

Oscar Marcelo Suarez

List of Publications by Year in descending order

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56
papers

654
citations

840585

11
h-index

580701

25
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all docs

56
docs citations

56
times ranked

661
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.2	109
2	Wear resistance of a functionally-graded aluminum matrix composite. <i>Scripta Materialia</i> , 2006, 55, 95-98.	2.6	86
3	Nanoindentation near the edge. <i>Journal of Materials Research</i> , 2009, 24, 1016-1031.	1.2	86
4	Microstructure and properties of functionally graded Al-Mg-B composites fabricated by centrifugal casting. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1150-1158.	3.8	76
5	Functionally graded aluminum matrix composites produced by centrifugal casting. <i>Materials Characterization</i> , 2005, 55, 167-171.	1.9	57
6	Study of Boride-Reinforced Aluminum Matrix Composites Produced via Centrifugal Casting. <i>Materials and Manufacturing Processes</i> , 2011, 26, 338-345.	2.7	25
7	Study of particle-matrix interaction in Al/AlB ₂ composite via nanoindentation. <i>Materials Characterization</i> , 2010, 61, 135-140.	1.9	19
8	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.	2.3	17
9	Tortuosity Index Based on Dynamic Mechanical Properties of Polyimide Foam for Aerospace Applications. <i>Materials</i> , 2019, 12, 1851.	1.3	16
10	Nanomechanical properties of thin films manufactured via magnetron sputtering from pure aluminum and aluminum-boron targets. <i>Thin Solid Films</i> , 2020, 693, 137670.	0.8	15
11	Effect of fly ash and nanosilica on compressive strength of concrete at early age. <i>Advances in Applied Ceramics</i> , 2015, 114, 99-106.	0.6	13
12	Precipitation hardening of a novel aluminum matrix composite. <i>Materials Characterization</i> , 2002, 49, 187-191.	1.9	10
13	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.	1.0	9
14	Corrosion Fatigue of High-Strength Aircraft Structural Alloys. <i>Journal of Aircraft</i> , 2006, 43, 787-792.	1.7	8
15	Strengthening of Aluminum Wires Treated with A206/Alumina Nanocomposites. <i>Materials</i> , 2018, 11, 413.	1.3	8
16	Thermomechanical Effects on Aluminum Matrix Composites Reinforced with AlB ₂ Particles. <i>Journal of Composite Materials</i> , 2008, 42, 2651-2672.	1.2	7
17	Effect of AlB ₂ -Mg 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.	2.6	7
18	Fabrication of aluminum wires treated with nanocomposite pellets. <i>Science and Engineering of Composite Materials</i> , 2015, 22, .	0.6	7

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19	Fabrication of a Porous Metal via Selective Phase Dissolution in Al-Cu Alloys. <i>Metals</i> , 2018, 8, 378.	1.0	7
20	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.	0.7	6
21	A study of sulphur effect in high silicon ductile irons. <i>International Journal of Cast Metals Research</i> , 2000, 13, 135-145.	0.5	5
22	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, .	0.6	5
23	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.	1.1	4
24	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, .	0.6	4
25	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.	0.9	4
26	Study of electrical properties of biocomposites containing ferroelectric nanoparticles. <i>Journal of Composite Materials</i> , 2017, 51, 1979-1985.	1.2	4
27	Bio-Composites Reinforced with Strontium Titanate Nanoparticles: Mechanical Behavior and Degradability. <i>Journal of Composites Science</i> , 2019, 3, 7.	1.4	4
28	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.	0.7	4
29	Fabrication and Characterization of Squeezed Cast Aluminum Matrix Composites Containing Boride Reinforcements. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 1370-1379.	1.2	3
30	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.	1.1	3
31	Study of Aluminum Wires Treated with MoB ₂ Nanoparticles. <i>Journal of Composites Science</i> , 2018, 2, 50.	1.4	3
32	Impacting Students from Economically Disadvantaged Groups in an Engineering Career Pathway. , 0, , .		3
33	Raising awareness on materials recycling using undergraduate engineering research. <i>International Journal of Environment and Pollution</i> , 2007, 31, 325.	0.2	2
34	Materials at the University of Puerto Rico-Mayagüez: A model for success. <i>Jom</i> , 2009, 61, 22-25.	0.9	2
35	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.	0.6	2
36	Fabrication of Functionally graded Al-Si Composites reinforced with Boride Particles. <i>Science and Engineering of Composite Materials</i> , 2010, 17, 79-92.	0.6	2

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37	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.	0.6	2
38	Effect of Hydrogen and Hold Time on the Lifetime of AF1410 Steel. <i>Journal of Aircraft</i> , 2007, 44, 453-458.	1.7	1
39	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.	0.1	1
40	High-temperature mechanical behavior of Al-Cu matrix composites containing diboride particles. <i>Science and Engineering of Composite Materials</i> , 2014, 21, 29-38.	0.6	1
41	Degradation of atrazine with titanium dioxide immobilised in compact recycled glass. <i>Journal of Environmental Engineering and Science</i> , 2017, 12, 79-85.	0.3	1
42	On the Mechanical and Dielectric Properties of Biocomposites Containing Strontium Titanate Particles. , 0, , .		1
43	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.	1.0	1
44	Al/Niobium Diboride Nanocomposite's Effect on the Portevin-Le Chatelier Phenomenon in Al-Mg Alloys. <i>Journal of Composites Science</i> , 2019, 3, 70.	1.4	1
45	Study of the Effect of the A206/1.0 wt. % $\text{I}^3\text{Al}_2\text{O}_3$ Nanocomposites Content on the Portevin-Le Chatelier Phenomenon in Al/0.5 wt. % Mg Alloys. <i>Journal of Composites Science</i> , 2021, 5, 163.	1.4	1
46	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.	1.4	1
47	Developing a Collaborative Undergraduate STEM Program in Resilient and Sustainable Infrastructure. , 0, , .		1
48	Education and Outreach Program on Materials at the University of Puerto Rico - Mayaguez. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1105, 3021.	0.1	0
49	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.	0.6	0
50	Optimal Cement Mixtures Containing Mineral Admixtures under Multiple and Conflicting Criteria. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-10.	0.4	0
51	Impact of Materials Science and Engineering Clubs on Student's perceptions and aspirations towards STEM. <i>MRS Advances</i> , 2019, 4, 1087-1100.	0.5	0
52	Success Expectations of Low-income Academically Talented Students in Engineering: A Preliminary Study at a Hispanic-serving Institution. , 0, , .		0
53	Morphological and Structural Characterization of Magnetron-Sputtered Aluminum and Aluminum-Boron Thin Films. <i>Crystals</i> , 2021, 11, 492.	1.0	0
54	Work in Progress: Impacting Engineering First-year Student Retention Through a Nonconventional Engineering Learning Community. , 0, , .		0

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55	A Successful Pre-college Nanotechnology Experience for Low-income Students (Evaluation). , 0, , .		0
56	Design and Assessment of Architecture/Engineering/Construction (AEC) Curricula for Resilient and Sustainable Infrastructure. , 0, , .		0