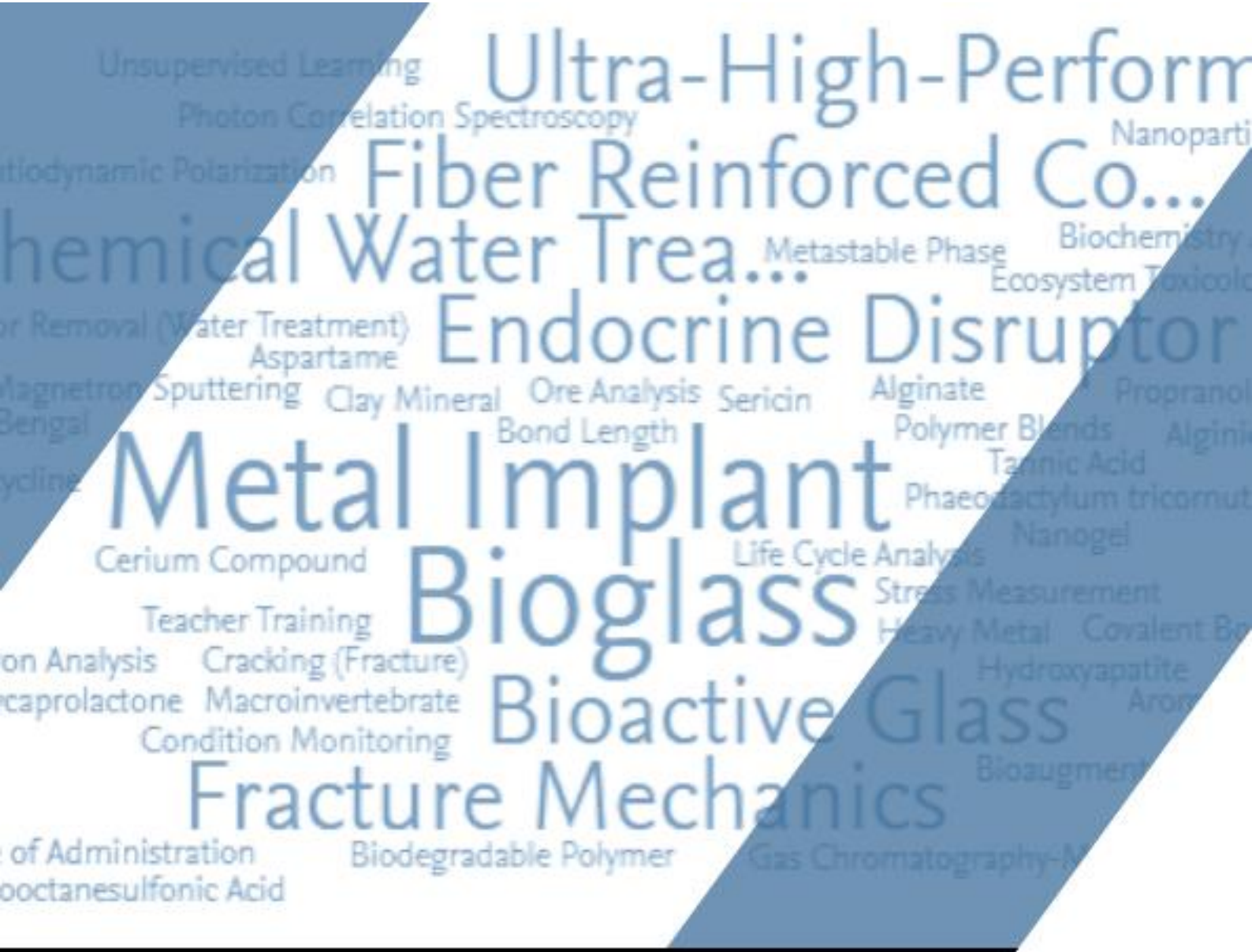


SCOPUS

PRODUCCIÓN CIENTÍFICA DE LA EPS

RANKING PRIMER SEMESTRE 2025

ESCUELA POLITÉCNICA SUPERIOR

Biblioteca Universidad de Sevilla

INDICE

A través de la producción científica indexada en SCOPUS mostramos algunas gráficas sobre el alcance de la investigación en la Escuela Politécnica Superior de la Universidad de Sevilla. Tenga en cuenta que la información relativa a un año (producción y citas) se va consolidando a finales del año siguiente.

Para identificar correctamente la producción de la EPS en las bases de datos, es fundamental que los autores de la EPS firmen sus publicaciones con la afiliación institucional, cumpliendo con la normativa vigente.

FUENTES: SCOPUS **|** SCIVAL
EXPORT DATE: 30 Jun 2025

1. INVESTIGACIÓN EN LA EPS EN CIFRAS

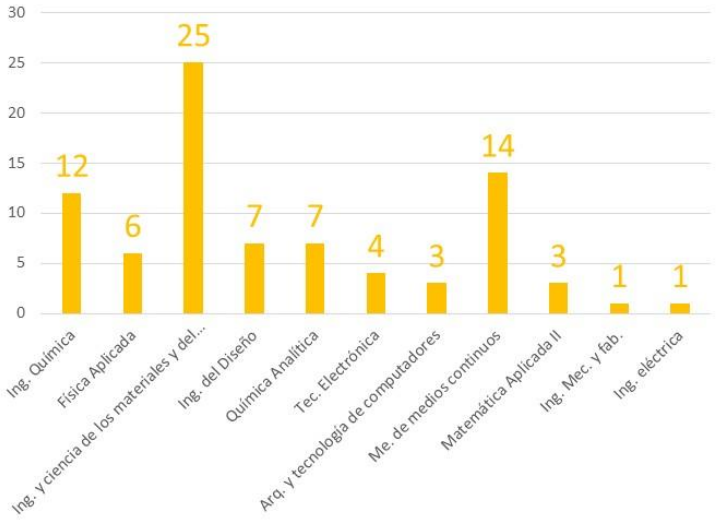
PUB EPS EN CIFRAS

SITUACIÓN DE LAS PUBLICACIONES POR CUARTILES

Impacto científico de revistas según JCR/JCI (WOS)

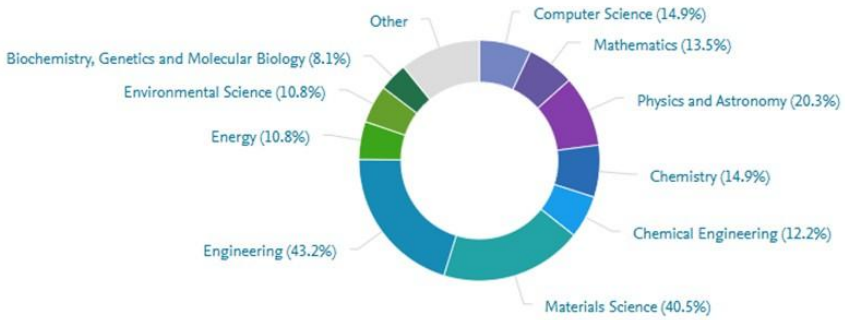
PUB EPS EN CIFRAS

PUBLICACIONES POR DEPARTAMENTOS



PUB EPS EN CIFRAS

PUBLICACIONES POR MATERIAS



Gráfica extraída de SCOPUS (SCIVAL)

El tamaño del segmento representa la participación relativa de publicaciones por área temática. Tenga en cuenta que una publicación se puede asignar a múltiples áreas temáticas

PUB EPS EN CIFRAS

TOP 5 PUBLICACIONES EPS

Impacto normalizado (Field-Weighted Citation Impact FWCI)
Información extraída de SCOPUS (SCIVAL)

Publication	Citation	FWCI
Green synthesis of α-Fe2O3 and α-Fe2O3@Ag NC for degradation of rose Bengal and antimicrobial activity. Zouari Ahmed, R., Laouini, S.E., Salmi, C. and 6 more (2025) Biomass Conversion and Biorefinery, 15 (1), pp. 255-269. View in Scopus	21	18.62
Green synthesis of ZnO@SiO2 nanoparticles using Calligonum comosum L. extract: an efficient approach for organic pollutant degradation in wastewater. Gharbi, A.H., Hemmami, H., Laouini, S.E. and 6 more (2025) Biomass Conversion and Biorefinery, 15 (1), pp. 701-712. View in Scopus	17	14.24
Hydrogels and Nanogels: Pioneering the Future of Advanced Drug Delivery Systems. Delgado-Pujol, E.J., Martínez, G., Casado-Jurado, D. and 6 more (2025) Pharmaceutics, 17 (2). View in Scopus	12	12.96
Lab-scale biocomposite manufacturing: Exploring rice bran-based bioplastics reinforced with natural fillers through extrusion and injection molding. Alonso-González, M., Felix, M., Romero, A. and 3 more (2025) Resources, Conservation and Recycling, 212. View in Scopus	6	11.05
Enabling low molecular weight electrospinning through binary solutions of polymer blends. Perez-Puyana, V.M., Romero, A., Guerrero, A. and 2 more (2025) Next Materials, 6. View in Scopus	5	5.97

Enlaces a los artículos en la lista de publicaciones

PUB EPS EN CIFRAS

COLABORACIÓN NACIONAL E INTERNACIONAL

Gráfica extraída de SCOPUS (SCIVAL)

Metric	Publication share
International collaboration	62.2%
Only national collaboration	17.6%
Only institutional collaboration	20.3%
Single authorship (no collaboration)	0.0%

PUB EPS EN CIFRAS

ARTÍCULOS POR PAÍSES

La ubicación de los elementos en el mapa representa el origen de la publicación

2. PUBLICACIONES 1er SEMESTRE 2025

1. Aguilar-Planet, T., Picardo, A., Fernández-Rodríguez, J.F., Martín-Mariscal, A., Peralta, E. (2025) Biomimicry: Engineering Inspired by Nature. *International Journal of Design Management and Professional Practice*, 19 (1), pp. 155-175.
DOI: 10.18848/2325-162X/CGP/v19i01/155-175

2. Aguilar-Romero, I., Madrid, F., Villaverde, J., Alonso, E., Santos, J.L., Morillo, E. (2025) Removal of Ibuprofen in Water by Bioaugmentation with Labrys neptuniae CSW11 Isolated from Sewage Sludge—Assessment of Biodegradation Pathway Based on Metabolite Formation and Genomic Analysis. *Journal of Xenobiotics*, 15 (1), art. no. 5.
DOI: 10.3390/jox15010005

3. Alagia, M., Bengoechea, C., La Ferla, B., Peri, F., Guerrero, A. (2025) Effects of the green cross-linking agent tannic acid and its oxidation on the properties of porcine plasma protein superabsorbent materials. *International Journal of Biological Macromolecules*, 304, art. no. 140584.
DOI: 10.1016/j.ijbiomac.2025.140584

4. Alonso-González, M., Felix, M., Romero, A., Sergi, C., Bavasso, I., Sarasini, F. Lab-scale biocomposite manufacturing: Exploring rice bran-based bioplastics reinforced with natural fillers through extrusion and injection molding. *Resources, Conservation and Recycling*, 212, art. no. 107990.
DOI: 10.1016/j.resconrec.2024.107990
Acceso al texto

5. Álvarez-Caudevilla, P., Brändle, C., Molina-Becerra, M., Suárez, A. (2025) Interface logistic problems: Large diffusion and singular perturbation results. *Nonlinear Analysis, Theory, Methods and Applications*, 255, art. no. 113777.
DOI: 10.1016/j.na.2025.113777

6. Anand A., Sengupta S., Galusek D., Beltrán A. M., Galusková D., Boccaccini A. R. (2025) A new approach to overcome cytotoxic effects of Cu by delivering dual therapeutic ions (Sr, Cu). *Journal of Trace Elements in Medicine and Biology*, 87, art. no.127565
DOI: 10.1016/j.jtemb.2024.127565

7. Aranda, M.T., Távara, L., Reinoso, J., Camanho, P.P. (2025) Single lap joint (SLJ) fracture assessment of 3D printing composite parts using structured and flat interface definitions: Experimental and numerical study. *Composite Structures*, 355, art. no. 118788.
DOI: 10.1016/j.compstruct.2024.118788

8. Arenas, M., Martín, J., Santos, J.L., Aparicio, I., Alonso, E. (2025) Automatised online SPE-LC-MS/MS method for the enantioselective determination of chiral β-blockers and antidepressants in wastewater. *Analytica Chimica Acta*, 1361, art. no. 344152.
DOI: 10.1016/j.aca.2025.344152

9. Arévalo, C.M., Pérez-Soriano, E.M., Ariza, E., Kitzmantel, M., Montealegre-Meléndez, I. (2025) Optimizing Titanium-Boron Carbide Composites for Aerospace Manufacturing via Plasma Metal Deposition. *Materials Science Forum*, 1146, pp. 49-56.
DOI: 10.4028/p-4T23q8

10. Ávila-Gutiérrez, M.J., Córdoba-Roldán, A., Morato-Huerta, P., Lama-Ruiz, J.R. (2025) Modernizing Small and Medium-Sized Enterprises: A Lean Audit Model for Digital Integration. *Systems*, 13 (4), art. no. 304.
DOI: 10.3390/systems13040304

11. Ben Jadi, S., Bahend, K., El Fazdoune, M., Iranzo, A., García-García, F.J., Bazzaoui, M. (2025) Study of the electrodeposition of conductive polypyrrole doped saccharin coatings on 316L stainless steel plate for PEMFC application. *International Journal of Hydrogen Energy*, 138, pp. 1066-1076.
DOI: 10.1016/j.ijhydene.2025.05.122

12. Bider, F., Gunnella, C., Reh, J.T., Clejanu, C.-E., Kuth, S., Beltrán, A.M., Boccaccini, A.R. (2025) Enhancing alginate dialdehyde-gelatin (ADA-GEL) based hydrogels for biofabrication by addition of phytotherapeutics and mesoporous bioactive glass nanoparticles (MBGNs). *Journal of Biomaterials Applications*, 39 (6), pp. 524-556.
DOI: 10.1177/08853282241280768

13. Bortot Coelho, F.E., Sohn, S.I., Candelario, V.M., Hartmann, N.I.B., Hélix-Nielsen, C., Zhang, W. (2025) Microplastics removal from a hospital laundry wastewater combining ceramic membranes and a photocatalytic membrane reactor: Fouling mitigation, water reuse, and cost estimation. *Journal of Membrane Science*, 715, art. no. 123485.
DOI: 10.1016/j.memsci.2024.123485

14. Bountis, T., Cantisán, J., Cuevas-Maraver, J., Macías-Díaz, J.E., Kevrekidis, P.G. (2025) On the Fractional Dynamics of Kinks in Sine-Gordon Models. *Mathematics*, 13 (2), art. no. 220.
DOI: 10.3390/math13020220

15. Castillejo, A., Martínez, G., Delgado-Pujol, E.J., Villalobo, E., Carrillo, F., Casado-Jurado, D., Pérez-Bernal, J.L., Begines, B., Torres, Y., Alcudia, A. (2025) Enhanced porous titanium biofunctionalization based on novel silver nanoparticles and nanohydroxyapatite chitosan coatings. *International Journal of Biological Macromolecules*, 299, art. no. 139846.
DOI: 10.1016/j.ijbiomac.2025.139846

16. Castillo-Seoane, J., Contreras-Bernal, L., Riquelme, A.J., Fauvel, S., Kervella, Y., Gil-Rostra, J., Lozano, G., Barranco, A., Demadrille, R., Sánchez-Valencia, J.R., Borrás, A. (2025) Multidimensional nanoarchitectures for improved indoor light harvesting in dye-sensitized solar cells. *Materials Today Energy*, 49, art. no. 101851.
DOI: 10.1016/j.mtener.2025.101851

17. Castro, J.D., Sánchez-López, J.C., Rojas, T.C., Escobar-Galindo, R., Carvalho, S. (2025) Diffusion mechanisms and corrosion resistance of nanostructured ZrN-Cu coating obtained by hybrid HiPIMS-DCMS. *Applied Surface Science*, 682, art. no. 161635.
DOI: 10.1016/j.apsusc.2024.161635

18. Cerra, S., Cirri, D., Gabbiani, C., Pratesi, A., Grigorian, S., Matassa, R., Lozano, J.G., Beltrán, A.M., Capocefalo, A., Fasolato, C., Scaramuzzo, F.A., Marsotto, M., Battocchio, C., Salamone, T.A., Pennacchi, B., Mercurio, M., Fratoddi, I. (2025) Hydrophobic gold nanoparticles coupled with fluorescent dyes: A smart tool for optoelectronic applications. *Inorganica Chimica Acta*, 579, art. no. 122553.
DOI: 10.1016/j.ica.2025.122553

19. Delgado-Pujol, E.J., Martínez, G., Casado-Jurado, D., Vázquez, J., León-Barberena, J., Rodríguez-Lucena, D., Torres, Y., Alcudia, A., Begines, B. (2025) Hydrogels and Nanogels: Pioneering the Future of Advanced Drug Delivery Systems. *Pharmaceutics*, 17 (2), art. no. 215
DOI: 10.3390/pharmaceutics17020215
Acceso at texto

20. Durán-Avendaño, Y.S., Hernández, N.C., Ruiz-Salvador, A.R., Abatal, M. (2025) Further Insight in the High Selectivity of Pb2+ Removal over Cd2+ in Natural and Dealuminated Rich-Clinoptilolite. *International Journal of Molecular Sciences*, 26 (9), art. no. 4154
DOI: 10.3390/ijms26094154

21. Espejo-Antúnez, L., Corrales-Serrano, M., Zamora-Polo, F., Cardero-Durán, M.Á. (2025) Is university teaching aligned with the sustainable development goals possible? An approach through the virtual training of university professors. *International Journal of Sustainability in Higher Education.*
DOI: 10.1108/IJSHE-06-2024-0405

22. Fernández Rodríguez, J.F., Picardo, A., Aguilar-Planet, T., Martín-Mariscal, A., Peralta, E. (2025) Data Transfer Reliability from Building Information Modeling (BIM) to Life Cycle Assessment (LCA)—A Comparative Case Study of an Industrial Warehouse. *Sustainability (Switzerland)*, 17 (4), art. no. 1685. DOI: 10.3390/su17041685

23. Ferreira, L.M., Graciani, E., París, F. (2025) Numerical Characterization of the In-Plane Shear Behaviour of Non-Crimp Fabric Composites. *Journal of Applied and Computational Mechanics*, 11 (2), pp. 439-450.
DOI: 10.22055/jacm.2024.47328.4695

24. Ferreira, L.M., Coelho, C.A.C.P., Reis, P.N.B. (2025) Characterization of Low-Velocity Impact Damage in Asymmetric Composite Shells. *Journal of Applied and Computational Mechanics*, 11 (1), pp. 98-109.
DOI: 10.22055/jacm.2024.45986.4446

25. García, S., Fresia, M., Mora-Merchán, J.M., Carrasco, A., Personal, E., León, C. (2025) A data-driven topology identification method for low-voltage distribution networks based on the wavelet transform. *Electric Power Systems Research*, 243, art. no. 111517.
DOI: 10.1016/j.epsr.2025.111517

26. García, S., Bracco, S., Parejo, A., Fresia, M., Ignacio Guerrero, J., León, C. (2025) Cost-Effective Operation of Microgrids: A MILP-Based Energy Management System for Active and Reactive Power Control. *International Journal of Electrical Power and Energy Systems*, 165, art. no. 110458.
DOI: 10.1016/j.ijepes.2025.110458

27. García-Criado, N., Martín-Pozo, L., Martín, J., Santos, J.L., Aparicio, I., Alonso, E. (2025) Efficient Removal of Tetracyclines and Their Metabolites from Wastewater Using Purified Stevensite: Adsorption Capacity, Reusability, and Antibiotic Decontamination. *Antibiotics*, 14 (4), art. no. 395.
DOI: 10.3390/antibiotics14040395

28. Gharbi, A.H., Hemmami, H., Laouini, S.E., Amor, I.B., Zeghoud, S., Amor, A.B., Alharthi, F., Barhoum, A., Abdullah, J.A.A. (2025) Green synthesis of ZnO@SiO2 nanoparticles using Calligonum comosum L. extract: an efficient approach for organic pollutant degradation in wastewater. *Biomass Conversion and Biorefinery*, 15 (1), pp. 701-712.
DOI: 10.1007/s13399-023-05063-2
Acceso al texto

29. Gil-González, E., Taibi, A., Perejón, A., Sánchez-Jiménez, P.E., Pérez-Maqueda, L.A. (2025) Plasma-flash sintering: Metastable phase stabilization and evidence of ionized species. *Journal of the American Ceramic Society*, 108 (1), art. no. e20105.
DOI: 10.1111/jace.20105

30. Gómez-Cabello, C., Lefèvre, P., Queffélec, H. (2025) Integration type operators and point evaluation on weighted Bergman spaces of Dirichlet series. *Proceedings of the American Mathematical Society*, 153 (5), pp. 2007-2021.
DOI: 10.1090/proc/17060

31. Gonkowski, S., Martin, J., Kadyralieva, N., Aparicio, I., Santos, J.L., Alonso, E., Rytel, L. (2025) Raw sheep wool contamination with bisphenol A and parabens. An assessment of interregional differences. *Science of the Total Environment*, 979, art. no. 179489.
DOI: 10.1016/j.scitotenv.2025.179489

32. Gonkowski, S., Martín, J., Kadyralieva, N., Aparicio, I., Santos, J.L., Alonso, E. (2025) Evaluation of sheep exposure to poly- and perfluoroalkyl substances through hair sample analysis. *Journal of Veterinary Research (Poland).*
DOI: 10.2478/jvetres-2025-0023

33. González-Mederos P., Rodríguez-Guerra J., González J.E., Picardo A., Torres Y. (2025) A Finite Element Analysis of a New Dental Implant Design: The Influence of the Diameter, Length, and Material of an Implant on Its Biomechanical Behavior. *Materials*, 18 (12), art. no. 2692
DOI: 10.3390/ma18122692

34. Hennig, D., Cuevas-Maraver, J. (2025) Discrete Derivative Nonlinear Schrödinger Equations. *Mathematics*, 13 (1), art. no. 105.
DOI: 10.3390/math13010105

35. Herrera-Garrido, M.A., Mantič, V., Vodička, R. (2025) Is the decoupling into plane and antiplane singular eigensolutions always possible in corners with frictional contact?. *European Journal of Mechanics A Solids,* 111,105559
DOI: 10.1016/j.euromechsol.2024.105559

36. Herrera-Garrido, M.A., Mogilevskaya, S.G., Mantič, V. (2025) Simple finite element algorithm for solving antiplane problems with Gurtin–Murdoch material surfaces. *Finite Elements in Analysis and Design*, 246, art. no. 104318.
DOI: 10.1016/j.finel.2025.104318

37. Jiménez-Alfaro, S., García, I.G., Doitrand, A. (2025) Review of the matched asymptotic approach of the coupled criterion [Revue de l'approche asymptotique du critère couplé]. *Comptes Rendus - Mecanique*, 353, pp. 339-357.
DOI: 10.5802/crmeca.285

38. Jiménez-Alfaro, S., Leguillon, D., Maurini, C., Reinoso, J. (2025) A dialogue between Finite Fracture Mechanics and Phase Field approaches to fracture for predicting crack nucleation at the microscale. *International Journal of Fracture*, 249 (1), art. no. 13.
DOI: 10.1007/s10704-024-00819-x

39. Krause, M., Romero-Muñiz, C., Selyshchev, O., Zahn, D.R.T., Escobar-Galindo, R. (2025) Resonant defect states of the SnO2: Ta transparent conductive oxide revealed by excitation wavelength-dependent Raman spectroscopy and hybrid functional DFT calculations. *Journal of Materials Chemistry* A, 13 (20), pp. 15128-15139.
DOI: 10.1039/d4ta08693g

40. Lacroix, B., Fernández, A., Pyper, N.C., Thom, A.J.W., Whelan, C.T. (2025) On the characteristics of helium filled nano-pores in amorphous silicon thin films. *Applied Surface Science*, 683, art. no. 161772.
DOI: 10.1016/j.apsusc.2024.161772

41. Laib, I., Bouafia, A., Laouini, S.E., Abdullah, M.M.S., Al-Lohedan, H.A., AlEssa, E.M., Ahmed Abdullah, J.A. (2025) Ciprofloxacin-loaded copper oxide nanoparticles: Cutting-edge multifunctional nano-therapeutics with superior antidiabetic, antioxidant, anti-inflammatory, and antibacterial potency against drug-resistant pathogens. *Journal of Crystal Growth*, 653, art. no. 128074.
DOI: 10.1016/j.jcrysgro.2025.128074

42. Li, C., Miao, J., Zhai, X., Liu, Q. (2025) A Bibliometric Analysis of Research on Human Settlements Improvement Based on CNKI and Web of Science. *Buildings*, 15 (11), art. no. 1805.
DOI: 10.3390/buildings15111805

43. Liu, Z., Lenarda, P., Reinoso, J., Paggi, M. (2025) Phase field modeling of anisotropic silicon crystalline cracking in 3D thin-walled photovoltaic laminates. *International Journal of Fracture*, 249 (1), art. no. 19.
DOI: 10.1007/s10704-024-00821-3

44. Luque, A., Campos Olivares, D., Mazzoleni, M., Ferramosca, A., Previdi, F., Carrasco, A. (2025) Use of artificial intelligence techniques in characterization of vibration signals for application in agri-food engineering. *Applied Intelligence*, 55 (6), art. no. 534.
DOI: 10.1007/s10489-025-06424-2

45. Luque-Álvarez, L.A., Núñez-Carballo, A., Lacroix, B., Sánchez-de-Armas, R., Centeno, M.A., Pastor-Pérez, L., Bobadilla, L.F., Odriozola, J.A. (2025) Exploring the impact of nanoshaped ceria in the methanol decomposition reaction pathway for clean energy production. *Applied Catalysis B: Environmental*, 361, art. no. 124649.
DOI: 10.1016/j.apcatb.2024.124649

46. Marques, C.G., Nata, A., Ferreira, L.M., Rodrigues, A.M. (2025) A Multi-pronged Approach to Promote Pedagogical Innovation and Distance Learning in Higher Education. *Lecture Notes in Networks and Systems*, 858 LNNS, pp. 334-343.
DOI: 10.1007/978-3-031-74751-9_31

47. Martín-Mariscal, A., Fernández-Rodríguez, J. F., Picardo, A., & Peralta, E. (2025). Grasshopper Algorithmic Modelling: Parametric Design for Product Platform Customisation. *Applied Sciences*, 15(11), 6243.
DOI: 10.3390/app15116243

48. Martín-Mariscal, A., Fernandez Rodriguez, J. F., Alejandre, M., Peralta, M. (2025) Integrated Creative Design Process: The Role of Sketching in Industrial Design. *The International Journal of Designed Objects,* 19, 135-155.
DOI: 10.18848/2325-1379/CGP/v19i01/135-155

49. Martín-Pozo, L., Arena, K., Cacciola, F., Mondello, L., Dugo, P. (2025) From extracts to quantitative analyses: Method validation, analytical approaches (chromatographic, spectroscopic, and electrochemical procedures) and innovative instrumentations LC × LC. *Phytochemicals for Health*, pp. 55-74.
DOI: 10.1016/B978-0-443-15366-2.00004-6

50. Martín-Pozo, L., Mejías, C., Arenas, M. (2025) An overview of the enantioselective determination of musk fragrances in environmental samples. *Comprehensive Analytical Chemistry*.
DOI: 10.1016/bs.coac.2025.01.003

51. Martín-Sosa, E., Távara, L., Ojeda, J., Estefani, A. (2025) Anisotropic and hyperelastic mechanical response of 3D printed TPU parts. *Progress in Additive Manufacturing*, art. no. 120422.
DOI: 10.1007/s40964-024-00937-x

52. Mercurio, M., Patriarca, A., Cerra, S., Hajareh Haghighi, F., Sciubba, F., Cocco, E., Giorgi, G., Mura, F., Talone, A., Matassa, R., Lozano, J.G., Pettiti, I., Schiavi, P.G., Donzello, M.P., Angelucci, A., Fratoddi, I., Brasili, E. (2025) Functionalized Iron Oxide-Silver Nanohybrids for Enhanced Germination of Sorghum. *ACS Applied Nano Materials*, 8 (18), pp. 9227-9242.
DOI: 10.1021/acsanm.5c00702

53. Molina-Becerra, M., Morales-Rodrigo, C., Suárez, A. (2025) A semilinear interface elliptic equation with sublinear and logistic reactions terms. *Zeitschrift fur Angewandte Mathematik und Physik*, 76 (2), art. no. 55.
DOI: 10.1007/s00033-025-02439-4

54. Molinillo, P., Gálvez Del Postigo, A., Puyo, M., Vattier, F., Beltrán, A.M., Rendón, N., Lara, P., Suárez, A. (2025) Selective H/D Exchange in E-H (E = Si, Ge, Sn) Bonds Catalyzed by 1,2,3-Triazolylidene-Stabilized Nickel Nanoparticles. *Inorganic Chemistry*, 64 (16), pp. 8125-8134.
DOI: 10.1021/acs.inorgchem.5c00216

55. Montealegre-Meléndez, I., Arévalo, C.M., Neubauer, E., Pérez-Soriano, E.M. (2025) Enhancing Wear Resistance of Titanium Alloys: Insights from Tribological Testing. *Materials Science Forum*, 1146, pp. 65-71.
DOI: 10.4028/p-T5vSw3

56. Motaghian, F., Nazari, S., Jafari, R., Dominguez-Morales, J.P. (2025) Application of modular and sparse complex networks in enhancing connectivity patterns of liquid state machines. *Chaos, Solitons and Fractals*, 191, art. no. 115940.
DOI: 10.1016/j.chaos.2024.115940

57. Navarro, P., Barrera, M., Olmo, A., Torres, Y. (2025) Electrical impedance characterization and modelling of Ti-B implants. *Journal of Biomedical Materials Research - Part A*, 113 (1), art. no. e37797.
DOI: 10.1002/jbm.a.37797

58. Parente, J.M., Ferreira, L.M., Reis, P.N.B. (2025) Evaluating failure modes through energy dissipation mechanisms in hybrid composites under bending loads. *Engineering Fracture Mechanics*, 316, art. no. 110855.
DOI: 10.1016/j.engfracmech.2025.110855

59. Perea-Brenes, A., Ruiz-Pino, N., Yubero, F., Garcia, J.L., Gonzalez-Elipe, A.R., Gomez-Ramirez, A., Prados, A., Lopez-Santos, C. (2025) Ion Mobility and Segregation in Seed Surfaces Subjected to Cold Plasma Treatments. *Journal of Agricultural and Food Chemistry*, 73 (11), pp. 6486-6499.
DOI: 10.1021/acs.jafc.4c09650

60. Perez-Puyana V. M., Romero A., Guerrero A., Moroni L., Wieringa P. A., (2025) Enabling low molecular weight electrospinning through binary solutions of polymer blends. *Next Materials*, 6, art. no. 100306
DOI: 10.1016/j.nxmate.2024.100306
Acceso al texto

61. Prieto-Laria, P., Jiménez-Rodríguez, A., Ruiz-Salvador, A.R., Canosa, I., Flores, A., Coll, Y., Borrego, K., Nuñez, N.O., Alonso, E., Fernández-Ibáñez, P., Farias, T., Ballesteros, M. (2025) From the lab to the river: Bimetallic clinoptilolite photocatalyst for antibiotic-resistant bacteria and emerging contaminants removal. *Journal of Environmental Chemical Engineering*, 13 (3), art. no. 116663. DOI: 10.1016/j.jece.2025.116663

62. Robau-Porrua, A., González, J.E., Arancibia-Castillo, R., Picardo, A., Araneda-Hernández, E., Torres, Y. (2025) Design, fabrication, and characterization of novel dental implants with porosity gradient obtained by Selective Laser Melting. (2025) *Materials and Design*, 251, art. no. 113660. DOI: 10.1016/j.matdes.2025.113660

63. de la Rosa, J.E., García-Cabezón, C., García-Hernández, C., Delgado-Pujol, E.J., García-García, F.J., Bocaccini, A.R., Martín-Pedrosa, F., Torres, Y. (2025) Enhancing corrosion resistance and bioactive behavior of porous metallic scaffolds through electrochemical coatings. *Applied Surface Science Advances*, 26, art. no. 100723. DOI: 10.1016/j.apsadv.2025.100723

64. Rubio, S., Pérez-Soriano, E.M., Arévalo, C., Du, X., Guo, X., Garcia-Garcia, F.J., Montealegre-Meléndez, I., Beltrán, A.M., Nicolosi, V., Lozano, J.G. (2025) Boosting the capacity of Mg-stabilized Na0.66Ni0.27Mg0.06Mn0.66O2 cathodes via particle size control in an emulsion-based synthesis route. *Journal of Materials Chemistry A* DOI: 10.1039/d5ta02682b

65. Ruiz-Martínez J.D., Ríos, J.D., Pérez-Soriano, E.M., Cifuentes, H., Leiva C. (2025) Effect of crystalline waterproofing admixture for enhancing the mechanical and fracture properties of ultra-high-performance fiber-reinforced concrete. *Journal of Materials in Civil Engineering.* **DOI:**

66. Ruiz Martínez, J.D., Ríos, J.D., Pérez-Soriano, E.M., Cifuentes, H., Leiva, C. (2025) Effect of nano silicon nitride on the microstructural characteristics and mechanical properties of ultra-high-performance steel fiber reinforced concrete. *Materials and Structures/Materiaux et Constructions*, 58 (4), art. no. 103. DOI: 10.1617/s11527-025-02634-9

67. Ruiz Martínez, J.D., Ríos, J.D., Pérez-Soriano, E.M., Cifuentes, H., Leiva, C. (2025) Enhancing the matrix-fiber bond in ultra-high-performance fiber-reinforced concrete using a high performance plasticizer. Impact on the flowability, physical and mechanical properties. *Construction and Building Materials*, 470, art. no. 140683. DOI: 10.1016/j.conbuildmat.2025.140683

68. Ruiz Martínez, J.D., Ríos, J.D., Perez-Soriano, E., Cifuentes, H., Leiva, C. (2025) The Impact of Steel Fiber Length and Dosage on Microstructure and Mechanical Performance in UHPFRC: A Hybrid Approach. *Hormigón y Acero, 4089.* DOI: 10.33586/hya.2025.4089

69. Sánchez-López, J.C., Godinho, V., López-Santos, C., Navarro, P., Rodríguez-Albelo, L.M., Sánchez-Pérez, M., Jiménez-Piqué, E., Torres, Y. (2025) Magnetron sputtered ß-Ti coatings for biomedical application: A HiPIMS approach to improve corrosion resistance and mechanical behavior. *Applied Surface Science*, 680, art. no. 161366.
DOI: 10.1016/j.apsusc.2024.161366

70. Seyedbokaei F. A., Felix M., Bengoechea C. (2025) Effect of Blending and Conjugation of Carboxymethyl Cellulose and Zein in Bioplastic Materials. *Journal of Polymers and the Environment*, 33(3), 1308-1320.
DOI: 10.1007/s10924-024-03482-4

71. Tavares, T.D., Ribeiro, A., Bengoechea, C., Rocha, D., Alcudia, A., Begines, B., Silva, C., Antunes, J.C., Felgueiras, H.P. (2025) Lyocell/silver knitted fabrics for prospective diabetic foot ulcers treatment: Effect of knitting structure on bacteria and cell viability. *Materials Today Communications,* 45, art. no. 112389.
DOI: 10.1016/j.mtcomm.2025.112389

72. Tena-Sánchez, E., Potestad-Ordóñez, F.E., Zúñiga-González, V., Acosta, A.J. (2025) Low-Cost Full Correlated-Power-Noise Generator to Counteract Side-Channel Attacks. *Applied Sciences (Switzerland)*, 15 (6), art. no. 3064.
DOI: 10.3390/app15063064

73. Trujillo-Cayado L.A., Sánchez-García R.M., García-Domínguez I., Rodríguez-Luna A., Hurtado-Fernández E., Santos J. (2025) Emerging Trends in Sustainable Biological Resources and Bioeconomy for Food Production. *Applied Sciences (Switzerland)*, 15 (12), art. no. 6555
DOI: 10.3390/app15126555

74. Vargas González, A., Pérez Ramos, P., Pérez-Soriano, E.M., Sola Dueñas, F.J., Pérez Almazán, D., García Couce, J., Fuentes Estévez, G. (2025) Silk-Sericin Release from Polymeric Scaffold as Complementary Dermocosmetic Treatment for Acne. *Polymers*, 17 (6), art. no. 781.
DOI: 10.3390/polym17060781

75. Vela-Albarrán M., Calero N., Carrillo F., Trujillo-Cayado L.A. (2025) Dual biopolymer systems for structuring oil-in-water emulsions: Engineering insights into phycocyanin–chia mucilage mixtures. *Journal of Industrial and Engineering Chemistry*.
DOI: 10.1016/j.jiec.2025.06.002

76. Vela-Albarrán, M., Santos, J., Calero, N., Carrillo, F., Trujillo-Cayado, L.A. (2025) Phycocyanin-Psyllium Gel Systems: Rheological Insights and Functional Applications in Algae Oil Emulgels. *Food and Bioprocess Technology*
DOI: 10.1007/s11947-025-03834-5

77. Zouari Ahmed, R., Laouini, S.E., Salmi, C., Bouafia, A., Meneceur, S., Mohammed, H.A., Chihi, S., Alharthi, F., Abdullah, J.A.A. (2025) Green synthesis of α-Fe2O3 and α-Fe2O3@Ag NC for degradation of rose Bengal and antimicrobial activity. *Biomass Conversion and Biorefinery*, 15 (1), pp. 255-269.
DOI: 10.1007/s13399-023-05046-3
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