

# Juan Manuel Alvarado-Orozco

## List of Publications by Year in descending order

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31  
papers

368  
citations

758635

12  
h-index

887659

17  
g-index

31  
all docs

31  
docs citations

31  
times ranked

411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Characterization and In Vitro Study of Synthetic and Bovine-Derived Hydroxyapatite Ceramics: A Comparison. <i>Materials</i> , 2018, 11, 333.	1.3	52
2	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
3	Hot corrosion and thermal shock resistance of Dense-CYSZ/YSZ bilayer thermal barrier coatings systems applied onto Ni-base superalloy. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5692-5703.	2.8	30
4	Additive Manufacturing of Nickel-Based Superalloys. , 2018, , .		28
5	Synergistic effect of plasma nitriding and bias voltage on the adhesion of diamond-like carbon coatings on M2 steel by PECVD. <i>Surface and Coatings Technology</i> , 2019, 374, 327-337.	2.2	25
6	Optimization of Inconel 718 thick deposits by cold spray processing and annealing. <i>Surface and Coatings Technology</i> , 2019, 378, 124997.	2.2	18
7	Effect of the parametric optimization and heat-treatment on the 18Ni-300 maraging steel microstructural properties manufactured by directed energy deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 3999-4020.	1.5	16
8	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
9	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
10	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
11	Surface modification and tribological behavior of plasma nitrided Inconel 718 manufactured via direct melting laser sintering method. <i>Surface and Coatings Technology</i> , 2020, 387, 125526.	2.2	15
12	Hot corrosion behavior of dense CYSZ/YSZ bilayer coatings deposited by atmospheric plasma spray in Na <sub>2</sub> SO <sub>4</sub> +V <sub>2</sub> O <sub>5</sub> molten salts. <i>Surface and Coatings Technology</i> , 2022, 432, 128066.	2.2	15
13	Selective laser melting of metal matrix composites: Feedstock powder preparation by electroless plating. <i>Materials Letters</i> , 2019, 247, 115-118.	1.3	12
14	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
15	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
16	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
17	Hot corrosion mechanism of yttria-stabilized zirconia powder in the presence of molten Na <sub>2</sub> SO <sub>4</sub> +V <sub>2</sub> O <sub>5</sub> salts. <i>Rare Metals</i> , 2021, 40, 1307-1316.	3.6	6
18	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

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19	Effect of thermal treatments in high purity Ar on the oxidation and tribological behavior of arc-PVD c-Al <sub>0.66</sub> Ti <sub>0.33</sub> N coatings. <i>Surface and Coatings Technology</i> , 2019, 362, 44-56.	2.2	5
20	Effect of grit-blasting on 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 oxidation of $\hat{\Gamma}$ -(Ni,Pt)Al bond coat systems. <i>Materials Letters</i> , 2020, 277, 128288.	1.3	5
21	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
22	High-temperature tribology of Hf doped c-Al <sub>0.64</sub> Ti <sub>0.36</sub> N cathodic arc PVD coatings deposited on M2 tool steel. <i>Surface and Coatings Technology</i> , 2021, 422, 127516.	2.2	5
23	Effect of two viscosity models on lethality estimation in sterilization of liquid canned foods. <i>Food Science and Technology International</i> , 2016, 22, 496-515.	1.1	4
24	Nanohardness and Microstructure of NiCoAlFeCu and NiCoAlFeCuCr Alloys Produced by Mechanical Alloying. <i>Microscopy and Microanalysis</i> , 2014, 20, 2106-2107.	0.2	3
25	Effect of pre-oxidation treatments on the structural, microstructural, and chemical properties of $\hat{\Gamma}$ -(Ni,Pt)Al system. <i>Surface and Coatings Technology</i> , 2019, 367, 156-164.	2.2	3
26	Effect of the Average Energy on WC Grain Growth of WC-10Co-4Cr Composite by Laser Cladding. <i>Metals</i> , 2019, 9, 1245.	1.0	3
27	Influence of Heat Treatment on the Wear Behavior of a Haynes 282 <sup>®</sup> Nickel-Based Superalloy. <i>Journal of Tribology</i> , 2019, 141, .	1.0	3
28	Processing and characterization of Inconel 718/Al <sub>2</sub> O <sub>3</sub> nanocomposite powder fabricated by different techniques. <i>Powder Technology</i> , 2022, 398, 117124.	2.1	3
29	Influence of Alloy Composition and Exposure Conditions on the Selective Oxidation Behavior of Ni $\hat{\Gamma}$ Al Alloys. <i>Oxidation of Metals</i> , 2017, 88, 327-338.	1.0	2
30	Accelerated bioactive behavior of Nagelschmidite 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
31	Experimental measurement of the powder flow velocity in a three-port coaxial laser metal deposition nozzle by high-speed imaging. <i>Journal of Laser Applications</i> , 2021, 33, .	0.8	2