

# 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	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. Surface and Coatings Technology, 2022, 432, 128066.	2.2	15
2	Processing and characterization of Inconel 718/Al <sub>2</sub> O <sub>3</sub> nanocomposite powder fabricated by different techniques. Powder Technology, 2022, 398, 117124.	2.1	3
3	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. Rare Metals, 2021, 40, 1307-1316.	3.6	6
4	Study of volumetric energy density limitations on the IN718 mesostructure and microstructure in laser powder bed fusion process. Journal of Manufacturing Processes, 2021, 64, 1261-1272.	2.8	33
5	Effect of the parametric optimization and heat-treatment on the 18Ni-300 maraging steel microstructural properties manufactured by directed energy deposition. International Journal of Advanced Manufacturing Technology, 2021, 115, 3999-4020.	1.5	16
6	Accelerated bioactive behavior of Nagelschmidtite bioceramics: Mimicking the nano and microstructural aspects of biological mineralization. Journal of the European Ceramic Society, 2021, 41, 7921-7934.	2.8	2
7	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. Surface and Coatings Technology, 2021, 422, 127516.	2.2	5
8	Experimental measurement of the powder flow velocity in a three-port coaxial laser metal deposition nozzle by high-speed imaging. Journal of Laser Applications, 2021, 33, .	0.8	2
9	Microstructural analysis after furnace cyclic testing of pre-oxidized ReneN5/(Ni,Pt)Al/7YSZ thermal barrier coatings. Surface and Coatings Technology, 2020, 403, 126376.	2.2	6
10	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. Materials Letters, 2020, 275, 128078.	1.3	6
11	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. Materials Letters, 2020, 277, 128288.	1.3	5
12	Hot corrosion and thermal shock resistance of Dense-CYSZ/YSZ bilayer thermal barrier coatings systems applied onto Ni-base superalloy. Journal of the European Ceramic Society, 2020, 40, 5692-5703.	2.8	30
13	Surface modification and tribological behavior of plasma nitrided Inconel 718 manufactured via direct melting laser sintering method. Surface and Coatings Technology, 2020, 387, 125526.	2.2	15
14	Apatite Mineralization Process from Silicocarnotite Bioceramics: Mechanism of Crystal Growth and Maturation. Crystal Growth and Design, 2020, 20, 4030-4045.	1.4	5
15	Synergistic effect of plasma nitriding and bias voltage on the adhesion of diamond-like carbon coatings on M2 steel by PECVD. Surface and Coatings Technology, 2019, 374, 327-337.	2.2	25
16	Preferred Growth Orientation of Apatite Crystals on Biological Hydroxyapatite Enriched with Bioactive Glass: A Biomimetic Behavior. Crystal Growth and Design, 2019, 19, 5005-5018.	1.4	15
17	Optimization of Inconel 718 thick deposits by cold spray processing and annealing. Surface and Coatings Technology, 2019, 378, 124997.	2.2	18
18	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. Surface and Coatings Technology, 2019, 362, 44-56.	2.2	5

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19	Effect of pre-oxidation treatments on the structural, microstructural, and chemical properties of $\text{Ti}^{2-}(\text{Ni,Pt})\text{Al}$ system. <i>Surface and Coatings Technology</i> , 2019, 367, 156-164.	2.2	3
20	Selective laser melting of metal matrix composites: Feedstock powder preparation by electroless plating. <i>Materials Letters</i> , 2019, 247, 115-118.	1.3	12
21	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
22	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
23	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
24	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
25	Additive Manufacturing of Nickel-Based Superalloys. , 2018, , .		28
26	Synthesis, Characterization and In Vitro Study of Synthetic and Bovine-Derived Hydroxyapatite Ceramics: A Comparison. <i>Materials</i> , 2018, 11, 333.	1.3	52
27	Influence of Alloy Composition and Exposure Conditions on the Selective Oxidation Behavior of Ni $\epsilon$ -Al Alloys. <i>Oxidation of Metals</i> , 2017, 88, 327-338.	1.0	2
28	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
29	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
30	Nanohardness and Microstructure of NiCoAlFeCu and NiCoAlFeCuCr Alloys Produced by Mechanical Alloying. <i>Microscopy and Microanalysis</i> , 2014, 20, 2106-2107.	0.2	3
31	Microstructure and mechanical properties of $\text{Al}_2\text{O}_3\hat{\epsilon}\text{YSZ}$ spherical polycrystalline composites. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1907-1916.	2.8	15