-assisted physical vapour deposition Cr-N coatings on AISI M2 steel and WC-Co substrates. Thin Solid Films, 2005, 491, 177-183.	1.8	7
38	Temperature-dependent contact phenomena of PVD- and CVD-deposited DLC films sliding on the thin aluminium foil. International Journal of Advanced Manufacturing Technology, 2010, 47, 931-936.	3.0	6
39	Temperature-dependent tribological properties of low-energy N-implanted V5Ti alloys. Surface and Coatings Technology, 2004, 188-189, 459-465.	4.8	5
40	Nano-wear, nano-hardness and corrosion-resistance of electroplated nickel surfaces after co-implantation of Cr+ and N2+ ions. Surface and Coatings Technology, 2011, 205, 4447-4452.	4.8	5
41	Effects of He+ ion implantation on surface properties of UV-cured Bis-GMA/TEGDMA bio-compatible resins. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 111-116.	1.4	5
42	New technique for determining the critical loads of a thin coating on a tool-steel substrate by considering the initiation of cracks in the coating. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 1205-1212.	2.4	4
43	Friction, nanowear and corrosion properties of electroplated nickel surfaces after dual implantation of Cr+ and N2+ ions. Influence of the implantation energy of the N2+ ions. Surface and Coatings Technology, 2012, 210, 46-53.	4.8	3
44	Surface Engineering and Micro-manufacturing. , 2015, , 459-486.		2
45	Microstructure and indentation hardness study of CAE-PVD (Cr,Ti,Al)N solid solution coatings deposited using a combinatorial multitarget approach. Surface and Coatings Technology, 2021, 420, 127326.	4.8	2
46	Effects of the low energy-ion beam assistance in the properties of TiCxNy thin films. Surface and Coatings Technology, 2002, 151-152, 189-193.	4.8	0
47	Surface Engineering and Micro-Manufacturing. , 2010, , 221-240.		0
48	Towards low-friction and wear-resistant plasma sintering dies via plasma surface co-alloying CM247 nickel alloy with V/Ag and N. MATEC Web of Conferences, 2015, 21, 10005.	0.2	0
49	Investigation on MWCNT-epoxy films at high CPVC for conductive electrodes coating. SN Applied Sciences, 2019, 1, 1.	2.9	0
50	TRATAMIENTOS TERMOQUIMICOS PARA ACEROS MARAGING NITRURACION POR PLASMA ASISTIDO POR ARCO CATODICO. Dyna (Spain), 2014, 89, 172-175.	0.2	0
51	SURFACE PREPARATION METHODOLOGY FOR NANOINDENTATION OF HIGH ROUGHNESS COATINGS. Dyna (Spain), 2018, 93, 529-533.	0.2	0