

# L'accés obert i la producció científica de l'ETSEIB

Anàlisi de la producció científica de l'ETSEIB  
2021

# Sumari

1. Introducció	<b>2</b>
2. La producció científica de l'any 2021 a l'ETSEIB	<b>3</b>
3. L'accés obert i la publicació a l'ETSEIB	<b>4</b>
3.1. Estratègies per publicar en obert	4
3.2. Anàlisi de les revistes	4
3.3. Anàlisi de les editorials	8
Annex 1. Articles publicats	<b>10</b>
Annex 2. Revistes	<b>38</b>

# 1. Introducció

Aquest informe recull els articles de revista publicats pel personal docent i investigador de l'Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (ETSEIB) durant l'any 2021 i introduïts a DRAC (Descriptor de la Recerca Acadèmica).

La metodologia ha consistit en l'extracció de Futur (<https://futur.upc.edu/>) de la producció científica de tot el PDI adscrit a l'ETSEIB, limitant la cerca a l'any 2021 i als articles de revista. L'extracció es va fer el dia 28 de juny de 2022. Per tant, si s'han entrat publicacions a posteriori, no s'han pogut incloure a l'informe.

Com a novetat d'enguany, s'ha volgut fixar la mirada en les condicions d'accés obert de les diverses publicacions que apareixen en aquest informe.

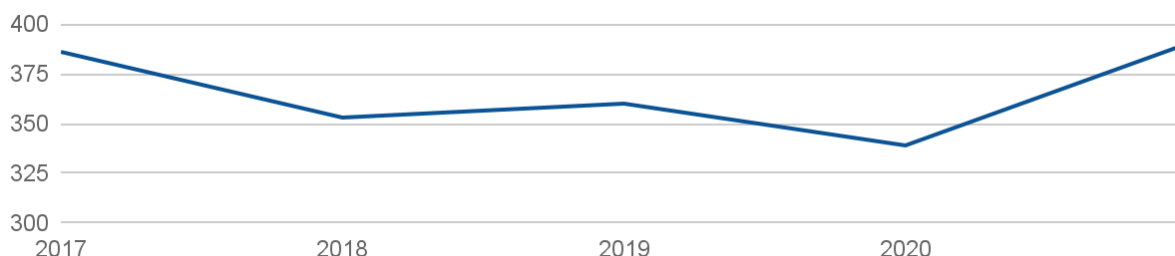
Així doncs, de cada revista s'ha recuperat la següent informació:

- Quins articles s'han publicat l'any 2021
- Si la revista està indexada a la base de dades Journal Citation Reports, s'ha indicat el seu índex d'impacte i lloc en el rànquing (quartil)
- Quines condicions d'accés obert té

En cas de detectar alguna errada o mancança, si us plau contacteu amb la Biblioteca ([biblioteca.itseib@upc.edu](mailto:biblioteca.itseib@upc.edu)).

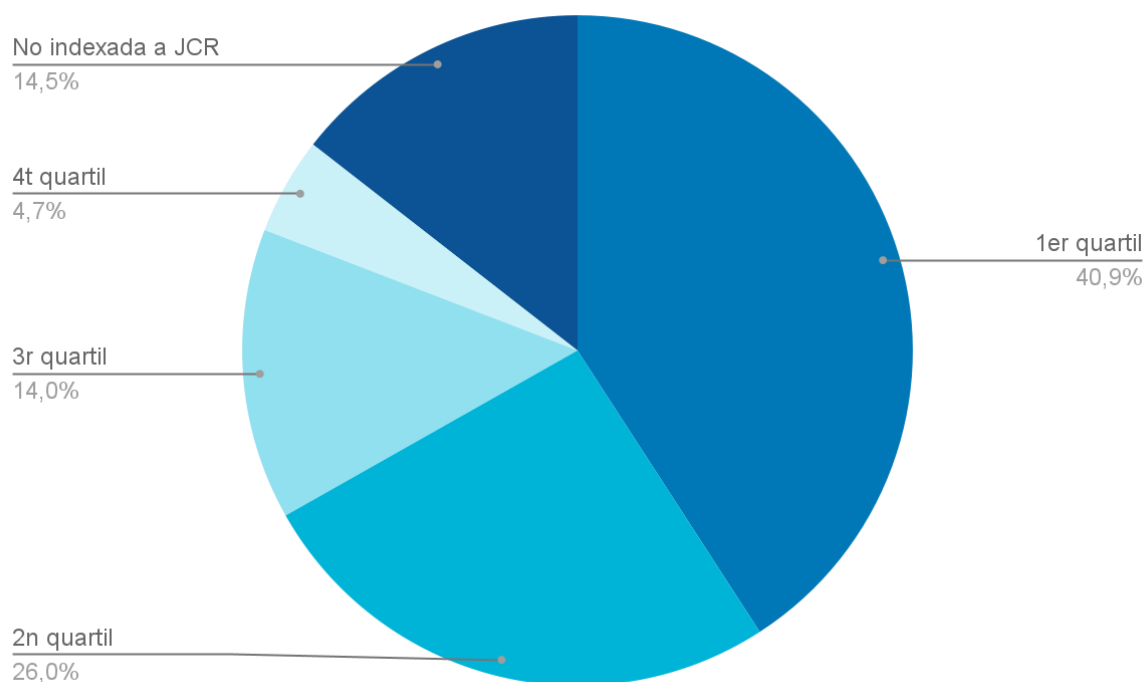
## 2. La producció científica de l'any 2021 a l'ETSEIB

S'ha introduït a DRAC un total de 390 articles publicats l'any 2021 per investigadors de l'ETSEIB (actualment hi ha 295 investigadors en actiu al centre). Això suposa un increment important respecte els darrers anys, tal i com es pot veure en el gràfic:



El llistat de tots els articles es pot consultar a l'[Annex 1](#) del document.

S'ha publicat en un total de 235 revistes, de les quals 201 estan indexades a la base de dades Journal Citation Reports: 96 es troben dins el 1r quartil, 61 en el 2n, 33 en el 3r i 11 en el 4t.



Així doncs, dels 390 articles, 345 han estat publicats en revistes indexades a Journal Citation Reports, el que suposa un 88% del total d'articles publicats, un 2% més que l'any passat.

El llistat de totes les revistes es pot consultar a l'[Annex 2](#) del document, on es pot consultar, de cadascuna d'elles, el factor d'impacte i el quartil en cas que estiguin indexades al Journal Citation Reports.

## 3. L'accés obert i la publicació a l'ETSEIB

### 3.1. Estratègies per publicar en obert

Abans de fer l'anàlisi de la publicació de l'ETSEIB, cal fer un aclariment de les diferents estratègies per publicar en obert que apareixen aquest informe (podeu obtenir més informació a la pàgina sobre l'[accés obert](#) de Bibliotècnica):

**Revistes híbrides:** en aquestes revistes els autors o les seves institucions paguen una quota perquè els seus articles es publiquin en obert, la resta només són consultables per als usuaris subscrits.

**Via daurada:** les revistes ofereixen accés obert a tots els seus articles sense cobrar subscripció per l'accés. Les despeses de publicació les cobreixen els autors o les institucions a què pertanyen.

**Via diamant:** les revistes ofereixen accés obert als seus articles sense cobrar subscripció per l'accés, i tampoc tenen cost per als autors ni per les institucions.

Per publicar en revistes híbrides o per la via daurada, la UPC té acords amb algunes editorials que cobreixen les despeses de publicació o bé permeten aplicar descomptes, consulteu la pàgina sobre els [acords transformatius](#) a Bibliotècnica per a més informació.

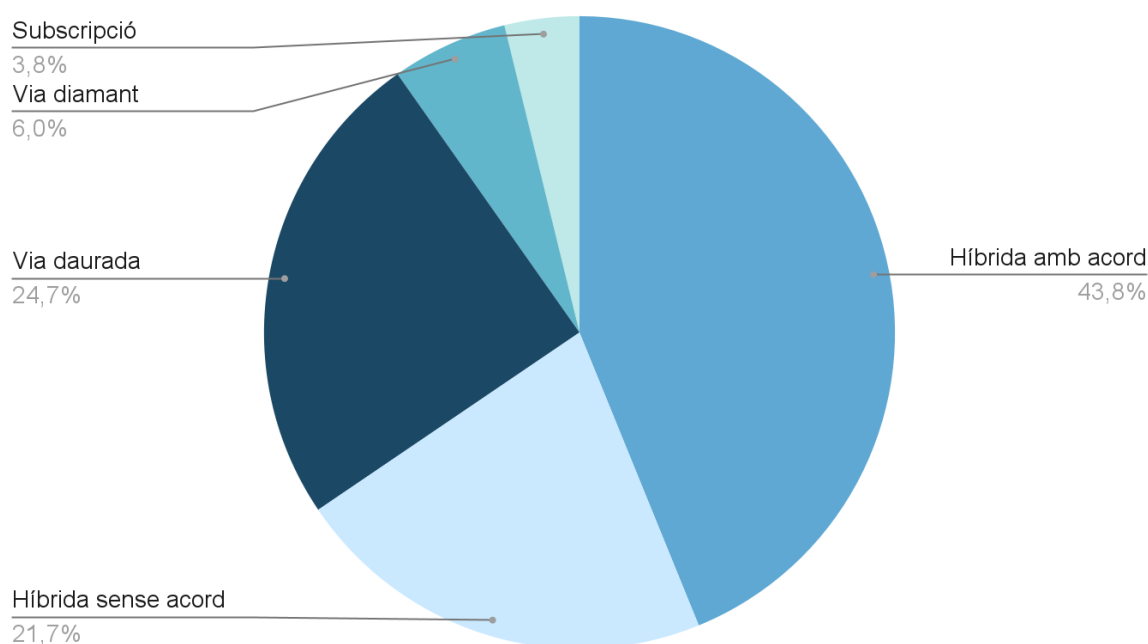
### 3.2. Anàlisi de les revistes

Tal i com s'ha dit, durant l'any 2021 els investigadors de l'ETSEIB han publicat un total de 390 articles en 235 revistes.

S'han analitzat aquestes revistes per veure quines condicions d'accés obert ofereixen:

Tipus d'accés obert	Nombre de revistes	Nombre d'articles
Híbrida amb acord UPC	103	143
Híbrida sense acord UPC	51	80
Accés obert (via daurada)	58	141
Accés obert (via diamant)	14	16
Sense accés obert (subscripció)	9	10

Distribució de les revistes on s'ha publicat en funció de les condicions d'accés obert que ofereixen:



La majoria d'articles (un 57,2% dels articles publicats) s'han acabat publicant en revistes híbrides (un 65,5% del total de revistes), ja sigui en revistes que tenen un acord amb la UPC per publicar en obert (43,4%) o en revistes sense acord amb la UPC per publicar en obert (22,1%).

157 articles (un 40,2% del total d'articles) s'han publicat en revistes d'accés obert: un 24,7% son revistes de l'anomenada via daurada, i un 6% son revistes de la via diamant.

Només un 3,8% de les revistes analitzades no ofereixen cap tipus d'accés obert (s'accedeix al seu contingut via subscripció).

A continuació es pot consultar el llistat de les revistes amb més d'un article publicat i la seva via d'accés obert:

Revista	Editorial	Nombre d'articles	Accés obert
<a href="#">Energies</a>	MDPI	14	Via daurada
<a href="#">Sensors</a>	MDPI	14	Via daurada
<a href="#">Materials</a>	MDPI	10	Via daurada
<a href="#">Electronics</a>	MDPI	9	Via daurada
<a href="#">IEEE Access</a>	IEEE	7	Via daurada

Revista	Editorial	Nombre d'articles	Accés obert
<a href="#">IEEE Transactions on Power Electronics</a>	IEEE	6	Híbrid sense acord
<a href="#">IOP Conference Series: Materials Science and Engineering</a>	IoP	6	Via daurada
<a href="#">Polymers</a>	MDPI	6	Via daurada
<a href="#">Sustainability</a>	MDPI	6	Via daurada
<a href="#">Applied Sciences</a>	MDPI	5	Via daurada
<a href="#">Control Engineering Practice</a>	Elsevier	5	Híbrid amb acord
<a href="#">IEEE Transactions on Power Delivery</a>	IEEE	5	Híbrid sense acord
<a href="#">ce/papers</a>	Wiley	4	Híbrid amb acord
<a href="#">Fusion Engineering and Design</a>	Elsevier	4	Híbrid amb acord
<a href="#">International Journal of Electrical Power &amp; Energy Systems</a>	Elsevier	4	Híbrid amb acord
<a href="#">Metals</a>	MDPI	4	Via daurada
<a href="#">Physica Medica</a>	Elsevier	4	Híbrid amb acord
<a href="#">Renewable Energy</a>	Elsevier	4	Híbrid amb acord
<a href="#">Antioxidants</a>	MDPI	3	Via daurada
<a href="#">Automatica</a>	Elsevier	3	Híbrid amb acord
<a href="#">Discrete and Continuous Dynamical Systems: Series A</a>	AIMS	3	Híbrid sense acord
<a href="#">Dyna: Ingeniería e Industria</a>	Dyna	3	Híbrid sense acord
<a href="#">IEEE Transactions on Power Systems</a>	IEEE	3	Híbrid sense acord
<a href="#">Journal of Environmental Management</a>	Elsevier	3	Híbrid amb acord
<a href="#">Journal of Radiological Protection</a>	IoP	3	Híbrid sense acord
<a href="#">Physical Review C</a>	APS	3	Híbrid sense acord
<a href="#">Plasma Physics and Controlled Fusion</a>	IoP	3	Híbrid sense acord
<a href="#">Processes</a>	MDPI	3	Via daurada
<a href="#">Renewable and Sustainable Energy Reviews</a>	Elsevier	3	Híbrid amb acord
<a href="#">Scientific Reports</a>	Springer	3	Via daurada
<a href="#">Surface and Coatings Technology</a>	Elsevier	3	Híbrid amb acord
<a href="#">Water</a>	MDPI	3	Via daurada
<a href="#">Annals of Nuclear Energy</a>	Elsevier	2	Híbrid amb acord
<a href="#">Applied Energy</a>	Elsevier	2	Híbrid amb acord
<a href="#">Biomacromolecules</a>	ACS	2	Híbrid amb acord

Revista	Editorial	Nombre d'articles	Accés obert
<u>Communications in Nonlinear Science and Numerical Simulation</u>	Elsevier	2	Híbrid amb acord
<u>Computers &amp; Chemical Engineering</u>	Elsevier	2	Híbrid amb acord
<u>Dyna Management</u>	Dyna	2	Híbrid sense acord
<u>Energy</u>	Elsevier	2	Híbrid amb acord
<u>Energy Conversion and Management</u>	Elsevier	2	Híbrid amb acord
<u>IEEE Transactions on Automatic Control</u>	IEEE	2	Híbrid sense acord
<u>IEEE Transactions on Biomedical Engineering</u>	IEEE	2	Híbrid sense acord
<u>IEEE Transactions on Energy Conversion</u>	IEEE	2	Híbrid sense acord
<u>IET Power Electronics</u>	Wiley	2	Via daurada
<u>Journal of Emerging and Selected Topics in Power Electronics</u>	IEEE	2	Híbrid sense acord
<u>Journal of Environmental Chemical Engineering</u>	Elsevier	2	Híbrid amb acord
<u>Journal of Neural Engineering</u>	IoP	2	Híbrid sense acord
<u>Journal of The Franklin Institute</u>	Elsevier	2	Híbrid amb acord
<u>Materials and Structures</u>	Springer	2	Híbrid amb acord
<u>Measurement</u>	Elsevier	2	Híbrid amb acord
<u>Nuclear Fusion</u>	IoP	2	Híbrid sense acord
<u>PLoS One</u>	PLoS	2	Via daurada
<u>Polymer Chemistry</u>	RSC	2	Híbrid sense acord
<u>Quality Engineering</u>	T&F	2	Híbrid sense acord
<u>Radiation Protection Dosimetry</u>	Oxford A	2	Híbrid sense acord
<u>Reactive and Functional Polymers</u>	Elsevier	2	Híbrid amb acord
<u>Revista del Congrés Internacional de Docència Universitària i Innovació</u>	CIDUI	2	Via diamant
<u>Revista Iberoamericana de Automàtica e Informàtica Industrial</u>	UPV	2	Via diamant
<u>Separation and Purification Technology</u>	Elsevier	2	Híbrid amb acord
<u>Solar Energy</u>	Elsevier	2	Híbrid amb acord



### 3.3. Anàlisi de les editorials

S'ha publicat en un total de 69 editorials; les editorials on més s'ha publicat han estat Elsevier i MDPI.

Les revistes d'Elsevier son majoritàriament revistes híbrides que tenen un acord amb la UPC per a publicar en obert ([podeu consultar aquí l'acord](#)). La UPC també té un acord per publicar en obert amb les editorials Springer i Wiley.

Pel que fa a les revistes de MDPI, son revistes d'accés obert o via daurada, així com també les revistes de l'editorial Frontiers (en aquest cas els membres de la UPC gaudeixen d'un descompte per publicar si son autors de correspondència).

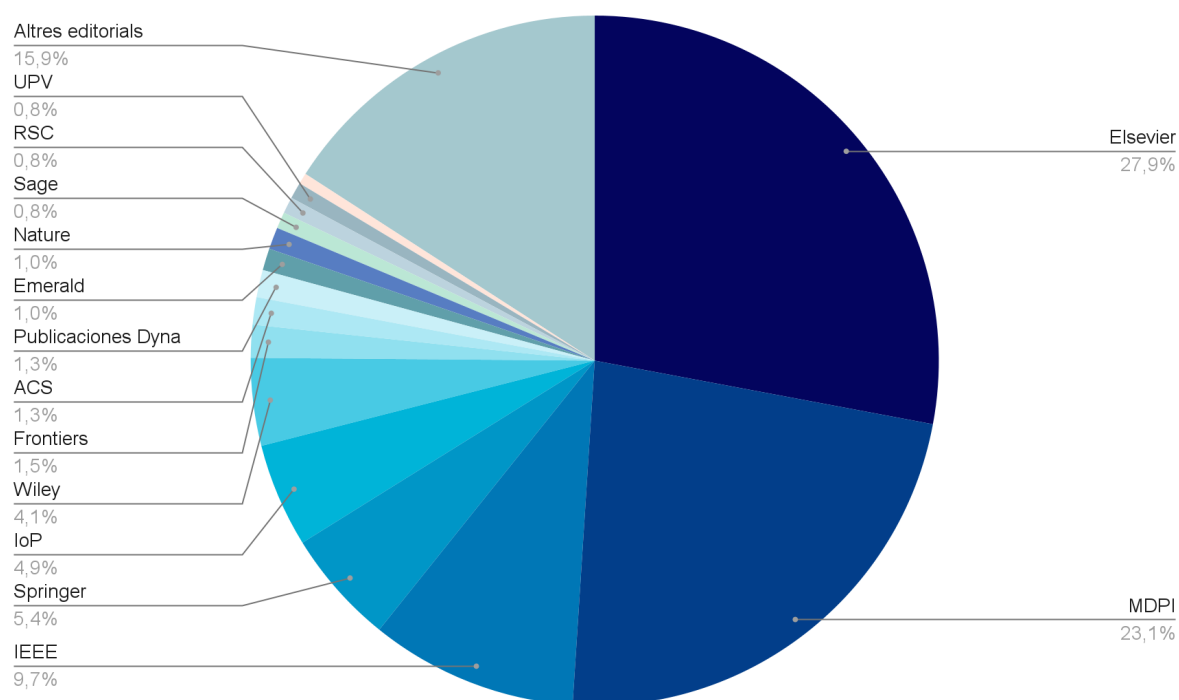
En el cas dels articles publicats a les editorials IEEE, Institute of Physics i Royal Society of Chemistry, l'accés obert s'aconsegueix mitjançant l'anomenada via verda, que permet l'autoarxiu dels articles en dipòsits institucionals com UPCommons o en dipòsits temàtics com ArXiv per fer-los accessibles a la xarxa i poder-los reutilitzar, sempre respectant les condicions que estableix la revista on es publica l'article.

A continuació es detallen les editorials que han tingut més revistes amb publicacions d'investigadors de l'ETSEIB. De cadascuna d'elles, s'especifica quin tipus d'accés obert ofereix, el nombre de revistes on s'han publicat els articles i el nombre d'articles publicats l'any 2021:

Editorial	Tipus d'accés obert	Nombre de revistes on s'ha publicat	Nombre d'articles publicats
Elsevier	Revistes híbrides amb acord UPC per publicar en obert	74	109
MDPI	Revistes d'accés obert	24	90
Springer	Revistes híbrides amb acord UPC per publicar en obert	19	21
IEEE	Via verda, es diposita el postprint a UPCommons	17	38
Wiley	Revistes híbrides amb acord UPC per publicar en obert	12	16
Institute of Physics	Via verda, es diposita el postprint a UPCommons	8	19
Frontiers	Revistes d'accés obert	6	6
American Chemical Society	Revistes híbrides amb acord UPC per publicar en obert	4	5

Emerald	Revistes híbrides sense acord UPC per publicar en obert	4	4
Sage Publishing	Revistes híbrides sense acord UPC per publicar en obert	3	3
BMC	Revistes d'accés obert	2	2
Nature	Revistes d'accés obert	2	4
Publicaciones Dyna	Revistes híbrides sense acord UPC per publicar en obert	2	5
Royal Society of Chemistry	Via verda, es diposita el postprint a UPCommons	2	3
Universitat Politècnica de València	Revistes d'accés obert	2	3
Altres editorials		54	62

En el següent gràfic es pot veure el total d'articles publicats distribuïts per editorials:



## Annex 1. Articles publicats

Aquest apartat recull els 390 articles publicats pel personal docent i investigador de l'ETSEIB durant l'any 2021 i introduïts a DRAC.

1. Balibrea-Correa, J. *et al.* [A first prototype of C6D6 total-energy detector with SiPM readout for neutron capture time-of-flight experiments](#). *Nucl. instruments methods Phys. Res. Sect. A, Accel. SP* **985**, 164709:1–164709:8 (2021).
2. Cantó, O., Marimon, X., Ferrer, M. & Cabratosa, J. [Comparison between experimental digital image processing and numerical methods for stress analysis in dental implants with different restorative materials](#). *J. Mech. Behav. Biomed. Mater.* **113**, 104092:1–104092:14 (2021).
3. Ortiz, A., Velasco, M., Esbri, O., De Medina, V. & Russo, B. [The economic impact of climate change on urban drainage master planning in Barcelona](#). *Sustain.* **13**, 71:1–71:25 (2021).
4. Lacruz, A., Salvador, M., Blanco, M., Vidal, K. & de Ilarduya, A. [Development of fluorine-free waterborne textile finishing agents for anti-stain and solvent-water separation based on low surface energy \(co\)polymers](#). *Prog. Org. coatings* **150**, 105968/1–105968/16 (2021).
5. Lana, F. J. *et al.* [Autoregressive process of monthly rainfall amounts in Catalonia \(NE Spain\) and improvements on predictability of length and intensity of drought episodes](#). *Int. J. Climatol.* **41**, E3178–E3194 (2021).
6. Ananduta, W., Ocampo-Martinez, C. & Nedic, A. [A distributed augmented Lagrangian method over stochastic networks for economic dispatch of large-scale energy systems](#). *IEEE Trans. Sustain. Energy* **12**, 1927–1934 (2021).
7. Lopez, A., Picart, S. & Perera, A. [Balancing data on deep learning-based proteochemometric activity classification](#). *J. Chem. Inf. Model.* **61**, 1657–1669 (2021).
8. Díaz, J., Costa-Castelló, R. & S., D. [Un enfoque interactivo para el análisis y diseño de sistemas de control utilizando el método del lugar de las raíces](#). *Rev. Iberoam. automática e informática Ind.* **18**, 172–188 (2021).
9. Benazizi, I., Martinez, J. M., Ortiz, R., Ferrer, L. & Ronda, E. [Compliance with dietary recommendations and sociodemographic factors in a cross-sectional study of natives and immigrants in Spain](#). *J. Immigr. Minor. Heal.* 1–11 (2021). doi:10.1007/s10903-021-01226-3
10. Clemente, A., Montiel, M., Barreras, F., Lozano Fantoba, A. & Costa-Castelló, R. [Vanadium redox flow battery state of charge estimation using a concentration model and a sliding mode observer](#). *IEEE access* **9**, 72368–72376 (2021).
11. Blanco, M. *et al.* [Combining bioimpedance and myographic signals for the assessment of COPD during loaded breathing](#). *IEEE Trans. Biomed. Eng.* **68**, 298–307 (2021).
12. Claverol, M. *et al.* [Total domination in plane triangulations](#). *Discrete Math.* **344**, 112179:1–112179:14 (2021).

13. Alberich, M., Almirón, P., Blanco, G. & Melle, A. [The minimal tjurina number of irreducible germs of plane curve singularities](#). *Indiana Univ. Math. J.* **70**, 1211–1220 (2021).
14. Codina-Torrella, I. & Almajano, M. P. [Adaptació d'una assignatura mitjançant la incorporació d'estratègies docents innovadores](#). *Rev. del Congrés Int. Docència Univ. i Innovació* 1–11 (2021).
15. Batlle, M. & Mateo, M. [Analysis of the factors that determine cinema attendance](#). *Int. J. Entertain. Technol. Manag.* (2021).
16. Olshanii, M., Deshombres, D., Gonchenko, M., Dunjko, V. & Astrakharchik, G. [Triangular Gross-Pitaevskii breathers and Damski-Chandrasekhar shock waves](#). *SciPost Phys.* **10**, 034210:1–034210:12 (2021).
17. Puig, X. & Ginebra, J. [Bayesian spatiotemporal model for life expectancy mapping: changes in Barcelona from 2007 to 2018](#). *Geogr. Anal.* 1–21 (2021). doi:10.1111/gean.12299
18. Llupià, A. *et al.* [Factors related to inhibition of lactation by pharmacological means at birth in a Spanish referral hospital \(2011-2017\) Factores relacionados con la inhibición de la lactancia por medios farmacológicos al nacer en un hospital de referencia español \(2011-2017\)](#). *Gac. Sanit.* **36**, 6–11 (2021).
19. Delgado-Aguíñaga, J., Puig, V. & Becerra-López, F. [Leak diagnosis in pipelines based on a Kalman filter for Linear Parameter Varying systems](#). *Control Eng. Pract.* **115**, 104888:1–104888:11 (2021).
20. Al Mohamad, A., Puig, V. & Hoblos, G. [Prognosis based on the joint parameter/state estimation using zonotopic LPV set-membership approach](#). *IFAC-PapersOnLine* **54**, 280–285 (2021).
21. Alberich, M., Ferragut, A. & Llibre, J. [Quadratic planar differential systems with algebraic limit cycles via quadratic plane Cremona maps](#). *Adv. Math. (N. Y.)*. **389**, 107924:1–07924:38 (2021).
22. Ananduta, W. & Ocampo-Martinez, C. [Event-triggered partitioning for non-centralized predictive-control-based economic dispatch of interconnected microgrids](#). *Automatica* **132**, 109829:1–109829:8 (2021).
23. Masclans, P., De Medina, V., Santos, M. A. & Alvarez, J. A. [Real drive cycles analysis by ordered power methodology applied to fuel consumption, CO<sub>2</sub>, NO<sub>x</sub> and PM emissions estimation](#). *Front. Environ. Sci. Eng.* **15**, 4:1–4:14 (2021).
24. Garcia-Planas, M. I. & Taberna, J. [Transición de la docencia presencial a la no presencial en la UPC durante la pandemia del COVID-19](#). *IJERI Int. J. Educ. Res. Innov.* **15**, 177–187 (2021).
25. Febrer, M., Pallares, R., Fregly, B. J. & Font-Llagunes, J. M. [Prediction of three-dimensional crutch walking patterns using a torque-driven model](#). *Multibody Syst. Dyn.* **51**, 1–19 (2021).
26. Alvarez, J. & Planas-Vilanova, F. A. [Divisors of expected Jacobian type](#). *Math. Scand.*

- 127, 161–184 (2021).
27. Valentin, D. *et al.* [On the quantification of local power densities in a new vibration bioreactor.](#) *PLoS One* **16**, e0245768: 1–e0245768 (2021).
  28. Kingeski, L. & Olivella, J. [Impacto de los programas de becas en la movilidad de estudiantes internacionales: el caso de Brasil.](#) *Brazilian J. Bus.* **3**, 296–311 (2021).
  29. Levieux, L., Ocampo-Martinez, C., Inthamoussou, F. & De Battista, H. [Predictive management approach for the coordination of wind and water-based power supplies.](#) *Energy* **219**, 119535/1–119535/11 (2021).
  30. Piacentino, E., Angulo, C. & Guarner, A. [Generating synthetic ecgs using gans for anonymizing healthcare data.](#) *Electron.* **10**, 389/1–389/21 (2021).
  31. Boulaala, M. *et al.* [Reviews of mechanical design and electronic control of multi-material/color FDM 3D printing.](#) *Lect. notes Mech. Eng.* 230–238 (2021). doi:10.1007/978-3-030-62199-5\_20
  32. El Mesbahi, J., Buj-Corral, I. & El Mesbahi, A. [Ceramic paste extruder of 3D printing: status, types, and prospects.](#) *Lect. notes Mech. Eng.* 220–229 (2021). doi:10.1007/978-3-030-62199-5\_19
  33. Ainsbury, E., Ginjaume, M., Chumak, V. & Struelens, L. [Radiation-induced lens opacities: Epidemiological, clinical and experimental evidence, methodological issues, research gaps and strategy.](#) *Environ. Int.* **146**, 106213:1–106213:14 (2021).
  34. Ziegler, A., Oeser, D., Hein, T., Montesinos-Miracle, D. & Ackva, A. [Reducing cell to cell variation of lithium-ion battery packs during operation.](#) *IEEE access* **9**, 24994–25001 (2021).
  35. Ayala, M., Benavides, H., Riba, G. & Blanco-Romero, E. [Underwater power generator based on gravity vortex siphon boost energy transition.](#) *J. Sustain. Dev. energy, water Environ. Syst.* **9**, 1080374:1–1080374:13 (2021).
  36. Fernandez-Francos, X., Konuray, O., Ramis, X., Serra, M. À. & de la Flor, S. [Enhancement of 3D-printable materials by dual-curing procedures.](#) *Materials (Basel).* **14**, 1–23 (2021).
  37. Bonet, N., von Barnekow, A., Mata, M., Gomar, C. & Tost, D. [Three-dimensional game-based cardiopulmonary bypass training.](#) *Clin. Simul. Nurs.* **50**, 81–91.E1 (2021).
  38. Cecilia, A., Serra, M. & Costa-Castelló, R. [Nonlinear adaptive observation of the liquid water saturation in polymer electrolyte membrane fuel cells.](#) *J. Power Sources* **492**, 1–11 (2021).
  39. Maestre, J., F., L., Muros, F. & Ocampo-Martinez, C. [Modular feedback control of networked systems by clustering: a drinking water network case study.](#) *Processes* **9**, 389/1–389/18 (2021).
  40. Bermeo, M., Ocampo-Martinez, C. & Díaz, J. [Adaptive predictive control for peripheral equipment management to enhance energy efficiency in smart manufacturing systems.](#) *J. Clean. Prod.* **291**, 125556/1–125556/12 (2021).

41. Roa, M. *et al.* [Mobile manipulation hackathon: moving into real world applications](#). *IEEE Robot. Autom. Mag.* 2–14 (2021). doi:10.1109/MRA.2021.3061951
42. Machado, J. *et al.* [An adaptive observer-based controller design for active damping of a DC network with a constant power load](#). *IEEE Trans. Control Syst. Technol.* **29**, 2312–2324 (2021).
43. Konuray, O., Bonada, J., Fernandez-Francos, X. & Ramis, X. [Epoxy Doped, Nano-scale Phase-separated Poly-Acrylates with Potential in 3D Printing](#). *Macromol. Mater. Eng.* **306**, 32767–32778 (2021).
44. Pedra, J., Sainz, L. & Monjo, L. [Three-port small signal admittance-based model of VSCs for studies of multi-Terminal HVDC hybrid AC/DC transmission grids](#). *IEEE Trans. power Syst.* **36**, 732–743 (2021).
45. Chourief, H., Boussaid, B., Abdelkrim, M., Puig, V. & Aubrun, C. [Integrated FDI/FTC approach for wind turbines using a LPV interval predictor subspace approach and virtual sensors/actuators](#). *Proc. Inst. Mech. Eng. Part A, J. power energy* **235**, 1527–1543 (2021).
46. Fezai, R. *et al.* [Online statistical hypothesis test for leak detection in water distribution networks](#). *J. Intell. fuzzy Syst.* **40**, 8665–8681 (2021).
47. Romero, D. & Jane, R. [Global and transient effects of intermittent hypoxia on heart rate variability markers: evaluation using an obstructive sleep apnea model](#). *IEEE access* **9**, 19043–19052 (2021).
48. Cecilia, A., Sahoo, S., Dragicevic, T., Costa-Castelló, R. & Blaabjerg, F. [Detection and mitigation of false data in cooperative dc microgrids with unknown constant power loads](#). *IEEE Trans. power Electron.* **36**, 9565–9577 (2021).
49. Resch, M., Bühler, J., Schachler, B. & Sumper, A. [Techno-economic assessment of flexibility options versus grid expansion in distribution grids](#). *IEEE Trans. power Syst.* **36**, 3830–3839 (2021).
50. Diaz C., J. & Ocampo-Martinez, C. [Non-centralised control strategies for energy-efficient and flexible manufacturing systems](#). *J. Manuf. Syst.* **59**, 386–397 (2021).
51. Raveendran, U. *et al.* [An analysis of multi objective energy scheduling in PV-BESS system under prediction uncertainty](#). *IEEE Trans. energy Convers.* **36**, 2276–2286 (2021).
52. Giuliani, F., Guardia, M., Martin, P. & Pasquali, S. [Chaotic-like transfers of energy in hamiltonian PDEs](#). *Commun. Math. Phys.* **384**, 1227–1290 (2021).
53. Doria-Cerezo, A., Repecho, V. & Biel, D. [Three-phase phase-locked loop algorithms based on sliding modes](#). *IEEE Trans. power Electron.* **36**, 10842–10851 (2021).
54. Karimi Pour, F., Puig, V. & Ocampo-Martinez, C. [Economic model predictive control of nonlinear systems using a linear parameter varying approach](#). *Int. J. robust nonlinear Control* **31**, 8218–8238 (2021).
55. Balias, R. *et al.* [Sciatic nerve movement in the deep gluteal space during hip rotations maneuvers](#). *Clin. Anat.* 1–10 (2021). doi:10.1002/ca.23828

56. Gil, O., Garrell, A. & Sanfeliu, A. [Social robot navigation tasks: combining machine learning techniques and social force model](#). *Sensors (Switzerland)* **21**, 1–23 (2021).
57. Gomez, J., Serra, M. & Husar, A. [Controller design for polymer electrolyte membrane fuel cell systems for automotive applications](#). *Int. J. Hydrogen Energy* **46**, 23263–23278 (2021).
58. Fabregat, A., Fernandez-Francos, X. & Ferrando, F. [Controlled composite processing based on off-stoichiometric thiol-epoxy dual-curing systems with sequential heat release \(SHR\)](#). *J. Appl. Polym. Sci.* 52009: 1–52009: 19 (2021). doi:10.1002/app.52009
59. Buj-Corral, I., Vidal, D., Tejo-Otero, A., El Mesbahi, J. & El Mesbahi, A. [Recent advances in the extrusion methods for ceramics](#). *IOP Conf. Ser. Mater. Sci. Eng.* **1193**, 012030:1–012030:8 (2021).
60. Buj-Corral, I., Bagheri, A., Ferrer, M. & Dominguez, A. [Evaluation of porosity in 3D printed trabecular bone structures for prostheses](#). *IOP Conf. Ser. Mater. Sci. Eng.* **1193**, 012038:1–012038:6 (2021).
61. Alvarez, J. *et al.* [Bernstein-Sato functional equations,  \$v\$ -filtrations, and multiplier ideals of direct summands](#). *Commun. Contemp. Math.* (2021). doi:10.1142/S0219199721500838
62. Conde, G., Quijano, N. & Ocampo-Martinez, C. [Modeling and control in open-channel irrigation systems: a review](#). *Annu. Rev. Control* **51**, 153–171 (2021).
63. Ananduta, W., Nedich, A. & Ocampo-Martinez, C. [Distributed augmented Lagrangian method for link-based resource sharing problems of multi-agent systems](#). *IEEE Trans. Automat. Contr.* (2021). doi:10.1109/TAC.2021.3092561
64. Hernández-Lara, A., Perera, A. & Serradell-López, E. [Game learning analytics of instant messaging and online discussion forums in higher education](#). *Educ. Train.* **63**, 1288–1308 (2021).
65. Contreras, R., Blanco, A. & Eguia, J. L. [Implementation barriers to augmented reality technology in public services](#). *Int. J. Interact. Mob. Technol.* **15**, 43–56 (2021).
66. Conde, G., Quijano, N. & Ocampo-Martinez, C. [Detection, isolation, and magnitude estimation of unknown flows in open-channel irrigation systems](#). *IEEE access* **9**, 115348–115369 (2021).
67. Meza, A., Pujadas, P., Meza, L. M., Pardo-Bosch, F. & López, R. [Mechanical optimization of concrete with recycled PET fibres based on a statistical-experimental study](#). *Materials (Basel)*. **14**, 240/1–240/20 (2021).
68. Zhao, W., Egusquiza, M., Presas, A., Valentin, D. & Egusquiza, E. [Improved damage detection in Pelton turbines using optimized condition indicators and data-driven techniques](#). *Struct. Heal. Monit. an Int. J.* **20**, 3239–3251 (2021).
69. Tuninetti, V., Jaramillo, A., Riu, G., Mateo, A. & Roa, J. J. [Experimental correlation of mechanical properties of the Ti-6Al-4V alloy at different length scales](#). *Metals (Basel)*. **11**, 104:1–104:19 (2021).
70. Veciana, J., Jordi, L. & Lores, E. [Residual vibration reduction in back-and-forth moving](#)

- systems driven by slider-crank mechanisms working through a dead point configuration. *Mech. Mach. theory* **158**, 1–18 (2021).
71. Vidal, E. *et al.* Multifunctional homogeneous calcium phosphate coatings: Toward antibacterial and cell adhesive titanium scaffolds. *Surf. coatings Technol.* **405**, 126557 (2021).
  72. Reig, M., Vecino, X., Gibert, O., Valderrama, C. & Cortina, J. Study of the operational parameters in the hollow fibre liquid-liquid membrane contactors process for ammonia valorisation as liquid fertiliser. *Sep. Purif. Technol.* **255**, 117768:1–117768:9 (2021).
  73. Monjo, L., Sainz, L., Mesas, J. J. & Pedra, J. Quasi-z-source inverter-based photovoltaic power system modeling for grid stability studies. *Energies* **14**, 508:1–508:16 (2021).
  74. Fernandez, V. & Gallardo-Gallardo, E. Tackling the HR digitalization challenge: key factors and barriers to HR analytics adoption. *Compet. Rev.* **31**, 162–187 (2021).
  75. Ribas, I. & Companys, R. A computational evaluation of constructive heuristics for the parallel blocking flow shop problem with sequence-dependent setup times. *Int. J. Ind. Eng. Comput.* **12**, 321–328 (2021).
  76. Miguel-Espinar, C. & Villafafila-Robles, R. Ocasión para acelerar la transición energética. *El Periódico Cataluña* 25 (2021).
  77. Martin, H. *et al.* A versatile click chemistry-based approach for functionalizing biomaterials of diverse nature with bioactive peptides. *Chem. Commun. (Camb)*. **57**, 982–985 (2021).
  78. Acosta, L., Muñoz, C. & Carmona, G. Incidence and severity of pertussis hospitalisations in infants aged less than 1 year in 37 hospitals of six EU/EEA countries, results of PERTINENT sentinel pilot surveillance system, December 2015 to December 2018. *Eurosurveillance* **26**, 1–12 (2021).
  79. Alfaro, C., Castilla, M., Camacho, A., Marti, P. & Velasco, M. A distributed control for accurate active-power sharing in islanded microgrids subject to clock drifts. *IET power Electron.* **14**, 1–13 (2021).
  80. Agbemuko, A., J., D., Gomis-Bellmunt, O. & Harnefors, L. Passivity-based analysis and performance enhancement of a vector controlled VSC connected to a weak AC Grid. *IEEE Trans. power Deliv.* **36**, 156–167 (2021).
  81. Martinelli, P. *et al.* Characterization tests for predicting the mechanical performance of SFRC floors: design considerations. *Mater. Struct.* **54**, 3:1–3:13 (2021).
  82. Martinelli, P. *et al.* Characterization tests for predicting the mechanical performance of SFRC floors: identification of fibre distribution and orientation effects. *Mater. Struct.* **54**, 1–13 (2021).
  83. Vagnoni, E., Valentin, D. & Avellan, F. Dynamic behaviour of a Francis turbine during voltage regulation in the electrical power system. *Int. J. Electr. power energy Syst.* **125**, 106419:1–106419:10 (2021).
  84. Fernandez, D. *et al.* Validation of the MC-GPU Monte Carlo code against the PENELOPE/penEasy code system and benchmarking against experimental conditions



- for typical radiation qualities and setups in interventional radiology and cardiology. *Phys. medica* **82**, 64–71 (2021).
85. Almajano, M. P. & Querfelli, M. [Estabilidad oxidativa de emulsiones alimentarias de aceite en agua](#). *Tecnifood* 106–108 (2021).
  86. Alberich, M. [Segueix el conill blanc](#). *SCM/Notícies* **48**, 86–89 (2021).
  87. Chen, J., Masdemont, J. J., Gomez Muntané, G. & Jianping, Y. [An efficient statistical adaptive order-switching methodology for kalman filters](#). *Commun. nonlinear Sci. Numer. Simul.* **93**, 105539:1–105539:12 (2021).
  88. Pérez, E. *et al.* [Leak diagnosis in pipelines using a combined artificial neural network approach](#). *Control Eng. Pract.* **107**, 104677/1–104677/10 (2021).
  89. de Gracia, E., Guillem-Martí, J., Lousa, A., Punset, M. & Ortiz-Hernández, M. [Bactericidal silver-doped DLC coatings obtained by pulsed filtered cathodic arc co-deposition](#). *Surf. coatings Technol.* **411**, 126977:1–126977:11 (2021).
  90. Rodríguez, A., Lobo-Prat, J. & Font-Llagunes, J. M. [Systematic review on wearable lower-limb exoskeletons for gait training in neuromuscular impairments](#). *J. Neuroeng. Rehabil.* **18**, 1–21 (2021).
  91. Shirzadi, M., Marateb, H., McGill, K. & Mañanas, M. A. [Rigorous performance assessment of the algorithms for resolving motor unit action potential superpositions](#). *J. Electromyogr. Kinesiol.* **56**, 102510:1–102510:9 (2021).
  92. Roig, A., Ramis, X., de la Flor, S. & Serra, M. À. [Dual-cured thermosets from glycidil methacrylate obtained by epoxy-amine reaction and methacrylate homopolymerization](#). *React. Funct. Polym.* **159**, 104822: 1–104822: 11 (2021).
  93. Marín, M. *et al.* [Study analysis of thermal, dielectric and functional characteristics of an ethylene polyethylene diene monomer blended with end-of-life tire microparticles amounts](#). *Polymers (Basel)*. **13**, 1–19 (2021).
  94. Claverol, M., Hernando, C., Maureso, M. & Mora, M. [Metric dimension of maximal outerplanar graphs](#). *Bull. Malaysian Math. Sci. Soc.* **44**, 2603–2630 (2021).
  95. Sierra, C. [El impacto ambiental de las instalaciones de alumbrado](#). *Luces CEI* 8–17 (2021).
  96. Schieber, R. *et al.* [Functionalization strategies and fabrication of solvent-cast PLLA for bioresorbable stents](#). *Appl. Sci.* **11**, 1478:1–1478:18 (2021).
  97. Pastor, R. & García-Villoria, A. [A tool for the purchasing decisions making from suppliers and the pre-sales satisfaction in an online sales campaign](#). *Dyna* **96**, 55–61 (2021).
  98. Na, J., Xing, Y. & Costa-Castelló, R. [Adaptive estimation of time-varying parameters with application to roto-magnet plant](#). *IEEE Trans. Syst. Man, Cybern. Syst.* **51**, 731–741 (2021).
  99. Domenech, C., Blanco-Romero, E., De La Fuente, A. & Ayala, M. [Design for the automation of an AMBU Spur II manual respirator](#). *Machines* **9**, (2021).

100. Grima, P., Rodero, L. & Tort-martorell, F. [On the use of conditional main effects for de-aliasing 2k-p designs](#). *Qual. Reliab. Eng. Int.* 1–8 (2021). doi:10.1002/qre.2894
101. Ghaniee Zarch, M., Puig, V., Poshtan, J. & Shoorehdeli, M. [Process performance verification using viability theory](#). *Processes* **9**, 482:1–482:23 (2021).
102. J., B. *et al.* [Time-delay selection in poincaré plot: assessing sedation-analgesia levels with eeg signals](#) Selección del tiempo de retardo en el gráfico de poincaré: Medición de los niveles de sedación y analgesia con señales eeg. *Ingeniare* **29**, 27–40 (2021).
103. Segovia, P., Puig, V., Duviella, E. & Etienne, L. [Distributed model predictive control using optimality condition decomposition and community detection](#). *J. Process Control* **99**, 54–68 (2021).
104. Estrada, L., Torres, A. & Jane, R. [Evaluation of respiratory muscle activity by means of concentric ring electrodes](#). *IEEE Trans. Biomed. Eng.* **68**, 1005–1014 (2021).
105. Ikemori, R. *et al.* [MMP1 drives tumor progression in large cell carcinoma of the lung through fibroblast senescence](#). *Cancer Lett.* **507**, 1–12 (2021).
106. Bessa, I., Puig, V. & Martínez, R. [Passivation blocks for fault tolerant control of nonlinear systems](#). *Automatica* **125**, 109450:1–109450:8 (2021).
107. Josa i, I., de la Fuente, A., Casanovas-Rubio, M., Armengou Orús, J. & Aguado, A. [Sustainability-oriented model to decide on concrete pipeline reinforcement](#). *Sustain.* **13**, 3026:1–3026:25 (2021).
108. Pavon, S., Fortuny, A. & Sastre, A. [Rare earth elements recovery from secondary wastes by solid-state chlorination and selective organic leaching](#). *Waste Manag.* **122**, 55–63 (2021).
109. Lozano, M. *et al.* [Noninvasive assessment of neuromechanical coupling and mechanical efficiency of parasternal intercostal muscle during inspiratory threshold loading](#). *Sensors (Switzerland)* **21**, 1781:1–1781:15 (2021).
110. Behar, R., Grima, P. & Tort-martorell, F. [Matemáticas y estadística. Al César lo que es del Cesar...](#) *Boletín Estadística e Investig. Oper.* **37**, 75–81 (2021).
111. Gabirondo, E. *et al.* [Organocatalyzed closed-loop chemical recycling of thermo-compressed films of poly\(ethylene furanoate\)](#). *Polym. Chem.* **12**, 1571–1580 (2021).
112. Castillo-Escario, Y. *et al.* [Assessment of trunk flexion in arm reaching tasks with electromyography and smartphone accelerometry in healthy human subjects](#). *Sci. Rep.* **11**, 5363/1–5363/13 (2021).
113. Codina, E., Soriguera, F. & Crisallid, U. [Modeling, simulation and evaluation of transport scenarios in the presence of innovative solutions](#). *Transp. Lett. Int. J. Transp. Res.* **13**, 149–150 (2021).
114. Bottiroli, S. *et al.* [The smart aging platform for assessing early phases of cognitive impairment in patients with neurodegenerative diseases](#). *Front. Psychol.* **12**, 635410/1–635410/13 (2021).

115. Tortades, I. *et al.* Usability of a psychotherapeutic interactive gaming tool used in facial emotion recognition for people with schizophrenia. *J. Pers. Med.* **11**, (2021).
116. Finocchiaro, M. *et al.* Training simulators for gastrointestinal endoscopy: current and future perspectives. *Cancers (Basel)*. **13**, 1427:1–1427:26 (2021).
117. Duarte-López, A., Perez-Casany, M. & Valero, J. Randomly stopped extreme Zipf extensions. *Extrem. Stat. theory Appl. Sci. Eng. Econ.* 1–34 (2021). doi:10.1007/s10687-021-00410-w
118. Radu, R. *et al.* Global collaborative social network (Share4Rare) to promote citizen science in rare disease research: Platform development study. *JMIR Form. Res.* **5**, e22695:1–e22695:12 (2021).
119. Gonchenko, M., Gonchenko, S. & Safonov, K. Reversible perturbations of conservative Hénon-like maps. *Discret. Contin. Dyn. Syst. - A* **41**, 1875–1895 (2021).
120. Alberich, M. *et al.* Of limit key polynomials. *Illinois J. Math.* **65**, 201–229 (2021).
121. Masdemont, J. J., Gomez Muntané, G. & Peng, H. Global analysis of direct transfers from lunar orbits to sun-earth libration point regimes. *Celest. Mech. Dyn. Astron.* **133**, 15:1–15:35 (2021).
122. Sarmiento, C., Hernández, A., Serna, L. Y. & Mañanas, M. A. An integrated mathematical model of the cardiovascular and respiratory response to exercise: Model-building and comparison with reported models. *Am. J. Physiol. Heart Circ. Physiol.* **320**, H1235–H1260 (2021).
123. Futatani, S., Hoelzl, M., Huijsmans, G., Team, A. U. & team, Euro. M. Transition from no-ELM response to pellet ELM triggering during pedestal build-up - insights from extended MHD simulations. *Nucl. fusion* **61**, 046043:1–046043:26 (2021).
124. Dietzel, M. *et al.* Measurement of the  $^{72}\text{Ge}(n,\gamma)$  cross section over a wide neutron energy range at the CERN n\_TOF facility. *Phys. Rev. C* **103**, 045809: 1–045809: 8 (2021).
125. Gawlik, A. *et al.* Radiative neutron capture cross-section measurement of ge isotopes at n\_TOF CERN facility and its importance for stellar nucleosynthesis. *Acta Phys. Pol. A* **139**, 383–388 (2021).
126. Giuliani, F., Guardia, M., Martin, P. & Pasquali, S. Chaotic resonant dynamics and exchanges of energy in Hamiltonian PDEs. *Atti della Accad. Naz. dei Lincei. Rend. Lincei. Mat. e Appl.* **32**, 149–166 (2021).
127. Bermejo, D., Escaler, X. & Ruiz Mansilla, R. Experimental investigation of a cavitating Venturi and its application to flow metering. *Flow Meas. Instrum.* **78**, 101868/1–1101868/11 (2021).
128. Vecino, X., Reig, M., Lopez, J., Valderrama, C. & Cortina, J. Valorisation options for Zn and Cu recovery from metal influenced acid mine waters through selective precipitation and ion-exchange processes: promotion of on-site/off-site management options. *J. Environ. Manage.* **283**, 112004:1–112004:13 (2021).
129. Riba, J., Martinez, J., Moreno-Eguilaz, J. M. & Capelli, F. Characterizing the temperature

- dependence of the contact resistance in substation connectors. *Sensors actuators A. Phys.* **327**, 1–9 (2021).
130. Neri, M. *et al.* Sustainable and low-cost solutions for thermal and acoustic refurbishment of old buildings. *J. Phys. Conf. Ser.* **1868**, 012027/1–012027/9 (2021).
  131. Sanz, E., Blesa, J. & Puig, V. BiDrac industry 4.0 framework: application to an automotive paint shop process. *Control Eng. Pract.* **109**, 104757–1–104757–16 (2021).
  132. Bautista, J. Métodos de planificación y secuenciación Heijunka inspirados en el problema del reparto en sistemas electorales. *Dir. y Organ. Rev. Ing. Organ.* 18–38 (2021). doi:10.37610/dyo.v0i73.590
  133. Domenech, B., Calleja, G. & Olivella, J. Residential photovoltaic profitability with storage under the new spanish regulation: a multi-scenario analysis. *Energies* **14**, 1987/1–1987/17 (2021).
  134. Lerma, E., Costa-Castelló, R., Griño, R. & Sanchis, C. Herramientas para la docencia de control digital en grados de ingeniería. *Rev. Iberoam. automática e informática Ind.* **18**, 189–199 (2021).
  135. Dadjo, S., Fekriasi, S., Prieto-Araujo, E., Beerten, J. & Gomis-Bellmunt, O. Optimal H-infinity control design for MMC-based HVDC links. *IEEE Trans. power Deliv.* **37**, 786–797 (2021).
  136. De Castro, M., Rosso, S., Bahilo, E., Velasco, M. & Angulo, C. Condition assessment of industrial gas turbine compressor using a drift soft sensor based in autoencoder. *Sensors (Switzerland)* **21**, 1–14 (2021).
  137. Neri, M. *et al.* Conversion of End-of-Life Household Materials into Building Insulating Low-Cost Solutions for the Development of Vulnerable Contexts: Review and Outlook towards a Circular and Sustainable Economy. *Sustain.* **13**, 4397/1–4397/21 (2021).
  138. Kotak, Y. *et al.* End of electric vehicle batteries: reuse vs. recycle. *Energies* **14**, 2217/1–2217/15 (2021).
  139. Cantero, T. *et al.* Adaptive Volt-Var Control Algorithm to Grid Strength and PV Inverter Characteristics. *Sustain.* **13**, 4459/1–4459/17 (2021).
  140. Bará, S. *et al.* Direct assessment of the sensitivity drift of SQM sensors installed outdoors. *Int. J. Sustain. Light.* **23**, 1–6 (2021).
  141. Aguilar, H., Pastor, R. & García-Villoria, A. Existence and sizing of buffers in parallel assembly lines with multi-line workstations and different cycle times. *Dyna Manag.* **9**, 1–10 (2021).
  142. Repecho, V., Olm, J. M., Griño, R., Doria-Cerezo, A. & Fossas E., E. F. E. F.-C. E. F. E. F.-C. Modelling and nonlinear control of a magnetically coupled multiport DC-DC converter for automotive applications. *IEEE access* **9**, 63345–63355 (2021).
  143. Fuentes, S., Villafafila-Robles, R., Rull-Duran, J. R.-D. J. R. J. & Galceran-Arellano, S. Composed index for the evaluation of energy security in power systems within the frame of energy transitions—The case of Latin America and the Caribbean. *Energies* **14**, 2467:1–2467:16 (2021).

144. Ghazavidozein, M., Gomis-Bellmunt, O. & Mancarella, P. Simultaneous provision of dynamic active and reactive power response from utility-scale battery energy storage systems in weak grids. *IEEE Trans. power Syst.* **36**, 5548–5557 (2021).
145. Peña, M., Olmedo, N., de les Valls, E. & Lusa, A. Introducing and Evaluating the Effective Inclusion of Gender Dimension in STEM Higher Education. *Sustain.* **13**, 4994/1–4994/26 (2021).
146. Garcia, V. *et al.* Fast Monte Carlo codes for occupational dosimetry in interventional radiology. *Phys. medica* **85**, 166–174 (2021).
147. Karimi, S. *et al.* Numerical and experimental analysis of a high-throughput blood plasma separator for point-of-care applications. *Anal. Bioanal. Chem.* **413**, 2867–2878 (2021).
148. Sala, M. & Soriguera, F. Capacity of a freeway lane with platoons of autonomous vehicles mixed with regular traffic. *Transp. Res. Part B Methodol.* **147**, 116–131 (2021).
149. Iraola, E. *et al.* SMART\_TC: an R&D Programme on uses of artificial intelligence techniques for tritium monitoring in complex ITER-like tritium plant systems. *Fusion Eng. Des.* **166**, (2021).
150. Madorell, Q., Bullich, E., Cheah, M. & Gomis-Bellmunt, O. Over-frequency support in large-scale photovoltaic power plants using non-conventional control architectures. *Int. J. Electr. power energy Syst.* **127**, 106679:1–106679:8 (2021).
151. Curbelo, J. & Madruga, S. Effect of the inclination angle on the transient melting dynamics and heat transfer of a phase change material. *Phys. fluids* **33**, (2021).
152. Azab, M. & Serrano, A. Optimal tuning of fractional order controllers for dual active bridge-based DC microgrid including voltage stability assessment. *Electron.* **10**, 1109:1–1109:36 (2021).
153. López, A., Domenech, B. & Ferrer-Martí, L. Sustainability evaluation of rural electrification in cuba: From fossil fuels to modular photovoltaic systems: Case studies from sancti spiritus province. *Energies* **14**, 2480:1–2480:17 (2021).
154. Gamardella, F., Serra, M. À., Ramis, X. & de la Flor, S. Actuator behaviour of tailored poly(Thiourethane) shape memory thermosets. *Polymers (Basel)*. **13**, 1571: 1–1571: 20 (2021).
155. Xu, B. *et al.* Nonlinear modal interaction analysis and vibration characteristics of a francis hydro-turbine generator unit. *Renew. energy* **168**, 854–864 (2021).
156. Casanellas, M., Fernández-Sánchez, J. & Garrote-Lopez, M. Distance to the stochastic part of phylogenetic varieties. *J. Symb. Comput.* **104**, 653–682 (2021).
157. Santos, I. *et al.* Optimal estimation of the roughness coefficient and friction factor of a pipeline. *J. Fluids Eng.* **143**, (2021).
158. Romero, L. *et al.* An integrated software architecture for the pollution-based real-time control of urban drainage systems. *J. hydroinformatics* **23**, 671–687 (2021).
159. David, M., Bianchi, F., Ocampo-Martinez, C. & Sánchez, R. S. Model-based control design for H<sub>2</sub> purity regulation in high-pressure alkaline electrolyzers. *J. Franklin Inst.*

- 358, 4373–4392 (2021).
160. Rodriguez-Montanes, R. *et al.* Enhanced serial RRAM cell for unpredictable bit generation. *Solid. State. Electron.* **183**, 108059:1–108059:6 (2021).
  161. López, R., Carrascón, S., Aguado, A. & Pujadas, P. Rehabilitación del firme de cuatro glorietas mediante un refuerzo delgado de hormigón ('thin Whitetopping'). *Dyna Ing. e Ind.* **96**, 250–253 (2021).
  162. Hall, O. *et al.*  $\beta$ -delayed neutron emission of r-process nuclei at the  $N_{\zeta}=282$  shell closure. *Phys. Lett. B* **816**, 136266: 1–136266: 7 (2021).
  163. Jaen, J. & Talavera, P. New design of gravitational wave detectors. *Class. quantum gravity* **38**, 1–18 (2021).
  164. Llupià, A. *et al.* SARS-CoV-2 transmission in students of public schools of Catalonia (Spain) after a month of reopening. *PLoS One* **16**, e0251593:1–e0251593:11 (2021).
  165. Javadiha, M., Lacasa, E., Ric, A., Andujar, C. & Susin, A. Estimating player positions from padel high-angle videos: Accuracy comparison of recent computer vision methods. *Sensors (Switzerland)* **21**, 1–17 (2021).
  166. Lacruz, A. *et al.* Biobased waterborne polyurethane-urea/SWCNT nanocomposites for hydrophobic and electrically conductive textile coatings. *Polymers (Basel)*. **13**, 1624:1–1624:27 (2021).
  167. Canal, P. & Perera, A. Accurate early-stage colorectal cancer detection through analysis of cell-free circulating tumor DNA (ctDNA) methylation patterns. *J. Clin. Oncol.* **39**, 3606 (2021).
  168. Rojas, G., Riba, J. & Moreno-Eguilaz, J. M. Parameter estimation of a single-phase boost PFC converter with EMI filter based on an optimization algorithm. *Electron.* **10**, 1231:1–1231:19 (2021).
  169. Ribas, I., Lusa, A. & Corominas, A. Multi-step process for selecting strategic sourcing options when designing supply chains. *J. Ind. Eng. Manag.* **14**, 477–495 (2021).
  170. Ferrer, I., Castillo-Escario, Y., Montserrat, J. & Jane, R. Enhanced monitoring of sleep position in sleep apnea patients: smartphone triaxial accelerometry compared with video-validated position from polysomnography. *Sensors (Switzerland)* **21**, 3689/1–3689/21 (2021).
  171. Gibert, O. *et al.* Hydroxyapatite coatings on calcite powder for the removal of heavy metals from contaminated water. *Water (Switzerland)* **13**, 1493:1–1493:18 (2021).
  172. Revollo, B. *et al.* Same-day SARS-CoV-2 antigen test screening in an indoor mass-gathering live music event: a randomised controlled trial. *Lancet Infect. Dis.* **21**, (2021).
  173. Riba, J., Gómez-Pau, Á., Martínez, J. & Moreno-Eguilaz, J. M. On-line remaining useful life estimation of power connectors focused on predictive maintenance. *Sensors (Switzerland)* **21**, 1–16 (2021).
  174. Izquierdo-Monge, Ó. *et al.* Conversion of a network section with loads, storage systems

- and renewable generation sources into a smart microgrid. *Appl. Sci.* **11**, 5012:1–5012:18 (2021).
175. Gil, J. *et al.* Mineralization of titanium surfaces: biomimetic implants. *Materials (Basel)*. **14**, 2879/1–2879/16 (2021).
  176. Chacón, L., Ponsa, P. & Angulo, C. Usability study through a human-robot collaborative workspace experience. *Designs* **5**, 35:1–35:22 (2021).
  177. Vargas, A. *et al.* EURADOS STRATEGIC RESEARCH AGENDA 2020: VISION FOR THE DOSIMETRY OF IONISING RADIATION. *Radiat. Prot. Dosimetry* **194**, 42–56 (2021).
  178. Chacón, L., Ponsa, P. & Angulo, C. Cognitive Interaction Analysis in Human–Robot Collaboration Using an Assembly Task. *Electron.* **10**, 1317:1–1317:19 (2021).
  179. Rodriguez, A. *et al.* Powder metallurgy with space holder for porous titanium implants: A review. *J. Mater. Sci. Technol.* **76**, 129–149 (2021).
  180. Romero, G. *et al.* Development of a highly efficient extrinsic and autonomous self-healing polymeric system at low and ultra-low temperatures for high-performance applications. *Compos. Part A Appl. Sci. Manuf.* **145**, 106335:1–106335:13 (2021).
  181. Tejo-Otero, A. *et al.* 3D printed prototype of a complex neuroblastoma for preoperative surgical planning. *Ann. 3D Print. Med.* **2**, 100014:1–100014:5 (2021).
  182. Deering, J. *et al.* Implant resonance and the mechanostat theory: Applications of therapeutic ultrasound for porous metallic scaffolds. *Mater. Sci. Eng. C, Biomim. Mater. sensors Syst.* **125**, 112070: 1–112070: 11 (2021).
  183. Fedorov, Y. & Jovanovic, B. Continuous and discrete neumann systems on stiefel varieties as matrix generalizations of the jacobi-mumford systems. *Discret. Contin. Dyn. Syst. - A* **41**, 2559–2599 (2021).
  184. Sempau, J., Kazantsev, P., Izewskac, J. & Brualla, L. Monte Carlo verification of the holder correction factors for the radiophotoluminescent glass dosimeter used by the IAEA in international dosimetry audits. *Phys. medica* **86**, 1–5 (2021).
  185. Raveendran, U. *et al.* Grid congestion mitigation and battery degradation minimisation using model predictive control in PV-based microgrid. *IEEE Trans. energy Convers.* **36**, 1500–1509 (2021).
  186. Bandaru, V., Huijismans, G., Futatani, S., Becoulet, M. & Artola, F. The JOREK non-linear extended MHD code and applications to large-scale instabilities and their control in magnetically confined fusion plasmas. *Nucl. fusion* **61**, 065001:1–065001:71 (2021).
  187. Carmena, P., Ginjaume, M., Herranz, M., Macías, M. & Torres, R. The 2019-2023 Strategic Plan of the Spanish Society of Radiological Protection (SEPR). *J. Radiol. Prot.* **41**, 423: 1–423: 8 (2021).
  188. Amaducci, S. *et al.* First results of the  $^{140}\text{Ce}(n,\gamma)^{141}\text{Ce}$  cross-section measurement at  $n_{\text{tof}}$ . *Universe* **7**, 200: 1–200: 11 (2021).

189. Presas, A. *et al.* On the use of neural networks for dynamic stress prediction in Francis turbines by means of stationary sensors. *Renew. energy* **170**, 652–660 (2021).
190. De Medina, V., Hurlimann, M., Guo, Z., Lloret, A. & Vaunat, J. Fast physically-based model for rainfall-induced landslide susceptibility assessment at regional scale. *Catena* **201**, 105213: 1–105213: 16 (2021).
191. Trapiello, C., Puig, V. & Cembrano, M. Reconfiguration of large-scale systems using back-up components. *Comput. Chem. Eng.* **149**, 107288:1–107288:13 (2021).
192. Borrell, A. *et al.* Collaborative voltage unbalance elimination in grid-connected AC microgrids with grid-feeding inverters. *IEEE Trans. power Electron.* **36**, 7189–7201 (2021).
193. Muñoz-Liesa, J. *et al.* Building-integrated agriculture: are we shifting environmental impacts? An environmental assessment and structural improvement of urban greenhouses. *Resour. Conserv. Recycl.* **169**, 105526:1–105526:13 (2021).
194. Delepierre, G. *et al.* Challenges in synthesis and analysis of asymmetrically grafted cellulose nanocrystals via atom transfer radical polymerization. *Biomacromolecules* **22**, 2702–2717 (2021).
195. Danese, A., Garau, M., Sumper, A. & Torsæter, B. Electrical infrastructure design methodology of dynamic and static charging for heavy and light duty electric vehicles. *Energies* **14**, 3362:1–3362:15 (2021).
196. Vecino, X., Reig, M., Valderrama, C. & Cortina, J. Ion-exchange technology for lactic acid recovery in downstream processing: Equilibrium and kinetic parameters. *Water (Switzerland)* **13**, 1572:1–1572:19 (2021).
197. Balta, R., Olmedo, N., Peña, M. & Renta-Davids, A. I. Academic and emotional effects of online learning during the COVID-19 pandemic on engineering students. *Educ. Inf. Technol.* **26**, 7407–7434 (2021).
198. Grima, P., Puig, X. & Tort-martorell, F. Reducing variability of a critical dimension. *Qual. Eng.* **33**, 361–366 (2021).
199. Belay, A., Puranik, S., Díaz-González, F. & Tuiskula, H. A systemic approach to investigate the gaps between distribution system operators need and technology developers' perception—A case study of an intelligent low-voltage grid management system with storage. *Appl. Sci.* **11**, 5348 :1–5348 :18 (2021).
200. Neri, M. *et al.* Sound absorbing and insulating low-cost panels from end-of-life household materials for the development of vulnerable contexts in circular economy perspective. *Appl. Sci.* **11**, 5372:1–5372:19 (2021).
201. Martinez, J., Riba, J. & Moreno-Eguilaz, J. M. State of health prediction of power connectors by analyzing the degradation trajectory of the electrical resistance. *Electron.* **10**, (2021).
202. Ramos, G. A., Montobbio, T., Domenech, C. & Costa-Castelló, R. Industrial robots fuel cell based hybrid power-trains: A comparison between different configurations. *Electron.* **10**, (2021).



203. Villasante, J., Espinosa, J., Pérez, E., Heredia, E. & Almajano, M. P. [Extrusion and solid-state fermentation with \*Aspergillus oryzae\* on the phenolic compounds and radical scavenging activity of pecan nut \(\*Carya illinoensis\*\) shell.](#) *Br. food J.* **123**, 4367–4382 (2021).
204. Lledó, T., Bahman, A., Iannuzzo, F., Montesinos-Miracle, D. & Galceran-Arellano, S. [Thermal modeling of large electrolytic capacitors using FEM and considering the internal geometry.](#) *IEEE J. Emerg. Sel. Top. power Electron.* **6**, 6315–6328 (2021).
205. Ittobane, N., de Ilarduya, A., Alla, A. & Muñoz, S. [Synthesis and characterization of poly\(butylene terephthalate\) copolyesters derived from threitol.](#) *Polym. Polym. Compos.* **29**, S817–S825 (2021).
206. Spier, W. D., Prieto-Araujo, E., López-Mestre, J. & Gomis-Bellmunt, O. [Improved current reference calculation for MMCs internal energy balancing control.](#) *IEEE Trans. power Deliv.* (2021). doi:10.1109/TPWRD.2021.3091013
207. De La Torre, O., Floris, I., Sales, S. & Escaler, X. [Fiber bragg grating sensors for underwater vibration measurement: potential hydropower applications.](#) *Sensors (Switzerland)* **21**, 4272:1–4272:18 (2021).
208. Cantó, O. *et al.* [A 3D finite element analysis model of single implant-supported prosthesis under dynamic impact loading for evaluation of stress in the crown, abutment and cortical bone using different rehabilitation materials.](#) *Materials (Basel).* **14**, 3519:1–3519:16 (2021).
209. López-Díaz, M. T. & Peña, M. [Mathematics training in engineering degrees: an intervention from teaching staff to students.](#) *Mathematics* **9**, 1475:1–1475:21 (2021).
210. Cerra, M., Fargas, G., Mateo, A. & Roa, J. J. [Oxidation behavior of maraging 300 alloy exposed to nitrogen/water vapor atmosphere at 500 °C.](#) *Metals (Basel).* **11**, 1021:1–1021:14 (2021).
211. Barja, S. *et al.* [A novel hybrid home energy management system considering electricity cost and greenhouse gas emissions minimization.](#) *IEEE Trans. Ind. Appl.* **57**, 1–10 (2021).
212. Ferrer, I., Castillo-Escario, Y., Montserrat, J. & Jane, R. [SleepPos app: an automated smartphone application for angle based high resolution sleep position monitoring and treatment.](#) *Sensors (Switzerland)* **21**, 4531/1–4531/22 (2021).
213. Xu, B. *et al.* [A review of dynamic models and stability analysis for a hydro-turbine governing system.](#) *Renew. Sustain. energy Rev.* **144**, 110880–1–110880–22 (2021).
214. Garcia-Planas, M. I. [Controllability subspaces of multi-agent linear dynamical systems.](#) *WSEAS Trans. circuits Syst.* **20**, 166–172 (2021).
215. Konuray, O., Morancho, J., Fernandez-Francos, X., Garcia, M. & Ramis, X. [Curing kinetics of dually-processed acrylate-epoxy 3D printing resins.](#) *Thermochim. Acta* **701**, 178963:1–178963: 10 (2021).
216. Barreiro, J. *et al.* [Distributed data-driven UAV formation control via evolutionary games: experimental results.](#) *J. Franklin Inst.* **358**, 5334–5352 (2021).

217. O'Connor, U. *et al.* Recommendations for the use of active personal dosimeters (APDs) in interventional workplaces in hospitals. *Phys. medica* **87**, 131–135 (2021).
218. Grima, P., Rodero, L. & Tort-martorell, F. Considering the risk of ignoring active factors in industrial experiments. *Qual. Eng.* **33**, 552–557 (2021).
219. Viader, G. *et al.* Integration of membrane distillation as volume reduction technology for in-land desalination brines management: Pre-treatments and scaling limitations. *J. Environ. Manage.* **289**, 112549:1–112549:16 (2021).
220. Albás Bollit, M., Blanch-Ricart, C. & Almajano, M. P. Projecte ROSES. Qué opinen els adolescents sobre la seva classe de ciències? *Diàlegs* 7–14 (2021).
221. Marcillo, J., Álvarez García, A. & Garcia, A. Analysis of risk and disaster reduction strategies in South American countries. *Int. J. disaster risk Reduct.* **61**, 102363:1–102363:17 (2021).
222. Doria-Cerezo, A., Olm, J. M., Biel, D. & Fossas E., E. F. E. F.-C. E. F. E. F.-C. Sliding modes in a class of complex-valued nonlinear systems. *IEEE Trans. Automat. Contr.* **66**, 3355–3362 (2021).
223. Galdón, E., Millán, M., Mora, G., de Ilarduya, A. & Caraballo, I. A biodegradable copolyester, poly(Butylene succinate-co-e-caprolactone), as a high efficiency matrix former for controlled release of drugs. *Pharmaceutics* **13**, 1057:1–1057:15 (2021).
224. Cathey, A., Hoelzl, M., Futatani, S., Huijsmans, G. & Pamela, S. Comparing spontaneous and pellet-triggered ELMs via non-linear extended MHD simulations. *Plasma Phys. Control. fusion* **63**, 075016:1–075016:18 (2021).
225. Bautista, J. Exact and heuristic procedures for the Heijunka-flow shop scheduling problem with minimum makespan and job replicas. *Prog. Artif. Intell.* **10**, 465–488 (2021).
226. Ribas, I., Companys, R. & Tort-martorell, F. An iterated greedy algorithm for the parallel blocking flow shop scheduling problem and sequence-dependent setup times. *Expert Syst. Appl.* **184**, 115535:1–115535:14 (2021).
227. Torrell, F., Cuatrecasas, L. & Olivella, J. Modelo piramidal para el despliegue y sostenibilidad del TPM: caso de una empresa multinacional proveedora automoción en Barcelona. *Dyna Manag.* **9**, 1–9 (2021).
228. Ribas, I. Models de negoci entorn el vehicle elèctric: reptes i oportunitats. *Monogràfic Mobilitat Elèctrica* (2021).
229. Safari, M. *et al.* Synthesis, structure, crystallization and mechanical properties of isodimorphic PBS-ran-PCL copolyesters. *Polymers (Basel)*. **13**, 2263/1–2263/22 (2021).
230. Monjo, L., Sainz, L., Mesas, J. J. & Pedra, J. State-space model of quasi-z-source inverter-PV systems for transient dynamics studies and network stability assessment. *Energies* **14**, 4150:1–4150:15 (2021).
231. Gómez, D. *et al.* Dc-MMC for the interconnection of HVDC grids with different line topologies. *IEEE Trans. power Deliv.* (2021). doi:10.1109/TPWRD.2021.3095966

232. Ozyhar, T., Tschannen, C., Thoemen, H. & Zoppe, J. Evaluating the use of calcium hydrogen phosphate dihydrate as a mineral-based fire retardant for application in melamine-urea-formaldehyde ( MUF )-bonded wood-based composite materials. *Fire Mater.* 1–10 (2021). doi:10.1002/fam.3009
233. Zaccaria, C. *et al.* Biocompatible graft copolymers from bacterial poly( $\gamma$ -glutamic acid) and poly(lactic acid). *Polym. Chem.* **12**, 3784–3793 (2021).
234. Fernández, I. *et al.* Combination of acoustic emission and vibratory measurements to characterize an ultrasonic vibration assisted ball burnishing tool for a lathe. *Processes* 1–15 (2021). doi:10.20944/preprints202107.0102.v1
235. Platikanov, S., Tauler Ferré, R., Cortina, J. & Valderrama, C. Multivariate analysis of the operational parameters and environmental factors of an industrial solar pond. *Sol. energy* **223**, 113–124 (2021).
236. Ribas, I. Servicios de movilidad compartida. *Conversat.* 1–4 (2021).
237. Rojas, G., Riba, J. & Moreno-Eguilaz, J. M. A deep learning-based modeling of a 270 V -to- 28 V DC-DC converter used in more electric aircrafts. *IEEE Trans. power Electron.* **37**, 509–518 (2021).
238. Rojas, G., Riba, J. & Moreno-Eguilaz, J. M. Black-box modeling of DC-DC converters based on wavelet convolutional neural networks. *IEEE Trans. Instrum. Meas.* **70**, 1–9 (2021).
239. Dadjo, S., Prieto-Araujo, E., Sánchez, E. & Gomis-Bellmunt, O. Methodology for interaction identification in modular multi-level converter-based HVDC systems. *ISA Trans.* (2021). doi:10.1016/j.isatra.2021.07.034
240. Delepierre, G., Cranston, E., Weder, C. & Zoppe, J. Liquid crystalline properties of symmetric and asymmetric end-grafted cellulose nanocrystals. *Biomacromolecules* **22**, 3552–3564 (2021).
241. Pournazarian, B., Sangrody, R., Saeedian, M., Gomis-Bellmunt, O. & Pouresmaeil, E. Enhancing microgrid small-signal stability and reactive power sharing using ANFIS-tuned virtual inductances. *IEEE access* **9**, 104915–104926 (2021).
242. Barranco, M. *et al.* mWISE: an algorithm for context-based annotation of liquid chromatography–mass spectrometry features through diffusion in graphs. *Anal. Chem.* **93**, 10772–10778 (2021).
243. Yang, B. *et al.* RRAM random number generator based on train of pulses. *Electron.* **10**, 1–9 (2021).
244. Yang, B. *et al.* Serial RRAM cell for secure bit concealing. *Electron.* **10**, 1–18 (2021).
245. Iraola, E., Nougues, J. M., Sedano, L., Feliu, J. A. & Batet, L. Dynamic simulation tools for isotopic separation system modeling and design. *Fusion Eng. Des.* **169**, 112452:1–112452:5 (2021).
246. Zhao, W. *et al.* Increasing the operating range and energy production in Francis turbines by an early detection of the overload instability. *Measurement* **181**, 109580/1–109580/11 (2021).

247. Juanpera, M., Domenech, B., Ferrer-Martí, L., Garzón, A. & Pastor, R. [Renewable-based electrification for remote locations. Does short-term success endure over time? A case study in Peru.](#) *Renew. Sustain. energy Rev.* **146**, 111177:1–111177:17 (2021).
248. Buj-Corral, I., Costa, L. & Dominguez, A. [Effect of process parameters on the quality of laser-cut stainless steel thin plates.](#) *Metals (Basel)*. **11**, 1224:1–1224:13 (2021).
249. Freixa, J. *et al.* [On the validation of BEPU methodologies through the simulation of integral experiments: Application to the PKL test facility.](#) *Nucl. Eng. Des.* **379**, 111238: 1–111238: 11 (2021).
250. Juanpera, M., Domenech, B., Ferrer-Martí, L., García-Villoria, A. & Pastor, R. [Methodology for integrated multicriteria decision-making with uncertainty: Extending the compromise ranking method for uncertain evaluation of alternatives.](#) *Fuzzy sets Syst.* **434**, 135–158 (2021).
251. Leon, N., Martinez, A. & Maspoch, M. [Notch effect on the linear elastic fracture mechanics values of a polysulfone thermoplastic polymer.](#) *Theor. Appl. Fract. Mech.* **114**, 102995:1–102995:7 (2021).
252. Pardo-Bosch, F., Pujadas, P., Morton, C. & Cervera, C. [Sustainable deployment of an electric vehicle public charging infrastructure network from a city business model perspective.](#) *Sustain. cities Soc.* **71**, 102957/1–102957/13 (2021).
253. Galleguillos, R., Domenech, B., Ferrer-Martí, L. & Pastor, R. [Design of stand-alone electrification systems using fuzzy mathematical programming approaches.](#) *Energy* **228**, 120639/1–120639/14 (2021).
254. Migliorelli, C. *et al.* [Improving the ripple classification in focal pediatric epilepsy: identifying pathological high-frequency oscillations by Gaussian mixture model clustering.](#) *J. Neural Eng.* **18**, 0460f2:1–0460f2:13 (2021).
255. Pérez, E., Intrigliolo, D., Almajano, M. P., Rubio, P. & Garde, T. [Effects of water deficit irrigation on phenolic composition and antioxidant activity of monastrell grapes under semiarid conditions.](#) *Antioxidants* **10**, 1301:1–1301:18 (2021).
256. Acosta, L. *et al.* [Influenza vaccine effectiveness in preventing severe outcomes in patients hospitalized with laboratory-confirmed influenza during the 2017–2018 season. A retrospective cohort study in catalonia \(spain\).](#) *Viruses* **13**, 1465:1–1465:12 (2021).
257. Lederer-Woods, C. *et al.* [Destruction of the cosmic  \$\gamma\$  -ray emitter Al 26 in massive stars: Study of the key Al 26 \(n,p\) reaction.](#) *Phys. Rev. C* **104**, L022803: 1–L022803: 7 (2021).
258. Konuray, O. *et al.* [Cost-effectively 3d-printed rigid and versatile interpenetrating polymer networks.](#) *Materials (Basel)*. **14**, 4544: 1–4544: 18 (2021).
259. Tost, A. *et al.* [Choosing strategies to deal with artifactual eeg data in children with cognitive impairment.](#) *Entropy* **23**, 1030:1–1030:18 (2021).
260. Núñez, M., Muñoz, S. & de Ilarduya, A. [Poly\(butylene succinate-co-e-caprolactone\) copolyesters: Enzymatic synthesis in bulk and thermal properties.](#) *Polymers (Basel)*. **13**, 2679:1–2679:14 (2021).

261. Montenegro-Landivar, M. F. *et al.* Fruit and vegetable processing wastes as natural sources of antioxidant-rich extracts: evaluation of advanced extraction technologies by surface response methodology. *J. Environ. Chem. Eng.* **9**, 105330:1–105330:10 (2021).
262. Abella, A., Araya, M., Marco-Almagro, L. & Cléries, L. Perception evaluation kit: a case study with materials and learning styles. *Int. J. Technol. Des. Educ.* (2021). doi:10.1007/s10798-021-09676-4
263. Bonada, J. *et al.* Analysis of the Compression Behaviour of Reinforced Photocurable Materials Used in Additive Manufacturing Processes Based on a Mask Image Projection System. *Materials (Basel)*. **14**, 4605/1–4605/16 (2021).
264. Castillo-Escario, Y. *et al.* Quantitative evaluation of trunk function and the StartReact effect during reaching in patients with cervical and thoracic spinal cord injury. *J. Neural Eng.* **18**, 0460d2/1–0460d2/17 (2021).
265. Ouerfelli, M., Majdoub, N., Aroussi, J., Almajano, M. P. & Ben, L. Phytochemical screening and evaluation of the antioxidant and anti-bacterial activity of Woundwort (*Anthyllis vulneraria* L.). *Brazilian J. Bot.* **44**, 549–559 (2021).
266. Ortiz, J. *et al.* Tackling energy poverty through collective advisory assemblies and electricity and comfort monitoring campaigns. *Sustain.* **13**, 9671/1–9671/28 (2021).
267. Curbelo, J., Mechoso, C. & Chen, G. Lagrangian analysis of the northern stratospheric polar vortex split in April 2020. *Geophys. Res. Lett.* **48**, (2021).
268. Torres, D. *et al.* Bioactivity and antibacterial properties of calcium- and silver-doped coatings on 3D printed titanium scaffolds. *Surf. coatings Technol.* **421**, 127476:1–127476:13 (2021).
269. Varillas, J., Ocenásek, J., Torner, J. & Alcalá, J. Understanding imprint formation, plastic instabilities and hardness evolutions in FCC, BCC and HCP metal surfaces. *Acta Mater.* **217**, 117122:1–117122:14 (2021).
270. Soltanalipour, M. *et al.* Innovative shear transfer system for Concrete Filled Steel Tubes (CFST) in columns. *ce/papers* **4**, 723–730 (2021).
271. Suarez, D., Iraola, E., Lampón Diestre, C., de les Valls, E. & Batet, L. Liquid metal MHD flow influence on heat transfer phenomena in fusion reactor blankets. *Fusion Eng. Des.* **170**, 112503: 1–112503: 12 (2021).
272. Soltanalipour, M., Ferrer, M. & Marimon, F. Study on the ductility of open-rib and re-entrant composite slabs. *ce/papers* **4**, 744–753 (2021).
273. Griño, R., Ortega, R., Fridman, E., Zhang, J. & Mazenc, F. A behavioural dynamic model for constant power loads in single-phase AC systems. *Automatica* **131**, 109744:1–109744:8 (2021).
274. Rossetti, A., Ikumi, T., Segura, I. & Irassar, E. Sulfate performance of blended cements (limestone and illite calcined clay) exposed to aggressive environment after casting. *Cem. Concr. Res.* **147**, 106495:1–106495:15 (2021).
275. Bove, O., Ferrer, M., Lopez Almansa, F. & Roure, F. Comparison Between Two Types of Seismic Tests of Racking Systems. *ce/papers* **4**, 1992–1998 (2021).

276. Bove, O., Casafont, M., Ferrer, M., Lopez Almansa, F. & Roure, F. [Analytical design method for the improvement of steel structures stability](#). *ce/papers* **4**, 2221–2224 (2021).
277. Orellana, L., Sainz, L., Prieto-Araujo, E. & Gomis-Bellmunt, O. [Stability assessment for multi-infeed grid-connected VSCs modeled in the admittance matrix form](#). *IEEE Trans. circuits Syst. I Regul. Pap.* **68**, 3758–3771 (2021).
278. Bonada, J., Casafont, M., Roure, F. & Pastor, M. M. [Geometrically nonlinear analysis of perforated rack columns under a compression load by means of Generalized Beam Theory](#). *Thin-walled Struct.* **166**, 108102:1–108102:17 (2021).
279. García, F., Díaz-González, F. & Corchero, C. [A novel algorithm based on the combination of AC-OPF and GA for the optimal sizing and location of DERs into distribution networks](#). *Sustain. energy, grids networks* **27**, 100497/1–100497/10 (2021).
280. Yang, Z. *et al.* [The potential for photovoltaic-powered pumped-hydro systems to reduce emissions, costs, and energy insecurity in rural China](#). *Energy Convers. Manag. X* **11**, (2021).
281. Cantú, V. H., Azzaro-Pantel, C. & Ponsich, A. [Constraint-handling techniques within differential evolution for solving process engineering problems](#). *Appl. Soft Comput.* **108**, 107442:1–107442:16 (2021).
282. Cantú, V. H., Azzaro-Pantel, C. & Ponsich, A. [A novel metaheuristic based on bi-level optimization for the multi-objective design of hydrogen supply chains](#). *Comput. Chem. Eng.* **152**, 107370:1–107370:14 (2021).
283. Puiggali, A. *et al.* [Remote spatiotemporal control of a magnetic and electroconductive hydrogel network via magnetic fields for soft electronic applications](#). *ACS Appl. Mater. interfaces* **13**, 42486–42501 (2021).
284. Redjaïmia, A. & Mateo, A. [On the m23 c6-carbide in 2205 duplex stainless steel: An unexpected \(m23 c6 /austenite\)—eutectoid in the d-ferritic matrix](#). *Metals (Basel)*. **11**, 1340:1–1340:22 (2021).
285. Tinajero, E., Kimmins, S., García-Carvajal, Z. & de Ilarduya, A. [Polypeptide-based materials prepared by ring-opening polymerisation of anionic-based alpha-amino acid N-carboxyanhydrides: A platform for delivery of bioactive-compounds](#). *React. Funct. Polym.* **168**, 105040:1–105040:18 (2021).
286. González Abril, L., Angulo, C., Ortega Ramírez, J. A. & López, J. [Generative adversarial networks for anonymized healthcare of lung cancer patients](#). *Electron.* **10**, 2220:1–2220:17 (2021).
287. Sainz, L. & Monjo, L. [Frequency domain stability assessment of photovoltaic power generation systems with quasi-z-source inverters](#). *Renew. energy power Qual. J.* **19**, 160–165 (2021).
288. Fenollosa, F. *et al.* [Soft-tissue-mimicking using silicones for the manufacturing of soft phantoms by fresh 3D printing](#). *Rapid Prototyp. J.* **28**, 285–296 (2021).
289. Almache, R. *et al.* [Hole Transport Layer based on atomic layer deposited V2Ox films: paving the road to semi-transparent CZTSe solar cells](#). *Sol. energy* **226**, 64–71 (2021).

290. Grillone, B. *et al.* [Baseline energy use modeling and characterization in tertiary buildings using an interpretable bayesian linear regression methodology.](#) *Energies* **14**, 5556:1–5556:29 (2021).
291. Kheav, K. *et al.* [Transient analysis to air chamber and orifice surge tanks in a hydroelectric generating system during the successive load rejection.](#) *Energy Convers. Manag.* **244**, 114449: 1–114449: 14 (2021).
292. Freixa, J., Laborda, A. & Martinez, V. [Effectiveness of the ASVAD valve in a reactor vessel bottom leak scenario.](#) *Ann. Nucl. energy* **160**, 108387: 1–108387: 10 (2021).
293. Xing, C. *et al.* [Control-oriented quality modelling approach of sewer networks.](#) *J. Environ. Manage.* **294**, 113031 (2021).
294. Lana, X. *et al.* [Rainfall regime trends at annual and monthly scales in Catalonia \(NE Spain\) and indications of CO2 emissions effects.](#) *Theor. Appl. Climatol.* 1–16 (2021). doi:10.1007/s00704-021-03773-z
295. Roig, A., Ramis, X., de la Flor, S. & Serra, M. À. [Sequential photo-thermal curing of \(meth\)acrylate-epoxy thiol formulations.](#) *Polymer (Guildf).* **230**, 12073: 1–124073:7 (2021).
296. Xu, B. *et al.* [Exploring the Regulation Reliability of a Pumped Storage Power Plant in a Wind–Solar Hybrid Power Generation System.](#) *Water (Switzerland)* **13**, (2021).
297. Koch, M. A. & Font-Llagunes, J. M. [Lower-Limb Exosuits for Rehabilitation or Assistance of Human Movement: A Systematic Review.](#) *Appl. Sci.* **11**, 8743: 1–8743: 18 (2021).
298. Bonada, J., Pastor, M. M. & Buj-Corral, I. [Influence of infill pattern on the elastic mechanical properties of Fused Filament Fabrication \(FFF\) parts through experimental tests and numerical analyses.](#) *Materials (Basel).* **14**, 5459:1–5459:15 (2021).
299. Im, C. *et al.* [The magnitude of black/hispanic disparity in COVID-19 mortality across United States Counties during the first waves of the COVID-19 Pandemic.](#) *Int. J. Public Health* **66**, 1604004:1–1604004:8 (2021).
300. Roig, R., Chen, J., De La Torre, O. & Escaler, X. [Understanding the influence of wake cavitation on the dynamic response of hydraulic profiles under lock-in conditions.](#) *Energies* **14**, 6033:1–6033:19 (2021).
301. Röttger, A. *et al.* [New metrology for radon at the environmental level.](#) *Meas. Sci. Technol.* **32**, 124008:1–124008:13 (2021).
302. Codina-Torrella, I., Rodero, L. & Almajano, M. P. [Brewing by-products as a source of natural antioxidants for food preservation.](#) *Antioxidants* **10**, 1–13 (2021).
303. Aral, N., Duch, M., Nergis, F. & Candan, C. [The effect of tungsten particle sizes on X-ray attenuation properties.](#) *Radiat. Phys. Chem.* **187**, 109586: 1–109586: 7 (2021).
304. Coma, B. & Carmona, J. [Non-technical losses detection in energy consumption focusing on energy recovery and explainability.](#) *Mach. Learn.* 1–31 (2021). doi:10.1007/s10994-021-06051-1
305. Pons-Valladares, O., Casanovas-Rubio, M., Armengou, J. & de la Fuente, A.

- Sustainability-Driven Decision-Making Model: Case Study of Fiber-Reinforced Concrete Foundation Piles. *J. Constr. Eng. Manag.* **147**, 4021116–1–4021116–14 (2021).
306. San-Miguel, A., Puig, V. & Alenyà, G. Disturbance observer-based LPV feedback control of a N-DoF robotic manipulator including compliance through gain shifting. *Control Eng. Pract.* **115**, 104887/1–104887/15 (2021).
307. Lillo, P., Ferrer-Martí, L. & Juanpera, M. Strengthening the sustainability of rural electrification projects: Renewable energy, management models and energy transitions in Peru, Ecuador and Bolivia. *Energy Res. Soc. Sci.* **80**, (2021).
308. Pavón, S., Lapo, B., Fortuny, A., Sastre, A. & Bertau, M. Recycling of rare earths from fluorescent lamp waste by the integration of solid-state chlorination, leaching and solvent extraction processes. *Sep. Purif. Technol.* **272**, 118879/1–118879/13 (2021).
309. Medina-Galvez, R. *et al.* Bone stress evaluation with and without cortical bone using several dental restorative materials subjected to impact load: a fully 3D transient finite-element study. *Materials (Basel)*. **14**, 5801:1–5801:16 (2021).
310. Minguella-Canela, J. *et al.* Re-design of a component of a lower-limb robotic exoskeleton for integrating sensing capacity and enhancing multi-material direct additive manufacturing. *IOP Conf. Ser. Mater. Sci. Eng.* **1193**, 012097:1–012097:10 (2021).
311. López, J. *et al.* Digital twins in healthcare: an application in radiation oncology. *Clin. Transl. Oncol.* **23**, 73–74 (2021).
312. Ghanavati, H., Kocewiak, L., Jalilian, A. & Gomis-Bellmunt, O. Transfer function-based analysis of harmonic and interharmonic current summation in type-III wind power plants using DFIG sequence impedance modeling. *Electr. power Syst. Res.* **199**, 107419:1–107419:13 (2021).
313. Cembrano, M., Puig, V., Lorenz, J. & Sun, C. Chance-constrained stochastic MPC of Astlingen urban drainage benchmark network. *Control Eng. Pract.* **115**, 1–2 (2021).
314. Hermassi, M., Granados, M., Ayora, C., Cortina, J. & Valderrama, C. Recovery of rare Earth elements from acidic mine waters by integration of a selective chelating ion-exchanger and a solvent impregnated resin. *J. Environ. Chem. Eng.* **9**, 105906 (2021).
315. Tejo-Otero, A. *et al.* 3D printed surgical planning prototype manufactured by a hybrid multi-material 3D printer. *IOP Conf. Ser. Mater. Sci. Eng.* **1193**, 012116:1–012116:9 (2021).
316. Gawlik, A. *et al.* Measurement of the cross section at the n\_TOF facility at CERN. *Phys. Rev. C* **104**, 044610: 1–044610: 7 (2021).
317. Almén, A. *et al.* Personal dosimetry using monte-carlo simulations for occupational dose monitoring in interventional radiology: The results of a proof of concept in a clinical setting. *Radiat. Prot. Dosimetry* **195**, 391–398 (2021).
318. Castellví, A. *et al.* The commissioning of a hybrid multi-material 3D printer. *IOP Conf. Ser. Mater. Sci. Eng.* **1193**, 012044:1–012044:9 (2021).
319. Fernández, I. *et al.* Ultrasonic vibration-assisted ball burnishing tool for a lathe



- characterized by acoustic emission and vibratory measurements. *Materials (Basel)*. **14**, 5746:1–5746:17 (2021).
320. Guaya, D., Jiménez, R., Sarango, J., Valderrama, C. & Cortina, J. Iron-doped natural clays: Low-cost inorganic adsorbents for phosphate recovering from simulated urban treated wastewater. *J. water Process Eng.* **43**, 102274:1–102274:11 (2021).
  321. Farrerons Vidal, O., Garcia, A. & Hernandez, E. Proyecto para fortalecer las capacidades de gestión para la innovación tecnológica y social de equipos docentes en universidades iberoamericanas. *Rev. del Congrés Int. Docència Univ. i Innovació* **2021**, (2021).
  322. Bas, P., Riba, J. & Moreno-Eguilaz, J. M. Corona discharge characteristics under variable frequency and pressure environments. *Sensors (Switzerland)* **21**, 6676:1–6676:13 (2021).
  323. Leon, A. & Peña, M. Gamification tools in the learning of shipbuilding in the undergraduate marine engineering education. *Comput. Appl. Eng. Educ.* **30**, 458–471 (2021).
  324. Spier, W. D. *et al.* Real-time optimization-based reference calculation integrated control for MMCs considering converter limitations. *IEEE Trans. power Deliv.* (2021). doi:10.1109/TPWRD.2021.3119148
  325. Rojas, G., Riba, J. & Moreno-Eguilaz, J. M. Modeling of a DC-DC bidirectional converter used in mild hybrid electric vehicles from measurements. *Measurement* **183**, 109838:1–109838:8 (2021).
  326. Barja, S. *et al.* Artificial intelligence techniques for enabling Big Data services in distribution networks: a review. *Renew. Sustain. energy Rev.* **150**, 111459:1–111459:25 (2021).
  327. Lacruz, A. *et al.* Biobased waterborne polyurethane-ureas modified with POSS-OH for fluorine-free hydrophobic textile coatings. *Polymers (Basel)*. **13**, 3526:1–3526:22 (2021).
  328. Guardo, A., Fontanals, A., Egusquiza, M., Valero, M. & Egusquiza, E. Characterization of the effects of ingested bodies on the rotor–stator interaction of hydraulic turbines. *Energies* **14**, 1–16 (2021).
  329. Fenollosa, F. *et al.* Research on desktop 3D Printing Multi-Material New Concepts. *IOP Conf. Ser. Mater. Sci. Eng.* **1193**, 012043: 1–012043: 8 (2021).
  330. Rojas, G., Riba, J. & Moreno-Eguilaz, J. M. CNN-LSTM-based prognostics of bidirectional converters for electric vehicles' machine. *Sensors (Switzerland)* **21**, 7079:1–7079:18 (2021).
  331. Suzuki, Y., Futatani, S. & Geiger, J. Nonlinear MHD simulation of core plasma collapse events in Wendelstein 7-X. *Plasma Phys. Control. fusion* **63**, 124009:1–124009:2 (2021).
  332. Castillo-Escario, Y., Kumru, H., Ferrer, I., Vidal, J. & Jane, R. Detection of sleep-disordered breathing in patients with spinal cord injury using a smartphone. *Sensors (Switzerland)* **21**, 7182:1–7182:19 (2021).

333. Ikumi, T., Galeote, E., Pujadas, P., de la Fuente, A. & López, R. [Neural network-aided prediction of post-cracking tensile strength of fibre-reinforced concrete](#). *Comput. Struct.* **256**, 1066407/1–106640/16 (2021).
334. Grillone, B., Mor, G., Danov, S., Cipriano, J. & Sumper, A. [A data-driven methodology for enhanced measurement and verification of energy efficiency savings in commercial buildings](#). *Appl. Energy* **301**, 117502/1–117502/16 (2021).
335. Geng, L., D., Z., Chen, J. & Escaler, X. [Large-eddy simulation of cavitating tip leakage vortex structures and dynamics around a NACA0009 hydrofoil](#). *J. Mar. Sci. Eng.* **9**, 1198:1–1198:15 (2021).
336. Aguilar, H., García-Villoria, A. & Pastor, R. [Mathematical models for buffer sizing problems in parallel assembly lines with multi-line stations and different cycle times](#). *Dyna* **96**, 563 (2021).
337. Bonet, C., Jeffrey, M., Martin, P. & Olm, J. M. [Ageing of an oscillator due to frequency switching](#). *Commun. nonlinear Sci. Numer. Simul.* **102**, 105950:1–105950:26 (2021).
338. Xiong, H. *et al.* [Multi-objective optimization of a hydro-wind-photovoltaic power complementary plant with a vibration avoidance strategy](#). *Appl. Energy* **301**, 117459: 1–117459: 30 (2021).
339. Vaquero, V. *et al.* [Dual-branch CNNs for vehicle detection and tracking on LiDAR data](#). *IEEE Trans. Intell. Transp. Syst.* **22**, 6942–6953 (2021).
340. Pons, J. & Talavera, P. [On cosmological expansion and local physics](#). *Gen. Relativ. Gravit.* **53**, 105: 1–105: 24 (2021).
341. Beneyto, A., Puig, V., Bequette, B. & Vehí, J. [A hybrid automata approach for monitoring the patient in the loop in artificial pancreas systems](#). *Sensors (Switzerland)* **21**, 7117:1–7117:25 (2021).
342. Bueno, H., Andres, G. & Costa-Castelló, R. [Power quality improvement through a UPQC and a resonant observer-based mimo control strategy](#). *Energies* **14**, 6938:1–6938:21 (2021).
343. Trapiello, C., Puig, V. & Rotondo, D. [A zonotopic set-invariance analysis of replay attacks affecting the supervisory layer](#). *Syst. Control Lett.* **157**, 105056:1–105056:8 (2021).
344. Lucente, G. *et al.* [Current Incidence and risk factors of fecal incontinence after acute stroke affecting functionally independent people](#). *Front. Neurol.* **12**, 755432:1–755432:8 (2021).
345. Giuliani, F. [Transfers of energy through fast diffusion channels in some resonant PDEs on the circle](#). *Discret. Contin. Dyn. Syst. - A* **41**, 5057–5085 (2021).
346. Buj-Corral, I. *et al.* [Characterization of 3d printed yttria-stabilized zirconia parts for use in prostheses](#). *Nanomaterials* **11**, 1–12 (2021).
347. Castilla, M. *et al.* [Effects of clock deviations on the performance of microgrids based on virtual synchronous generators](#). *IET Power Electron.* **14**, 2337–2349 (2021).

348. Brenot, H. *et al.* [EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds.](#) *Nat. Hazards Earth Syst. Sci.* **21**, 3367–3405 (2021).
349. Liu, Y., Riba, J., Moreno-Eguilaz, J. M. & Sanllehí, J. [Analysis of a smart sensor based solution for smart grids real-time dynamic thermal line rating.](#) *Sensors (Switzerland)* **21**, 7388:1–7388:17 (2021).
350. Montenegro-Landivar, M. F. *et al.* [Recovery of added-value compounds from orange and spinach processing residues: green extraction of phenolic compounds and evaluation of antioxidant activity.](#) *Antioxidants* **10**, 1800:1–1800:15 (2021).
351. Gutiérrez, I. *et al.* [Radon transport events associated with the impact of a NORM repository in the SW of Europe.](#) *Environ. Pollut.* **289**, 117963:1–117963:10 (2021).
352. Marateb, H. *et al.* [Automatic classification between COVID-19 and Non-COVID-19 pneumonia using symptoms, comorbidities, and laboratory findings: the Khorshid COVID cohort study.](#) *Front. Med.* **8**, 768467:1–768467:14 (2021).
353. Migliorelli, C. *et al.* [Cognitive stimulation has potential for brain activation in individuals with Rett syndrome.](#) *J. Intellect. Disabil. Res.* **66**, 213–224 (2021).
354. Garcia-Planas, M. I. [Geometric structure of the set of pairs of matrices under simultaneous similarity.](#) *Univers. J. Math. Appl.* **4**, 147–153 (2021).
355. Beck, T. *et al.* [The metrological traceability, performance and precision of european radon calibration facilities.](#) *Int. J. Environ. Res. Public Health* **18**, 12150:1–12150:15 (2021).
356. Canals Casals, L., Macarulla, M. & Gómez-Nuñez, A. [High-Capacity Cells and Batteries for Electric Vehicles.](#) *Energies* **14**, 7799:1–7799:2 (2021).
357. Koubychine, Y. A., Borisov, M., Ermakov, A., Khankin, V. & Shvedunov, V. [Racetrack Microtron—Pushing the Limits.](#) *Symmetry-Basel* **13**, 2244:1–2244: 17 (2021).
358. Ajanovic, S. *et al.* [How did the COVID-19 lockdown affect children and adolescent's well-being: Spanish parents, children, and adolescents respond.](#) *Front. public Heal.* **9**, 745062:1–745062:12 (2021).
359. Pons, J. M. [From Galileo to Navier and Clapeyron. The intuition of a genius versus engineering rigour.](#) *ArtefaCToS. Rev. Estud. sobre la Cienc. y la Tecnol.* **10**, 5–20 (2021).
360. Casals, A. & Hernansanz, A. [Guest Editorial CRAS—Joining Efforts, Progressing Faster.](#) *IEEE Trans. Med. Robot. bionics* **3**, 853–854 (2021).
361. Pons, J. M., Casariego, P. & Sarrablo, V. [Arquitectura y sociedad a través de la expansión de Barcelona.](#) *Anu. d'Arquitectura i Soc.* 60–92 (2021). doi:10.4995/anuari.2021.16127
362. Saura, J., Mesas, J. J. & Sainz, L. [Average value of the DC-link output voltage in multi-phase uncontrolled bridge rectifiers under supply voltage balance and unbalance conditions.](#) *Electr. Eng.* **103**, 3097–3109 (2021).
363. Gómez-Pérez, C. *et al.* [Gait event detection using kinematic data in children with](#)

- bilateral spastic cerebral palsy. *Clin. Biomech.* **90**, 105492:1–105492:6 (2021).
364. Serrano, A., Martinez, J., Casals-Torrens, P. & Bosch, R. [A robust islanding detection method with zero-non-detection zone for distribution systems with DG.](#) *Int. J. Electr. power energy Syst.* **133**, 107247:1–107247: 16 (2021).
  365. Soldevila, N. *et al.* [Behavior of hospitalized severe influenza cases according to the outcome variable in Catalonia, Spain, during the 2017–2018 season.](#) *Sci. Rep.* **11**, 13587:1–13587:11 (2021).
  366. Montenegro-Landivar, M. F. *et al.* [Polyphenols and their potential role to fight viral diseases: An overview.](#) *Sci. Total Environ.* **801**, 149719:1–149719:14 (2021).
  367. Marateb, H. *et al.* [Absolute mortality risk assessment of COVID-19 patients: the Khorshid COVID Cohort \(KCC\) study.](#) *BMC Med. Res. Methodol.* **21**, 1–9 (2021).
  368. Marateb, H. *et al.* [Classification of psychiatric symptoms using deep interaction networks: the CASPIAN-IV study.](#) *Sci. Rep.* **11**, 15706:1–15706:15 (2021).
  369. Busquets-Monge, S., Rafiezadeh, R., Alepuz, S., Filba, À. & Nicolas, J. [Fast Reliability Assessment of Neutral-Point-Clamped Topologies through Markov Models.](#) *IEEE Trans. power Electron.* **36**, 13449–13459 (2021).
  370. Ferrero, S. *et al.* [A Modelica dynamic model of a supercritical CO2 energy conversion system for EU-DEMO.](#) *Fusion Eng. Des.* **173**, 112826:1–112826: 8 (2021).
  371. Serra, F. M., Doria-Cerezo, A. & Bodson, M. [A Multiple-Reference Complex-Based Controller for Power Converters.](#) *IEEE Trans. power Electron.* **36**, 14466–14477 (2021).
  372. Kamtsikakis, A. *et al.* [Asymmetric water transport in dense leaf cuticles and cuticle-inspired compositionally graded membranes.](#) *Nat. Commun.* **12**, 1267/1–1267/11 (2021).
  373. Camacho, A., Castilla, M., Miret, J., Velasco, M. & Guzman, R. [Positive sequence voltage control, full negative sequence cancellation and current limitation for static compensators.](#) *IEEE J. Emerg. Sel. Top. power Electron.* **9**, 6613–6623 (2021).
  374. Lacruz, A., Salvador, M., Aliaga, J., Camps, J. & de Ilarduya, A. [Poliuretano-ureas biobasados en dispersión acuosa para el sector de recubrimientos textiles.](#) *Rev. plásticos Mod.* **122**, 19–25 (2021).
  375. Kollaard, R. *et al.* [Review of extremity dosimetry in nuclear medicine.](#) *J. Radiol. Prot.* **41**, R60–R87 (2021).
  376. del Ama, A. J., Moreno, J. C. & Font-Llagunes, J. M. [El proyecto TAILOR: sistemas para la asistencia de la marcha.](#) *Sobre ruedas* 22–30 (2021).
  377. Bagherzade, M., Sánchez-Marrè, M., Bahilo, E. & Angulo, C. [Operational modes detection in industrial gas turbines using an ensemble of clustering methods.](#) *Sensors (Switzerland)* **21**, 8047:1–8047:25 (2021).
  378. Grau, N. *et al.* [Risk management in the ambulatory care process in a mutual benefit association covering work-related accidents and diseases: Applying modified failure mode and effect analysis \(FMEA\) methodology.](#) *J. Patient Saf.* **17**, E1428–E1432 (2021).

379. Suarez, D., de les Valls, E. & Batet, L. [On the use of CFD to obtain head loss coefficients in hydraulic systems and its application to liquid metal MHD flows in nuclear fusion reactor blankets.](#) *Plasma Phys. Control. Fusion* **63**, 124002: 1–124002: 7 (2021).
380. Kyriakidou, A., Schlieff, J., Ginjaume, M. & Kollaard, R. [Need for harmonisation of extremity dose monitoring in nuclear medicine: Results of a survey amongst national dose registries in Europe.](#) *J. Radiol. Prot.* **41**, 726–738 (2021).
381. Olivella, J., Domenech, B. & Calleja, G. [Potential of implementation of residential photovoltaics at city level: the case of London.](#) *Renew. energy* **180**, 577–585 (2021).
382. Lledó, T., Bahman, A., Lannuzzo, F., Montesinos-Miracle, D. & Galceran-Arellano, S. [Effect of current distortion and unbalanced loads on semiconductors reliability.](#) *IEEE access* **9**, 162660–162670 (2021).
383. Barriobero-Vila, P. *et al.* [Deformation kinetics of a TRIP steel determined by in situ high-energy synchrotron X-ray diffraction.](#) *Materialia* **20**, 101251:1–101251:10 (2021).
384. Dakic, J., Cheah, M., Gomis-Bellmunt, O. & Prieto-Araujo, E. [Low frequency AC transmission systems for offshore wind power plants: Design, optimization and comparison to high voltage AC and high voltage DC.](#) *Int. J. Electr. power energy Syst.* **133**, 107273:1–107273:12 (2021).
385. Al-Awad, Freixa, J. & Perez, M. [Application of a BEPU-based code assessment to the ATLAS upper head SB-LOCA test.](#) *Ann. Nucl. energy* **164**, 1–13 (2021).
386. De Castro, M., Velasco, M. & Angulo, C. [Machine-learning-based condition assessment of gas turbine: a review.](#) *Energies* **14**, 8468:1–8468:27 (2021).
387. Koelewijn, A. D. *et al.* [Adaptation Strategies for Personalized Gait Neuroprosthetics.](#) *Front. Neurobot.* **15**, 750519:1–750519:8 (2021).
388. Babeli, I. *et al.* [Hybrid conducting alginate-based hydrogel for hydrogen peroxide detection from enzymatic oxidation of lactate.](#) *Int. J. Biol. Macromol.* **193**, 1237–1248 (2021).
389. Belay, A. *et al.* [Developing novel technologies and services for intelligent low voltage electricity grids: cost–benefit analysis and policy implications.](#) *Energies* **15**, 94:1–94:25 (2021).
390. Buj-Corral, I., Rodero, L. & Marco-Almagro, L. [Optimization and sensitivity analysis of the cutting conditions in rough, semi-finish and finish honing.](#) *Materials (Basel)*. **15**, 1–23 (2021).

## Annex 2. Revistes

En aquest apartat es pot consultar el llistat de les 235 revistes on han publicat els investigadors de l'ETSEIB, amb l'índex d'impacte de cadascuna d'elles.

[a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#) [i](#) [j](#) [k](#) [l](#) [m](#) [n](#) [o](#) [p](#) [q](#) [r](#) [s](#) [t](#) [u](#) [v](#) [w](#) [x](#) [y](#) [z](#)

# a

ACS Applied Materials & Interfaces 283

Índex d'impacte 10.383

Lloc en el rànquing: 49/345 **1r quartil**

Acta materialia 269

Índex d'impacte 1.335

Lloc en el rànquing: 23/34 **3r quartil**

Acta Physica Polonica A 125 **Accés obert**

Índex d'impacte 0.725

Lloc en el rànquing: 84/110 **4t quartil**

Advances in Mathematics 21

Índex d'impacte 1.675

Lloc en el rànquing: 59/332 **1r quartil**

American journal of Physiology-Heart and Circulatory Physiology 122

Índex d'impacte 5.125

Lloc en el rànquing: 15/81 **1r quartil**

Analytical and Bioanalytical Chemistry 147

Índex d'impacte 4.478

Lloc en el rànquing: 25/79 **2n quartil**

Analytical Chemistry 242

Índex d'impacte 8.008

Lloc en el rànquing: 7/87 **1r quartil**

Annals of 3D Printed Medicine 181 **Accés obert**

Revista no indexada

Annals of nuclear energy 292, 385

Índex d'impacte 1.81

Lloc en el rànquing: 13/34 **2n quartil**

Annual Reviews in Control 62

Índex d'impacte 10.699

Lloc en el rànquing: 5/65 **1r quartil**

Antioxidants 255, 302, 350 **Accés obert**

Índex d'impacte 7.675

Lloc en el rànquing: 4/63 **1r quartil**

Anuari d'arquitectura i societat 361 **Accés obert**

Revista no indexada

Applied Energy 334, 338

Índex d'impacte 11.446

Lloc en el rànquing: 15/119 **1r quartil**

Applied Sciences 96, 174, 199, 200, 297 **Accés obert**

Índex d'impacte 2.838

Lloc en el rànquing: 39/92 **2n quartil**

Applied Soft Computing 281

Índex d'impacte 8.263

Lloc en el rànquing: 23/144 **1r quartil**

Artefactos. Revista de estudios sobre la ciencia y la tecnología 359 **Accés obert**

Revista no indexada

Atti dell'Accademia Nazionale dei Lincei 126

Revista no indexada

Automatica 22, 106, 273

Índex d'impacte 7.277

Lloc en el rànquing: 12/65 **1r quartil**

# b

Biomacromolecules 194, 240

Índex d'impacte 6.978

Lloc en el rànquing: 3/56 **1r quartil**

BMC Medicine 367 **Accés obert**

Índex d'impacte 4.612

Lloc en el rànquing: 27/109 **1r quartil**

Boletín Estadística e Investigación Operativa 110 **Accés obert**

Revista no indexada

Brazilian Journal of Botany 265

Índex d'impacte 1.368

Lloc en el rànquing: 168/238 **3r quartil**

Brazilian Journal of Business 28 **Accés obert**

Revista no indexada

British Food Journal 203

Índex d'impacte 3.224

Lloc en el rànquing: 71/143 **2n quartil**

Bulletin of the Malaysian Mathematical Sciences Society 94

Índex d'impacte 1.397

Lloc en el rànquing: 81/332 **1r quartil**

# C

Cancer Letters 105

Índex d'impacte 9.756

Lloc en el rànquing: 35/245 **1r quartil**



Cancers 116 **Accés obert**

Índex d'impacte 6.575

Lloc en el rànquing: 60/245 **1r quartil**

Catena 190

Índex d'impacte 6.367

Lloc en el rànquing: 17/201 **1r quartil**

ce/papers 270, 272, 275, 276

Revista no indexada

Celestial Mechanics and Dynamical Astronomy 121

Índex d'impacte 1.595

Lloc en el rànquing: 50/69 **3r quartil**

Cement and concrete research 274

Índex d'impacte 11.958

Lloc en el rànquing: 1/68 **1r quartil**

Chemical communications journal 77

Índex d'impacte 6.065

Lloc en el rànquing: 53/179 **2n quartil**

Classical and Quantum Gravity 163

Índex d'impacte 3.853

Lloc en el rànquing: 24/69 **2n quartil**

Clinical anatomy 55

Índex d'impacte 2.409

Lloc en el rànquing: 8/21 **2n quartil**

Clinical and Translational Oncology 311

Índex d'impacte 3.340

Lloc en el rànquing: 165/245 **3r quartil**

Clinical Biomechanics 363

Índex d'impacte 2.034

Lloc en el rànquing: 55/86 **3r quartil**

Clinical Simulation in Nursing 37

Índex d'impacte 2.856

Lloc en el rànquing: 24/125 **1r quartil**

Communications in Contemporary Mathematics 61

Índex d'impacte 1.708

Lloc en el rànquing: 57/332 **1r quartil**

Communications in Mathematical Physics 52

Índex d'impacte 2.361

Lloc en el rànquing: 13/56 **1r quartil**

Communications in Nonlinear Science and Numerical Simulation 87, 337

Índex d'impacte 4.186

Lloc en el rànquing: 9/267 **1r quartil**

Competitiveness Review 74

Sense índex d'impacte (apareix el nou índex JCI)

Journal Citation Indicator 0.54

Lloc en el rànquing: 170/295 **3r quartil**

Composites Part A: Applied Science and Manufacturing 180

Índex d'impacte 9.463

Lloc en el rànquing: 8/51 **1r quartil**

Computer Applications in Engineering Education 323

Índex d'impacte 2.109

Lloc en el rànquing: 85/113 **4t quartil**

Computers & Chemical Engineering 191, 282

Índex d'impacte 4.13

Lloc en el rànquing: 51/113 **2n quartil**

Computers & structures 333

Índex d'impacte 5.372

Lloc en el rànquing: 32/113 **2n quartil**

Control Engineering Practice 19, 88, 131, 306, 313

Índex d'impacte 4.057

Lloc en el rànquing: 24/65 **2n quartil**

# d

Designs 176 **Accés obert**

Revista no indexada

Diàlegs 220 **Accés obert**

Revista no indexada

Dirección y administración mayor intercambio de conocimiento global 132 **Accés obert**

Revista no indexada

Discrete and Continuous Dynamical Systems. Series A 119, 183, 345 **Accés obert**

Índex d'impacte 1.558

Lloc en el rànquing: 64/332 **1r quartil**

Discrete Mathematics 12

Índex d'impacte 0.961

Lloc en el rànquing: 169/332 **3r quartil**

Dyna management 141, 227

Revista no indexada

Dyna revista ingeniería e industria 97, 161, 336

Índex d'impacte 2.070

Lloc en el rànquing: 51/92 **3r quartil**

# e

Education + Training 64

Índex d'impacte 3.058

Lloc en el rànquing: 86/267 **2n quartil**

Education and Information Technologies 197

Índex d'impacte 3.666

Lloc en el rànquing: 62/267 **1r quartil**

Electric Power Systems Research 312

Índex d'impacte 3.818

Lloc en el rànquing: 97/276 **2n quartil**

Electrical Engineering 362

Índex d'impacte 1.63

Lloc en el rànquing: 204/276 **3r quartil**

Electronics 30, 152, 168, 178, 201, 202, 243, 244, 286 **Accés obert**

Índex d'impacte 2.690

Lloc en el rànquing: 100/164 **3r quartil**

Energies 73, 133, 138, 143, 153, 195, 230, 290, 300, 328, 342, 356, 386, 389 **Accés obert**

Índex d'impacte 3.252

Lloc en el rànquing: 80/119 **3r quartil**

Energy 29, 253

Índex d'impacte 8.857

Lloc en el rànquing: 24/119 **1r quartil**

Energy Conversion and Management 280, 291

Índex d'impacte 1.26

Lloc en el rànquing: 28/145 **1r quartil**

Energy Research & Social Science 307

Índex d'impacte 8.514

Lloc en el rànquing: 11/127 **1r quartil**

Entropy 259 **Accés obert**

Índex d'impacte 2.738

Lloc en el rànquing: 42/86 **2n quartil**

Environment International 33 **Accés obert**

Índex d'impacte 13.352

Lloc en el rànquing: 16/279 **1r quartil**

Environmental Pollution 351

Índex d'impacte 9.988

Lloc en el rànquing: 28/279 **1r quartil**

Eurosurveillance 78 **Accés obert**

Índex d'impacte 4.865  
Lloc en el rànquing: 5/19 **2n quartil**

Expert Systems with Applications An International Journal 226

Índex d'impacte 8.665  
Lloc en el rànquing: 21/144 **1r quartil**

Extremes 117

Índex d'impacte 1.318  
Lloc en el rànquing: 79/125 **3r quartil**

## f

Fire and materials 232

Índex d'impacte 1.979  
Lloc en el rànquing: 266/345 **4t quartil**

Flow Measurement and Instrumentation 127

Índex d'impacte 2.42  
Lloc en el rànquing: 72/137 **3r quartil**

Frontiers in Medicine 352 **Accés obert**

Índex d'impacte 5.058  
Lloc en el rànquing: 52/172 **2n quartil**

Frontiers in neurology 344 **Accés obert**

Índex d'impacte 4.086  
Lloc en el rànquing: 88/212 **2n quartil**

Frontiers in Neurorobotics 387 **Accés obert**

Índex d'impacte 3.493  
Lloc en el rànquing: 72/144 **2n quartil**

Frontiers in Psychology 114 **Accés obert**

Índex d'impacte 4.232  
Lloc en el rànquing: 35/147 **1r quartil**

Frontiers in Public Health 358 **Accés obert**

Índex d'impacte 6.461

Lloc en el rànquing: 37/210 **1r quartil**

Frontiers of Environmental Science & Engineering 23

Índex d'impacte 6.048

Lloc en el rànquing: 20/54 **2n quartil**

Fusion engineering and design 149, 245, 271, 370

Índex d'impacte 1.905

Lloc en el rànquing: 11/34 **2n quartil**

Fuzzy Sets and Systems 250

Índex d'impacte 4.462

Lloc en el rànquing: 19/109 **1r quartil**

## g

Gaceta sanitaria 18 **Accés obert**

Índex d'impacte 2.479

Lloc en el rànquing: 71/109 **3r quartil**

General Relativity and Gravitation 340

Índex d'impacte 2.840

Lloc en el rànquing: 31/69 **2n quartil**

Geographical Analysis 17

Índex d'impacte 3.566

Lloc en el rànquing: 29/85 **2n quartil**

Geophysical Research Letters 267 **Accés obert**

Índex d'impacte 5.576

Lloc en el rànquing: 25/201 **1r quartil**



IEEE Access 10, 34, 47, 66, 142, 241, 382 **Accés obert**

Índex d'impacte 3.476

Lloc en el rànquing: 79/164 **2n quartil**

IEEE Robotics & Automation Magazine 41

Índex d'impacte 5.229

Lloc en el rànquing: 18/65 **2n quartil**

IEEE Transactions on Automatic Control 63, 222

Sense índex d'impacte (apareix el nou índex JCI)

Journal Citation Indicator 1.61

Lloc en el rànquing: 11/65 **1r quartil**

IEEE Transactions on Biomedical Engineering 11, 104

Índex d'impacte 4.756

Lloc en el rànquing: 37/98 **2n quartil**

IEEE Transactions on Circuits and Systems I: Regular Papers 277

Índex d'impacte 4.14

Lloc en el rànquing: 87/276 **2n quartil**

IEEE Transactions on Control Systems Technology 42

Índex d'impacte 5.418

Lloc en el rànquing: 53/276 **1r quartil**

IEEE Transactions on Energy Conversion 51, 185

Índex d'impacte 4.877

Lloc en el rànquing: 65/276 **1r quartil**

IEEE Transactions on Industry Applications 211

Índex d'impacte 4.079

Lloc en el rànquing: 23/92 **1r quartil**

IEEE Transactions on Instrumentation and Measurement 238

Índex d'impacte 5.332

Lloc en el rànquing: 56/276 **1r quartil**

IEEE Transactions on Intelligent Transportation Systems 339

Índex d'impacte 9.551

Lloc en el rànquing: 4/138 **1r quartil**

IEEE Transactions on Medical Robotics and Bionics 360

Revista no indexada

IEEE Transactions on Power Delivery 80, 135, 206, 231, 324

Índex d'impacte 4.825

Lloc en el rànquing: 67/276 **1r quartil**

IEEE Transactions on Power Electronics 48, 53, 192, 237, 369, 371

Índex d'impacte 5.967

Lloc en el rànquing: 44/276 **1r quartil**

IEEE Transactions on Power Systems 44, 49, 144

Índex d'impacte 7.326

Lloc en el rànquing: 32/276 **1r quartil**

IEEE Transactions on Systems, Man, and Cybernetics: Systems 98

Índex d'impacte 11.471

Lloc en el rànquing: 4/65 **1r quartil**

IEEE Translations on sustainable energy 6

Índex d'impacte 8.31

Lloc en el rànquing: 27/119 **1r quartil**

IET Power Electronics 79, 347 **Accés obert**

Índex d'impacte 2.112

Lloc en el rànquing: 170/276 **1r quartil**

IFAC-PapersOnLine Diamond 20 **Accés obert**

Proceedings

Illinois Journal of Mathematics 120

Índex d'impacte 0.067

Lloc en el rànquing: 300/302 **4t quartil**

Indiana University Mathematics Journal 13

Índex d'impacte 1.059

Lloc en el rànquing: 141/332 **2n quartil**

Ingeniare: Revista Chilena de Ingeniería 102 **Accés obert**

Revista no indexada



International Journal of Biological Macromolecules 388

Índex d'impacte 8.025

Lloc en el rànquing: 46/296 **1r quartil**

International journal of climatology 5

Índex d'impacte 3.651

Lloc en el rànquing: 45/94 **2n quartil**

International Journal of Disaster Risk Reduction 221

Índex d'impacte 4.842

Lloc en el rànquing: 38/201 **1r quartil**

International journal of Educational Research and Innovation 24 **Accés obert**

Sense índex d'impacte (apareix el nou índex JCI)

Journal Citation Indicator 0.33

Lloc en el rànquing: 538/739 **3r quartil**

International Journal of Electrical Power & Energy Systems 83, 150, 364, 384

Índex d'impacte 5.659

Lloc en el rànquing: 50/276 **1r quartil**

International Journal of Environmental Research and Public Health 355 **Accés obert**

Índex d'impacte 4.614

Lloc en el rànquing: 45/182 **1r quartil**

International Journal of Hydrogen Energy 57

Índex d'impacte 7.139

Lloc en el rànquing: 42/163 **2n quartil**

International Journal of Industrial and Systems Engineering 75

Índex d'impacte 3.271

Lloc en el rànquing: 34/87 **2n quartil**

International Journal of Interactive Mobile Technologies 65 **Accés obert**

Revista no indexada

International Journal of Public Health 299 **Accés obert**

Índex d'impacte 5.1

Lloc en el rànquing: 35/182 **1r quartil**

International Journal of Robust and Nonlinear Control 54

Índex d'impacte 3.897

Lloc en el rànquing: 13/267 **1r quartil**

International Journal of Sustainable Lighting 140 **Accés obert**

Revista no indexada

International Journal of Technology and Design Education 262

Índex d'impacte 1.781

Lloc en el rànquing: 191/267 **3r quartil**

International Journal of Technology Management 15 **Accés obert**

Índex d'impacte 1.526

Lloc en el rànquing: 65/92 **3r quartil**

IOP Conference Series: Materials Science and Engineering 59, 60, 310, 315, 318, 329 **Accés obert**

Proceedings

ISA Transactions 239

Índex d'impacte 5.911

Lloc en el rànquing: 14/65 **1r quartil**

## j

JMIR Formative Research 118 **Accés obert**

Revista no indexada

Journal of Applied Polymer Science 58

Índex d'impacte 3.057

Lloc en el rànquing: 43/90 **2n quartil**

Journal of chemical information and modeling 7

Índex d'impacte 6.162

Lloc en el rànquing: 9/63 **1r quartil**

Journal of Cleaner Production 40

Índex d'impacte 11.072

Lloc en el rànquing: 9/54 **1r quartil**

Journal of Clinical Oncology 167

Índex d'impacte 50.717

Lloc en el rànquing: 6/245 **1r quartil**

Journal of Construction Engineering and Management 305

Índex d'impacte 5.292

Lloc en el rànquing: 17/68 **1r quartil**

Journal of Electromyography and Kinesiology 91

Índex d'impacte 2.641

Lloc en el rànquing: 26/68 **2n quartil**

Journal of Emerging and Selected Topics in Power Electronics 204, 373

Índex d'impacte 5.462

Lloc en el rànquing: 40/344 **1r quartil**

Journal of Environmental Chemical Engineering 261, 314

Índex d'impacte 7.968

Lloc en el rànquing: 20/142 **1r quartil**

Journal of Environmental Management 128, 219, 293

Índex d'impacte 8.91

Lloc en el rànquing: 34/279 **1r quartil**

Journal of Fluids Engineering 157

Índex d'impacte 1.998

Lloc en el rànquing: 84/137 **3r quartil**

Journal of hydroinformatics 158 **Accés obert**

Índex d'impacte 3.058

Lloc en el rànquing: 64/138 **2n quartil**

Journal of Immigrant and Minority Health 9

Índex d'impacte 2.015

Lloc en el rànquing: 140/182 **4t quartil**

Journal of Industrial Engineering and Management 169 **Accés obert**

Índex d'impacte 0.29

Lloc en el rànquing: 538/739 **3r quartil**

Journal of Intellectual Disability Research 353

Índex d'impacte 3.646

Lloc en el rànquing: 2/44 **1r quartil**

Journal of Intelligent & Fuzzy Systems 46

Índex d'impacte 1.737  
Lloc en el rànquing: 112/144 **4t quartil**

Journal of Manufacturing Systems 50

Índex d'impacte 9.498  
Lloc en el rànquing: 6/50 **1r quartil**

Journal of Marine Science and Engineering 335 **Accés obert**

Índex d'impacte 2.744  
Lloc en el rànquing: 4/16 **1r quartil**

Journal of Materials Science & Technology 179

Índex d'impacte 10.319  
Lloc en el rànquing: 2/79 **1r quartil**

Journal of Neural Engineering 254, 264

Índex d'impacte 5.043  
Lloc en el rànquing: 32/98 **2n quartil**

Journal of NeuroEngineering and Rehabilitation 90 **Accés obert**

Índex d'impacte 5.208  
Lloc en el rànquing: 5/68 **1r quartil**

Journal of patient safety 378

Índex d'impacte 2.243  
Lloc en el rànquing: 62/88 **3r quartil**

Journal of Personalized Medicine 115 **Accés obert**

Índex d'impacte 3.508  
Lloc en el rànquing: 41/109 **2n quartil**

Journal of Physics: Conference Series 130

Proceedings

Journal of Power Sources 38

Índex d'impacte 9.794  
Lloc en el rànquing: 33/163 **1r quartil**

Journal of Process Control 103

Índex d'impacte 3.951  
Lloc en el rànquing: 25/65 **2n quartil**

Journal of Radiological Protection 187, 375, 380

Índex d'impacte 1.559  
Lloc en el rànquing: 21/34 **3r quartil**

Journal of Sustainable Development of Energy, Water and Environment Systems 35 **Accés obert**

Sense índex d'impacte (apareix el nou índex JCI)

Journal Citation Indicator 0.48

Lloc en el rànquing: 214/324 **3r quartil**

Journal of Symbolic Computation 156

Índex d'impacte 0.97

Lloc en el rànquing: 87/109 **4t quartil**

Journal of The Franklin Institute 159, 216

Índex d'impacte 4.246

Lloc en el rànquing: 21/65 **3r quartil**

Journal of the mechanical behavior of biomedical materials 2

Índex d'impacte 4.042

Lloc en el rànquing: 48/98 **2n quartil**

Journal of Water Process Engineering 320

Índex d'impacte 7.340

Lloc en el rànquing: 23/142 **1r quartil**



Lecture Notes in Mechanical Engineering 31, 32

Proceedings

Luces CEI 95

Revista no indexada

# m

Machine learning 304

Proceedings

Machines 99 **Accés obert**

Índex d'impacte 2.899

Lloc en el rànquing: 127/276 **2n quartil**

Macromolecular Materials and Engineering 43

Índex d'impacte 4.402

Lloc en el rànquing: 136/345 **2n quartil**

Materialia 383

Sense índex d'impacte (apareix el nou índex JCI)

Journal Citation Indicator 0.57

Lloc en el rànquing: 200/414 **2n quartil**

Materials 36, 67, 175, 208, 258, 263, 298, 309, 319, 390 **Accés obert**

Índex d'impacte 3.748

Lloc en el rànquing: 18/79 **1r quartil**

Materials and Structures 81, 82

Índex d'impacte 4.285

Lloc en el rànquing: 21/68 **2n quartil**

Materials Science and Engineering: C 182

Índex d'impacte 8.457

Lloc en el rànquing: 8/44 **1r quartil**

Mathematica Scandinavica 26

Índex d'impacte 0.347

Lloc en el rànquing: 322/332 **4t quartil**

Mathematics 209 **Accés obert**

Índex d'impacte 2.592

Lloc en el rànquing: 21/332 **1r quartil**

Measurement 246, 325

Índex d'impacte 5.131

Lloc en el rànquing: 17/92 **1r quartil**

Measurement Science and Technology 301

Índex d'impacte 2.398

Lloc en el rànquing: 46/92 **2n quartil**

Mechanism and Machine Theory 70

Índex d'impacte 4.93

Lloc en el rànquing: 18/137 **1r quartil**

Metals 69, 210, 248, 284 **Accés obert**

Índex d'impacte 2.695

Lloc en el rànquing: 25/79 **2n quartil**

Monogràfic de Mobilitat Elèctrica 228 **Accés obert**

Revista no indexada

Multibody System Dynamics 25

Índex d'impacte 3.333

Lloc en el rànquing: 48/138 **2n quartil**

## n

Nanomaterials 346 **Accés obert**

Índex d'impacte 5.719

Lloc en el rànquing: 37/161 **1r quartil**

Natural Hazards and Earth System Sciences 348 **Accés obert**

Índex d'impacte 4.58

Lloc en el rànquing: 22/100 **1r quartil**

Nature communications 372 **Accés obert**

Índex d'impacte 17.694

Lloc en el rànquing: 6/73 **1r quartil**

Nuclear Engineering and Design 249

Índex d'impacte 1.9

Lloc en el rànquing: 12/34 **2n quartil**

Nuclear fusion 123, 186

Índex d'impacte 4.215

Lloc en el rànquing: 4/34 **1r quartil**

Nuclear instruments and methods in physics research. Section A, accelerators SP 1

Índex d'impacte 1.335

Lloc en el rànquing: 23/34 **3r quartil**

## p

El Periódico de Cataluña 76

Revista no indexada

Pharmaceutics 223 **Accés obert**

Índex d'impacte 6.525

Lloc en el rànquing: 39/279 **1r quartil**

Physica Medica 84, 146, 184, 217

Índex d'impacte 3.119

Lloc en el rànquing: 74/136 **3r quartil**

Physical review C 124, 257, 316

Índex d'impacte 3.199

Lloc en el rànquing: 6/19 **2n quartil**

Physics Letters B 162 **Accés obert**

Índex d'impacte 4.950

Lloc en el rànquing: 4/19 **1r quartil**

Physics of Fluids 151

Índex d'impacte 4.98

Lloc en el rànquing: 18/138 **1r quartil**

Plasma Physics and Controlled Fusion 224, 331, 379

Índex d'impacte 2.532

Lloc en el rànquing: 19/34 **3r quartil**



PLoS One 27, 164 **Accés obert**

Índex d'impacte 3.752

Lloc en el rànquing: 29/73 **2n quartil**

Polymer chemistry 111, 233

Índex d'impacte 5.364

Lloc en el rànquing: 13/90 **1r quartil**

Polymer 295

Índex d'impacte 4.432

Lloc en el rànquing: 22/90 **1r quartil**

Polymers (Basel) 93, 154, 166, 229, 260, 327 **Accés obert**

Índex d'impacte 4.967

Lloc en el rànquing: 16/90 **1r quartil**

Polymers and Polymer Composites 205

Índex d'impacte 1.841

Lloc en el rànquing: 20/32 **3r quartil**

Proceedings of the Institution of Mechanical Engineers, Part A 45

Índex d'impacte 1.616

Lloc en el rànquing: 106/137 **4t quartil**

Processes 39, 101, 234 **Accés obert**

Índex d'impacte 3.352

Lloc en el rànquing: 69/142 **2n quartil**

Progress in Artificial Intelligence 225

Sense índex d'impacte (apareix el nou índex JCI)

Journal Citation Indicator 0.34

Lloc en el rànquing: 142/189 **4t quartil**

Progress in Organic Coatings 4

Índex d'impacte 6.206

Lloc en el rànquing: 35/92 **2n quartil**

# q

Quality and Reliability Engineering International 100

Índex d'impacte 3.007

Lloc en el rànquing: **1r quartil**

Quality engineering 198, 218

Índex d'impacte 2.286

Lloc en el rànquing: 36/125 **2n quartil**

# r

Radiation Physics and Chemistry 303

Índex d'impacte 2.776

Lloc en el rànquing: 7/34 **1r quartil**

Radiation Protection Dosimetry 177, 317

Índex d'impacte 0.954

Lloc en el rànquing: 266/279 **4t quartil**

Rapid Prototyping Journal 288

Índex d'impacte 4.043

Lloc en el rànquing: 36/137 **2n quartil**

Reactive and Functional Polymers 92, 285

Índex d'impacte 4.966

Lloc en el rànquing: 17/72 **1r quartil**

Renewable and Sustainable Energy Reviews 213, 247, 326

Índex d'impacte 16.799

Lloc en el rànquing: 8/119 **1r quartil**

Renewable energies and power quality journal 287 **Accés obert**

Revista no indexada

Renewable energy 155, 189, 381

Índex d'impacte 9.634

Lloc en el rànquing: 1/47 **1r quartil**

Resources, Conservation & Recycling 193

Revista no indexada

Revista de plásticos modernos 374

Revista no indexada

Revista del Congrés Internacional de Docència Universitària i Innovació 14, 321 **Accés obert**

Revista no indexada

Revista Iberoamericana de automàtica e informàtica industrial 8, 134 **Accés obert**

Revista no indexada

## S

Science of the Total Environment 366

Índex d'impacte 10.753

Lloc en el rànquing: 26/279 **1r quartil**

Scientific reports (Nature) 112, 365, 368 **Accés obert**

Índex d'impacte 4.996

Lloc en el rànquing: 19/73 **2n quartil**

SciPost Physics 16 **Accés obert**

Índex d'impacte 6.554

Lloc en el rànquing: 15/86 **1r quartil**

SCM Notícies 86 **Accés obert**

Revista no indexada

Sensors 56, 109, 136, 165, 170, 173, 207, 212, 322, 330, 332, 341, 349, 377 **Accés obert**

Índex d'impacte 3.847

Lloc en el rànquing: 29/87 **2n quartil**

Sensors and actuators A. Physical 129

Índex d'impacte 4.291  
Lloc en el rànquing: 15/64 **1r quartil**

Separation and Purification Technology 72, 308

Índex d'impacte 9.136  
Lloc en el rànquing: 14/142 **1r quartil**

Sobre ruedas 376 **Accés obert**

Revista no indexada

Solar Energy 235, 289

Índex d'impacte 7.188  
Lloc en el rànquing: 37/119 **2n quartil**

Solid-State Electronics 160

Índex d'impacte 1.916  
Lloc en el rànquing: 186/276 **3r quartil**

Structural Health Monitoring 68

Índex d'impacte 5.71  
Lloc en el rànquing: 14/92 **1r quartil**

Surface and Coatings Technology 71, 89, 268

Índex d'impacte 4.865  
Lloc en el rànquing: 5/19 **2n quartil**

Sustainable Cities and Society 252

Índex d'impacte 10.696.847  
Lloc en el rànquing: 2/68 **1r quartil**

Sustainable Energy, Grids and Networks 279

Índex d'impacte 5.405  
Lloc en el rànquing: 54/276 **1r quartil**

Sustainability 3, 107, 137, 139, 145, 266 **Accés obert**

Índex d'impacte 3.889  
Lloc en el rànquing: 133/279 **3r quartil**

Symmetry 357 **Accés obert**

Índex d'impacte 2.94  
Lloc en el rànquing: 34/73 **2n quartil**

Systems & Control Letters 343

Índex d'impacte 2.742

Lloc en el rànquing: 38/87 **2n quartil**

## t

Tecnifood 85

Revista no indexada

The conversation 236 **Accés obert**

Revista no indexada

The Lancet Infectious Diseases 172

Índex d'impacte 71.421

Lloc en el rànquing: 2/94 **1r quartil**

Theoretical and Applied Climatology 294

Índex d'impacte 3.409

Lloc en el rànquing: 51/93 **3r quartil**

Theoretical and Applied Fracture Mechanics' aims & scopes 251

Índex d'impacte 4.374

Lloc en el rànquing: 33/137 **1r quartil**

Thermochimica Acta 215

Índex d'impacte 3.378

Lloc en el rànquing: 36/87 **2n quartil**

Thin-walled structures 278

Índex d'impacte 5.881

Lloc en el rànquing: 17/138 **1r quartil**

Transportation Letters 113

Índex d'impacte 2.844

Lloc en el rànquing: 27/37 **3r quartil**

Transportation Research Part B: Methodological 148

Índex d'impacte 7.632

Lloc en el rànquing: 19/379 **1r quartil**

## U

Universal Journal of Mathematics and Applications 354 **Accés obert**

Revista no indexada

Universe 188 **Accés obert**

Índex d'impacte 2.813

Lloc en el rànquing: 32/69 **2n quartil**

## V

Viruses 256 **Accés obert**

Índex d'impacte 5.818

Lloc en el rànquing: 14/37 **2n quartil**

## W

Waste Management 108

Índex d'impacte 8.816

Lloc en el rànquing: 11/54 **1r quartil**

Water 171, 196, 296 **Accés obert**

Índex d'impacte 3.53

Lloc en el rànquing: 36/100 **2n quartil**

WSEAS Transactions on Circuits and Systems 214

Revista no indexada