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List of Publications by Year
in descending order

25 papers	382 citations	687363 13 h-index	794594 19 g-index
25 all docs	25 docs citations	25 times ranked	324 citing authors

#	Article	IF	Citations
1	Environmental Impacts of Graphite Recycling from Spent Lithium-Ion Batteries Based on Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2021, 9, 14488-14501.	6.7	60
2	Use of decision tree models based on evolutionary algorithms for the morphological classification of reinforcing nano-particle aggregates. Computational Materials Science, 2014, 92, 102-113.	3.0	34
3	The Effect of the Preparation Method and the Dispersion and Aspect Ratio of CNTs on the Mechanical and Electrical Properties of Bio-Based Polyamide-4,10/CNT Nanocomposites. Polymers, 2019, 11, 2059.	4.5	30
4	Environmental Impact Analysis of Aprotic Liâ€“O₂ Batteries Based on Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2021, 9, 7139-7153.	6.7	27
5	Environmental Impacts of Aqueous Zinc Ion Batteries Based on Life Cycle Assessment. Advanced Sustainable Systems, 2022, 6, 2100308.	5.3	27
6	Film forming hybrid acrylic/ZnO latexes with excellent UV absorption capacity. Chemical Engineering Journal, 2015, 270, 300-308.	12.7	22
7	Ecodesign coupled with Life Cycle Assessment to reduce the environmental impacts of an industrial enzymatic cleaner. Sustainable Production and Consumption, 2022, 29, 718-729.	11.0	22
8	Influence of the processing parameters and composition on the thermal stability of PLA/nanoclay bioâ€nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	2.6	19
9	Methodology to classify the shape of reinforcement fillers: optimization, evaluation, comparison, and selection of models. Journal of Materials Science, 2017, 52, 569-580.	3.7	18
10	Highâ€Solidsâ€Content Hybrid Acrylic/CeO₂ Latexes with Encapsulated Morphology Assessed by 3Dâ€TEM. Macromolecular Chemistry and Physics, 2013, 214, 2157-2164.	2.2	17
11	Toward the minimization of fluorescence loss in hybrid cross-linked core-shell PS/QD/PMMA nanoparticles: Effect of the shell thickness. Chemical Engineering Journal, 2017, 313, 261-269.	12.7	15
12	Evolution of particle morphology during the synthesis of hybrid acrylic/CeO₂ nanocomposites by miniemulsion polymerization. Journal of Polymer Science Part A, 2015, 53, 792-799.	2.3	14
13	Environmental Impact Assessment of Na₃V₂(PO₄)₃ Cathode Production for Sodiumâ€Ion Batteries. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	14
14	Influence of Cryogenic Treatment on Wear Resistance and Microstructure of AISI A8 Tool Steel. Metals, 2018, 8, 1038.	2.3	13
15	Semi-automated quantification of the microstructure of PLA/clay nanocomposites to improve the prediction of the elastic modulus. Polymer Testing, 2018, 66, 280-291.	4.8	11
16	Use of support vector machines, neural networks and genetic algorithms to characterize rubber blends by means of the classification of the carbon black particles used as reinforcing agent. Soft Computing, 2019, 23, 6115-6124.	3.6	11
17	A methodology for finding the optimal iteration number of the SIRT algorithm for quantitative Electron Tomography. Ultramicroscopy, 2017, 173, 36-46.	1.9	8
18	Quantitative electron tomography of PLA/clay nanocomposites to understand the effect of the clays in the thermal stability. Journal of Applied Polymer Science, 2017, 134, .	2.6	8

#	Article	IF	Citations
19	A parameter for the assessment of the segmentation of TEM tomography reconstructed volumes based on mutual information. Micron, 2017, 103, 64-77.	2.2	4
20	Investigation on flame retardancy and rheological and thermomechanical characterisation of multiwall carbon nanotube reinforced nanocomposites. Plastics, Rubber and Composites, 2011, 40, 133-138.	2.0	3
21	Modeling of the Mechanical Properties of Carbon-Black Reinforced Rubber Blends by Machine Learning Techniques. Applied Mechanics and Materials, 0, 627, 97-100.	0.2	3
22	Mechanical Behavior of PLA/Clay Reinforced Nanocomposite Material Using FE Simulations: Comparison of an Idealized Volume against the Real Electron Tomography Volume. Advanced Materials Research, 0, 1139, 20-24.	0.3	1
23	Quantitative electron tomography of polylactic acid/clay nanocomposites for better comprehension of processingâ€“microstructureâ€“elastic modulus. Polymers and Polymer Composites, 2021, 29, 724-732.	1.9	1
24	Tensile strength prediction of rubber blends using linear regression techniques. , 2017, , .		0
25	Morphological classification of reinforcing nanoparticle aggregates: comparison between visual expert decision and machine learning techniques. , 2018, , .		0