

**Articles indexats
publicats per
investigadors del
Campus Terrassa:
2022**



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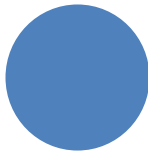
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Aquesta pàgina recull els [313 articles publicats](#) per [295 investigadors/es](#) del Campus de Terrassa en revistes indexades al Journal Citation Report durant el 2022 ([nota metodològica](#)).

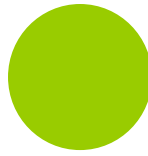
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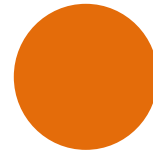
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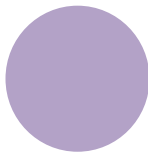
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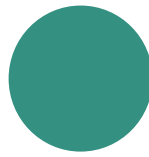
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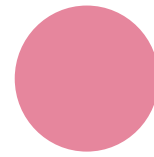
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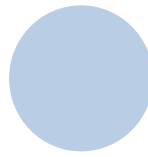
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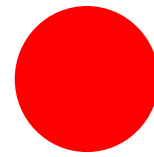
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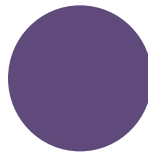
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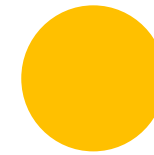
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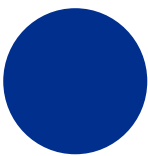
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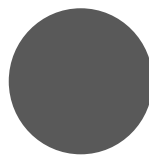
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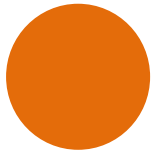
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<https://doi.org/10.1080/10586458.2021.1994487>.
Factor impacte 2022 = 0.5 – Q4



Accés obert

Del total d'articles indexats al 2022, hi ha 301 (un 96,2%) que es poden consultar en accés obert. Es distribueixen de la manera següent:

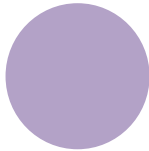
Accés obert	Via verda	106
	Via daurada	122
	Via híbrida	73
Accés tancat		12

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

21 autors amb 6 o més articles:

24 articles - [Quintanilla De Latorre](#), Ramon ([27](#), [28](#), [29](#), [30](#), [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#), [46](#), [47](#), [48](#), [58](#), [91](#), [92](#), [93](#), [94](#), [95](#), [96](#), [97](#), [136](#), [162](#))

17 articles - [Riba Ruiz](#), Jordi Roger ([37](#), [59](#), [195](#), [196](#), [197](#), [198](#), [199](#), [200](#), [201](#), [202](#), [203](#), [204](#), [205](#), [206](#), [207](#), [208](#), [213](#))

12 articles - [Puig Cayuela](#), Vicenç ([7](#), [126](#), [171](#), [177](#), [215](#), [217](#), [228](#), [236](#), [237](#), [241](#), [250](#), [265](#))

12 articles - [Tzanov](#), Tzanko ([51](#), [90](#), [116](#), [117](#), [118](#), [119](#), [121](#), [122](#), [166](#), [167](#), [168](#), [220](#))

10 articles - [Montanya Puig](#), Juan ([101](#), [102](#), [137](#), [153](#), [165](#), [187](#), [188](#), [251](#), [255](#), [272](#))

9 articles - [Fernández García](#), Raúl ([79](#), [80](#), [140](#), [141](#), [142](#), [259](#), [261](#), [268](#), [271](#))

9 articles - [Gil Galí](#), Ignacio ([79](#), [80](#), [140](#), [141](#), [142](#), [259](#), [261](#), [268](#), [271](#))

9 articles - [Masoller Alonso](#), Cristina ([113](#), [132](#), [233](#), [242](#), [243](#), [244](#), [245](#), [246](#), [247](#))

8 articles-- [Ardanuy Raso](#), Monica ([110](#), [180](#), [223](#), [239](#), [260](#), [261](#), [268](#), [275](#))

8 articles - [Bernat Maso](#), Ernest ([52](#), [85](#), [86](#), [103](#), [154](#), [156](#), [157](#), [158](#))

8 articles - [Moreno Eguilaz](#), Juan Manuel ([37](#), [199](#), [203](#), [205](#), [206](#), [207](#), [208](#), [213](#))

7 articles - [Cardona Torradeflot](#), Genis ([10](#), [60](#), [107](#), [108](#), [185](#), [186](#), [256](#))

7 articles - [Lis Arias](#), Manuel Jose ([72](#), [155](#), [160](#), [225](#), [262](#), [270](#), [278](#))

7 articles - [Millan Garcia Varela](#), Maria Sagrario ([23](#), [66](#), [98](#), [99](#), [104](#), [173](#), [216](#))

7 articles - [Romerol Martinez](#), Jose Luis ([2](#), [3](#), [8](#), [13](#), [150](#), [151](#), [252](#))

6 articles - [Bogarrra Rodriguez](#), Santiago ([25](#), [54](#), [149](#), [205](#), [214](#), [226](#))

6 articles - [Carrillo Navarrete](#), Fernando ([11](#), [32](#), [50](#), [67](#), [109](#), [266](#))

6 articles - [Fernández](#), Daniel ([302](#), [303](#), [304](#), [305](#), [306](#), [307](#))

6 articles - [Forcada Matheu](#), Nuria ([5](#), [6](#), [35](#), [36](#), [56](#), [105](#))

6 articles - [Garcia Almiñana](#), Daniel ([234](#), [280](#), [281](#), [282](#), [283](#), [284](#))

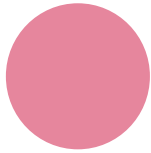
6 articles - [Morato Farreras](#), Jordi ([4](#), [51](#), [53](#), [135](#), [161](#), [175](#))



Revistes amb més articles

S'ha publicat articles en 206 revistes indexades diferents. Les 19 revistes amb 3 o més articles són:

POLYMERS	13
SENSORS	12
APPLIED SCIENCES BASEL	10
ENERGIES	8
CEAS SPACE JOURNAL	5
ENERGY AND BUILDINGS	4
IEEE ACCESS	4
IEEE TRANSACTIONS ON POWER ELECTRONICS	4
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	4
JOURNAL OF CLEANER PRODUCTION	4
MATERIALS	4
PHOTONICS	4
BUILDING AND ENVIRONMENT	3
COMPUTER PHYSICS COMMUNICATIONS	3
ELECTRONIC RESEARCH ARCHIVE	3
ENERGY	3
JOURNAL OF REFRACTIVE SURGERY	3
JOURNAL OF THE TEXTILE INSTITUTE	3
TEXTILE RESEARCH JOURNAL	3



Articles amb més impacte

Al 2022 s'han publicat 136* articles en revistes situades al primer quartil d'alguna àrea temàtica del JCR. D'aquests, els 14 articles publicats a revistes de més impacte són:

Martinez-Denegri, G., Ferreira, C., Ruiz-Preciado, M., Fassl, P., Kramarenko, M., Paetzold, U., & [Martorell, J.](#) (2022). Wide Bandgap Perovskite Photovoltaic Cells for Stray Light Recycling in a System Emitting Broadband Polarized Light. *ADVANCED ENERGY MATERIALS*, 12(36). <https://doi.org/10.1002/aenm.202201473>

Factor impacte 2022 = 27.8 – Q1

Robles, E., Fernandez, M., Andreu, J., Ibarra, E., [Zaragoza, J.](#), & Ugalde, U. (2022). Common-mode voltage mitigation in multiphase electric motor drive systems. *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*, 157.

<https://doi.org/10.1016/j.rser.2021.111971>

Factor impacte 2022 = 15.9 – Q1

Boggs, L.D.; Mach, D.; Bruning, E.; Liu, N.; [Van Der Velde, O.](#); [Montanya, J.](#); Cummer, S.; Palivec, K.; Chmielewski, V.; MacGorman, D.; Peterson, M. (2022). Upward propagation of gigantic jets revealed by 3D radio and optical mapping. *SCIENCE ADVANCES*, 8(31), eabl8731. <https://doi.org/10.1126/sciadv.abl8731>

Factor impacte 2022 = 13.6 – Q1

Iglesias-Mayor, A., Amor-Gutierrez, O., Toyos-Rodriguez, C., Bassegoda, A., [Tzanov, T.](#), & de la Escosura-Muniz, A. (2022). Electrical monitoring of infection biomarkers in chronic wounds using nanochannels. *BIOSENSORS & BIOELECTRONICS*, 209.

<https://doi.org/10.1016/j.bios.2022.114243>

Factor impacte 2022 = 12.6 – Q1

[Lopez-Aguilar, J.](#), Sevigne-Itoiz, E., [MasPOCH, M.L.](#), & Pena, J. (2022). A realistic material flow analysis for end-of-life plastic packaging management in Spain: Data gaps and suggestions for improvements towards effective recyclability. *SUSTAINABLE PRODUCTION AND CONSUMPTION*, 31, 209-219. <https://doi.org/10.1016/j.spc.2022.02.011>

Factor impacte 2022 = 12.1 – Q1

Trapiello, C., & [Puig, V.](#) (2022). A Zonotopic-Based Watermarking Design to Detect Replay Attacks. *IEEE-CAA JOURNAL OF AUTOMATICA SINICA*, 9(11), 1924-1938. <https://doi.org/10.1109/JAS.2022.105944>

Factor impacte 2022 = 11.8 – Q1

[Pardo-Bosch, F.](#); Blanco, A.; Sésé, E.; Ezcurra, F.; [Pujadas, P.](#) (2022). Sustainable strategy for the implementation of energy efficient smart public lighting in urban areas: case study in San Sebastian. *SUSTAINABLE CITIES AND SOCIETY*, 76, 103454.

<https://doi.org/10.1016/j.scs.2021.103454>

Factor impacte 2022 = 11.7 – Q1

Di Tomaso, E., Escribano, J., Basart, S., Ginoux, P., Macchia, F., Barnaba, F., Benincasa, F., Bretonniere, P., Bunuel, A., Castrillo, M., Cuevas, E., Formenti, P., [Goncalves, M.](#), Jorba, O., Klose, M., Mona, L., Pinto, G., Mytilinaios, M., Obiso, V., ... Garcia-Pando, C. (2022). The MONARCH high-resolution reanalysis of desert dust aerosol over Northern Africa, the Middle East and Europe (2007-2016). *EARTH SYSTEM SCIENCE DATA*, 14(6), 2785-2816. <https://doi.org/10.5194/essd-14-2785-2022>

Factor impacte 2022 = 11.4 – Q1

Bala, A., Arfelis, S., [Oliver-Ortega, H.](#), & Mendez, J. (2022). Life cycle assessment of PE and PP multi film compared with PLA and PLA reinforced with nanoclays film. *JOURNAL OF CLEANER PRODUCTION*, 380.

<https://doi.org/10.1016/j.jclepro.2022.134891>

Factor impacte 2022 = 11.1 – Q1

Bascompta, M., Sanmiquel, L., [Gangolells, M.](#), & Sidki, N. (2022). LCA analysis and comparison in quarrying: Drill and blast vs mechanical extraction. *JOURNAL OF CLEANER PRODUCTION*, 369. <https://doi.org/10.1016/j.jclepro.2022.133042>

Factor impacte 2022 = 11.1 – Q1



Sadrolodabae, P.; Hosseini, S. M. Amin; Claramunt, J.; [Ardanuy](#), M.; Haurie, L.; Lacasta, A.M; de la Fuente, A. (2022). Experimental characterization of comfort performance parameters and multi-criteria sustainability assessment of recycled textile-reinforced cement facade cladding. *JOURNAL OF CLEANER PRODUCTION*, 356, 131900. <https://doi.org/10.1016/j.jclepro.2022.131900>

Factor impacte 2022 = 11.1 – Q1

[Ventura](#), H., [Alvarez](#), M.D., Gonzalez-Lopez, L., Claramunt, J., & [Ardanuy](#), M. (2022). Cement composite plates reinforced with nonwoven fabrics from technical textile waste fibres: Mechanical and environmental assessment. *JOURNAL OF CLEANER PRODUCTION*, 372. <https://doi.org/10.1016/j.jclepro.2022.133652>

Factor impacte 2022 = 11.1 – Q1

Pinilla-Sanchez, A., Chavez-Angel, E., Murcia-Lopez, S., Carretero, N., Palardonio, S., Xiao, P., Rueda-Garcia, D., Torres, C., Gomez-Romero, P., [Martorell](#), J., & Ros, C. (2022). Controlling the electrochemical hydrogen generation and storage in graphene oxide by in-situ Raman spectroscopy. *CARBON*, 200, 227-235. <https://doi.org/10.1016/j.carbon.2022.08.055>

Factor impacte 2022 = 10.9 – Q1

[Alavi](#), H., Bortolini, R., & [Forcada](#), N. (2022). BIM-based decision support for building condition assessment. *AUTOMATION IN CONSTRUCTION*, 135. <https://doi.org/10.1016/j.autcon.2021.104117>

Factor impacte 2022 = 10.3 – Q1

*Els 313 articles en revistes indexades es distribueixen de la manera següent:

Quartil 1	136	43,55%
Quartil 2	105	33,55%
Quartil 3	38	12,14%
Quartil 4	14	4,47%
No quartil	20	6,39%



Articles més citats

A data 18.12.2023 els 313 articles seleccionats havien rebut 1.351 citacions. 15 d'aquests articles havien rebut 13 o més citacions:

193 citacions – Abdalla, E.; Abellan, G.; Aboubrahim, A.; Agnello, A.; Akarsu, Ö.; ..., L.; [Haro, J.](#), et al. (2022). Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. *JOURNAL OF HIGH ENERGY ASTROPHYSICS*, 34, 49-211. <https://doi.org/10.1016/j.jheap.2022.04.002>

Factor impacte 2022 = 3.8 – Q2

45 citacions – Babaee, 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. <https://doi.org/10.1016/j.ijbiomac.2021.11.162>.

Factor impacte 2022 = 8.2 – Q1

38 citacions – [Tejedor, B.](#), Lucchi, E., Bienvenido-Huertas, D., & Nardi, I. (2022). Non-destructive techniques (NDT) for the diagnosis of heritage buildings: Traditional procedures and futures perspectives. *ENERGY AND BUILDINGS*, 263.

<https://doi.org/10.1016/j.enbuild.2022.112029>

Factor impacte 2022 = 6.7 – Q1

23 citacions – Baquero, M., & [Forcada, N.](#) (2022). Thermal comfort of older people during summer in the continental Mediterranean climate. *JOURNAL OF BUILDING ENGINEERING*, 54. <https://doi.org/10.1016/j.jobe.2022.104680>

Factor impacte 2022 = 6.4 – Q1

23 citacions – [Morena, A.G.](#), Bassegoda, A., Natan, M., Jacobi, G., Banin, E., & [Tzanov, T.](#) (2022). Antibacterial Properties and Mechanisms of Action of Sonoenzymatically Synthesized Lignin-Based Nanoparticles. *ACS APPLIED MATERIALS & INTERFACES*, 14(33), 37270-37279. <https://doi.org/10.1021/acsami.2c05443>

20 citacions – [Alavi, H.](#), Bortolini, R., & [Forcada, N.](#) (2022). BIM-based decision support for building condition assessment. *AUTOMATION IN CONSTRUCTION*, 135. <https://doi.org/10.1016/j.autcon.2021.104117>

Factor impacte 2022 = 10.3 – Q1

17 citacions – Orsetti, E., Tollin, N., Lehmann, M., [Valderrama, V.](#), & [Morato, J.](#) (2022). Building Resilient Cities: Climate Change and Health Interlinkages in the Planning of Public Spaces. *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*, 19(3). <https://doi.org/10.3390/ijerph19031355>

Factor impacte 2022 = 4.614 (2021)

16 citacions – [Gaspar, K.](#), M. [Gangoellels, M.](#) [Casals, P.](#) [Pujadas, N.](#) [Forcada, M.](#) [Macarulla, i B.](#) [Tejedor](#) (2022). Assessing the Impact of the COVID-19 Lockdown on the Energy Consumption of University Buildings. *ENERGY AND BUILDINGS*, 257, 111783. <https://doi.org/10.1016/j.enbuild.2021.111783>.

Factor impacte 2022 = 6.7 – Q1

16 citacions – Lazzari, F., Mor, G., Cipriano, J., Gabaldon, E., Grillone, B., Chemisana, D., & Solsona, F. (2022). User behaviour models to forecast electricity consumption of residential customers based on smart metering data. *ENERGY REPORTS*, 8, 3680-3691. <https://doi.org/10.1016/j.egy.2022.02.260>

Factor impacte 2022 = 5.2 – Q2

15 citacions – [Fernandez-Santos, J.](#); [Valls, C.](#); [Cusola, O.](#); [Roncero, M.B.](#) (2022). Composites of cellulose nanocrystals in combination with either cellulose nanofibril or carboxymethylcellulose as functional packaging films. *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, 211, 218-229. <https://doi.org/10.1016/j.ijbiomac.2022.05.049>.

Factor impacte 2022 = 8.2 – Q1



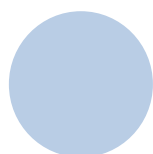
14 citacions – [El Gharbi](#), M., [Fernandez-Garcia](#), R., & [Gil](#), I. (2022a). Embroidered wearable Antenna-based sensor for Real-Time breath monitoring. *MEASUREMENT*, 195. <https://doi.org/10.1016/j.measurement.2022.111080>
Factor impacte 2022 = 5.6 – Q1

14 citacions – Nandi, A.; [Xhafa](#), F. (2022). A federated learning method for real-time emotion state classification from multi-modal streaming. *METHODS*, 204, 340-347. <https://doi.org/10.1016/j.ymeth.2022.03.005>
Factor impacte 2022 = 4.8 – Q1

14 citacions – Quijano, A.; Hernández, J.; Nouaille, P.; Virtanen, M.; Sánchez-Sarachu, B.; [Pardo-Bosch](#), F.; Knieilng, J. (2022). Towards Sustainable and Smart Cities: Replicable and KPI-Driven Evaluation Framework. *BUILDINGS*, 12(2), 233. <https://doi.org/10.3390/buildings12020233>
Factor impacte 2022 = 3.8 – Q2

13 citacions – Ferre-Bigorra, J., [Casals](#), M., & [Gangoells](#), M. (2022). The adoption of urban digital twins. *CITIES*, 131. <https://doi.org/10.1016/j.cities.2022.103905>
Factor impacte 2022 = 6.7 – Q1

13 citacions – Leyva, I., Martínez, J., [Masoller](#), C., Rosso, O., & Zanin, M. (2022). 20 years of ordinal patterns: Perspectives and challenges. *EPL*, 138(3). <https://doi.org/10.1209/0295-5075/ac6a72>
Factor impacte 2022 = 1.8 – Q3

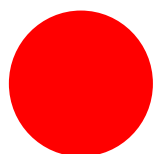


Institucions

amb més col·laboracions

25 institucions amb 5 o més col·laboracions:

CSIC - CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	22
UVIGO - UNIVERSIDAD DE VIGO	22
UAB - UNIVERSITAT AUTÒNOMA DE BARCELONA	14
UB - UNIVERSITAT DE BARCELONA	13
IRII - INSTITUT DE ROBOTICA I INFORMATICA INDUSTRIAL	9
ICREA - INSTITUCIÓ CATALANA DE RECERCA I ESTUDIS AVANÇATS	9
CIBER - CENTRO DE INVESTIGACION BIOMEDICA EN RED	7
UNIVERSITY OF MANCHESTER	7
BSC - BARCELONA SUPERCOMPUTER CENTER	6
CNRS - CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	6
CIBERSAM - CENTRO DE INVESTIGACION BIOMEDICA EN RED DE SALUD MENTAL	6
ELECNOR DEIMOS SATELLITE SYST	6
EUROCONSULT	6
GOMSPACE AS	6
INSTITUTO DE SALUD CARLOS III	6
UNIVERSITY OF LONDON	6
UNIVERSITY OF STUTTGART	6
UOC - UNIVERSITAT OBERTA DE CATALUNYA	6
CIMNE - CENTRE INTERNACIONAL DE METODES NUMERICIS EN ENGINYERIA	5
HELMHOLTZ ASSOCIATION	5
MIT - MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5
UdG - UNIVERSITAT DE GIRONA	5
URL - UNIVERSITAT RAMON LLULL	5
UNIVERSITY COLLEGE LONDON	5
UPV/EHU – UNIVERSITAT DEL PAÍS BASC	5



Països amb més col·laboracions

26 països (sense constar Espanya) amb 3 o més col·laboracions:

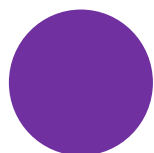
USA	21
BRAZIL	19
FRANCE	19
GERMANY	18
UNITED KINGDOM	18
ITALY	14
DENMARK	10
FINLAND	8
PEOPLES R CHINA	8
ARGENTINA	6
IRAN	6
MEXICO	5
NORWAY	5
CHILE	4
GREECE	4
NETHERLANDS	4
POLAND	4
PORTUGAL	4
COLOMBIA	3
INDIA	3
ISRAEL	3
JAPAN	3
LITHUANIA	3
RUSSIA	3
SWEDEN	3
SWITZERLAND	3



Àrees temàtiques amb més articles

23 grans àrees temàtiques amb 5 o més articles:

Engineering	102
Materials Science	48
Chemistry	43
Physics	43
Mathematics	37
Energy Fuels	27
Science Technology Other Topics	22
Environmental Sciences Ecology	20
Polymer Science	20
Instruments Instrumentation	19
Computer Science	17
Mechanics	17
Construction Building Technology	14
Biochemistry Molecular Biology	12
Ophthalmology	12
Optics	11
Meteorology Atmospheric Sciences	10
Automation Control Systems	8
Telecommunications	7
Thermodynamics	7
Education Educational Research	6
Metallurgy Metallurgical Engineering	5
Operations Research Management Science	5



Objectius de Desenvolupament Sostenible (ODS)

Del total d'articles indexats al 2022, hi ha 211 (un 67,41%) que Web of Science ha categoritzat en un o més ODS. La taula següent mostra el nombre d'articles indexats per cadascun dels ODS:

03 – Salut i Benestar	74
13 – Acció climàtica	42
11 – Ciutats i comunitats sostenibles	35
07 – Energia neta i assequible	26
12 – Consum i producció responsables	17
06 – Aigua neta i sanejament	15
09 – Indústria, innovació i infraestructures	8
15 - Vida terrestre	7
02 – Fam zero	4
04 – Educació de qualitat	3
05 – Igualtat de gènere	3
14 – Vida submarina	2
16 – Pau, justícia i institucions sòlides	1



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 2022:

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 - Cell biology - Developmental Biology	16	104	6,50	3,81	1,71
Chemistry	- Chemistry - Electrochemistry - Thermodynamics	50	223	4,46	4,34	1,03
Clinical Medicine	- General Internal Medicine - Health Care Sciences Services - Life Sciences Biomedicine Other Topics - Ophthalmology - Pharmacology Pharmacy - Radiology nuclear medicine medical imaging - Research Experimental Medicine - Surgery	20	58	2,90	2,81	1,03
Computer Science	- Computer Science - Telecommunications	20	74	3,70	3,07	1,21
Engineering	-Automation Control Systems -Construction Building Technology -Energy Fuels -Engineering -Instruments Instrumentation -Mechanics -Nuclear Science Technology -Operations Research Management -Science Technology Other Topics -Transportation	159	700	4,40	3,91	1,13
Environment / Ecology	- Environmental Sciences Ecology - Evolutionary Biology - Public Environmental Occupational Health - Water Resources	22	116	5,27	3,84	1,37
Geosciences	- Geology - Meteorology Atmospheric Sciences	13	54	4,15	3,16	1,31



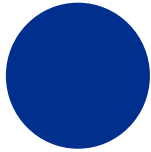
Materials Science	- Materials Science - Metallurgy Metallurgical Engineering - Polymer Science	63	238	3,78	5,23	0,72
Mathematics	- Mathematics	37	65	1,76	1,35	1,30
Physics	- Acoustics - Optics - Physics	53	155	2,92	3,1	0,94

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 31.12.2023.

Les *ESI citation rates* corresponents s'han estret a 11.01.2024



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).

22 articles amb un valor "Altmetric" igual o superior a 7 a data 11.01.2024:

Altmetric = 802 – Peterson, M.; Lang, T.; Logan, T.; Wee Kiong, C.; Gijben, M.; Holle, R.; Kolmasova, I.; Marisaldi, M.; [Montanya, J.](#); Pawar, S.; Zhang, D.; Brunet14, M.; Cervený, R. (2022). New WMO Certified Megaflash Lightning Extremes for Flash Distance and Duration Recorded from Space. *BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY*, 103(4), 257-261. <https://doi.org/10.1175/BAMS-D-21-0254.1>

Altmetric = 49 – Abdalla, E.; Abellan, G.; Aboubrahim, A.; Agnello, A.; Akarsu, Ö.; ..., L.; [Haro, J.](#), et al. (2022). Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. *JOURNAL OF HIGH ENERGY ASTROPHYSICS*, 34, 49-211. <https://doi.org/10.1016/j.jheap.2022.04.002>

Altmetric = 42 – Vaidya, S., C. Traub, F. Romano, G. H. Herdrich, Y.-A. Chan, S. Fasoulas, P. C. E. Roberts, ..., [Rodriguez-Donaire, S.](#), [Garcia-Alminana, D.](#), [Sureda, M.](#), [Garcia-Berenguer, M.](#), et al. «Development and Analysis of Novel Mission Scenarios Based on Atmosphere-Breathing Electric Propulsion (ABEP)». *CEAS SPACE JOURNAL* 14, núm. 4 (octubre 2022), 689-706. <https://doi.org/10.1007/s12567-022-00436-1>.

Altmetric = 40 – Lijo, R., Quevedo, E., Castro, J., & [Horta, R.](#) (2022). Assessing Users' Perception on the Current and Potential Educational Value of an Electrical Engineering YouTube Channel. *IEEE ACCESS*, 10, 8948-8959. <https://doi.org/10.1109/ACCESS.2021.3139305>

Altmetric = 22 – [Rodriguez-Donaire, S.](#), [Garcia-Alminana, D.](#), [Garcia-Berenguer, M.](#), Roberts, P.C.E., Crisp, N.H., Herdrich, G.H., Kataria, D., Hanessian, V., Becedas, J. i Seminari, S. (2022). «Strategic Similarities between Earth Observation Small Satellite Constellations in Very Low Earth Orbit and Low-Cost Carriers by Means of Strategy Canvas». *CEAS SPACE JOURNAL* 14, núm. 4 (octubre 2022): 767-84. <https://doi.org/10.1007/s12567-022-00462-z>.

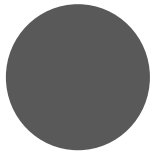
Altmetric = 13 – Gupta, S., Mastrantonas, N., [Masoller, C.](#), & Kurths, J. (2022). Perspectives on the importance of complex systems in understanding our climate and climate change-The Nobel Prize in Physics 2021. *CHAOS*, 32(5). <https://doi.org/10.1063/5.0090222>

Altmetric = 12 – Lana, X., [Casas-Castillo, M.](#), Rodriguez-Sola, R., Prohom, M., Serra, C., Martinez, M., & [Kirchner, R.](#) (2023). Time trends, irregularity and multifractal structure on the monthly rainfall regime at Barcelona, NE Spain, years 1786-2019. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 43(1), 499-518. <https://doi.org/10.1002/joc.7786>

Altmetric = 11 – Di Tomaso, E., Escribano, J., Basart, S., Ginoux, P., Macchia, F., Barnaba, F., Benincasa, F., Bretonniere, P., Bunuel, A., Castrillo, M., Cuevas, E., Formenti, P., [Goncalves, M.](#), Jorba, O., Klose, M., Mona, L., Pinto, G., Mytilinaios, M., Obiso, V., ... Garcia-Pando, C. (2022). The MONARCH high-resolution reanalysis of desert dust aerosol over Northern Africa, the Middle East and Europe (2007-2016). *EARTH SYSTEM SCIENCE DATA*, 14(6), 2785-2816. <https://doi.org/10.5194/essd-14-2785-2022>



Altmetric = 7 – Silini, R., Lerch, S., Mastrantonas, N., Kantz, H., Barreiro, M., & [Masoller](#), C. (2022). Improving the prediction of the Madden-Julian Oscillation of the ECMWF model by post-processing. *EARTH SYSTEM DYNAMICS*, 13(3), 1157-1165.
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Articles més citats 2018-2022

20 articles més citats publicats entre el 2018 i el 2022 (a 31.12.2023):

- 405 citacions** – [Abbasi](#), H.; [Antunes](#), M.; [Velasco](#), J.I., 2019. Recent advances in carbon-based polymer nanocomposites for electromagnetic interference shielding. *PROGRESS IN MATERIALS SCIENCE*. Vol. 103, p. 319-373. ISSN 0079-6425. DOI [10.1016/j.pmatsci.2019.02.003](https://doi.org/10.1016/j.pmatsci.2019.02.003)
- 208 citacions** – [Vellido](#), A. (2020). The importance of interpretability and visualization in machine learning for applications in medicine and health care. *NEURAL COMPUTING & APPLICATIONS*, 32(24). 18069-18083, DOI [10.1007/s00521-019-04051-w10.1038/s41598-020-76686-y](https://doi.org/10.1007/s00521-019-04051-w10.1038/s41598-020-76686-y)
- 203 citacions** – Abdalla, E.; Abellan, G.; Aboubrahim, A.; Agnello, A.; Akarsu, Ö.; ..., L.; [Haro](#), J., et al. (2022). Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. *JOURNAL OF HIGH ENERGY ASTROPHYSICS*, 34, 49-211. <https://doi.org/10.1016/j.jheap.2022.04.002>
- 200 citacions** – [Lopez Ruiz](#), L. A., [Roca Ramon](#), X., & [Gasso Domingo](#), S. (2020). The circular economy in the construction and demolition waste sector - A review and an integrative model approach. *JOURNAL OF CLEANER PRODUCTION*, 248. DOI [10.1016/j.jclepro.2019.119238](https://doi.org/10.1016/j.jclepro.2019.119238)
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- 159 citacions** – [Canals](#), L.; [Amante](#), B.; Canals, C., 2019. Second life batteries lifespan: Rest of useful life and environmental analysis. *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. Vol. 232, p. 354-363. DOI [10.1016/j.jenvman.2018.11.046](https://doi.org/10.1016/j.jenvman.2018.11.046)
- 153 citacions** – [Quintanilla](#) R., 2019. Moore–Gibson–Thompson thermoelasticity. *MATHEMATICS AND MECHANICS OF SOLIDS*. Vol. 24, no. 12, p. 4020-4031. DOI [10.1177/1081286519862007](https://doi.org/10.1177/1081286519862007)
- 132 citacions** – FRANCESKO, A., PETKOVA, P. i [TZANOV](#), T., 2018. Hydrogel Dressings for Advanced Wound Management. *CURRENT MEDICINAL CHEMISTRY*, vol. 25, no. 41, pp. 5782-5797. ISSN 0929-8673. DOI [10.2174/0929867324666170920161246](https://doi.org/10.2174/0929867324666170920161246).
- 117 citacions** – BELZAGUI, F., [CRESPI](#), M., ALVAREZ, A., [GUTIERREZ-BOUZAN](#), C. y [VILASECA](#), M., 2019. Microplastics' emissions: Microfibers' detachment from textile garments. *ENVIRONMENTAL POLLUTION*, vol. 248, pp. 1028-1035. ISSN 0269-7491. DOI [10.1016/j.envpol.2019.02.059](https://doi.org/10.1016/j.envpol.2019.02.059).
- 96 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](https://doi.org/10.1016/j.jclepro.2020.124314)
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- 74 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](#)
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- 74 citacions** – CASTIZO-OLIER, J., IRURTIA-AMIGO, A., JEMNI, N., CARRASCO-MARGINET, M., [FERNANDEZ-GARCIA](#), R., RODRIGUEZ, F.A., 2018. Bioelectrical impedance vector analysis (BIVA) in sport and exercise: systematic review and future perspectives. *PLOS ONE*, vol. 13, no. 6, art. E0197957. ISSN 1932-6203. DOI [10.1371/journal.pone.0197957](#).
- 73 citacions** – FORMELA, K., HEJNA, A., ZEDLER, L., [COLOM](#), X. y [CANAVATE](#), J., 2019. Microwave treatment in waste rubber recycling - recent advances and limitations. *EXPRESS POLYMER LETTERS*, vol. 13, no. 6, pp. 565-588. ISSN 1788-618X. DOI [10.3144/expresspolymlett.2019.48](#).
- 70 citacions** – ALCALA, E., [PUIG](#), V., [QUEVEDO](#), J., [ESCOBET](#), T. i [COMASOLIVAS](#), R., 2018. Autonomous vehicle control using a kinematic Lyapunov-based technique with LQR-LMI tuning. *CONTROL ENGINEERING PRACTICE*, vol. 73, pp. 1-12. ISSN 0967-0661. DOI [10.1016/j.conengprac.2017.12.004](#).



Articles indexats publicats per investigadors del Campus de Terrassa, 2022: 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 2022.
- 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 2023.

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.
- Errades en la indexació a la base de dades.

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