# Albano Cavaleiro

List of Publications by Year
in descending order



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|---|---|---|---|
| 360 papers | 8,025 citations | 61687 45 h-index | 124990 64 g-index |
| 363 all docs | 363 docs citations | 363 times ranked | 5291 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A revised interpretation of the mechanisms governing low friction tribolayer formation in alloyed-TMD self-lubricating coatings. Applied Surface Science, 2022, 571, 151302. | 3.1 | 5 |
| 2 | Tribological behaviour of W-S-C coated ceramics in a vacuum environment. Tribology International, 2022, 167, 107375. | 3.0 | 3 |
| 3 | HiPIMS pulse shape influence on the deposition of diamond-like carbon films. Surface and Coatings Technology, 2022, 432, 128059. | 2.2 | 8 |
| 4 | Comparative study on the nanomechanical behavior and physical properties influenced by the epitaxial growth mechanisms of GaN thin films. Applied Surface Science, 2022, 579, 152188. | 3.1 | 11 |
| 5 | TiAlSiN(Ag) coatings for high temperature applications: The influence of Ag alloying on the morphology, structure, thermal stability and oxidation resistance. Surface and Coatings Technology, 2022, 442, 128087. | 2.2 | 7 |
| 6 | Adhesion of Amorphous Carbon Nanofilms on Ferrous Alloy Substrates Using a Nanoscale Silicon Interlayer: Implications for Solid-State Lubrication. ACS Applied Nano Materials, 2022, 5, 3763-3772. | 2.4 | 2 |
| 7 | Exploring the industrial implementation of Wâ€“Sâ€“NÂcoatings: a detailed study of the synthesis, compositional, structural, mechanical and multi-environment lubrication properties. Journal of Materials Research and Technology, 2022, 18, 547-563. | 2.6 | 3 |
| 8 | Mo-Se-N dry lubricant coatings as a universal solution for protecting surfaces of complex 3D parts. Materials Letters, 2022, 316, 131967. | 1.3 | 2 |
| 9 | Synergetic effect of thickness and oxygen addition on the electrochemical behaviour of tantalum oxide coatings deposited by HiPIMS in DOMS mode. Electrochimica Acta, 2022, 423, 140497. | 2.6 | 4 |
| 10 | Immobilization of Streptavidin on a Plasmonic Au-TiO2 Thin Film towards an LSPR Biosensing Platform. Nanomaterials, 2022, 12, 1526. | 1.9 | 6 |
| 11 | Effect of Annealing Heat Treatment on the Composition, Morphology, Structure and Mechanical Properties of the W-S-N Coatings. Materials, 2022, 15, 4088. | 1.3 | 0 |
| 12 | On the tribological performance of laser-treated self-lubricating thin films in contact with rubber. Tribology International, 2022, 174, 107758. | 3.0 | 3 |
| 13 | Galvanic oxidation of bimetallic Zn-Fe nanoparticles for oxygen scavenging. Applied Surface Science, 2021, 537, 147896. | 3.1 | 7 |
| 14 | Microstructural, mechanical, thermal stability and oxidation behavior of TiSiN/CrV N multilayer coatings deposited by D.C. reactive magnetron sputtering. Surface and Coatings Technology, 2021, 405, 126593. | 2.2 | 14 |
| 15 | Tribological performance of DLC coatings deposited by DOMS in mixed Ar-Ne discharges. Materials Letters, 2021, 285, 129056. | 1.3 | 9 |
| 16 | The influence of the deposition pressure on the composition and the mechanical properties of Wâ€“Sâ€“C coatings deposited by magnetron sputtering in semi-industrial conditions. Vacuum, 2021, 184, 109963. | 1.6 | 5 |
| 17 | An insight on the MoS2 tribo-film formation to determine the friction performance of Mo-S-N sputtered coatings. Surface and Coatings Technology, 2021, 408, 126791. | 2.2 | 8 |
| 18 | Effect of Peak Power in Deep Oscillation Magnetron Sputtering on Film Properties. Journal of Materials Engineering and Performance, 2021, 30, 3912-3924. | 1.2 | 1 |

| # | Article | IF | Citations |
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| 19 | On the Microstructural, Mechanical and Tribological Properties of Mo-Se-C Coatings and Their Potential for Friction Reduction against Rubber. Materials, 2021, 14, 1336. | 1.3 | 5 |
| 20 | Structure, Morphology, Thermal Stability and Oxidation Resistance of Multilayered TiSiN/VN Films: Influence of TiSiN-Layer Thickness. Journal of Materials Engineering and Performance, 2021, 30, 3934-3941. | 1.2 | 2 |
| 21 | Machining performance of TiSiN(Ag) coated tools during dry turning of TiAl6V4 aerospace alloy. Ceramics International, 2021, 47, 11799-11806. | 2.3 | 21 |
| 22 | Failure of Solid Lubricant W-S-C Coatings under Boundary Lubrication Conditions. Journal of Materials Engineering and Performance, 2021, 30, 3990-3999. | 1.2 | 1 |
| 23 | High Si multilayered TiSiN/TiN(Ag) films with superior oxidation resistance. Journal of Materials Research and Technology, 2021, 12, 2340-2347. | 2.6 | 12 |
| 24 | Development of Nanocomposite Coating by Hybrid Gas Condensation Process and Magnetron Sputtering Equipment: Electrochemical Characteristics and Surface Analysis. Journal of Materials Engineering and Performance, 2021, 30, 4083-4093. | 1.2 | 1 |
| 25 | Robust LSPR Sensing Using Thermally Embedded Au Nanoparticles in Glass Substrates. Nanomaterials, 2021, 11, 1592. | 1.9 | 8 |
| 26 | REACH regulation challenge: Development of alternative coatings to hexavalent chromium for minting applications. Surface and Coatings Technology, 2021, 418, 127271. | 2.2 | 13 |
| 27 | Performance of diamond-like carbon coatings (produced by the innovative Ne-HiPIMS technology) under different lubrication regimes. Wear, 2021, 477, 203775. | 1.5 | 11 |
| 28 | Diffusion of silver in titanium nitride: Insights from density functional theory and molecular dynamics. Applied Surface Science, 2021, 556, 149738. | 3.1 | 10 |
| 29 | Cr-Based Sputtered Decorative Coatings for Automotive Industry. Materials, 2021, 14, 5527. | 1.3 | 12 |
| 30 | Influence of Ag additions on the structure, mechanical properties and oxidation behaviour of CrAlNAg coatings deposited by sputtering. Surface and Coatings Technology, 2021, 426, 127767. | 2.2 | 16 |
| 31 | Growth temperature effect on physical and mechanical properties of nitrogen rich InN epilayers. Journal of Alloys and Compounds, 2021, 885, 160951. | 2.8 | 11 |
| 32 | Advanced Tribological Characterization of DLC Coatings Produced by Ne-HiPIMS for the Application on the Piston Rings of Internal Combustion Engines. Applied Sciences (Switzerland), 2021, 11, 10498. | 1.3 | 10 |
| 33 | Carbon-Based Coatings in Medical Textiles Surface Functionalisation: An Overview. Processes, 2021, 9, 1997. | 1.3 | 7 |
| 34 | Dielectric Properties of Shape-Distributed Ellipsoidal Particle Systems. Plasmonics, 2020, 15, 379-397. | 1.8 | 8 |
| 35 | Correlation between Substrate Ion Fluxes and the Properties of Diamond-Like Carbon Films Deposited by Deep Oscillation Magnetron Sputtering in Ar and Ar + Ne Plasmas. Coatings, 2020, 10, 914. | 1.2 | 8 |
| 36 | High temperature tribological behaviour of TiSiN(Ag) films deposited by HiPIMS in DOMS mode. Surface and Coatings Technology, 2020, 399, 126176. | 2.2 | 19 |

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| 37 | Nanotribological Investigation of Sliding Properties of Transition Metal Dichalcogenide Thin Film Coatings. ACS Applied Materials & Interfaces, 2020, 12, 54191-54202. | 4.0 | 9 |
| 38 | Role of Au incorporation in the electrochemical behavior of Ag/a:C nanocomposite coatings. Surface and Coatings Technology, 2020, 401, 126240. | 2.2 | 8 |
| 39 | Mechanical Properties and Vacuum Tribological Performance of Moâ€“Sâ€“N Sputtered Coatings. ACS Applied Materials & Interfaces, 2020, 12, 43299-43310. | 4.0 | 15 |
| 40 | Effect of the Substrate Biasing on the Structure and Properties of Tantalum Coatings Deposited Using HiPIMS in Deep Oscillations Magnetron Sputtering Mode. Metals, 2020, 10, 1618. | 1.0 | 6 |
| 41 | Room and High Temperature Tribological Performance of Multilayered TiSiN/TiN and TiSiN/TiN(Ag) Coatings Deposited by Sputtering. Coatings, 2020, 10, 1191. | 1.2 | 13 |
| 42 | Synthesis, microstructure and mechanical properties of Wâ€“Sâ€“C self-lubricant thin films deposited by magnetron sputtering. Tribology International, 2020, 150, 106363. | 3.0 | 16 |
| 43 | Influence of Ag alloying on the morphology, structure, mechanical properties, thermal stability and oxidation resistance of multilayered TiSiN/Ti(Ag)N films. Materials and Design, 2020, 192, 108703. | 3.3 | 20 |
| 44 | Antibacterial Effects of Bimetallic Clusters Incorporated in Amorphous Carbon for Stent Application. ACS Applied Materials & Interfaces, 2020, 12, 24555-24563. | 4.0 | 20 |
| 45 | Synthesis and structural properties of Mo-S-N sputtered coatings. Applied Surface Science, 2020, 527, 146790. | 3.1 | 18 |
| 46 | Synthesis, Microstructural, and Mechano-Tribological Properties of Self-Lubricating W-S-C(H) Thin Films Deposited by Different RF Magnetron Sputtering Procedures. Coatings, 2020, 10, 272. | 1.2 | 12 |
| 47 | Low peak power deposition regime in HiPIMS: Deposition of hard and dense nanocomposite Ti-Si-N films by DOMS without the need of energetic bombardment. Surface and Coatings Technology, 2020, 397, 125996. | 2.2 | 16 |
| 48 | Comparative Study of DC and RF Sputtered MoSe2 Coatings Containing Carbonâ€"An Approach to Optimize Stoichiometry, Microstructure, Crystallinity and Hardness. Coatings, 2020, 10, 133. | 1.2 | 17 |
| 49 | The effect of substrate location on the composition, microstructure and mechano-tribological properties of W-S-C coatings deposited by magnetron sputtering. Surface and Coatings Technology, 2020, 386, 125481. | 2.2 | 14 |
| 50 | Tribological and milling performance of NbCâ€“Ni films deposited by sputtering with different Ni contents. Tribology International, 2020, 147, 106281. | 3.0 | 6 |
| 51 | Au-WO3 Nanocomposite Coatings for Localized Surface Plasmon Resonance Sensing. Materials, 2020, 13, 246. | 1.3 | 12 |
| 52 | Nanocomposite Au-ZnO thin films: Influence of gold concentration and thermal annealing on the microstructure and plasmonic response. Surface and Coatings Technology, 2020, 385, 125379. | 2.2 | 8 |
| 53 | Room and High Temperature Tribological Behaviour of W-DLC Coatings Produced by DCMS and Hybrid DCMS-HiPIMS Configuration. Coatings, 2020, 10, 319. | 1.2 | 38 |
| 54 | Influence of laser structural patterning on the tribological performance of C-alloyed W-S coatings. Surface and Coatings Technology, 2020, 394, 125822. | 2.2 | 9 |

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| 55 | Tribological performance of hybrid surfaces: dimple-shaped anodized Al alloy surfaces coated with WS-CF sputtered thin films. International Journal of Advanced Manufacturing Technology, 2020, 107, 3931-3941. | 1.5 | 7 |
| 56 | Influence of base pressure prior to deposition on the adhesion behaviour of carbon thin films on steel. Applied Surface Science Advances, 2020, 2, 100034. | 2.9 | 11 |
| 57 | Molybdenum diselenide coatings as universal dry lubricants for terrestrial and aerospace applications. Materials Letters, 2020, 275, 128035. | 1.3 | 15 |
| 58 | Synthesis, microstructural and mechanical properties of self-lubricating Mo-Se-C coatings deposited by closed-field unbalanced magnetron sputtering. Surface and Coatings Technology, 2020, 394, 125889. | 2.2 | 11 |
| 59 | Insights into the wear track evolution with sliding cycles of carbon-alloyed transition metal dichalcogenide coatings. Surface and Coatings Technology, 2020, 403, 126360. | 2.2 | 9 |
| 60 | Oxidation behaviour of TiSiN(Ag) films deposited by high power impulse magnetron sputtering. Thin Solid Films, 2019, 688, 137423. | 0.8 | 15 |
| 61 | Fe based (W,Ti)C EAS and WC-12Co HVOF sprayed coatings: microstructure, mechanical properties and micro-scale abrasion performance. Materials Research Express, 2019, 6, 096580. | 0.8 | 2 |
| 62 | Diamond-like carbon coatings deposited by deep oscillation magnetron sputtering in Ar-Ne discharges. Diamond and Related Materials, 2019, 98, 107521. | 1.8 | 22 |
| 63 | The wettability and tribological behaviour of thin F-doped WS2 films deposited by magnetron sputtering. Surface and Coatings Technology, 2019, 378, 125033. | 2.2 | 9 |
| 64 | Electrochemical Corrosion of Nano-Structured Magnetron-Sputtered Coatings. Coatings, 2019, 9, 682. | 1.2 | 21 |
| 65 | DCMS Mo-Se-C solid lubricant coatings â€“ Synthesis, structural, mechanical and tribological property investigation. Surface and Coatings Technology, 2019, 378, 124992. | 2.2 | 14 |
| 66 | TiSiN(Ag) films deposited by HiPIMS working in DOMS mode: Effect of Ag content on structure, mechanical properties and thermal stability. Applied Surface Science, 2019, 478, 426-434. | 3.1 | 24 |
| 67 | An experimental and theoretical study on the crystal structure and elastic properties of Ta1â^'xOx coatings. Surface and Coatings Technology, 2019, 364, 289-297. | 2.2 | 1 |
| 68 | Ag release from sputtered Ag/a:C nanocomposite films after immersion in pure water and NaCl solution. Thin Solid Films, 2019, 671, 85-94. | 0.8 | 15 |
| 69 | Influence of Ag additions on the structure, mechanical properties and oxidation behaviour of Cr-O coatings deposited by HiPIMS. Surface and Coatings Technology, 2018, 339, 167-180. | 2.2 | 15 |
| 70 | Production of Au clusters by plasma gas condensation and their incorporation in oxide matrixes by sputtering. Applied Surface Science, 2018, 440, 144-152. | 3.1 | 5 |
| 71 | Fluorine-carbon doping of WS-based coatings deposited by reactive magnetron sputtering for low friction purposes. Applied Surface Science, 2018, 445, 575-585. | 3.1 | 15 |
| 72 | Reduced atomic shadowing in HiPIMS: Role of the thermalized metal ions. Applied Surface Science, 2018, 433, 934-944. | 3.1 | 27 |

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| 73 | On the role of the energetic species in TiN thin film growth by reactive deep oscillation magnetron sputtering in Ar/N2. Thin Solid Films, 2018, 645, 253-264. | 0.8 | 25 |
| 74 | Hard and dense diamond like carbon coatings deposited by deep oscillations magnetron sputtering. Surface and Coatings Technology, 2018, 336, 92-98. | 2.2 | 29 |
| 75 | Tribological and cutting performance of TiAlCrN films with different Cr contents deposited with multilayered structure. Tribology International, 2018, 119, 345-353. | 3.0 | 45 |
| 76 | Ex-vivo studies on friction behaviour of ureteral stent coated with Ag clusters incorporated in a:C matrix. Diamond and Related Materials, 2018, 86, 1-7. | 1.8 | 13 |
| 77 | NbC-Ni coatings deposited by DC reactive magnetron sputtering: Effect of Ni content on mechanical properties, thermal stability and oxidation resistance. Surface and Coatings Technology, 2018, 349, 1018-1031. | 2.2 | 7 |
| 78 | Influence of Cr additions on the structure and oxidation resistance of multilayered TiAlCrN films. Surface and Coatings Technology, 2017, 313, 158-167. | 2.2 | 60 |
| 79 | Grooved surface texturing by electrical discharge machining (EDM) under different lubrication regimes. Lubrication Science, 2017, 29, 493-501. | 0.9 | 19 |
| 80 | Local Response of Sialoliths to Lithotripsy: Cues on Fragmentation Outcome. Microscopy and Microanalysis, 2017, 23, 584-598. | 0.2 | 3 |
| 81 | Water and oil wettability of anodized 6016 aluminum alloy surface. Applied Surface Science, 2017, 422, 430-442. | 3.1 | 42 |
| 82 | Phase tailoring of tantalum thin films deposited in deep oscillation magnetron sputtering mode. Surface and Coatings Technology, 2017, 314, 97-104. | 2.2 | 27 |
| 83 | Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO<sub>2</sub> Matrix. Journal of Physical Chemistry C, 2016, 120, 16931-16945. | 1.5 | 31 |
| 84 | Additional control of bombardment by deep oscillation magnetron sputtering: Effect on the microstructure and topography of Cr thin films. Thin Solid Films, 2016, 619, 250-260. | 0.8 | 17 |
| 85 | Antibacterial Ag/a-C nanocomposite coatings: The influence of nano-galvanic a-C and Ag couples on Ag ionization rates. Applied Surface Science, 2016, 377, 283-291. | 3.1 | 55 |
| 86 | Nano-galvanic coupling for enhanced Ag+ release in ZrCN-Ag films: Antibacterial application. Surface and Coatings Technology, 2016, 298, 1-6. | 2.2 | 22 |
| 87 | Functional properties of ceramic-Ag nanocomposite coatings produced by magnetron sputtering. Progress in Materials Science, 2016, 84, 158-191. | 16.0 | 116 |
| 88 | Self-lubricating TiSi(V)N thin films deposited by deep oscillation magnetron sputtering (DOMS). Surface and Coatings Technology, 2016, 308, 256-263. | 2.2 | 22 |
| 89 | Influence of the silicon and oxygen content on the properties of non-hydrogenated amorphous carbon coatings. Diamond and Related Materials, 2016, 70, 201-210. | 1.8 | 35 |
| 90 | Optical and microstructural properties of Au alloyed Alâ€“O sputter deposited coatings. Thin Solid Films, 2016, 598, 65-71. | 0.8 | 7 |

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| 91 | Effect of Nb target power on the structure, mechanical properties, thermal stability and oxidation resistance of Crâ€“Alâ€“Nbâ€“N coatings. Surface and Coatings Technology, 2016, 285, 270-277. | 2.2 | 16 |
| 92 | Characterization of surface Ag nanoparticles in nanocomposite a-C:Ag coatings by grazing incidence X-ray diffraction at sub-critical angles of incidence. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 1.1 | 6 |
| 93 | CrN thin films deposited by HiPIMS in DOMS mode. Surface and Coatings Technology, 2016, 291, 365-375. | 2.2 | 64 |
| 94 | Bioactivity response of Ta 1-x O x coatings deposited by reactive DC magnetron sputtering. Materials Science and Engineering C, 2016, 58, 110-118. | 3.8 | 24 |
| 95 | Microstructural characterization of WC-AISI304 composites obtained by selective laser sintering. Microscopy and Microanalysis, 2015, 21, 104-105. | 0.2 | 1 |
| 96 | Influence of hydrogen incorporation and coating thickness on the corrosion resistance of carbon based coatings deposited by magnetron sputtering. Surface and Coatings Technology, 2015, 275, 127-132. | 2.2 | 6 |
| 97 | Tribological characterization of TiO 2 /Au decorative thin films obtained by PVD magnetron sputtering technology. Wear, 2015, 330-331, 419-428. | 1.5 | 13 |
| 98 | Effect of the substrate dilution on the room and high temperature tribological behaviour of Ni-based coatings deposited by PTA on grey cast iron. Surface and Coatings Technology, 2015, 281, 11-19. | 2.2 | 22 |
| 99 | Thin films composed of gold nanoparticles dispersed in a dielectric matrix: The influence of the host matrix on the optical and mechanical responses. Thin Solid Films, 2015, 596, 8-17. | 0.8 | 28 |
| 100 | Structure, mechanical and tribological properties of self-lubricant Wâ€“Sâ€“N coatings. Surface and Coatings Technology, 2015, 261, 7-14. | 2.2 | 47 |
| 101 | Large-area homogeneous periodic surface structures generated on the surface of sputtered boron carbide thin films by femtosecond laser processing. Applied Surface Science, 2015, 331, 161-169. | 3.1 | 5 |
| 102 | Tailoring the nanostructure of Tiâ€“Siâ€“N thin films by HiPIMS in deep oscillation magnetron sputtering (DOMS) mode. Surface and Coatings Technology, 2015, 264, 140-149. | 2.2 | 45 |
| 103 | Electrochemical response of ZrCN-Ag-a(C,N) coatings in simulated body fluids. Electrochimica Acta, 2015, 176, 898-906. | 2.6 | 13 |
| 104 | Oxidation and diffusion processes during annealing of TiSi(V)N films. Surface and Coatings Technology, 2015, 275, 120-126. | 2.2 | 24 |
| 105 | Electrochemical vs antibacterial characterization of ZrCNâ€“Ag coatings. Surface and Coatings Technology, 2015, 275, 357-362. | 2.2 | 7 |
| 106 | Chemical and structural characterization of ZrCNAg coatings: XPS, XRD and Raman spectroscopy. Applied Surface Science, 2015, 346, 240-247. | 3.1 | 61 |
| 107 | Microstructural evolution of Au/TiO2 nanocomposite films: The influence of Au concentration and thermal annealing. Thin Solid Films, 2015, 580, 77-88. | 0.8 | 43 |
| 108 | Niâ€“Ti(â€“Cu) shape memory alloy interlayers supporting low friction functional coatings. Tribology International, 2015, 88, 135-142. | 3.0 | 5 |

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| 109 | Tribological behavior of uncoated and DLC-coated CoCr and Ti-alloys in contact with UHMWPE and PEEK counterbodies. Tribology International, 2015, 89, 97-104. | 3.0 | 22 |
| 110 | Ag y :TiN x thin films for dry biopotential electrodes: the effect of composition and structural changes on the electrical and mechanical behaviours. Applied Physics A: Materials Science and Processing, 2015, 119, 169-178. | 1.1 | 2 |
| 111 | Structural and functional properties of nanocomposite Auâ€“WO3 coatings. Surface and Coatings Technology, 2015, 280, 201-207. | 2.2 | 6 |
| 112 | Thin films composed of Ag nanoclusters dispersed in TiO2: Influence of composition and thermal annealing on the microstructure and physical responses. Applied Surface Science, 2015, 358, 595-604. | 3.1 | 28 |
| 113 | A High-Resolution TEM/EELS Study of the Effect of Doping Elements on the Sliding Mechanisms of Sputtered WS2Coatings. Tribology Transactions, 2015, 58, 113-118. | 1.1 | 11 |
| 114 | Silver surface segregation in Ag-DLC nanocomposite coatings. Surface and Coatings Technology, 2015, 267, 90-97. | 2.2 | 42 |
| 115 | Structural and mechanical properties of nanocrystalline Zr co-sputtered a-C(:H) amorphous films. Applied Surface Science, 2015, 325, 64-72. | 3.1 | 24 |
| 116 | Tribological properties of self-lubricating TiSiVN coatings at room temperature. Surface and Coatings Technology, 2015, 267, 8-14. | 2.2 | 27 |
| 117 | Biotribological behavior of Agâ€“ZrCxN1âˆ’x coatings against UHMWPE for joint prostheses devices. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 83-91. | 1.5 | 7 |
| 118 | Evolution of the surface plasmon resonance of Au:TiO2 nanocomposite thin films with annealing temperature. Journal of Nanoparticle Research, 2014, 16, 1. | 0.8 | 27 |
| 119 | High temperature behavior of nanolayered CrAlTiN coating: Thermal stability, oxidation, and tribological properties. Surface and Coatings Technology, 2014, 257, 70-77. | 2.2 | 30 |
| 120 | DLC-W coatings tested in combustion engine â€” Frictional and wear analysis. Surface and Coatings Technology, 2014, 260, 284-289. | 2.2 | 34 |
| 121 | Tribological behaviour of W-alloyed carbon-based coatings in dry and lubricated sliding contact. Lubrication Science, 2014, 26, 428-439. | 0.9 | 11 |
| 122 | Optical properties and refractive index sensitivity of reactive sputtered oxide coatings with embedded Au clusters. Journal of Applied Physics, 2014, 115, 063512. | 1.1 | 19 |
| 123 | Effect of clustering on the surface plasmon band in thin films of metallic nanoparticles. Journal of Nanophotonics, 2014, 9, 093796. | 0.4 | 9 |
| 124 | Titanium Substrate Surfaces Coated with Hydroxyapatite by Magnetron Sputtering. Materials Science Forum, 2014, 798-799, 472-477. | 0.3 | 0 |
| 125 | Optical response of fractal aggregates of polarizable particles. , 2014, , . | | 0 |
| 126 | Structural and electrochemical characterization of Zrâ€“Câ€“Nâ€“Ag coatings deposited by DC dual magnetron sputtering. Corrosion Science, 2014, 80, 229-236. | 3.0 | 31 |

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| 127 | Structural, chemical, optical and mechanical properties of Au doped AlN sputtered coatings. Surface and Coatings Technology, 2014, 255, 130-139. | 2.2 | 9 |
| 128 | Ag:TiN nanocomposite thin films for bioelectrodes: The effect of annealing treatments on the electrical and mechanical behavior. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, . | 0.9 | 6 |
| 129 | Effect of rough surface patterning on the tribology of Wâ€“Sâ€“Câ€“Cr self-lubricant coatings. Tribology International, 2014, 69, 77-83. | 3.0 | 22 |
| 130 | The effect of increasing V content on the structure, mechanical properties and oxidation resistance of Tiâ€“Siâ€“Vâ€“N films deposited by DC reactive magnetron sputtering. Applied Surface Science, 2014, 289, 114-123. | 3.1 | 54 |
| 131 | Effect of peak target power on the properties of Cr thin films sputtered by HiPIMS in deep oscillation magnetron sputtering (DOMS) mode. Surface and Coatings Technology, 2014, 258, 249-256. | 2.2 | 63 |
| 132 | Production and Characterization of Ag Nanoclusters Produced by Plasma Gas Condensation. Plasma Processes and Polymers, 2014, 11, 629-638. | 1.6 | 18 |
| 133 | Influence of Zr alloying on the mechanical properties, thermal stability and oxidation resistance of Crâ€“Alâ€“N coatings. Applied Surface Science, 2014, 317, 269-277. | 3.1 | 33 |
| 134 | Sliding properties of Zr-DLC coatings: The effect of tribolayer formation. Surface and Coatings Technology, 2014, 258, 734-745. | 2.2 | 32 |
| 135 | Study of the effect of the silver content on the structural and mechanical behavior of Agâ€“ZrCN coatings for orthopedic prostheses. Materials Science and Engineering C, 2014, 42, 782-790. | 3.8 | 21 |
| 136 | Adsorption of bovine serum albumin on Zr co-sputtered a-C(:H) films: Implication on wear behaviour. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 316-327. | 1.5 | 19 |
| 137 | Sliding Properties of MoS<sub>2</sub> Layers: Load and Interlayer Orientation Effects. Journal of Physical Chemistry C, 2014, 118, 13809-13816. | 1.5 | 106 |
| 138 | Prediction of optimized composition for enhanced mechanical and electrochemical response of Zr-C-N-Ag coatings for medical devices. Applied Surface Science, 2014, 320, 570-580. | 3.1 | 11 |
| 139 | Frictional properties of self-adaptive chromium doped tungstenâ€“sulfurâ€“carbon coatings at nanoscale. Applied Surface Science, 2014, 303, 381-387. | 3.1 | 11 |
| 140 | Structure and ionic conductivity of reactively sputtered apatite-type lanthanum silicate thin films. Surface and Coatings Technology, 2014, 247, 14-19. | 2.2 | 7 |
| 141 | Novel two-step processing route combining mechanical alloying and microwave hybrid sintering to fabricate dense La9.33Si2Ge4O26 for SOFCs. Journal of Power Sources, 2013, 231, 146-152. | 4.0 | 21 |
| 142 | High temperature properties of the Cr Nb Al N coatings with increasing Al contents. Surface and Coatings Technology, 2013, 228, 187-194. | 2.2 | 17 |
| 143 | Influence of Al content on the mechanical properties and thermal stability in protective and oxidation atmospheres of Zrâ€“Crâ€“Alâ€“N coatings. Surface and Coatings Technology, 2013, 236, 239-245. | 2.2 | 19 |
| 144 | Ultra-low friction Wâ€“Sâ€“N solid lubricant coating. Surface and Coatings Technology, 2013, 232, 541-548. | 2.2 | 57 |

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| 145 | Modulated IR Radiometry Applied to Study $$ext{ TiO}_{2}$$ Coatings with Gold Nanocluster Inclusions. International Journal of Thermophysics, 2013, 34, 1597-1605. | 1.0 | 3 |
| 146 | a-C(:H) and a-C(:H)_Zr coatings deposited on biomedical Ti-based substrates: Tribological properties. Thin Solid Films, 2013, 538, 89-96. | 0.8 | 24 |
| 147 | Influence of Ag content on mechanical and tribological behavior of DLC coatings. Surface and Coatings Technology, 2013, 232, 440-446. | 2.2 | 98 |
| 148 | Ag+ release and corrosion behavior of zirconium carbonitride coatings with silver nanoparticles for biomedical devices. Surface and Coatings Technology, 2013, 222, 104-111. | 2.2 | 21 |
| 149 | Nanocrystalline Au:Ag:SnO2 films prepared by pulsed magnetron sputtering. Journal of Physics and Chemistry of Solids, 2013, 74, 825-829. | 1.9 | 14 |
| 150 | Influence of nanostructured ZrO2 additions on the wear resistance of Ni-based alloy coatings deposited by APS process. Wear, 2013, 303, 591-601. | 1.5 | 19 |
| 151 | Indentation and scratch testing of DLC-Zr coatings on ultrafine-grained titanium processed by high-pressure torsion. Wear, 2013, 306, 304-310. | 1.5 | 47 |
| 152 | Frictional behavior of self-adaptive nanostructural Moâ€"Seâ€"C coatings in different sliding conditions. Wear, 2013, 303, 286-296. | 1.5 | 33 |
| 153 | Ag<sup>+</sup>release inhibition from ZrCNâ€"Ag coatings by surface agglomeration mechanism: structural characterization. Journal Physics D: Applied Physics, 2013, 46, 325303. | 1.3 | 55 |
| 154 | TiO<sub>2</sub> coatings with Au nanoparticles analysed by photothermal IR radiometry. Journal Physics D: Applied Physics, 2012, 45, 105301. | 1.3 | 17 |
| 155 | Wear resistance of a nickel-based coating deposited by PTA on grey cast iron. International Journal of Surface Science and Engineering, 2012, 6, 201. | 0.4 | 6 |
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