

Alexandre Velhinho

List of Publications by Year in descending order

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27
papers

872
citations

623188

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28
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docs citations

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times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Regio- and Chemoselective Reduction of Nitroarenes and Carbonyl Compounds over Recyclable Magnetic Ferrite γ -Nickel Nanoparticles (Fe ₃ O ₄ \cdot nNi) by Using Glycerol as a Hydrogen Source. <i>Chemistry - A European Journal</i> , 2012, 18, 12628-12632.	1.7	175
2	Functionally graded materials produced by friction stir processing. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1659-1668.	3.1	116
3	A facile synthesis of cysteine- γ -ferrite magnetic nanoparticles for application in multicomponent reactions—a sustainable protocol. <i>RSC Advances</i> , 2012, 2, 6144.	1.7	99
4	Wear characterization of functionally graded Al-SiC composite coatings produced by Friction Surfacing. <i>Materials & Design</i> , 2013, 52, 373-383.	5.1	96
5	Magnetically recyclable magnetite- γ -palladium (Nanocat-Fe γ -Pd) nanocatalyst for the Buchwald-Hartwig reaction. <i>Green Chemistry</i> , 2014, 16, 3494-3500.	4.6	70
6	Development of polymeric anepectic meshes: auxetic metamaterials with negative thermal expansion. <i>Smart Materials and Structures</i> , 2019, 28, 045010.	1.8	44
7	Nano-MgO-ZrO ₂ mixed metal oxides: characterization by SIMS and application in the reduction of carbonyl compounds and in multicomponent reactions. <i>RSC Advances</i> , 2013, 3, 3611.	1.7	38
8	Tribocorrosion Studies in Centrifugally Cast Al-Matrix SiCp-reinforced Functionally Graded Composites. <i>Materials Science Forum</i> , 2004, 455-456, 871-875.	0.3	28
9	Graphene oxide-reinforced aluminium-matrix nanostructured composites fabricated by accumulative roll bonding. <i>Composites Part B: Engineering</i> , 2019, 164, 265-271.	5.9	28
10	X-ray tomographic imaging of Al/SiCp functionally graded composites fabricated by centrifugal casting. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 295-302.	0.6	27
11	Al/SiCp Functionally Graded Metal-Matrix Composites Produced by Centrifugal Casting: Effect of Particle Grain Size on Reinforcement Distribution. <i>Materials Science Forum</i> , 2003, 423-425, 257-262.	0.3	26
12	Structural metamaterials with negative mechanical/thermomechanical indices: A review. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 801-808.	1.8	23
13	Bio-inspired production of chitosan/chitin films from liquid crystalline suspensions. <i>Carbohydrate Polymers</i> , 2017, 155, 372-381.	5.1	21
14	Corrosion behaviour of aluminium syntactic functionally graded composites. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 122.	0.1	20
15	A synthesis of copper based metal-organic framework for O-acetylation of alcohols. <i>Catalysis Communications</i> , 2014, 44, 24-28.	1.6	13
16	Anodization Mechanism on SiC Nanoparticle Reinforced Al Matrix Composites Produced by Power Metallurgy. <i>Materials</i> , 2014, 7, 8151-8167.	1.3	11
17	Longitudinal centrifugal casting of metal-matrix functionally graded composites: an assessment of modelling issues. <i>Journal of Materials Science</i> , 2011, 46, 3753-3765.	1.7	9
18	Evaluation of Al/SiC Wetting Characteristics in Functionally Graded Metal-Matrix Composites by Synchrotron Radiation Microtomography. <i>Materials Science Forum</i> , 2003, 423-425, 263-268.	0.3	8

#	ARTICLE	IF	CITATIONS
19	Assessment of Particle Clustering in MMCs by Quantitative Image Analysis. Materials Science Forum, 2006, 514-516, 779-783.	0.3	6
20	Microstructure Characterization of Aluminium Syntactic Functionally Graded Composites Containing Hollow Ceramic Microspheres Manufactured by Radial Centrifugal Casting. Materials Science Forum, 0, 587-588, 207-211.	0.3	4
21	Microstructural Study of Aluminium-Matrix Composites Reinforced with SiC. Key Engineering Materials, 2002, 230-232, 226-230.	0.4	3
22	Evaluation of SiC-Particle Connectivity in Functionally Graded Al/SiC Composites by Synchrotron Radiation Holographic Microtomography. Materials Science Forum, 2005, 492-493, 621-626.	0.3	3
23	Application of X-Ray Microtomography to the Microstructural Characterization of Al-Based Functionally Graded Materials. Advances in Science and Technology, 2006, 45, 1109.	0.2	2
24	Elastic Behaviour of Spherical Particles Reinforced Metal-Matrix Composites. Materials Science Forum, 0, 587-588, 202-206.	0.3	1
25	A theoretical approach to the elastic behaviour of compact and hollow spherical particles reinforced metal-matrix composites. International Journal of Materials Research, 2010, 101, 752-757.	0.1	1
26	Tomographic image analysis of reinforcement distribution in composites using a flexible and material-agnostic specialist-friendly computational environment. Materials Letters: X, 2020, 7, 100046.	0.3	0
27	Designing Structural Metamaterials. , 2022, 8, .		0