

Oscar Marcelo Suarez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

524
citations

9
h-index

22
g-index

56
ext. papers

591
ext. citations

2.5
avg, IF

3.74
L-index

#	Paper	IF	Citations
50	Morphological and Structural Characterization of Magnetron-Sputtered Aluminum and Aluminum-Boron Thin Films. <i>Crystals</i> , 2021 , 11, 492	2.3	
49	Study of the Effect of the A206/1.0 wt. % Al ₂ O ₃ Nanocomposites Content on the Portevin-Le Chatelier Phenomenon in Al/0.5 wt. % Mg Alloys. <i>Journal of Composites Science</i> , 2021 , 5, 163	3	1
48	Effect of Ce Content on Properties of Al-Ce-Based Composites by Powder-in-Tube Method. <i>Journal of Composites Science</i> , 2021 , 5, 255	3	
47	Nanomechanical properties of thin films manufactured via magnetron sputtering from pure aluminum and aluminum-boron targets. <i>Thin Solid Films</i> , 2020 , 693, 137670	2.2	9
46	Al/Niobium Diboride Nanocomposite Effect on the Portevin-Le Chatelier Phenomenon in Al-Mg Alloys. <i>Journal of Composites Science</i> , 2019 , 3, 70	3	1
45	Tortuosity Index Based on Dynamic Mechanical Properties of Polyimide Foam for Aerospace Applications. <i>Materials</i> , 2019 , 12,	3.5	9
44	Design and characterization of concrete masonry parts and structural concrete using repurposed plastics as aggregate. <i>Journal of the Mechanical Behavior of Materials</i> , 2019 , 28, 81-88	1.9	2
43	Bio-Composites Reinforced with Strontium Titanate Nanoparticles: Mechanical Behavior and Degradability. <i>Journal of Composites Science</i> , 2019 , 3, 7	3	3
42	Impact of Materials Science and Engineering Clubs on Student perceptions and aspirations towards STEM. <i>MRS Advances</i> , 2019 , 4, 1087-1100	0.7	
41	Sintered TiO ₂ /recycled glass composites designed for the potential degradation of waterborne pollutants. <i>Science and Engineering of Composite Materials</i> , 2018 , 25, 403-415	1.5	
40	Optimal Cement Mixtures Containing Mineral Admixtures under Multiple and Conflicting Criteria. <i>Advances in Civil Engineering</i> , 2018 , 2018, 1-10	1.3	
39	Fabrication of a Porous Metal via Selective Phase Dissolution in Al-Cu Alloys. <i>Metals</i> , 2018 , 8, 378	2.3	3
38	Strengthening of Aluminum Wires Treated with A206/Alumina Nanocomposites. <i>Materials</i> , 2018 , 11,	3.5	6
37	Study of Aluminum Wires Treated with MoB ₂ Nanoparticles. <i>Journal of Composites Science</i> , 2018 , 2, 50	3	2
36	Study of Thermomechanical Properties of an Al-Zn-Based Composite Reinforced with Dodecaboride Particles. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-8	1.5	1
35	Degradation of atrazine with titanium dioxide immobilised in compact recycled glass. <i>Journal of Environmental Engineering and Science</i> , 2017 , 12, 79-85	0.8	1
34	Study of electrical properties of biocomposites containing ferroelectric nanoparticles. <i>Journal of Composite Materials</i> , 2017 , 51, 1979-1985	2.7	2

33	Compatibility analysis between Portland cement type I and micro/nano-SiO ₂ in the presence of polycarboxylate-type superplasticizers. <i>Cogent Engineering</i> , 2016 , 3, 1260952	1.5	3
32	Effect of fly ash and nanosilica on compressive strength of concrete at early age. <i>Advances in Applied Ceramics</i> , 2015 , 114, 99-106	2.3	13
31	Fabrication of aluminum wires treated with nanocomposite pellets. <i>Science and Engineering of Composite Materials</i> , 2015 , 22,	1.5	7
30	Strengthening of Al and Al-Mg alloy wires by melt inoculation with Al/MgB ₂ nanocomposite. <i>Journal of the Mechanical Behavior of Materials</i> , 2015 , 24, 207-212	1.9	5
29	Effects of AlB ₂ Particles and Zinc on the Absorbed Impact Energy of Gravity Cast Aluminum Matrix Composites. <i>Jom</i> , 2014 , 66, 926-934	2.1	3
28	Fabrication of Porous and Nanoporous Aluminum via Selective Dissolution of Al-Zn Alloys. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-6	1.5	8
27	A study on tribological characterization of Al-Cu-Mg-B composites subjected to mechanical wear. <i>Science and Engineering of Composite Materials</i> , 2014 , 21,	1.5	2
26	High-temperature mechanical behavior of Al-Cu matrix composites containing diboride particles. <i>Science and Engineering of Composite Materials</i> , 2014 , 21, 29-38	1.5	1
25	Weibull statistical analysis of splitting tensile strength of concretes containing class F fly ash, micro/nano-SiO ₂ . <i>Ceramics International</i> , 2014 , 40, 7373-7388	5.1	13
24	Rheological performance and compressive strength of superplasticized cementitious mixtures with micro/nano-SiO ₂ additions. <i>Construction and Building Materials</i> , 2013 , 41, 708-716	6.7	81
23	A comparative hardness study of Al-Si/AlB ₂ and Al-Si/AlB ₁₂ composites. <i>Science and Engineering of Composite Materials</i> , 2012 , 19,	1.5	5
22	Characterization of sputtered Al-B-Si thin films produced with composite targets for device applications. <i>Science and Engineering of Composite Materials</i> , 2012 , 19, 93-99	1.5	2
21	Study of Boride-Reinforced Aluminum Matrix Composites Produced via Centrifugal Casting. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 338-345	4.1	18
20	School-based Clubs as a Mechanism to Increase Student Interest in Materials Science Engineering and Nanotechnology among Underserved Groups. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1320, 1		1
19	Study of Casting Parameters and Magnesium Effects on the Distribution of Boride Particles during Centrifugal Casting of functionally graded Aluminum Matrix Composite. <i>Science and Engineering of Composite Materials</i> , 2010 , 17, 155-172	1.5	2
18	Fabrication of Functionally graded Al-Si Composites reinforced with Boride Particles. <i>Science and Engineering of Composite Materials</i> , 2010 , 17, 79-92	1.5	2
17	Fabrication and Characterization of Squeezed Cast Aluminum Matrix Composites Containing Boride Reinforcements. <i>Journal of Materials Engineering and Performance</i> , 2010 , 19, 1370-1379	1.6	2
16	Study of particle-matrix interaction in Al/AlB ₂ composite via nanoindentation. <i>Materials Characterization</i> , 2010 , 61, 135-140	3.9	18

15	Effect of AlB2Mg interaction on the mechanical properties of Al-based composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2258-2264	5.3	6
14	Materials at the University of Puerto Rico-Mayagüez: A model for success. <i>Jom</i> , 2009 , 61, 22-25	2.1	1
13	Nanoindentation near the edge. <i>Journal of Materials Research</i> , 2009 , 24, 1016-1031	2.5	72
12	Microstructure and properties of functionally graded AlMgB composites fabricated by centrifugal casting. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1150-1158	8.4	65
11	Thermomechanical Effects on Aluminum Matrix Composites Reinforced with AlB2 Particles. <i>Journal of Composite Materials</i> , 2008 , 42, 2651-2672	2.7	6
10	Education and Outreach Program on Materials at the University of Puerto Rico - Mayaguez. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1105, 3021		
9	Effect of Hydrogen and Hold Time on the Lifetime of AF1410 Steel. <i>Journal of Aircraft</i> , 2007 , 44, 453-458	6	1
8	Raising awareness on materials recycling using undergraduate engineering research. <i>International Journal of Environment and Pollution</i> , 2007 , 31, 325	0.7	0
7	Wear resistance of a functionally-graded aluminum matrix composite. <i>Scripta Materialia</i> , 2006 , 55, 95-98	5.6	80
6	Corrosion Fatigue of High-Strength Aircraft Structural Alloys. <i>Journal of Aircraft</i> , 2006 , 43, 787-792	1.6	5
5	Functionally graded aluminum matrix composites produced by centrifugal casting. <i>Materials Characterization</i> , 2005 , 55, 167-171	3.9	47
4	Precipitation hardening of a novel aluminum matrix composite. <i>Materials Characterization</i> , 2002 , 49, 187-191	3.9	7
3	Discussion of the role of manganese and copper in the eutectoid transformation of spheroidal graphite cast iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2131-2133	2.3	3
2	A study of sulphur effect in high silicon ductile irons. <i>International Journal of Cast Metals Research</i> , 2000 , 13, 135-145	1	4
1	Impacting Students from Economically Disadvantaged Groups in an Engineering Career Pathway		1