

# J Muñoz-Saldaña

## List of Publications by Year in descending order

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Version: 2024-02-01

118  
papers

2,384  
citations

236612

25  
h-index

243296

44  
g-index

122  
all docs

122  
docs citations

122  
times ranked

2570  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                             | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Nanoscale reconstruction of surface crystallography from three-dimensional polarization distribution in ferroelectric barium titanate ceramics. <i>Applied Physics Letters</i> , 1999, 74, 233-235.                                 | 1.5 | 194       |
| 2  | High-resolution characterization of piezoelectric ceramics by ultrasonic scanning force microscopy techniques. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2621-2635.                                                     | 1.3 | 140       |
| 3  | Modeling and measurement of surface displacements in BaTiO <sub>3</sub> bulk material in piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2004, 96, 563-568.                                                     | 1.1 | 117       |
| 4  | TiCN/TiNbCN multilayer coatings with enhanced mechanical properties. <i>Applied Surface Science</i> , 2010, 256, 5898-5904.                                                                                                         | 3.1 | 101       |
| 5  | Stress induced movement of ferroelastic domain walls in BaTiO <sub>3</sub> single crystals evaluated by scanning force microscopy. <i>Surface Science</i> , 2001, 480, L402-L410.                                                   | 0.8 | 93        |
| 6  | Fracture toughness from submicron derived indentation cracks. <i>Applied Physics Letters</i> , 2004, 84, 3055-3057.                                                                                                                 | 1.5 | 79        |
| 7  | Mechanical properties and low-temperature aging of tetragonal zirconia polycrystals processed by hot isostatic pressing. <i>Journal of Materials Research</i> , 2003, 18, 2415-2426.                                                | 1.2 | 68        |
| 8  | Effect of applied bias voltage on corrosion-resistance for TiC <sub>1-x</sub> N <sub>x</sub> and Ti <sub>1-x</sub> Nb <sub>x</sub> C <sub>1-y</sub> N <sub>y</sub> coatings. <i>Applied Surface Science</i> , 2010, 256, 2876-2883. | 3.1 | 62        |
| 9  | Mechanical, tribological, and electrochemical behavior of Cr <sub>1-x</sub> Al <sub>x</sub> N coatings deposited by r.f. reactive magnetron co-sputtering method. <i>Applied Surface Science</i> , 2010, 256, 2380-2387.            | 3.1 | 58        |
| 10 | Corrosion study of Alumina/Yttria-Stabilized Zirconia (Al <sub>2</sub> O <sub>3</sub> /YSZ) nanostructured Thermal Barrier Coatings (TBC) exposed to high temperature treatment. <i>Corrosion Science</i> , 2009, 51, 2994-2999.    | 3.0 | 56        |
| 11 | Composition and mechanical properties of AlC, AlN and AlCN thin films obtained by r.f. magnetron sputtering. <i>Surface and Coatings Technology</i> , 2009, 203, 1904-1907.                                                         | 2.2 | 54        |
| 12 | Effect of ZnO content on the physical, mechanical and chemical properties of glass-ceramics in the CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> system. <i>Ceramics International</i> , 2020, 46, 4322-4328.                | 2.3 | 54        |
| 13 | Enhancement of mechanical and tribological properties in AISI D3 steel substrates by using a non-isostructural CrN/AlN multilayer coating. <i>Materials Chemistry and Physics</i> , 2011, 125, 576-586.                             | 2.0 | 52        |
| 14 | Synthesis, Characterization and In Vitro Study of Synthetic and Bovine-Derived Hydroxyapatite Ceramics: A Comparison. <i>Materials</i> , 2018, 11, 333.                                                                             | 1.3 | 52        |
| 15 | Domain rearrangement during nanoindentation in single-crystalline barium titanate measured by atomic force microscopy and piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2005, 86, 192903.                        | 1.5 | 47        |
| 16 | Comparative Study of Ferroelectric and Piezoelectric Properties of BNT-BKT-BT Ceramics near the Phase Transition Zone. <i>Materials</i> , 2018, 11, 361.                                                                            | 1.3 | 44        |
| 17 | Simulation of vibrational resonances of stiff AFM cantilevers by finite element methods. <i>New Journal of Physics</i> , 2009, 11, 083034.                                                                                          | 1.2 | 42        |
| 18 | Nanoindentation of BaTiO <sub>3</sub> : dislocation nucleation and mechanical twinning. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 085502.                                                                               | 1.3 | 34        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                                                                                                                          | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Study of volumetric energy density limitations on the IN718 mesostructure and microstructure in laser powder bed fusion process. <i>Journal of Manufacturing Processes</i> , 2021, 64, 1261-1272.                                                                                                                                                                                                                | 2.8 | 33        |
| 20 | Geometry and bluntness tip effects on elastic-plastic behaviour during nanoindentation of fused silica: experimental and FE simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 075006.                                                                                                                                                                                 | 0.8 | 31        |
| 21 | Inhibition of the two-photon absorption response exhibited by a bilayer TiO <sub>2</sub> film with embedded Au nanoparticles. <i>Optics Express</i> , 2010, 18, 16406.                                                                                                                                                                                                                                           | 1.7 | 30        |
| 22 | Experimental and computational study of the morphological evolution of intermetallic compound (Cu <sub>6</sub> Sn <sub>5</sub> ) layers at the Cu/Sn interface under isothermal soldering conditions. <i>Acta Materialia</i> , 2012, 60, 5125-5134.                                                                                                                                                              | 3.8 | 30        |
| 23 | Bismuth-based nanoparticles as the environmentally friendly replacement for lead-based piezoelectrics. <i>RSC Advances</i> , 2015, 5, 27295-27304.                                                                                                                                                                                                                                                               | 1.7 | 29        |
| 24 | Preparation of BaTiO <sub>3</sub> single crystals using the modified SiO <sub>2</sub> -exaggerated grain growth method. <i>Journal of the European Ceramic Society</i> , 2002, 22, 681-688.                                                                                                                                                                                                                      | 2.8 | 28        |
| 25 | Nanoindentation testing of SiO <sub>2</sub> -PMMA hybrid films on acrylic substrates with variable coupling agent content. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 312-318.                                                                                                                                                                                                                 | 1.1 | 28        |
| 26 | Ferroelectric properties of manganese doped (Bi <sub>1/2</sub> Na <sub>1/2</sub> )TiO <sub>3</sub> and (Bi <sub>1/2</sub> Na <sub>1/2</sub> )TiO <sub>3</sub> -BaTiO <sub>3</sub> epitaxial thin films. <i>Applied Surface Science</i> , 2015, 359, 923-930.                                                                                                                                                     | 3.1 | 27        |
| 27 | Microstructural analysis of Ta-containing NiCoCrAlY bond coats deposited by HVOF on different Ni-based superalloys. <i>Surface and Coatings Technology</i> , 2018, 354, 214-225.                                                                                                                                                                                                                                 | 2.2 | 26        |
| 28 | Mechanical and thermal properties of SiO <sub>2</sub> -PMMA monoliths. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3561-3566.                                                                                                                                                                                                                                                                          | 1.5 | 24        |
| 29 | Kinetic Study of the Competitive Growth Between $\hat{\Gamma}$ -Al <sub>2</sub> O <sub>3</sub> and $\hat{\Gamma}$ -Al <sub>2</sub> O <sub>3</sub> During the Early Stages of Oxidation of $\hat{\Gamma}$ -(Ni,Pt)Al Bond Coat Systems: Effects of Low Oxygen Partial Pressure and Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 726-738. | 1.1 | 24        |
| 30 | High-toughness/low-friction ductile epoxy coatings reinforced with carbon nanostructures. <i>Polymer Testing</i> , 2015, 47, 113-119.                                                                                                                                                                                                                                                                            | 2.3 | 24        |
| 31 | Bovine-derived hydroxyapatite coatings deposited by high-velocity oxygen-fuel and atmospheric plasma spray processes: A comparative study. <i>Surface and Coatings Technology</i> , 2020, 381, 125193.                                                                                                                                                                                                           | 2.2 | 24        |
| 32 | Indentation size effect in barium titanate with spherical tipped nanoindenters. <i>Applied Physics Letters</i> , 2006, 88, 091908.                                                                                                                                                                                                                                                                               | 1.5 | 22        |
| 33 | Effect of HVOF Processing Parameters on the Properties of NiCoCrAlY Coatings by Design of Experiments. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 950-961.                                                                                                                                                                                                                                           | 1.6 | 22        |
| 34 | High temperature interaction of volcanic ashes with 7YSZ TBC's produced by APS: Infiltration behavior and phase stability. <i>Surface and Coatings Technology</i> , 2019, 378, 124915.                                                                                                                                                                                                                           | 2.2 | 21        |
| 35 | Phosphate removal from aqueous solutions by heat treatment of eggshell and palm fiber. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104684.                                                                                                                                                                                                                                                   | 3.3 | 21        |
| 36 | Enhancement of surface mechanical properties by using TiN[BCN/BN] <sub>n</sub> /c-BN multilayer system. <i>Applied Surface Science</i> , 2010, 257, 1098-1104.                                                                                                                                                                                                                                                   | 3.1 | 20        |

| #  | ARTICLE                                                                                                                                                                                                                                 | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | A novel bismuth-based lead-free piezoelectric transducer immunosensor for carbaryl quantification. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 423-430.                                                                       | 4.0 | 19        |
| 38 | High ionic conductivity dysprosium and tantalum Co-doped bismuth oxide electrolyte for low-temperature SOFCs. <i>Ionics</i> , 2020, 26, 4579-4586.                                                                                      | 1.2 | 19        |
| 39 | Ferroelectric domains in coarse-grained lead zirconate titanate ceramics characterized by scanning force microscopy. <i>Journal of Materials Research</i> , 2003, 18, 1777-1786.                                                        | 1.2 | 18        |
| 40 | Influence of the N <sub>2</sub> partial pressure on the mechanical properties and tribological behavior of zirconium nitride deposited by reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2008, 202, 3653-3660. | 2.2 | 18        |
| 41 | Effects of VC additions on the mechanical properties of bimodal WC-Co HVOF thermal sprayed coatings measured by nanoindentation. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 48, 167-178.              | 1.7 | 18        |
| 42 | Optimization of Inconel 718 thick deposits by cold spray processing and annealing. <i>Surface and Coatings Technology</i> , 2019, 378, 124997.                                                                                          | 2.2 | 18        |
| 43 | Atomic force microscopy cantilever simulation by finite element methods for quantitative atomic force acoustic microscopy measurements. <i>Journal of Materials Research</i> , 2006, 21, 3072-3079.                                     | 1.2 | 16        |
| 44 | Determination of fracture toughness and energy dissipation of SiO <sub>2</sub> -poly(methyl metacrylate) hybrid films by nanoindentation. <i>Thin Solid Films</i> , 2011, 519, 5528-5534.                                               | 0.8 | 15        |
| 45 | First Stages of Oxidation of Pt-Modified Nickel Aluminide Bond Coat Systems at Low Oxygen Partial Pressure. <i>Oxidation of Metals</i> , 2012, 78, 269-284.                                                                             | 1.0 | 15        |
| 46 | Microstructure and mechanical properties of Al <sub>2</sub> O <sub>3</sub> -YSZ spherical polycrystalline composites. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1907-1916.                                             | 2.8 | 15        |
| 47 | Preferred Growth Orientation of Apatite Crystals on Biological Hydroxyapatite Enriched with Bioactive Glass: A Biomimetic Behavior. <i>Crystal Growth and Design</i> , 2019, 19, 5005-5018.                                             | 1.4 | 15        |
| 48 | Influence of HVOF parameters on HAp coating generation: An integrated approach using process maps. <i>Surface and Coatings Technology</i> , 2019, 358, 299-307.                                                                         | 2.2 | 15        |
| 49 | Creep behavior of polycrystalline and single crystal Ni-based superalloys coated with Ta-containing NiCoCrAlY by high-velocity oxy-fuel spraying. <i>Scripta Materialia</i> , 2020, 178, 522-526.                                       | 2.6 | 15        |
| 50 | Nanoindentation characterization of the micro-lamellar arrangement of black coral skeleton. <i>Journal of Structural Biology</i> , 2012, 177, 349-357.                                                                                  | 1.3 | 14        |
| 51 | Microstructure and lifetime of Hf or Zr doped sputtered NiAlCr bond coat/7YSZ EB-PVD TBC systems. <i>Surface and Coatings Technology</i> , 2018, 335, 41-51.                                                                            | 2.2 | 13        |
| 52 | Structure and mechanical properties of (Ti,Al)(B,N) coatings fabricated by reactive DC magnetron sputtering. <i>Vacuum</i> , 2004, 76, 161-164.                                                                                         | 1.6 | 12        |
| 53 | Indentation size effect in soft PZT ceramics with tetragonal structure close to the MPB. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 035407.                                                                                  | 1.3 | 12        |
| 54 | Hybrid natural-synthetic chitosan resin: thermal and mechanical behavior. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 259-273.                                                                                  | 1.9 | 12        |

| #  | ARTICLE                                                                                                                                                                                                                                          | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Microstructural evaluation and nanohardness of an AlCoCuCrFeNiTi high-entropy alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 634-641.                                                                     | 2.4 | 12        |
| 56 | Synthesis and mechanical characterization by nanoindentation of polycrystalline YAG with Eu and Nd additions. <i>Ceramics International</i> , 2013, 39, 3141-3149.                                                                               | 2.3 | 11        |
| 57 | Piezoelectric and ferroelectric response enhancement in multiferroic YCrO <sub>3</sub> films by reduction in thickness. <i>Materials Letters</i> , 2014, 114, 148-151.                                                                           | 1.3 | 11        |
| 58 | Isothermal phase transformations of bovine-derived hydroxyapatite/bioactive glass: A study by design of experiments. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1613-1624.                                                       | 2.8 | 11        |
| 59 | Hardness and wearing properties of SiO <sub>2</sub> /PMMA hybrid coatings reinforced with Al <sub>2</sub> O <sub>3</sub> nanowhiskers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4254-4259.               | 0.8 | 10        |
| 60 | Influence of bias voltage on the crystallographic orientation and morphology of sputter deposited yttria stabilized zirconia (YSZ) thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4288-4293.       | 0.8 | 10        |
| 61 | Preparation of neodymium-doped yttrium aluminum garnet powders and fibers. <i>Journal of Rare Earths</i> , 2008, 26, 670-673.                                                                                                                    | 2.5 | 10        |
| 62 | Effects of the Modification of Processing Parameters on Mechanical Properties of HVOF Cr <sub>2</sub> C <sub>3</sub> -25NiCr Coatings. <i>Journal of Thermal Spray Technology</i> , 2015, 24, 938-946.                                           | 1.6 | 10        |
| 63 | Electrochemical Corrosion of HVOF-Sprayed NiCoCrAlY Coatings in CO <sub>2</sub> -Saturated Brine. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 1330-1343.                                                                              | 1.6 | 10        |
| 64 | Unraveling the Ca-P species produced over the time during phosphorus removal from aqueous solution using biocomposite of eggshell-palm mesocarp fiber. <i>Chemosphere</i> , 2022, 287, 132333.                                                   | 4.2 | 10        |
| 65 | Nanoindentation of melt-extracted amorphous YAG and YAG:Eu, Nd micrometric fibers synthesized by the citrate precursor method. <i>Journal of the European Ceramic Society</i> , 2010, 30, 73-79.                                                 | 2.8 | 9         |
| 66 | Thermal Spray Deposition, Phase Stability and Mechanical Properties of La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /LaAlO <sub>3</sub> Coatings. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 1198-1206.                            | 1.6 | 9         |
| 67 | Determination of strontium and lanthanum zirconates in YPSZ/LSM mixtures for SOFC. <i>Journal of Power Sources</i> , 2008, 180, 209-214.                                                                                                         | 4.0 | 8         |
| 68 | Structural evolution of B <sub>2</sub> -NiAl synthesized by high-energy ball milling. <i>Journal of Materials Science</i> , 2013, 48, 265-272.                                                                                                   | 1.7 | 8         |
| 69 | Mechanosynthesis of LaMnO <sub>3</sub> from different manganese oxides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4054-4063.                                                                              | 0.8 | 7         |
| 70 | Synthesis of lanthanum aluminate by reverse chemical precipitation using pseudoboehmite as alumina precursor. <i>Applied Radiation and Isotopes</i> , 2016, 117, 96-99.                                                                          | 0.7 | 7         |
| 71 | Finite-Element Simulation of Cantilever Vibrations in Atomic Force Acoustic Microscopy. <i>Journal of Physics: Conference Series</i> , 2007, 61, 293-297.                                                                                        | 0.3 | 6         |
| 72 | Influence of substrate temperature and N <sub>2</sub> /Ar flow ratio on the stoichiometry, structure and hardness of TaN <sub>x</sub> coatings deposited by DC reactive sputtering. <i>Surface and Interface Analysis</i> , 2015, 47, 1015-1019. | 0.8 | 6         |

| #  | ARTICLE                                                                                                                                                                                                                                                             | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Influence of Oxidation Treatments and Surface Finishing on the Electrochemical Behavior of Ni-20Cr HVOF Coatings. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 6064-6074.                                                                    | 1.2 | 6         |
| 74 | Microstructural analysis after furnace cyclic testing of pre-oxidized ReneN5/(Ni,Pt)Al/7YSZ thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2020, 403, 126376.                                                                                   | 2.2 | 6         |
| 75 | In-vitro bioactivity and cytotoxicity of polarized (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> ceramics as a novel biomaterial for bone repair. <i>Materials Letters</i> , 2020, 275, 128078.                                                            | 1.3 | 6         |
| 76 | Structure and thermal stability of ball milled TiAlH powders. <i>Journal of Alloys and Compounds</i> , 2005, 388, 266-273.                                                                                                                                          | 2.8 | 5         |
| 77 | Preparation of Size Controlled Nanometric Spheres of Colloidal Silica for Synthetic Opal Manufacture. <i>Materials Science Forum</i> , 2006, 509, 187-192.                                                                                                          | 0.3 | 5         |
| 78 | The Effect of Different SO <sub>2</sub> /SO <sub>3</sub> Catalytic Media on High-Temperature Corrosion Processes (Hot) Tj ETQq0 0 0 rgBT //Overlock 10 Tf 50 5                                                                                                      | 1.0 | 5         |
| 79 | Study of the Isothermal Oxidation Process and Phase Transformations in B2-(Ni,Pt)Al/RENE-N5 System. <i>Metals</i> , 2016, 6, 208.                                                                                                                                   | 1.0 | 5         |
| 80 | Effect of grit-blasting on the competitive growth between $\hat{1}$ -Al <sub>2</sub> O <sub>3</sub> and $\hat{1}\pm$ -Al <sub>2</sub> O <sub>3</sub> during the oxidation of $\hat{1}2$ -(Ni,Pt)Al bond coat systems. <i>Materials Letters</i> , 2020, 277, 128288. | 1.3 | 5         |
| 81 | Apatite Mineralization Process from Silicocarnotite Bioceramics: Mechanism of Crystal Growth and Maturation. <i>Crystal Growth and Design</i> , 2020, 20, 4030-4045.                                                                                                | 1.4 | 5         |
| 82 | Statistical characterization of the lapping plate surface morphology evolution in a diamond charging process. <i>Measurement Science and Technology</i> , 2008, 19, 065706.                                                                                         | 1.4 | 4         |
| 83 | Mechanosynthesis and reactive sintering of Ba <sub>x</sub> Sr <sub>x</sub> TiO <sub>3</sub> ceramics. <i>Materials Research Innovations</i> , 2009, 13, 368-371.                                                                                                    | 1.0 | 4         |
| 84 | Corrosion Performance of AISI 304 Stainless Steel in CO <sub>2</sub> -Saturated Brine Solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 1226-1235.                                                                               | 0.3 | 4         |
| 85 | Reaction Products from High Temperature Treatments of (LaxGd <sub>1-x</sub> ) <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> System and Volcanic Ash Powder Mixtures. <i>Jom</i> , 2022, 74, 2791-2808.                                                                | 0.9 | 4         |
| 86 | Nanoindentation and structural characterization of molded starch. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4242-4247.                                                                                                       | 0.8 | 3         |
| 87 | Relationship Between Crystalline Structure and Hardness of Ti-Si-N-O Coatings Fabricated by dc Sputtering. <i>Journal of Materials Engineering and Performance</i> , 2008, 17, 580-585.                                                                             | 1.2 | 3         |
| 88 | Correlation between optical characterization of the plasma in reactive magnetron sputtering deposition of ZrN on SS 316L and surface and mechanical properties of the deposited films. <i>Applied Surface Science</i> , 2008, 254, 4632-4637.                       | 3.1 | 3         |
| 89 | PZT ferroelectric ceramics obtained by sol-gel method using 2-metoxxyethanol route for pyroelectric sensors. <i>Materials Research Innovations</i> , 2009, 13, 375-378.                                                                                             | 1.0 | 3         |
| 90 | Piezoresponse Force Microscopy Studies of pc-BiFeO <sub>3</sub> Thin Films Produced by the Simultaneous Laser Ablation of Bi and FeO <sub>3</sub> . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1477, 52.                                        | 0.1 | 3         |

| #   | ARTICLE                                                                                                                                                                                                                                                                                                          | IF  | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Following the Integration of Diamond Particles on the Lapping-Plate Surface: Towards a More Efficient Charging Process. <i>Journal of Tribology</i> , 2012, 134, .                                                                                                                                               | 1.0 | 3         |
| 92  | Thermal Characterization of PZT Ceramics Obtained by Mechanically Activated Mixed Oxides Using Different Pb Sources. <i>International Journal of Thermophysics</i> , 2012, 33, 2366-2376.                                                                                                                        | 1.0 | 3         |
| 93  | Nanohardness and Microstructure of NiCoAlFeCu and NiCoAlFeCuCr Alloys Produced by Mechanical Alloying. <i>Microscopy and Microanalysis</i> , 2014, 20, 2106-2107.                                                                                                                                                | 0.2 | 3         |
| 94  | Bi <sub>4</sub> Si <sub>3</sub> O <sub>12</sub> thin films for scintillator applications. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.                                                                                                                                             | 1.1 | 3         |
| 95  | Effect of HVOF Process Parameters on TiO <sub>2</sub> Coatings: An Approach Using DoE and First-Order Process Maps. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 1160-1172.                                                                                                                            | 1.6 | 3         |
| 96  | Controlling micro-porous size in TiO <sub>2</sub> pellets processed by sol-gel and rapid liquid phase sintering. <i>Ceramics International</i> , 2019, 45, 14510-14516.                                                                                                                                          | 2.3 | 3         |
| 97  | Effect of pre-oxidation treatments on the structural, microstructural, and chemical properties of $\hat{I}^2$ -(Ni,Pt)Al system. <i>Surface and Coatings Technology</i> , 2019, 367, 156-164.                                                                                                                    | 2.2 | 3         |
| 98  | Manufacturing of Photoactive $\hat{I}^2$ -Bismuth Oxide by Flame Spray Oxidation. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 1107-1119.                                                                                                                                                              | 1.6 | 3         |
| 99  | Oxidation behavior of dense Yttrium doped B <sub>2</sub> -NiAl bulk material fabricated by ball milling self-propagating high-temperature synthesis and densified by spark plasma sintering. <i>Surface and Coatings Technology</i> , 2021, 421, 127448.                                                         | 2.2 | 3         |
| 100 | Eco-friendly materials obtained through a simple thermal transformation of water hyacinth ( <i>Eichhornia Crassipes</i> ) for the removal and immobilization of Cd <sup>2+</sup> and Cu <sup>2+</sup> from aqueous solutions. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100574. | 1.7 | 3         |
| 101 | Thermal Stability, Structure and Mechanical Properties of TiSiN Coatings Prepared by Reactive DC Magnetron Co-Sputtering. <i>Materials Science Forum</i> , 2006, 509, 93-98.                                                                                                                                     | 0.3 | 2         |
| 102 | Inter Laboratory Comparison and Analysis on Mechanical Properties by Nanoindentation. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1243, 1.                                                                                                                                                    | 0.1 | 2         |
| 103 | Surface texture and tetragonality of mechanically affected powders and sintered ceramics of BaTiO <sub>3</sub> . <i>Materials Research Innovations</i> , 2009, 13, 391-395.                                                                                                                                      | 1.0 | 2         |
| 104 | Swirling Effects in Atmospheric Plasma Spraying Process: Experiments and Simulation. <i>Coatings</i> , 2020, 10, 388.                                                                                                                                                                                            | 1.2 | 2         |
| 105 | Accelerated bioactive behavior of Nagelschmidtite bioceramics: Mimicking the nano and microstructural aspects of biological mineralization. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7921-7934.                                                                                                | 2.8 | 2         |
| 106 | Estimate of the Crystallization Kinetics in Stoichiometry Compositions Films of Ge:Sb:Te. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2012, 02, 44-46.                                                                                                                              | 0.2 | 2         |
| 107 | Visible-light photoactive thermally sprayed coatings deposited from spray-dried (Na <sub>0.5</sub> Bi <sub>0.5</sub> )TiO <sub>3</sub> microspheres. <i>Surface and Coatings Technology</i> , 2021, 427, 127851.                                                                                                 | 2.2 | 2         |
| 108 | Mechanical characterization of thin amorphous tungsten-carbon (W <sub>x</sub> C <sub>y</sub> ) films prepared by DC-cosputtering. <i>Vacuum</i> , 2004, 76, 173-176.                                                                                                                                             | 1.6 | 1         |

| #   | ARTICLE                                                                                                                                                                                                                                                   | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | PIEZORESPONSE FORCE MICROSCOPY STUDIES ON (100), (110) AND (111) EPITAXIALLY GROWN BiFeO <sub>3</sub> THIN FILMS. Materials Research Society Symposia Proceedings, 2012, 1477, 7.                                                                         | 0.1 | 1         |
| 110 | Biomimetic titania/hydroxyapatite coating of CrCoMo microimplants enhances biocompatibility and reduces metal-associated toxicity. Toxicology Letters, 2016, 259, S154.                                                                                   | 0.4 | 1         |
| 111 | Characterization of mechanical properties and electrochemical behaviour in a Hank's solution of 316L/Cr <sub>1-x</sub> Al <sub>x</sub> N system. Journal of Physics: Conference Series, 2017, 786, 012037.                                                | 0.3 | 1         |
| 112 | Synthesis and characterization of 50-50 wt. lanthanum aluminate-lanthanum zirconate composite dried by spray-drying. MRS Advances, 2020, 5, 2173-2179.                                                                                                    | 0.5 | 1         |
| 113 | Microstructural Analysis of TiAl <sub>x</sub> NyO <sub>z</sub> Coatings Fabricated by DC Reactive Sputtering. Journal of Materials Engineering and Performance, 2009, 18, 102-105.                                                                        | 1.2 | 0         |
| 114 | Effect of Surface Substrate Roughness and of Chelating Agent on the Microstructure and Mechanical Properties of Electroless Processed Brass Coatings. Industrial & Engineering Chemistry Research, 2010, 49, 6388-6393.                                   | 1.8 | 0         |
| 115 | Biocompatibility evaluation of hydroxyapatite coatings for prosthetic applications. Toxicology Letters, 2015, 238, S94.                                                                                                                                   | 0.4 | 0         |
| 116 | Solid state synthesis of Bi <sub>0.4</sub> Sr <sub>0.6</sub> FeO <sub>3</sub> powder for SOFC applications. Hyperfine Interactions, 2017, 238, 1.                                                                                                         | 0.2 | 0         |
| 117 | Estructuras Porosas de TiO <sub>2</sub> -Na <sub>0.8</sub> Ti <sub>4</sub> O <sub>8</sub> -Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> : Propiedades Superficiales y Evaluación Citotóxica. Informacion Tecnologica (discontinued), 2018, 29, 95-102. | 0.1 | 0         |
| 118 | Tribological behavior of multiphase super hard boron nitride films deposited by HiPIMS. Materials Letters, 2022, 318, 132167.                                                                                                                             | 1.3 | 0         |