

RANKING SEGUNDO CUATRIMESTRE 2021



Scopus®

Escuela Politécnica Superior
Universidad de Sevilla
#InvestigadorEPS

- Alonso-González, M., Ramos, M., Bengoechea, C., Romero, A., & Guerrero, A. (2021). Evaluation of composition on processability and water absorption of wheat gluten-based bioplastics. *Journal of Polymers and the Environment*, 29(5), 1434-1443. doi:10.1007/s10924-020-01969-4
- Álvarez-Castillo, E., Aguilar, J. M., Bengoechea, C., López-Castejón, M. L., & Guerrero, A. (2021). Rheology and water absorption properties of alginate-soy protein composites. *Polymers*, 13(11) doi:10.3390/polym13111807
- Álvarez-Castillo, E., Bengoechea, C., Felix, M., & Guerrero, A. (2021). Freeze-drying versus heat-drying: Effect on protein-based superabsorbent material. *Processes*, 9(6) doi:10.3390/pr9061076
- Álvarez-Castillo, E., Felix, M., Bengoechea, C., & Guerrero, A. (2021). Proteins from agri-food industrial biowastes or co-products and their applications as green materials. *Foods*, 10(5) doi:10.3390/foods10050981
- Ancio, F., Rodriguez-mayorga, E., & Hortigon, B. (2021). Analysis of the main aspects affecting bonding in stainless steel rebars embedded in a hydraulic medium. *Metals*, 11(5) doi:10.3390/met11050786
- Carmona, V., Fernández-Sánchez, F., & Novaes, D. D. (2021). A new simple proof for Lum-Chua's conjecture. *Nonlinear Analysis: Hybrid Systems*, 40 doi:10.1016/j.nahs.2020.100992
- Carril-Naranjo, F., Mena, B., Samayoa, D., Guerrero, A., & Figueroa-Espinoza, B. (2021). The influence of the negative wake on the deformation and breakup of viscoelastic droplets. *Korea Australia Rheology Journal*, 33(3), 283-291. doi:10.1007/s13367-021-0022-0
- Cerra, S., Salamone, T. A., Sciubba, F., Marsotto, M., Battocchio, C., Nappini, S., . . . Fratoddi, I. (2021). Study of the interaction mechanism between hydrophilic thiol capped gold nanoparticles and melamine in aqueous medium. *Colloids and Surfaces B: Biointerfaces*, 203 doi:10.1016/j.colsurfb.2021.111727

Ciraldo, F. E., Arango-Ospina, M., Goldmann, W. H., Beltrán, A. M., Detsch, R., Gruenewald, A., . . . Boccaccini, A. R. (2021). Fabrication and characterization of ag- and ga-doped mesoporous glass-coated scaffolds based on natural marine sponges with improved mechanical properties. *Journal of Biomedical Materials Research - Part A*, 109(8), 1309-1327. doi:10.1002/jbm.a.37123

Cuevas-Maraver, J., Kevrekidis, P. G., Chen, Q. Y., Kevrekidis, G. A., Villalobos-Daniel, V., Rapti, Z., & Drossinos, Y. (2021). Lockdown measures and their impact on single- and two-age-structured epidemic model for the COVID-19 outbreak in mexico. *Mathematical Biosciences*, 336 doi:10.1016/j.mbs.2021.108590

De las Heras, A., Relinque-Medina, F., Zamora-Polo, F., & Luque-Sendra, A. (2021). Analysis of the evolution of the sharing economy towards sustainability. trends and transformations of the concept. *Journal of Cleaner Production*, 291 doi:10.1016/j.jclepro.2020.125227

Dittler, M. L., Zelís, P. M., Beltrán, A. M., Destch, R., Grillo, C. A., Gonzalez, M. C., & Boccaccini, A. R. (2021). Magnetic 3D scaffolds for tissue engineering applications: Bioactive glass (45S5) coated with iron-loaded hydroxyapatite nanoparticles. *Biomedical Materials (Bristol)*, 16(5) doi:10.1088/1748-605X/ac14cc

Dominguez-Morales, J. P., Duran-Lopez, L., Gutierrez-Galan, D., Rios-Navarro, A., Linares-Barranco, A., & Jimenez-Fernandez, A. (2021). Wildlife monitoring on the edge: A performance evaluation of embedded neural networks on microcontrollers for animal behavior classification. *Sensors*, 21(9) doi:10.3390/s21092975

Dominguez-Morales, J. P., Gutierrez-Galan, D., Rios-Navarro, A., Duran-Lopez, L., Dominguez-Morales, M., & Jimenez-Fernandez, A. (2021). pyNAVIS: An open-source cross-platform software for spike-based neuromorphic audio information processing. *Neurocomputing*, 449, 172-175. doi:10.1016/j.neucom.2021.03.121

Espejo-Antúnez, L., Corrales-Serrano, M., Zamora-Polo, F., González-Velasco, M., & Cardero-Durán, M. Á. (2021). What are university professors' motivations? A realistic approach to self-perception of a group of spanish university professors belonging to the g-9 group

of universities. *International Journal of Environmental Research and Public Health*, 18(15) doi:10.3390/ijerph18157976

Gaviria, J., Alcudia, A., Begines, B., Beltrán, A. M., Rodríguez-ortiz, J. A., Trueba, P., . . .

Torres, Y. (2021). Biofunctionalization of porous ti substrates coated with ag nanoparticles for potential antibacterial behavior. *Metals*, 11(5) doi:10.3390/met11050692

Gil-González, E., Pérez-Maqueda, L. A., Sánchez-Jiménez, P. E., & Perejón, A. (2021). Paving the way to establish protocols: Modeling and predicting mechanochemical reactions. *Journal of Physical Chemistry Letters*, 12(23), 5540-5546. doi:10.1021/acs.jpclett.1c01472

Gil-González, E., Rodríguez-Laguna, M. D. R., Sánchez-Jiménez, P. E., Perejón, A., & Pérez-Maqueda, L. A. (2021). Unveiling mechanochemistry: Kinematic-kinetic approach for the prediction of mechanically induced reactions. *Journal of Alloys and Compounds*, 866 doi:10.1016/j.jallcom.2021.158925

López-Castejón, M. L., Hurtado, M. C., de la Fuente, J., Mena, B., & Bengoechea, C. (2021). Electrospun fibers based on porcine plasma: A rheological and morphological study. *Iranian Polymer Journal (English Edition)*, 30(7), 723-735. doi:10.1007/s13726-021-00926-9

Martín, J., Tena, N., & Asuero, A. G. (2021). Current state of diagnostic, screening and surveillance testing methods for COVID-19 from an analytical chemistry point of view. *Microchemical Journal*, 167 doi:10.1016/j.microc.2021.106305

Mejías, C., Martín, J., Santos, J. L., Aparicio, I., & Alonso, E. (2021). Occurrence of pharmaceuticals and their metabolites in sewage sludge and soil: A review on their distribution and environmental risk assessment. *Trends in Environmental Analytical Chemistry*, 30 doi:10.1016/j.teac.2021.e00125

- Monaga-Reina, R., de-Las-Heras, A., Luque-Sendra, A., & Lama-Ruiz, J. - (2021). Improvement of sustainability management through a plm structure. good practices and a case study. *Dyna (Spain)*, 96(4), 373-378. doi:10.6036/9915
- Monedero, I., Barbancho, J., Márquez, R., & Beltrán, J. F. (2021). Cyber-physical system for environmental monitoring based on deep learning. *Sensors*, 21(11) doi:10.3390/s21113655
- Mutlu, N., Beltrán, A. M., Nawaz, Q., Michálek, M., Boccaccini, A. R., & Zheng, K. (2021). Combination of selective etching and impregnation toward hollow mesoporous bioactive glass nanoparticles. *Nanomaterials*, 11(7) doi:10.3390/nano11071846
- Parejo, A., Bracco, S., Personal, E., Larios, D. F., Delfino, F., & León, C. (2021). Short-term power forecasting framework for microgrids using combined baseline and regression models. *Applied Sciences (Switzerland)*, 11(14) doi:10.3390/app11146420
- Perez-Puyana, V., Wieringa, P., Guerrero, A., Romero, A., & Moroni, L. (2021). (Macro)molecular imprinting of proteins on PCL electrospun scaffolds. *ACS Applied Materials and Interfaces*, 13(25), 29293-29302. doi:10.1021/acsami.1c04022
- Piñero-Fuentes, E., Canas-Moreno, S., Rios-Navarro, A., Domínguez-Morales, M., Sevillano, J. L., & Linares-Barranco, A. (2021). Article a deep-learning based posture detection system for preventing telework-related musculoskeletal disorders. *Sensors*, 21(15) doi:10.3390/s21155236
- Romero-Muñiz, C., Ortega, M., Vilhena, J. G., Pérez, R., Cuevas, J. C., & Zotti, L. A. (2021). The role of metal ions in the electron transport through azurin-based junctions. *Applied Sciences (Switzerland)*, 11(9) doi:10.3390/app11093732
- Sánchez-Cid, P., Jiménez-Rosado, M., Alonso-González, M., Romero, A., & Perez-Puyana, V. (2021). Applied rheology as tool for the assessment of chitosan hydrogels for regenerative medicine. *Polymers*, 13(13) doi:10.3390/polym13132189

Santos, J., Trujillo-Cayado, L. A., Alcaide, M. Á., & Alfaro, M. C. (2021). Impact of microfluidization on the emulsifying properties of zein-based emulsions: Influence of diutan gum concentration. *Materials*, 14(13) doi:10.3390/ma14133695

Trallero-Giner, C., Menéndez-Proupin, E., Morell, E. S., Pérez-Álvarez, R., & Santiago-Pérez, D. G. (2021). Phenomenological model for long-wavelength optical modes in transition metal dichalcogenide monolayer. *Physical Review B*, 103(23) doi:10.1103/PhysRevB.103.235424

Yepes-Borrero, J. C., Perea, F., Ruiz, R., & Villa, F. (2021). Bi-objective parallel machine scheduling with additional resources during setups. *European Journal of Operational Research*, 292(2), 443-455. doi:10.1016/j.ejor.2020.10.052

Zotti, L. A. (2021). Molecular electronics. *Applied Sciences (Switzerland)*, 11(11) doi:10.3390/app11114828