

Análisis bibliográfico de los artículos con autoría española en materiales compuestos.

3^{er} trimestre de 2019

Prefacio

En su afán por divulgar el conocimiento en materiales compuestos generado en España y posibilitar el establecimiento de sinergias entre los distintos centros, y entre ellos y el tejido productivo, AEMAC hace un seguimiento de los artículos que se generan en revistas científicas y los condensa en estos informes periódicos.

El siguiente listado NO contiene todos los que se habrán generado. Ver los criterios de búsqueda al final de este documento. Este listado se ha generado a 10 de Octubre de 2019.

El listado de artículos sigue a los publicados en el [1T 2018](#), [2T y 3T 2018](#), [4T 2018](#) y [1T y 2T 2019](#).

Listado de artículos aparecidos el 3r trimestre de 2019

- Abbasi, H., Antunes, M., & Velasco, J. I. (2019). Enhancing the Electrical Conductivity of Polyetherimide-Based Foams by Simultaneously Increasing the Porosity and Graphene Nanoplatelets Dispersion. *Polymer Composites*, 40, E1416-E1425. doi:10.1002/pc.25029
- Acuna, P., Santiago-Calvo, M., Villafane, F., Rodriguez-Perez, M. A., Rosas, J., & Wang, D. Y. (2019). Impact of Expandable Graphite on Flame Retardancy and Mechanical Properties of Rigid Polyurethane Foam. *Polymer Composites*, 40, E1705-E1715. doi:10.1002/pc.25127
- Alonso, L., Navarro, C., & Garcia-Castillo, S. K. (2019). Experimental study of woven-laminates structures subjected to high-velocity impact. *Mechanics of Advanced Materials and Structures*, 26(12), 1001-1007. doi:10.1080/15376494.2018.1526354
- Baluch, A. H., Falco, O., Jimenez, J. L., Tijs, B., & Lopes, C. S. (2019). An efficient numerical approach to the prediction of laminate tolerance to Barely Visible Impact Damage. *Composite Structures*, 225. doi:10.1016/j.compstruct.2019.111017
- Battegazzore, D., Sattin, A., MasPOCH, M. L., & Frache, A. (2019). Mechanical and

Barrier Properties Enhancement in Film Extruded Bio-Polyamides With Modified Nanoclay. *Polymer Composites*, 40(7), 2617-2628.
doi:10.1002/pc.25056

Braun, M., & Ariza, M. P. (2019). New lattice models for dynamic fracture problems of anisotropic materials. *Composites Part B-Engineering*, 172, 760-768.
doi:10.1016/j.compositesb.2019.05.082

Caminero, M. A., Rodriguez, G. P., Chacon, J. M., & Garcia-Moreno, I. (2019). Tensile and flexural damage response of symmetric angle-ply carbon fiber-reinforced epoxy laminates: Non-linear response and effects of thickness and ply-stacking sequence. *Polymer Composites*, 40(9), 3678-3690.
doi:10.1002/pc.25230

Carreras, L., Turon, A., Bak, B. L. V., Lindgaard, E., Renart, J., de la Escalera, F. M., & Essa, Y. (2019). A simulation method for fatigue-driven delamination in layered structures involving non-negligible fracture process zones and arbitrarily shaped crack fronts. *Composites Part a-Applied Science and Manufacturing*, 122, 107-119. doi:10.1016/j.compositesa.2019.04.026

Cepero, F., Garcia, I. G., Justo, J., Mantic, V., & Paris, F. (2019). An experimental study of the translaminar fracture toughnesses in composites for different crack growth directions, parallel and transverse to the fiber direction. *Composites Science and Technology*, 181.
doi:10.1016/j.compscitech.2019.107679

Chacon, J. M., Caminero, M. A., Nunez, P. J., Garcia-Plaza, E., Garcia-Moreno, I., & Reverte, J. M. (2019). Additive manufacturing of continuous fibre reinforced thermoplastic composites using fused deposition modelling: Effect of process parameters on mechanical properties. *Composites Science and Technology*, 181. doi:10.1016/j.compscitech.2019.107688

Cobo, P., de la Colina, C., Roibas-Millan, E., Chimeno, M., & Simon, F. (2019). A wideband triple-layer microperforated panel sound absorber. *Composite Structures*, 226. doi:10.1016/j.compstruct.2019.111226

Correial, L., Barris, C., Franca, P., & Sena-Cruz, J. (2019). Effect of Temperature on Bond Behavior of Externally Bonded FRP Laminates with Mechanical End Anchorage. *Journal of Composites for Construction*, 23(5).
doi:10.1061/(asce)cc.1943-5614.0000961

Cristelo, N., Coelho, J., Miranda, T., Palomo, A., & Fernandez-Jimenez, A. (2019). Alkali activated composites - An innovative concept using iron and steel slag as both precursor and aggregate. *Cement & Concrete Composites*, 103, 11-21. doi:10.1016/j.cemconcomp.2019.04.024

- Cruz-Gonzalez, O. L., Guinovart-Sanjuan, D., Rodriguez-Ramos, R., Bravo-Castillero, J., Guinovart-Diaz, R., Merodio, J., . . . Sabina, F. J. (2019). An approach for modeling non-ageing linear viscoelastic composites with general periodicity. *Composite Structures*, 223. doi:10.1016/j.compstruct.2019.110927
- da Silva, S. H. F., dos Santos, P. S. B., Gatto, D. A., Andres, M. A., & Egues, I. (2019). Liquefaction of Kraft Lignin at Atmospheric Pressure. *Journal of Renewable Materials*, 7(6), 527-534. doi:10.32604/jrm.2019.04291
- Dios, J. R., Garcia-Astrain, C., Goncalves, S., Costa, P., & Lanceros-Mendez, S. (2019). Piezoresistive performance of polymer-based materials as a function of the matrix and nanofiller content to walking detection application. *Composites Science and Technology*, 181. doi:10.1016/j.compscitech.2019.107678
- Espinos, A., Albero, V., Romero, M. L., Mund, M., Meyer, P., & Schaumann, P. (2019). Non-constant biaxial bending capacity assessment of CFST columns through interaction diagrams. *Steel and Composite Structures*, 32(4), 521-536. doi:10.12989/scs.2019.32.4.521
- Feito, N., Munoz-Sanchez, A., Diaz-Alvarez, A., & Miguelez, M. H. (2019). Multi-objective optimization analysis of cutting parameters when drilling composite materials with special geometry drills. *Composite Structures*, 225. doi:10.1016/j.compstruct.2019.111187
- Fernandez-Canadas, L. M., Ivanez, I., Sanchez-Saez, S., & Barbero, E. J. Effect of adhesive thickness and overlap on the behavior of composite single-lap joints. *Mechanics of Advanced Materials and Structures*. doi:10.1080/15376494.2019.1639086
- Ferreira, L. M., Gracian, E., & Paris, F. (2019). Predicting failure load of a non-crimp fabric composite by means of a 3D finite element model including progressive damage. *Composite Structures*, 225. doi:10.1016/j.compstruct.2019.111115
- Garcia-Guerrero, J. M., & Jorquera-Lucerga, J. J. (2019). Influence of stiffened hangers on the structural behavior of all-steel tied-arch bridges. *Steel and Composite Structures*, 32(4), 479-495. doi:10.12989/scs.2019.32.4.479
- Gil-Castell, O., Cervero, R., Teruel-Juanes, R., Badia, J. D., & Ribes-Greus, A. (2019). Functionalised Poly(Vinyl Alcohol)/Graphene Oxide as Polymer Composite Electrolyte Membranes. *Journal of Renewable Materials*, 7(7), 655-665. doi:10.32604/jrm.2019.04401
- Grande, E., Fagone, M., Rotunno, T., Bertolesi, E., & Milani, G. (2019). Modelling of the bond behaviour of curved masonry specimens strengthened by CFRP with anchor spikes. *Composites Part B-Engineering*, 171, 235-245.

doi:10.1016/j.compositesb.2019.04.027

- Haldar, S., Herraiez, M., Naya, F., Gonzalez, C., & Lopes, C. S. (2019). Relations between intralaminar micromechanisms and translaminar fracture behavior of unidirectional FRP supported by experimental micromechanics. *Composites Part B-Engineering*, 174. doi:10.1016/j.compositesb.2019.107000
- Hamadache, H., Djidjelli, H., Boukerrou, A., Kaci, M., Antonio, J. R. J., & Martin-Martinez, J. M. (2019). Different compatibility approaches to improve the thermal and mechanical properties of EVA/starch composites. *Polymer Composites*, 40(8), 3242-3253. doi:10.1002/pc.25179
- Huang, N. J., Cao, C. F., Li, Y., Zhao, L., Zhang, G. D., Gao, J. F., . . . Tang, L. C. (2019). Silane grafted graphene oxide papers for improved flame resistance and fast fire alarm response. *Composites Part B-Engineering*, 168, 413-420. doi:10.1016/j.compositesb.2019.03.053
- Jian, R. K., Ai, Y. F., Xia, L., Zhang, Z. P., & Wang, D. Y. (2019). Organophosphorus heteroaromatic compound towards mechanically reinforced and low-flammability epoxy resin. *Composites Part B-Engineering*, 168, 458-466. doi:10.1016/j.compositesb.2019.03.052
- Kaya, M., Sargin, I., Mulercikas, P., Labidi, J., Salaberria, A. M., Cakmak, Y. S., . . . Baublys, V. (2019). Conversion of Waste Parasitic Insect (*Hylobius abietis* L.) into Antioxidative, Antimicrobial and Biodegradable Films. *Journal of Renewable Materials*, 7(3), 215-226. doi:10.32604/jrm.2019.00002
- Krishnaswamy, J. A., Buroni, F. C., Garcia-Sanchez, F., Melnik, R., Rodriguez-Tembleque, L., & Saez, A. (2019). Lead-free piezocomposites with CNT-modified matrices: Accounting for agglomerations and molecular defects. *Composite Structures*, 224. doi:10.1016/j.compstruct.2019.111033
- Lopez-Aenlle, M., Noriega, A., & Pelayo, F. (2019). Mechanical characterization of polyvinil butyral from static and modal tests on laminated glass beams. *Composites Part B-Engineering*, 169, 9-18. doi:10.1016/j.compositesb.2019.03.077
- Lopez-Colina, C., Serrano, M. A., Lozano, M., Gayarre, F. L., Suarez, J. M., & Wilkinson, T. (2019). Characterization of the main component of equal width welded I-beam-to-RHS-column connections. *Steel and Composite Structures*, 32(3), 337-346. doi:10.12989/scs.2019.32.3.337
- Lozada, J. C. T. (2019). Biodegradable Additive for the Construction Industry. *Journal of Renewable Materials*, 7(6), 523-525. doi:10.32604/jrm.2019.04053
- Marin, J. C., Justo, J., Barroso, A., Canas, J., & Paris, F. (2019). On the optimal

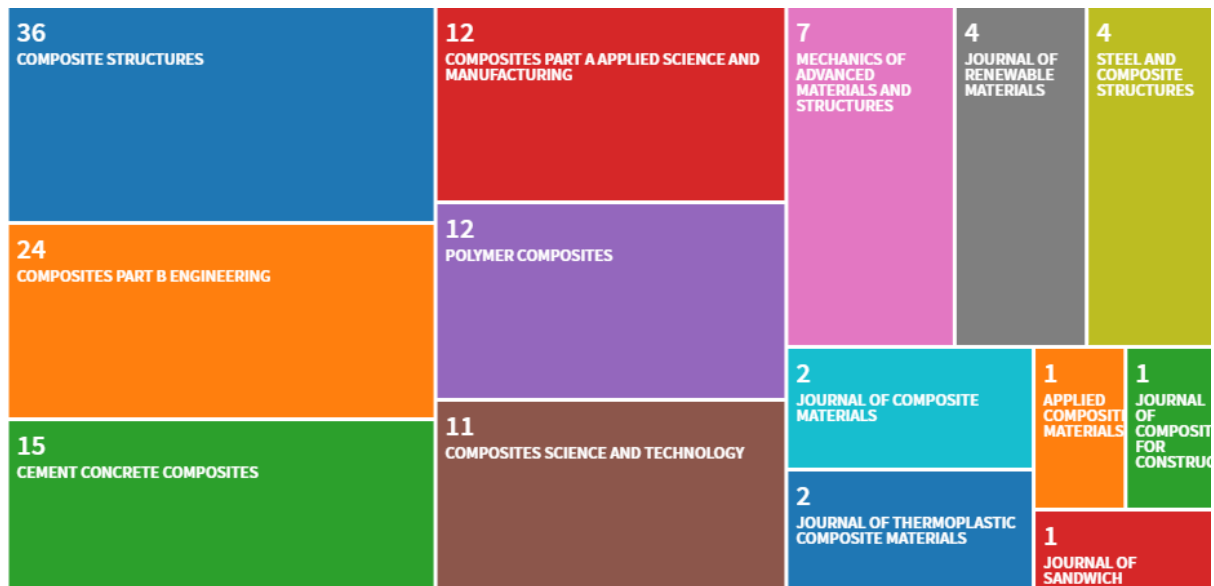
- choice of fibre orientation angle in off-axis tensile test using oblique end-tabs: Theoretical and experimental studies. *Composites Science and Technology*, 178, 11-25. doi:10.1016/j.compscitech.2019.04.022
- Marin, J. C., Justo, J., Paris, F., & Canas, J. (2019). The effect of frequency on tension-tension fatigue behavior of unidirectional and woven fabric graphite-epoxy composites. *Mechanics of Advanced Materials and Structures*, 26(17), 1430-1436. doi:10.1080/15376494.2018.1432814
- Martin-Alfonso, J. E., Cikova, E., & Omastova, M. (2019). Development and characterization of composite fibers based on tragacanth gum and polyvinylpyrrolidone. *Composites Part B-Engineering*, 169, 79-87. doi:10.1016/j.compositesb.2019.04.005
- May, D., Aktas, A., Advani, S. G., Berg, D. C., Endruweit, A., Fauster, E., . . . Ziegmann, G. (2019). In-plane permeability characterization of engineering textiles based on radial flow experiments: A benchmark exercise. *Composites Part a-Applied Science and Manufacturing*, 121, 100-114. doi:10.1016/j.compositesa.2019.03.006
- Mugica, J. I., Lopes, C. S., Naya, F., Herraiz, M., Martinez, V., & Gonzalez, C. (2019). Multiscale modelling of thermoplastic woven fabric composites: From micromechanics to mesomechanics. *Composite Structures*, 228. doi:10.1016/j.compstruct.2019.111340
- Oliveira, F., Dencheva, N., Lanceros-Mendez, S., Nunes, T., & Denchev, Z. (2019). Binary Polyamide Hybrid Composites Containing Carbon Allotropes and Metal Particles With Radiofrequency Shielding Effect. *Polymer Composites*, 40, E1338-E1352. doi:10.1002/pc.24993
- Ou, Y. F., Gonzalez, C., & Vilatela, J. J. (2019). Interlaminar toughening in structural carbon fiber/epoxy composites interleaved with carbon nanotube veils. *Composites Part a-Applied Science and Manufacturing*, 124. doi:10.1016/j.compositesa.2019.105477
- Palmero, E. M., Casaleiz, D., de Vicente, J., Hernandez-Vicen, J., Lopez-Vidal, S., Ramiro, E., & Bollero, A. (2019). Composites based on metallic particles and tuned filling factor for 3D-printing by Fused Deposition Modeling. *Composites Part a-Applied Science and Manufacturing*, 124. doi:10.1016/j.compositesa.2019.105497
- Prolongo, S. G., Moriche, R., Jimenez-Suarez, A., Delgado, A., & Urena, A. Printable self-heating coatings based on the use of carbon nanoreinforcements. *Polymer Composites*. doi:10.1002/pc.25367
- Reinoso, J., Paggi, M., Areias, P., & Blazquez, A. (2019). Surface-based and solid

- shell formulations of the 7-parameter shell model for layered CFRP and functionally graded power-based composite structures. *Mechanics of Advanced Materials and Structures*, 26(15), 1271-1289. doi:10.1080/15376494.2018.1432802
- Rojas, K., Canales, D., Amigo, N., Montoille, L., Cament, A., Rivas, L. M., . . . Zapata, P. A. (2019). Effective antimicrobial materials based on low-density polyethylene (LDPE) with zinc oxide (ZnO) nanoparticles. *Composites Part B-Engineering*, 172, 173-178. doi:10.1016/j.compositesb.2019.05.054
- Rotunno, T., Fagone, M., Bertolesi, E., Grande, E., & Milani, G. (2019). Curved masonry pillars reinforced with anchored CFRP sheets: An experimental analysis. *Composites Part B-Engineering*, 174. doi:10.1016/j.compositesb.2019.107008
- Rubio, I., Rodriguez-Millan, M., Marco, M., Olmedo, A., & Loya, J. A. (2019). Ballistic performance of aramid composite combat helmet for protection against small projectiles. *Composite Structures*, 226. doi:10.1016/j.compstruct.2019.111153
- Saenz-Castillo, D., Martin, M. I., Calvo, S., Rodriguez-Lence, F., & Guemes, A. (2019). Effect of processing parameters and void content on mechanical properties and NDI of thermoplastic composites. *Composites Part a-Applied Science and Manufacturing*, 121, 308-320. doi:10.1016/j.compositesa.2019.03.035
- Sanchez, M., Moriche, B. R., Prolongo, A. S. G., Marron, A. R., Jimenez-Suarez, A., & Urena, A. (2019). Evaluation of sensitivity for detecting different failure modes of epoxy matrix composites doped with graphene nanoparticles. *Composite Structures*, 225. doi:10.1016/j.compstruct.2019.111167
- Sanchez, M., Moriche, R., Sanchez-Romate, X. F., Prolongo, S. G., Rams, J., & Urena, A. (2019). Effect of graphene nanoplatelets thickness on strain sensitivity of nanocomposites: A deeper theoretical to experimental analysis. *Composites Science and Technology*, 181. doi:10.1016/j.compscitech.2019.107697
- Sanchez-Romate, X. F., Moriche, R., Jimenez-Suarez, A., Sanchez, M., Guemes, A., & Urena, A. (2019). An approach using highly sensitive carbon nanotube adhesive films for crack growth detection under flexural load in composite structures. *Composite Structures*, 224. doi:10.1016/j.compstruct.2019.111087
- Sasikumar, A., Trias, D., Costa, J., Blanco, N., Orr, J., & Linde, P. (2019). Effect of ply thickness and ply level hybridization on the compression after impact strength of thin laminates. *Composites Part a-Applied Science and Manufacturing*, 121, 232-243. doi:10.1016/j.compositesa.2019.03.022

- Taraghi, I., Paszkiewicz, S., Fereidoon, A., Szymczyk, A., Stanik, R., Gude, M., . . . Roslaniec, Z. Thermally and electrically conducting polycarbonate/elastomer blends combined with multiwalled carbon nanotubes. *Journal of Thermoplastic Composite Materials*. doi:10.1177/0892705719868275
- Tavara, L., Moreno, L., Paloma, E., & Mantic, V. (2019). Accurate modelling of instabilities caused by multi-site interface-crack onset and propagation in composites using the sequentially linear analysis and Abaqus. *Composite Structures*, 225. doi:10.1016/j.compstruct.2019.110993
- Teixeira, R. S., Santos, S. F., Christoforo, A. L., Paya, J., Savastano, H., & Lahr, F. A. R. (2019). Impact of content and length of curaua fibers on mechanical behavior of extruded cementitious composites: Analysis of variance. *Cement & Concrete Composites*, 102, 134-144. doi:10.1016/j.cemconcomp.2019.04.022
- Thomas, C., Rico, J., Tamayo, P., Ballester, F., Setien, J., & Polanco, J. A. (2019). Effect of elevated temperature on the mechanical properties and microstructure of heavy-weight magnetite concrete with steel fibers. *Cement & Concrete Composites*, 103, 80-88. doi:10.1016/j.cemconcomp.2019.04.029
- Vidal, J., Ponce, D., Miravete, A., Cuartero, J., & Castell, P. Bio-binders for the improvement of the performance of natural fibers as reinforcements in composites to increase the sustainability in the transport sector. *Mechanics of Advanced Materials and Structures*. doi:10.1080/15376494.2019.1633447
- Yousefzade, O., Franco, L., Nami, M., Puiggali, J., & Garmabi, H. (2019). Nanocomposites based on chain extended poly(l-lactic acid)/carboxylated carbon nanotubes: Crystallization kinetics and lamellar morphology. *Journal of Composite Materials*, 53(15), 2131-2147. doi:10.1177/0021998318822720

Datos bibliográficos agregados (2019)

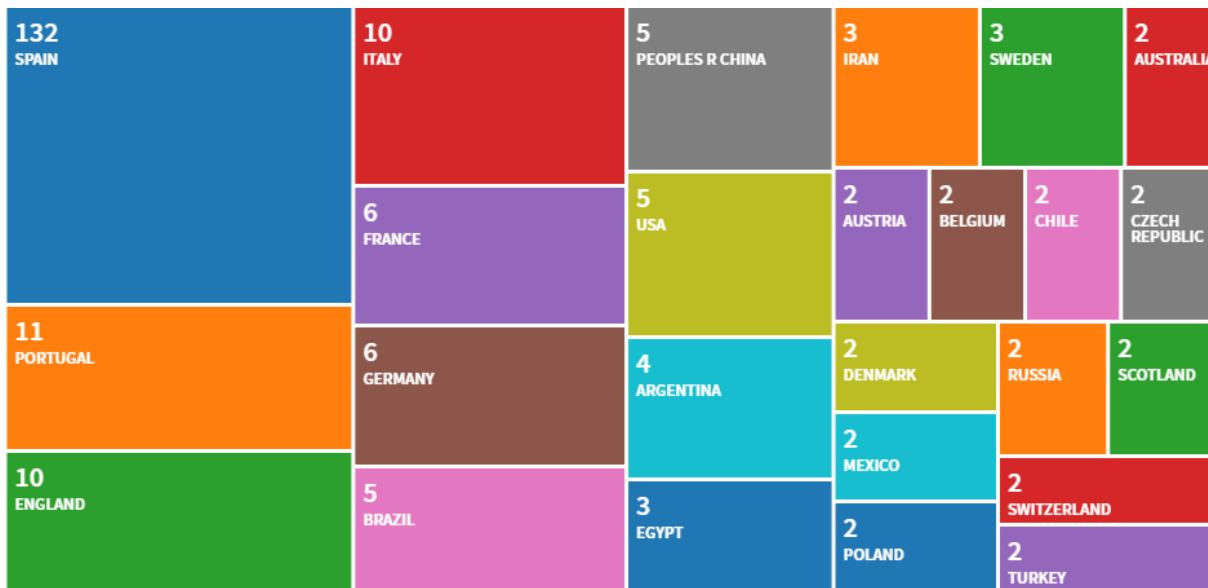
Revistas



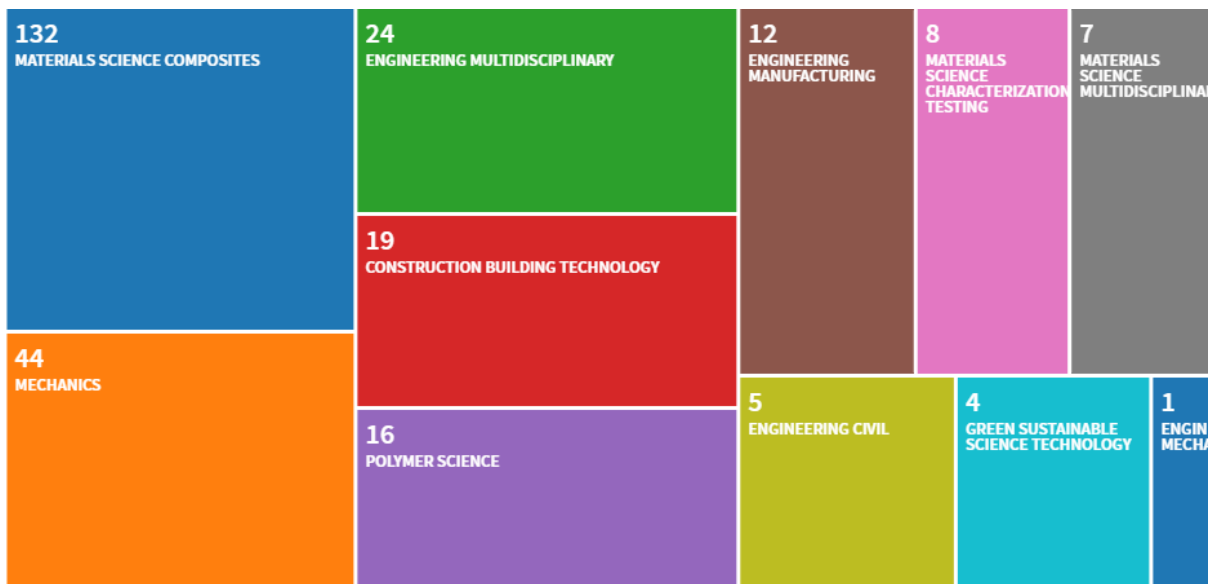
Grupos



Países colaboradores



Áreas temáticas



Agencias financiadoras



Criterios de búsqueda

Los artículos incluidos en el presente listado son los que aparecen en la base de datos “*Science Citation Index Expanded (SCI-EXPANDED) from Web of Knowledge Core Collection*” de Clarivate Analytics, con las restricciones: Subject = “Materials Science, Composites” y Country = “Spain”. Por lo tanto, por ejemplo, no aparecerán artículos de autores españoles afiliados a centros extranjeros ni artículos de composites publicados en revistas indexadas en otras materias (*subjects*).

Contribución a la ampliación de los criterios de búsqueda

Para identificar los artículos sobre materiales compuestos con autoría de centros de investigación españoles publicados en revistas indexadas en otras materias (*subjects*), los centros pueden enviar a AEMAC (administración@aemac.org) los criterios de “búsqueda avanzada” a utilizar en la base de datos antes citada que permitan identificar sin ambigüedad las publicaciones del centro. No se atenderá a la recepción de artículos individuales ni a criterios de “búsqueda avanzada” que no estén en el formato de la base de datos (el formato aceptable será el resultado de un “Saved Search” en la ventana de búsquedas avanzadas de la base de datos). El centro debe haber comprobado la fiabilidad del criterio de búsqueda (no debe generar ni artículos de otros campos ni de otros autores).

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La información contenida en este listado está destinada únicamente a fines informativos con objeto de fomentar su difusión en el sector español y se ha recabado de bases de datos de terceros. Por la presente nota de descargo de responsabilidad, AEMAC declina cualquier responsabilidad por omisión o inexactitud de la información recogida en este documento.