

**Articles indexats
publicats per
investigadors del
Campus Terrassa:
2021**



**UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH**

Campus de Terrassa



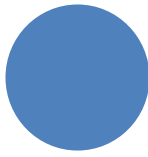
INTRODUCCIÓ

Aquesta pàgina recull els [374 articles publicats](#) per [273 investigadors/es](#) del Campus de Terrassa en revistes indexades al Journal Citation Report durant el 2021 ([nota metodològica](#)).

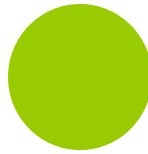
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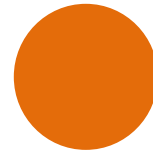
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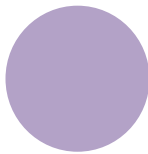
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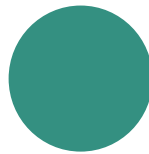
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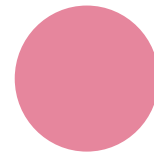
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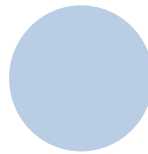
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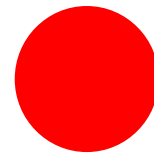
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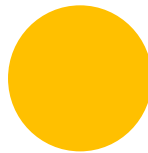
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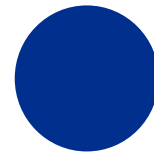
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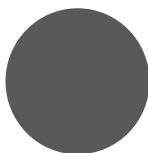
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38. Belzagui, F., [Buscio, V.](#), [Gutierrez-Bouzan, C.](#), & [Vilaseca, M.](#) (2021). Cigarette butts as a microfiber source with a microplastic level of concern. *SCIENCE OF THE TOTAL ENVIRONMENT*, 762. DOI [10.1016/j.scitotenv.2020.144165](#)
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Factor impacte 2021 = 4.279 – Q1
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Factor impacte 2021 = 2.690 – Q3
290. Yang, B.; [Arumi](#), D.; Manich, S.; [Gomez-Pau](#), A.; Rodriguez-Montanes, R.; Bargalló, M.; Campabadal, F.; Fang, L. (2021). RRAM Random Number Generator Based on Train of Pulses. *ELECTRONICS*, 10(15), 1831. DOI [10.3390/electronics10151831](#)
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291. Yang, C., Lu, M., & [Eskenati](#), A. R. (2021). Multi-scale finite element modeling of bending behavior of 3D multi-cell spacer weft-knitted composites with different structures. *POLYMERS & POLYMER COMPOSITES*, 29(9_SUPPL, 9). DOI [10.1177/09673911211046773](#)
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Factor impacte 2021 = 2.049 – Q2



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Factor impacte 2021 = 6.892 – Q1
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Factor impacte 2021 = 6.892 – Q1
310. Muñoz-Liesa, J.; Toboso-Chabero, S.; Mendoza, A.; Cuerva, E.; Gallo, E.; [Gasso-Domingo](#), S.; Josa, A. (2021). Building-integrated agriculture: Are we shifting environmental impacts? An environmental assessment and structural improvement of urban greenhouses. RESOURCES CONSERVATION AND RECYCLING, 169, 105526. DOI [10.1016/j.resconrec.2021.105526](#)
Factor impacte 2021 = 13.716 – Q1
311. Saucedo-Dorantes, J.J.; [Arellano-Espitia](#), F.; [Delgado-Prieto](#), M.; Osornio-Rios, R.A. (2021). Diagnosis Methodology Based on Deep Feature Learning for Fault Identification in Metallic, Hybrid and Ceramic Bearings. SENSORS, 21(17), 5832. DOI [10.3390/s21175832](#)
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Factor impacte 2021 = 4.424 – Q2
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320. Sarwar, W.; [Bergada](#), J.M.; Mellibovsky, F. (2021). Onset of temporal dynamics within a low reynolds-number laminar fluidic oscillator. APPLIED MATHEMATICAL MODELLING, 95, 219-235. DOI [10.1016/j.apm.2021.01.044](#)
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Factor impacte 2021 = 5.336 – Q1
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Factor impacte 2021 = 3.614 – Q1
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Factor impacte 2021 = 3.847 – Q2
324. Beretta, M.; Pelka, K.; [Cusido](#), J.; Lichtenstein, T. (2021). Quantification of the Information Loss Resulting from Temporal Aggregation of Wind Turbine Operating Data. APPLIED SCIENCES-BASEL, 11(17), 8065. DOI [10.3390/app11178065](#)
Factor impacte 2021 = 2.838 – Q2
325. Beretta, M.; Vidal, Y.; Sepúlveda, J.; Porro, O.; [Cusido](#), J. (2021). Improved Ensemble Learning for Wind Turbine Main Bearing Fault Diagnosis. APPLIED SCIENCES-BASEL, 11(16), 7523. DOI [10.3390/app11167523](#)
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Factor impacte 2021 = 3.051 – Q2
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Factor impacte 2021 = 7.280 – Q1
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331. Yang, W.; Pan, S.; Aresté, L.; [Haro](#), J. (2021). Theoretical and observational bounds on some interacting vacuum energy scenarios. PHYSICAL REVIEW D, 103(8), 083520. DOI [10.1103/PhysRevD.103.083520](#)
Factor impacte 2021 = 5.407 – Q1



332. Dean, G.; Rivera Ferre, M.G.; [Rosas-Casals, M.](#); López, F. (2021). Nature's contribution to people as a framework for examining socioecological systems: the case of pastoral systems. ECOSYSTEM SERVICES, 49, 101265. DOI [10.1016/j.ecoser.2021.101265](https://doi.org/10.1016/j.ecoser.2021.101265)
Factor impacte 2021 = 6.910 – Q1
333. Amato, F.; Cozzolino, G.; Moscato, F.; Moscato, V.; [Xhafa, F.](#) (2021). A Model for Verification and Validation of Law Compliance of Smart Contracts in IoT Environment. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, 17(11), 7752-7759. DOI [10.1109/TII.2021.3057595](https://doi.org/10.1109/TII.2021.3057595)
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334. Nandi, A.; [Xhafa, F.](#); Subirats, L.; Fort, S. (2021). Real-Time Emotion Classification Using EEG Data Stream in E-Learning Contexts. SENSORS, 21(5), 1589. DOI [10.3390/s21051589](https://doi.org/10.3390/s21051589)
Factor impacte 2021 = 3.847 – Q2
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336. Sanyal, S.; Kumar, V.; [Xhafa, F.](#); Sanyal, B.; Mukhopadhyay, S. (2021). A Game Theoretic Framework for Surplus Food Distribution in Smart Cities and Beyond. APPLIED SCIENCES-BASEL, 11(11), 5058. DOI [10.3390/app11115058](https://doi.org/10.3390/app11115058)
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Factor impacte 2021 = 2.420 – Q2
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Factor impacte 2021 = 5.349 – Q1
339. Liu, X.; Ribot, M.A.; Gusi-Amigo, A.; [Rovira-Garcia, A.](#); Sanz, J.; Closas, P. (2021). Cloud-Based Single-Frequency Snapshot RTK Positioning. SENSORS, 21(11), 3688. DOI [10.3390/s21113688](https://doi.org/10.3390/s21113688)
Factor impacte 2021 = 3.847 – Q2
340. [Rovira-Garcia, A.](#); Juan, J.M.; Sanz, J.; Gonzalez-Casado, G.; Ventura-Traveset, J.; Cacciapuoti, L.; Schoenemann, E. (2021). Removing day-boundary discontinuities on GNSS clock estimates: methodology and results. GPS SOLUTIONS, 25(2), 35. DOI [10.1007/s10291-021-01085-3](https://doi.org/10.1007/s10291-021-01085-3)
Factor impacte 2021 = 4.517 – Q2
341. [Rovira-Garcia, A.](#); Juan, J.J.; Sanz, J.; Gonzalez-Casado, G.; Ventura-Traveset, J.; Cacciapuoti, L.; Schoenemann, E. (2021). A multi-frequency method to improve the long-term estimation of GNSS clock corrections and phase biases. NAVIGATION-JOURNAL OF THE INSTITUTE OF NAVIGATION, 68(4), 815-828. DOI [10.1002/navi.453](https://doi.org/10.1002/navi.453)
Factor impacte 2021 = 2.472 – Q2
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Factor impacte 2021 = 4.809 – Q1
343. Tost, A.; Migliorelli, C.; [Bachiller, A.](#); Medina-Rivera, I.; Romero, S.; García-Cazorla, A.; Mananas, M.A. (2021). Choosing Strategies to Deal with Artifactual EEG Data in Children with Cognitive Impairment. ENTROPY, 23(8), 1030. DOI [10.3390/e23081030](https://doi.org/10.3390/e23081030)
Factor impacte 2021 = 2.738 – Q2
344. Migliorelli, C.; Romero, S.; [Bachiller, A.](#); Aparicio, J.; Alonso, J.F.; Mananas, M.A.; San Antonio, M. (2021). Improving the ripple classification in focal pediatric epilepsy: identifying pathological high-frequency oscillations by Gaussian

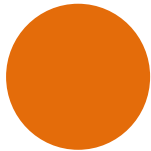


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Factor impacte 2021 = 5.043 – Q2

345. Vidiella, B.; [Guillamon](#), A.; Sardanyes, J.; Maull, V.; Pla, J.; Conde, N.; Solé, R. (2021). Engineering self-organized criticality in living cells. NATURE COMMUNICATIONS, 12(1), 4415. DOI [10.1038/s41467-021-24695-4](https://doi.org/10.1038/s41467-021-24695-4)
Factor impacte 2021 = 17.694 – Q1

346. Alarcon, T.; Sardanyes, J.; [Guillamon](#), A. (2021). Bivalent chromatin as a therapeutic target in cancer: An in silico predictive approach for combining epigenetic drug. PLOS COMPUTATIONAL BIOLOGY, 17(6), e1008408. DOI [10.1371/journal.pcbi.1008408](https://doi.org/10.1371/journal.pcbi.1008408)
Factor impacte 2021 = 4.779 – Q1

347. Andara, R.; Ortego, J.; Gómez, M.; [Ramirez-Pisco](#), R.; Navas, L.; Vázquez, C.; Gaitán, M. (2021). Behavior of Traffic Congestion and Public Transport in Eight Large Cities in Latin America during the COVID-19 Pandemic. APPLIED SCIENCES-BASEL, 11(10), 4703. DOI 10.3390/app11104703
Factor impacte 2021 = 2.838 – Q2



Accés obert

Del total d'articles indexats al 2021, hi ha 331 (un 95,4%) que es poden consultar en accés obert. Es distribueixen de la manera següent:

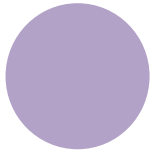
Accés obert	Via verda	137
	Via daurada	152
	Via híbrida	42
Accés tancat		16

Via verda: només es troben en obert en repositoris institucionals o temàtics

Via daurada: s'han publicat en revistes d'accés obert pures

Via híbrida: s'han publicat en revistes híbrides, és a dir revistes de subscripció que ofereixen als autors publicar en accés obert de forma immediata mitjançant el pagament d'una Article Processing Charge

Accés tancat: no es troben en accés obert



Autors més prolífics

24 autors amb 6 o més articles:

22 articles – [Quintanilla De Latorre](#), Ramon ([26](#), [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [65](#), [80](#), [81](#), [82](#), [83](#), [84](#), [116](#), [127](#), [137](#), [138](#), [139](#), [150](#), [193](#), [213](#))

14 articles – [Riba Ruiz](#), Jordi Roger ([30](#), [42](#), [55](#), [56](#), [136](#), [162](#), [163](#), [221](#), [222](#), [229](#), [230](#), [231](#), [232](#), [233](#))

11 articles – [Lis Arias](#), Manuel Jose ([40](#), [44](#), [64](#), [95](#), [154](#), [155](#), [159](#), [160](#), [170](#), [177](#), [283](#))

11 articles – [Masoller Alonso](#), Cristina ([45](#), [46](#), [53](#), [93](#), [167](#), [203](#), [215](#), [257](#), [258](#), [270](#), [278](#))

11 articles – [Moreno Eguilaz](#), Juan Manuel ([30](#), [136](#), [162](#), [163](#), [221](#), [222](#), [229](#), [230](#), [231](#), [232](#), [233](#))

10 articles – [Fernández](#), Daniel ([78](#), [79](#), [87](#), [195](#), [235](#), [237](#), [277](#), [303](#), [304](#), [305](#))

9 articles – [Montanya Puig](#), Juan ([17](#), [18](#), [181](#), [187](#), [206](#), [244](#), [264](#), [265](#), [279](#))

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8 articles – [Ardanuy Raso](#), Monica ([73](#), [107](#), [200](#), [238](#), [239](#), [240](#), [268](#), [285](#))

8 articles – [Colom Fajula](#), Xavier ([63](#), [156](#), [157](#), [189](#), [197](#), [297](#), [298](#), [302](#))

8 articles – [Gil Galí](#), Ignacio ([11](#), [74](#), [75](#), [143](#), [147](#), [164](#), [184](#), [285](#))

8 articles – [Puig Cayuela](#), Vicenç ([39](#), [190](#), [251](#), [262](#), [263](#), [275](#), [276](#), [292](#))

7 articles – [Acho Zuppa](#), Leonardo ([3](#), [4](#), [5](#), [76](#), [209](#), [210](#), [212](#))

7 articles – [Bernat Maso](#), Ernest ([40](#), [144](#), [152](#), [153](#), [171](#), [172](#), [252](#))

7 articles – [Fernández García](#), Raúl ([11](#), [74](#), [75](#), [147](#), [164](#), [184](#), [285](#))

7 articles – [Forcada Matheu](#), Nuria ([9](#), [50](#), [51](#), [91](#), [92](#), [99](#), [103](#))

7 articles – [Gil Espert](#), Lluís ([40](#), [144](#), [152](#), [153](#), [171](#), [172](#), [252](#))

6 articles – [Candela García](#), Jose Ignacio ([1](#), [2](#), [100](#), [267](#), [286](#), [287](#))

6 articles – [Casals Casanova](#), Miquel ([91](#), [92](#), [99](#), [102](#), [103](#), [269](#))

6 articles – [Ivanova](#), Kristina Dimitrova ([88](#), [119](#), [120](#), [208](#), [260](#), [261](#))

6 articles – [Pineda Rüegg](#), Nicolau ([18](#), [181](#), [206](#), [244](#), [264](#), [265](#))

6 articles – [Soria Guerrero](#), Manel ([140](#), [161](#), [178](#), [225](#), [246](#), [247](#))

6 articles – [Tarrasó Martínez](#), Andrés ([2](#), [29](#), [131](#), [256](#), [267](#), [287](#))

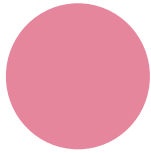


Revistes

amb més articles

S'ha publicat articles en 208 revistes indexades diferents. Les 21 revistes amb 3 o més articles són:

SENSORS	18
POLYMERS	16
ENERGIES	14
APPLIED SCIENCES BASEL	11
MATERIALS	10
ELECTRONICS	7
ENERGY AND BUILDINGS	5
OPTICS EXPRESS	5
ACTA ASTRONAUTICA	4
CONSTRUCTION AND BUILDING MATERIALS	4
IEEE ACCESS	4
JOURNAL OF APPLIED POLYMER SCIENCE	4
JOURNAL OF GEOPHYSICAL RESEARCH ATMOSPHERES	4
SUSTAINABILITY	4
ATMOSPHERIC RESEARCH	3
FIBERS AND POLYMERS	3
IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS	3
IEEE SENSORS JOURNAL	3
JOURNAL OF BUILDING ENGINEERING	3
JOURNAL OF THE TEXTILE INSTITUTE	3
SCIENTIFIC REPORTS	3



Articles amb més impacte

Al 2021 s'han publicat 167* articles en revistes situades al primer quartil d'alguna àrea temàtica del JCR. D'aquests, els 17 articles publicats a revistes de més impacte són:

Vidiella, B.; [Guillamon](#), A.; Sardanyes, J.; Maull, V.; Pla, J.; Conde, N.; Solé, R. (2021). Engineering self-organized criticality in living cells. *NATURE COMMUNICATIONS*, 12(1), 4415. DOI [10.1038/s41467-021-24695-4](#)
Factor impacte 2021 = 17.694 – Q1

Muñoz-Liesa, J.; Toboso-Chabero, S.; Mendoza, A.; Cuerva, E.; Gallo, E.; [Gasso-Domingo](#), S.; Josa, A. (2021). Building-integrated agriculture: Are we shifting environmental impacts? An environmental assessment and structural improvement of urban greenhouses. *RESOURCES CONSERVATION AND RECYCLING*, 169, 105526. DOI [10.1016/j.resconrec.2021.105526](#)
Factor impacte 2021 = 13.716 – Q1

Amato, F.; Cozzolino, G.; Moscato, F.; Moscato, V.; [Xhafa](#), F. (2021). A Model for Verification and Validation of Law Compliance of Smart Contracts in IoT Environment. *IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS*, 17(11), 7752-7759. DOI [10.1109/TII.2021.3057595](#)
Factor impacte 2021 = 11.648 – Q1

Grillone, B., Mor, G., Danov, S., Cipriano, J., & Sumper, A. (2021). A data-driven methodology for enhanced measurement and verification of energy efficiency savings in commercial buildings. *APPLIED ENERGY*, 301. DOI [10.1016/j.apenergy.2021.117502](#)
Factor impacte 2021 = 11.446 – Q1

[Urbano](#), E. M., [Martinez-Viol](#), V., [Kampouropoulos](#), K., & [Romeral](#), L. (2021). Energy equipment sizing and operation optimisation for prosumer industrial SMEs-A lifetime approach. *APPLIED ENERGY*, 299. DOI [10.1016/j.apenergy.2021.117329](#)
Factor impacte 2021 = 11.446 – Q1

[Amini](#), E., [Valls](#), C., & [Roncero](#), M.B. (2021). Ionic liquid-assisted bioconversion of lignocellulosic biomass for the development of value-added products. *JOURNAL OF CLEANER PRODUCTION*, 326. DOI [10.1016/j.jclepro.2021.129275](#)
Factor impacte 2021 = 11.072 – Q1

[Escursell](#), S., Llorach-Massana, P., & [Roncero](#), M.B. (2021). Sustainability in e-commerce packaging: A review. *JOURNAL OF CLEANER PRODUCTION*, 280(1). DOI [10.1016/j.jclepro.2020.124314](#)
Factor impacte 2021 = 11.072 – Q1

Belzagui, F., [Buscio](#), V., [Gutierrez-Bouzan](#), C., & [Vilaseca](#), M. (2021). Cigarette butts as a microfiber source with a microplastic level of concern. *SCIENCE OF THE TOTAL ENVIRONMENT*, 762. DOI [10.1016/j.scitotenv.2020.144165](#)
Factor impacte 2021 = 10.753 – Q1

[Pardo-Bosch](#), F., Pujadas, P., Morton, C., Cervera, C. (2022). Sustainable deployment of an electric vehicle public charging infrastructure network from a city business model perspective. *SUSTAINABLE CITIES AND SOCIETY*, 71, 102957. DOI [10.1016/j.scs.2021.102957](#)
Factor impacte 2021 = 10.696 – Q1

Zambrano-Prado, P.; Muñoz-Liesa, J.; Josa, A.; Rieradevall, J.; Alamús, R.; [Gasso-Domingo](#), S.; Gabarrell, X. (2021). Assessment of the food-water-energy nexus suitability of rooftops. A methodological remote sensing approach in an urban Mediterranean area. *SUSTAINABLE CITIES AND SOCIETY*, 75, 103287. DOI [10.1016/j.scs.2021.103287](#)
Factor impacte 2021 = 10.696 – Q1

[Perez-Rafael](#), S., [Ivanova](#), K., [Stefanov](#), I., Puiggali, J., del Valle, L. J., Todorova, K., Dimitrov, P., Hinojosa-Caballero, D., & [Tzanov](#), T. (2021). Nanoparticle-driven self-assembling injectable hydrogels provide a multi-factorial approach for chronic wound treatment. *ACTA BIOMATERIALIA*, 134, 131-143. DOI [10.1016/j.actbio.2021.07.020](#)
Factor impacte 2021 = 10.633 – Q1



[Fernandez](#), D.; [Vigo](#), D.; [Sampson](#), N.; [Hwang](#), I.; [Aguilar](#), S.; [Al-Hamzawi](#), A.O., ..., [Haro](#), J.M. (2021). Patterns of care and dropout rates from outpatient mental healthcare in low-, middle- and high-income countries from the World Health Organization's World Mental Health Survey Initiative. *PSYCHOLOGICAL MEDICINE*, 51(12), 2104-2116. DOI [10.1017/S0033291720000884](https://doi.org/10.1017/S0033291720000884)

Factor impacte 2021 = 10.592 – Q1

[Alavi](#), H., [Forcada](#), N., [Bortolini](#), R., & [Edwards](#), D. J. (2021). Enhancing occupants' comfort through BIM-based probabilistic approach. *AUTOMATION IN CONSTRUCTION*, 123. DOI [10.1016/j.autcon.2020.103528](https://doi.org/10.1016/j.autcon.2020.103528)

Factor impacte 2021 = 10.517 – Q1

[Tejedor](#), B., [Barreira](#), E., [Almeida](#), R. M. S. F., & [Casals](#), M. (2021). Automated data-processing technique: 2D Map for identifying the distribution of the U-value in building elements by quantitative internal thermography. *AUTOMATION IN CONSTRUCTION*, 122. DOI [10.1016/j.autcon.2020.103478](https://doi.org/10.1016/j.autcon.2020.103478)

Factor impacte 2021 = 10.517 – Q1

[Gala Morena](#), A., [Bassegoda](#), A., [Hoyo](#), J., & [Tzanov](#), T. (2021). Hybrid Tellurium-Lignin Nanoparticles with Enhanced Antibacterial Properties. *ACS APPLIED MATERIALS & INTERFACES*, 13(13), 14885-14893. DOI [10.1021/acsami.0c22301](https://doi.org/10.1021/acsami.0c22301)

Factor impacte 2021 = 10.383 – Q1

[Slavin](#), Y. N., [Ivanova](#), K., [Hoyo](#), J., [Perelshtein](#), I., [Owen](#), G., [Haegert](#), A., [Lin](#), Y.-Y., [LeBihan](#), S., [Gedanken](#), A., [Hafeli](#), U. O., [Tzanov](#), T., & [Bach](#), H. (2021). Novel Lignin-Capped Silver Nanoparticles against Multidrug-Resistant Bacteria. *ACS APPLIED MATERIALS & INTERFACES*, 13(19), 22098-22109. DOI [10.1021/acsami.0c16921](https://doi.org/10.1021/acsami.0c16921)

Factor impacte 2021 = 10.383 – Q1

[Grineviciute](#), L., [Babayigit](#), C., [Gailevicius](#), D., [Peckus](#), M., [Turduev](#), M., [Tolenis](#), T., [Vengris](#), M., [Kurt](#), H., & [Staliunas](#), K. (2021). Nanostructured Multilayer Coatings for Spatial Filtering. *ADVANCED OPTICAL MATERIALS*, 9(9). DOI [10.1002/adom.202001730](https://doi.org/10.1002/adom.202001730)

Factor impacte 2021 = 10.050 – Q1

*Els 347 articles en revistes indexades es distribueixen de la manera següent:

Quartil 1	167	48,13%
Quartil 2	116	33.43%
Quartil 3	59	17,00%
Quartil 4	5	1,44%



Articles més citats

A data 18.09.2022 els 347 articles seleccionats havien rebut 1112 citacions. 15 d'aquests articles havien rebut 13 o més citacions:

41 citacions – [Escursell](#), S., Llorach-Massana, P., & [Roncero](#), M.B. (2021). Sustainability in e-commerce packaging: A review. *JOURNAL OF CLEANER PRODUCTION*, 280(1). DOI [10.1016/j.jclepro.2020.124314](#)
Factor impacte 2021 = 11.072 – Q1

37 citacions – Bazarra, N., Fernandez, J. R., & [Quintanilla](#), R. (2021). Analysis of a Moore-Gibson-Thompson thermoelastic problem. *JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS*, 382. DOI [10.1016/j.cam.2020.113058](#)
Factor impacte 2021 = 2.872 – Q1

32 citacions – Belzagui, F., [Buscio](#), V., [Gutierrez-Bouzan](#), C., & [Vilaseca](#), M. (2021). Cigarette butts as a microfiber source with a microplastic level of concern. *SCIENCE OF THE TOTAL ENVIRONMENT*, 762. DOI [10.1016/j.scitotenv.2020.144165](#)
Factor impacte 2021 = 10.753 – Q1

20 citacions – Slavin, Y. N., [Ivanova](#), K., [Hoyo](#), J., Perelshtein, I., Owen, G., Haegert, A., Lin, Y.-Y., LeBihan, S., Gedanken, A., Hafeli, U. O., [Tzanov](#), T., & Bach, H. (2021). Novel Lignin-Capped Silver Nanoparticles against Multidrug-Resistant Bacteria. *ACS APPLIED MATERIALS & INTERFACES*, 13(19), 22098-22109. DOI [10.1021/acsami.0c16921](#)
Factor impacte 2021 = 10.383 – Q1

19 citacions – [Fernandez](#), D., Gine-Vazquez, I., Liu, I., Yucel, R., Ruscone, M. N., Morena, M., Gerardo Garcia, V., Maria Haro, J., Pan, W., & Tyrovolas, S. (2021). Are environmental pollution and biodiversity levels associated to the spread and mortality of COVID-19? A four-month global analysis. *ENVIRONMENTAL POLLUTION*, 271. DOI [10.1016/j.envpol.2020.116326](#)
Factor impacte 2021 = 9.988 – Q1

17 citacions – [Balta-Salvador](#), R., Olmedo-Torre, N., Pena, M., & Renta-Davids, A.-I. (2021). Academic and emotional effects of online learning during the COVID-19 pandemic on engineering students. *EDUCATION AND INFORMATION TECHNOLOGIES*, 26(6, SI), 7407-7434. DOI [10.1007/s10639-021-10593-1](#)
Factor impacte 2021 = 3.666 – Q1

17 citacions – Sadrolodabae, P., Claramunt, J., [Arduany](#), M., & de la Fuente, A. (2021). Mechanical and durability characterization of a new textile waste micro-fiber reinforced cement composite for building applications. *CASE STUDIES IN CONSTRUCTION MATERIALS*, 14, e00492. DOI [10.1016/j.cscm.2021.e00492](#)
Factor impacte 2021 = 3.748 – Q1

16 citacions – Valle, J.A.B.; Valle, R.D.S.C.; Bierhalz, A.C.K.; Bezerra, F.M.; [López](#), A.; [Lis](#), M. (2021). Chitosan microcapsules: Methods of the production and use in the textile finishing. *JOURNAL OF APPLIED POLYMER SCIENCE*, 138 (21), e50482. DOI [10.1002/app.50482](#)
Factor impacte 2021 = 3.057 – Q2

15 citacions – Fernandez, J. R., & [Quintanilla](#), R. (2021). Moore-Gibson-Thompson theory for thermoelastic dielectrics. *APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION*, 42(2), 309-316. DOI [10.1007/s10483-021-2703-9](#)
Factor impacte 2021 = 3.918 – Q1

15 citacions – Li, L., Mahowald, N. M., Miller, R. L., Perez Garcia-Pando, C., Klose, M., Hamilton, D. S., [Goncalves Ageitos](#), M., Ginoux, P., Balkanski, Y., Green, R. O., Kalashnikova, O., Kok, J. F., Obiso, V., Paynter, D., & Thompson, D. R. (2021). Quantifying the range of the dust direct radiative effect due to source mineralogy uncertainty. *ATMOSPHERIC CHEMISTRY AND PHYSICS*, 21(5), 3973-4005. DOI [10.5194/acp-21-3973-2021](#)
Factor impacte 2021 = 7.197 – Q1



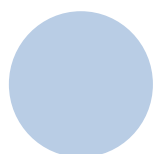
15 citacions – van Noije, T.; Bergman, T.; Le Sager, P.; O'Donnell, D.; Makkonen, R.; [Gonçalves](#), M.; Döscher, R.; Fladrich, U.; von Hardenberg, J.; Keskinen, J.; Korhonen, H.; Laakso, A.; Myriokefalitakis, S.; Ollinaho, P.; Pérez, C.; Reerink, T.; Schrödner, R.; Wyser, K.; Yang, S. (2021). EC-Earth3-AerChem: a global climate model with interactive aerosols and atmospheric chemistry participating in CMIP6. *GEOSCIENTIFIC MODEL DEVELOPMENT*, 14(9), 5637-5668. DOI [10.5194/gmd-14-5637-2021](#)
Factor impacte 2021 = 6.892 – Q1

14 citacions – Babaei, M., Garavand, F., Rehman, A., Jafarazadeh, S., [Amini](#), E., & Cacciotti, I. (2022). Biodegradability, physical, mechanical and antimicrobial attributes of starch nanocomposites containing chitosan nanoparticles. *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 195, 49-58. DOI [10.1016/j.ijbiomac.2021.11.162](#)
Factor impacte 2021 = 8.025 – Q1

14 citacions – [Pardo-Bosch](#), F., Pujadas, P., Morton, C., Cervera, C. (2022). Sustainable deployment of an electric vehicle public charging infrastructure network from a city business model perspective. *SUSTAINABLE CITIES AND SOCIETY*, 71, 102957. DOI [10.1016/j.scs.2021.102957](#)
Factor impacte 2021 = 10.696 – Q1

13 citacions – Meza, A., Pujadas, P., Meza, L. M., [Pardo-Bosch](#), F., & [Lopez-Carreno](#), R. D. (2021). Mechanical Optimization of Concrete with Recycled PET Fibres Based on a Statistical-Experimental Study. *MATERIALS*, 14(2). DOI [10.3390/ma14020240](#)
Factor impacte 2021 = 3.748 – Q1

13 citacions – Sadrolodabaei, P., Claramunt, J., [Ardanuy](#), M., & de la Fuente, A. (2021). Characterization of a textile waste nonwoven fabric reinforced cement composite for non-structural building components. *CONSTRUCTION AND BUILDING MATERIALS*, 276, 122179. DOI [10.1016/j.conbuildmat.2020.122179](#)
Factor impacte 2021 = 7.693 – Q1

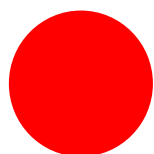


Institucions

amb més col·laboracions

26 institucions amb 5 o més col·laboracions:

CSIC - CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	18
ICREA - INSTITUCIÓ CATALANA DE RECERCA I ESTUDIS AVANÇATS	15
CIBER - CENTRO DE INVESTIGACION BIOMEDICA EN RED	12
UVIGO - UNIVERSIDAD DE VIGO	12
UB - UNIVERSITAT DE BARCELONA	12
UAB - UNIVERSITAT AUTÒNOMA DE BARCELONA	10
CIMNE - CENTRE INTERNACIONAL DE METODES NUMERICIS EN ENGINYERIA	10
CIBERSAM - CENTRO DE INVESTIGACION BIOMEDICA EN RED DE SALUD MENTAL	9
UdG - UNIVERSITAT DE GIRONA	8
BSC - BARCELONA SUPERCOMPUTER CENTER	7
IRII - INSTITUT DE ROBOTICA I INFORMATICA INDUSTRIAL	7
SERVEI METEOROLOGIC DE CATALUNYA	7
UNIVERSITY OF LONDON	7
VILNIUS UNIVERSITY	7
CRM - CENTRE DE RECERCA MATEMATICA	6
CNRS - CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	6
UDICE FRENCH RESEARCH UNIVERSITIES	6
CID-CSIC - CENTRO DE INVESTIGACION Y DESARROLLO PASCUAL VILA	5
IQAC-CSIC - INSTITUTO DE QUIMICA AVANZADA DE CATALUNA	5
INSTITUTO DE SALUD CARLOS III	5
LUXEMBOURG INSTITUTE OF SCIENCE TECHNOLOGY	5
NATIONAL AERONAUTICS SPACE ADMINISTRATION NASA	5
UNIVERSIDADE DE SAO PAULO	5
UNIVERSIDADE TECNOLOGICA FEDERAL DO PARANA	5
URV - UNIVERSITAT ROVIRA I VIRGILI	5
UNIVERSITY OF CALIFORNIA SYSTEM	5



Països amb més col·laboracions

26 països (sense constar Espanya) amb 4 o més col·laboracions:

USA	26
UNITED KINGDOM	22
BRAZIL	21
GERMANY	19
FRANCE	16
ITALY	16
MEXICO	15
PEOPLES R CHINA	15
IRAN	11
DENMARK	9
NETHERLANDS	9
LITHUANIA	7
POLAND	7
CANADA	6
ISRAEL	6
AUSTRALIA	5
GREECE	5
LUXEMBOURG	5
NORWAY	5
BELGIUM	4
COLOMBIA	4
INDIA	4
PORTUGAL	4



Àrees temàtiques amb més articles

23 grans àrees temàtiques amb 5 o més articles:

Engineering	125
Materials Science	59
Chemistry	58
Physics	55
Energy Fuels	30
Mathematics	30
Polymer Science	29
Computer Science	28
Instruments Instrumentation	27
Environmental Sciences Ecology	26
Mechanics	22
Science Technology Other Topics	20
Construction Building Technology	18
Meteorology Atmospheric Sciences	16
Biochemistry Molecular Biology	11
Metallurgy Metallurgical Engineering	11
Optics	11
Geology	8
Thermodynamics	7
Automation Control Systems	6
Water Resources	6
Ophthalmology	5
Telecommunications	5



Impacte normalitzat

L'impacte normalitzat es calcula comparant les cites rebudes pels articles indexats del Campus de Terrassa en una àrea concreta amb la mitjana mundial del mateix àmbit temàtic. Ens permet comparar, per tant, l'impacte d'articles de diferents àmbits temàtics.

Les dades corresponents a tot el món s'han extret de ESI (*Essential Science Indicators*). Aquesta eina mostra estadístiques que permeten estudiar les tendències en investigació científica. Divideix el coneixement en 22 àrees de recerca. Cada revista està assignada a una d'aquestes àrees. Més informació:

<https://incites.help.clarivate.com/Content/Research-Areas/essential-science-indicators.htm>

Per fer aquest informe s'han contemplat les 10 categories ESI presents a 10 o més articles indexats del Campus de Terrassa publicats el 2021:

Camp de recerca ESI	Àrees de recerca WoS representades	Public. WoS	Cites rebudes WoS	Cites/pub. WoS	ESI citation rate	Impacte normalitzat
Biology & Biochemistry	- Biochemistry molecular biology - Biophysics - Mathematical computational biology	13	43	3,31	2,89	1,14
Chemistry	- Chemistry - Thermodynamics	65	193	2,97	3,05	0,97
Clinical Medicine	- General Internal Medicine - Geriatrics Gerontology - Health Care Sciences Services - Medical Informatics -Ophthalmology -Radiology nuclear medicine medical imaging	12	20	1,67	2,24	0,74
Computer Science	- Computer Science - Imaging Science Photographic Technology - Telecommunications	30	59	1,97	2,43	0,81
Engineering	-Automation Control Systems -Construction Building Technology -Energy Fuels -Engineering -Instruments Instrumentation -Mechanics -Nuclear Science Technology -Operations Research Management Science - Robotics -Science Technology Other Topics -Transportation	185	601	3,25	2,68	1,21
Environment / Ecology	- Environmental Sciences Ecology - Public Environmental Occupational Health - Water Resources	29	159	5,48	2,89	1,90
Geosciences	- Geochemistry Geophysics - Geology - Meteorology Atmospheric Sciences - Remote Science	28	102	3,64	2,21	1,65



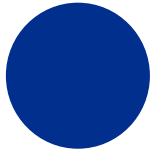
Materials Science	- Materials Science - Metallurgy Metallurgical Engineering - Polymer Science	81	251	3,10	3,50	0,89
Mathematics	- Mathematics - Mathematical Methods In Social Sciences	30	114	3,80	0,97	3,92
Physics	- Acoustics - Optics - Physics	70	164	2,34	2,36	0,99

ESI ofereix la mitjana mundial de cites rebudes durant un any concret per a cada àrea de recerca (*ESI citation rate*). La comparació entre la mitjana de cites rebudes a WoS pels articles del Campus de Terrassa i la mitjana mundial ens donarà l'impacte normalitzat:

Cal tenir present que un mateix article pot estar en més d'una àrea de recerca Web of Science.

Les cites rebudes a WoS s'han estret el 18.09.2022.

Les *ESI citation rates* corresponents s'han estret a 08.09.2022



Almetrics

Les Almetrics molt sovint s'han presentat com a mètriques alternatives a les utilitzades tradicionalment, com són el factor d'impacte de les revistes i els índexs personals de citació com l'índex h. Les altmetrics d'un article van més enllà del seu nombre de cites, cobreixen altres aspectes del seu impacte, com són el nombre de bases de dades i de coneixement que la refereixen, les seves visualitzacions, les seves descàrregues, o les seves mencions en els mitjans de comunicació social i en els mitjans de notícies.

Per fer aquest informe hem utilitzat l'*Altmetric Attention Score* ([Altmetric.com](https://www.altmetric.com)). Es tracta d'un indicador compost (mitjana ponderada de mesures i fonts heterogènies) que vol mesurar l'atenció rebuda a Internet i és utilitzat tant per [UPCommons](https://www.upcommons.org) com per [FUTUR](https://www.futur.es).

20 articles amb un valor "Altmetric" igual o superior a 7 a data 18.09.2022:

Altmetric = 145 – Sanchez-Lavega, A., Anguiano-Arteaga, A., Inurrigarro, P., [Garcia-Melendo](#), E., Legarreta, J., Hueso, R., Sanz-Requena, J. F., Perez-Hoyos, S., Mendikoa, I., [Soria](#), M., Rojas, J. F., Andres-Carasona, M., Prat-Gasull, A., Ordonez-Extebarria, I., Rogers, J. H., Foster, C., Mizumoto, S., Casely, A., Hansen, C. J., ... Eichstadt, G. (2021). Jupiter's Great Red Spot: Strong Interactions With Incoming Anticyclones in 2019. *JOURNAL OF GEOPHYSICAL RESEARCH-PLANETS*, 126(4). DOI [10.1029/2020JE006686](https://doi.org/10.1029/2020JE006686)

Factor impacte 2021 = 4.434 – Q1

Altmetric = 66 – Belzagui, F., [Buscio](#), V., [Gutierrez-Bouzan](#), C., & [Vilaseca](#), M. (2021). Cigarette butts as a microfiber source with a microplastic level of concern. *SCIENCE OF THE TOTAL ENVIRONMENT*, 762. DOI [10.1016/j.scitotenv.2020.144165](https://doi.org/10.1016/j.scitotenv.2020.144165)

Factor impacte 2021 = 10.753 – Q1

Altmetric = 61 – Vidiella, B.; [Guillamon](#), A.; Sardanyes, J.; Maull, V.; Pla, J.; Conde, N.; Solé, R. (2021). Engineering self-organized criticality in living cells. *NATURE COMMUNICATIONS*, 12(1), 4415. DOI [10.1038/s41467-021-24695-4](https://doi.org/10.1038/s41467-021-24695-4)

Factor impacte 2021 = 17.694 – Q1

Altmetric = 18 – Roque-Lopez, S.; Llaneza-Anaya, E.; Álvarez-López, M.; Everts, M.; [Fernandez](#), D.; J. Davidson, R.; Kaliman, P. (2021). Mental health benefits of a 1-week intensive multimodal group program for adolescents with multiple adverse childhood experiences. *CHILD ABUSE & NEGLECT*, 122, 105349. DOI [10.1016/j.chiabu.2021.105349033](https://doi.org/10.1016/j.chiabu.2021.105349033)

Factor impacte 2021 = 4.863 – Q1

Altmetric = 17 – [Cardona](#), G., [Alonso](#), S., & Busquets, A. (2021). Patient-practitioner communication and contact lens compliance during a prolonged COVID-19 lockdown. *CONTACT LENS & ANTERIOR EYE*, 44(6). DOI [10.1016/j.clae.2021.02.019](https://doi.org/10.1016/j.clae.2021.02.019)

Factor impacte 2021 = 3.946 – Q2

Altmetric = 16 – [Escursell](#), S., Llorach-Massana, P., & [Roncero](#), M.B. (2021). Sustainability in e-commerce packaging: A review. *JOURNAL OF CLEANER PRODUCTION*, 280(1). DOI [10.1016/j.jclepro.2020.124314](https://doi.org/10.1016/j.jclepro.2020.124314)

Factor impacte 2021 = 11.072 – Q1

Altmetric = 15 – [Fernandez](#), D., Gine-Vazquez, I., Liu, I., Yucel, R., Ruscone, M. N., Morena, M., Gerardo Garcia, V., Maria Haro, J., Pan, W., & Tyrovolas, S. (2021). Are environmental pollution and biodiversity levels associated to the spread and mortality of COVID-19? A four-month global analysis. *ENVIRONMENTAL POLLUTION*, 271. DOI [10.1016/j.envpol.2020.116326](https://doi.org/10.1016/j.envpol.2020.116326)

Factor impacte 2021 = 9.988 – Q1

Altmetric = 15 – [Silini](#), R., Barreiro, M., & [Masoller](#), C. (2021). Machine learning prediction of the Madden-Julian oscillation. *NPJ CLIMATE AND ATMOSPHERIC SCIENCE*, 4(1). DOI [10.1038/s41612-021-00214-6](https://doi.org/10.1038/s41612-021-00214-6)

Factor impacte 2021 = 9.448 – Q1

Altmetric = 14 – [Fernandez](#), D.; Vigo, D.; Sampson, N.; Hwang, I.; Aguilar, S.; Al-Hamzawi, A.O., ..., Haro, J.M. (2021). Patterns of care and dropout rates from outpatient mental healthcare in low-, middle- and high-income countries from the World



Health Organization's World Mental Health Survey Initiative. *PSYCHOLOGICAL MEDICINE*, 51(12), 2104-2116. DOI [10.1017/S0033291720000884](https://doi.org/10.1017/S0033291720000884)

Factor impacte 2021 = 10.592 – Q1

Altmetric = 12 – Lana, X., [Casas-Castillo](#), M.C., Rodriguez-Sola, R., Serra, C., Martinez, M.D., & [Kirchner](#), R. (2021). Rainfall regime trends at annual and monthly scales in Catalonia (NE Spain) and indications of CO2 emissions effects. *THEORETICAL AND APPLIED CLIMATOLOGY*, 146(3-4), 981-996. DOI [10.1007/s00704-021-03773-z](https://doi.org/10.1007/s00704-021-03773-z)

Factor impacte 2021 = 3.409 – Q3

Altmetric = 11 – Ferrer-Quintero, M.; [Fernandez](#), D.; López, R.; Birulés, I.; Barajas, A.; Lorente, E.; Diaz, L.; Verdaguer, M.; Garcia, H.; Sevilla-Llewellyn-Jones, J. (2021). Persons with first episode psychosis have distinct profiles of social cognition and metacognition. *NPJ SCHIZOPHRENIA*, 7(1), 61. DOI [10.1038/s41537-021-00187-8](https://doi.org/10.1038/s41537-021-00187-8)

Factor impacte 2021 = 4.966 – Q2

Altmetric = 11 – Tyrovolas, S.; Giné, I.; [Fernandez](#), D., ..., Molassiotis, A. (2021). Estimating the COVID-19 Spread Through Real-time Population Mobility Patterns: Surveillance in Low- and Middle-Income Countries. *JOURNAL OF MEDICAL INTERNET RESEARCH*, 23(6), e22999. DOI [10.2196/22999](https://doi.org/10.2196/22999)

Factor impacte 2021 = 7.076 – Q1

Altmetric = 11 – Ungerovich, M.; Barreiro, M.; [Masoller](#), C. (2021). Influence of Madden-Julian Oscillation on extreme rainfall events in Spring in southern Uruguay. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 41(5), 3339-3351. DOI [10.1002/joc.7022](https://doi.org/10.1002/joc.7022)

Factor impacte 2021 = 3.651 – Q2

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Factor impacte 2021 = 5.407 – Q1

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Factor impacte 2021 = 7.280 – Q1

Altmetric = 8 – Klose, M.; Jorba, O.; [Goncalves](#), M.; Escribano, J.; Dawson, M.; Obiso, V.; di Tomaso, E.; Basart, S.; Montané, G.; Macchia, F.; Ginoux, P.; Guerschman, J.; Prigent, C.; Huang, Y.; Kok, J. F.; Miller, R.; Pérez, C. (2021). Mineral dust cycle in the Multiscale Online Nonhydrostatic Atmosphere Chemistry model (MONARCH) Version 2.0. *GEOSCIENTIFIC MODEL DEVELOPMENT*, 14(10), 6403-6444. DOI [10.5194/gmd-14-6403-2021](https://doi.org/10.5194/gmd-14-6403-2021)

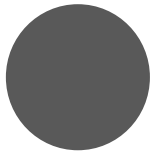
Factor impacte 2021 = 6.892 – Q1

Altmetric = 8 – Romano, F.; Espinosa-Orozco, J.; Pfeiffer, M.; Herdrich, G.; Crisp, N. H.; Roberts, P. C. E.; Holmes, B. E. A.; Edmondson, S.; Haigh, S.; Livadiotti, S.; Macario-Rojas, A.; Oiko, V. T. A.; Sinpetru, L. A.; Smith, K.; Becedas, J.; Sullioti-Linner, V.; Bisgaard, M.; Christensen, S.; Hanessian, V., ... [Garcia-Almiñana](#), D.; [Rodriguez-Donaire](#), S.; [Sureda](#), M., ... Villain, R. (2021). Intake design for an Atmosphere-Breathing Electric Propulsion System (ABEP). *ACTA ASTRONAUTICA*, 187, 225-235. DOI [10.1016/j.actaastro.2021.06.033](https://doi.org/10.1016/j.actaastro.2021.06.033)

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Articles indexats publicats per investigadors del Campus de Terrassa, 2021: nota metodològica

Aquest informe ha estat elaborat a partir de les publicacions incloses a la base de dades Web of Science.

Aquest recurs recull els articles d'investigadors del Campus de Terrassa de la UPC que compleixin les condicions següents:

- Hagin estat publicats durant l'any 2021.
- Els autors signin com a investigadors del Campus de Terrassa de la UPC o d'alguna de les seves escoles¹.
- Pertanyin a alguna revista indexada al JCR (Journal Citation Reports) en l'edició del 2021.

Els resultats obtinguts han estat tractats amb un gestor de referències (Mendeley) per a la presentació de la bibliografia.

Els diferents informes presentats en aquest recurs s'han generat a partir de l'aplicació de les opcions "Analyze Results" i "Create Citation Report" als resultats obtinguts.

Per a cada autor del Campus s'ha afegit un enllaç a la fitxa de l'investigador de [FUTUR: Portal de la Producció Científica dels investigadors de la UPC](#). Per a cada article s'ha afegit, sempre que ha estat possible, un enllaç al DOI de la publicació.

La manca d'algun article en aquest recull pot estar causada per alguna d'aquestes causes:

- Articles que no hagin estat incorporats a la base de dades Web of Science (ISI).
- Articles en què no apareix la menció del Campus de Terrassa a la signatura dels autors.
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