

**a**rticles publicats

per investigadors

de l'ETSEIB indexats

al Journal Citation

Reports

2013

# Sumari

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# Introducció

Aquest informe recull els 330 treballs publicats per 203 investigadors de l'Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (ETSEIB) en revistes indexades al Journal Citation Reports durant l'any 2013.

Journal Citation Reports és una base de dades, elaborada per l'Institute of Scientific Information, que ofereix un mitjà objectiu i sistemàtic per a avaluar de manera crítica les publicacions capdavanteres mundials. Disponible en edició de ciències i edició de ciències socials, JCR Web cobreix més de 7.000 de les publicacions revisades per coetanis més citades del món d'aproximadament 200 disciplines. És una eina essencial per a bibliotecaris, editors, autors, professors i estudiants, analistes de la informació i altres persones que necessitin conèixer l'impacte i la influència d'una publicació sobre la comunitat investigadora global.

Aquest recurs recull els articles d'investigadors de l'Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (ETSEIB) de la UPC que compleixin les condicions següents:

- Hagin estat incorporats a la base de dades Web of Science (ISI) durant l'any 2013
- Els autors signin com a investigadors de l'ETSEIB de la UPC [1]
- Pertanyin a alguna revista indexada al JCR (Journal Citation Reports)

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

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

Per a cada autor de l'ETSEIB s'ha afegit un enllaç a la fitxa de l'investigador al Portal de la Producció Científica de la UPC. Per a cada article s'ha afegit, sempre que ha estat possible, un enllaç directe a l'article.

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

- Articles de finals d'any que no han estat incorporats a la base de dades fins l'any 2014
- Articles en què no apareix la menció de l'ETSEIB a la signatura dels autors
- Errades en la indexació a la base de dades

En cas de detectar alguna errada o mancança us podeu posar en contacte amb [biblioteca.etsuib@upc.edu](mailto:biblioteca.etsuib@upc.edu).

[1] La cerca efectuada és la següent:

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(OG=( "Tech Univ Catalonia" OR "UPC" OR "Univ Politecn Catalun*" OR "UNIV POLITECN BARCELONA" OR "POLYTECH UNIV CATALONIA" OR "ESCUELA TECN SUPER INGN IND" OR "ESCOLA TECN SUPER ENGN IND" OR "POLYTECHN UNIV CATALONIA" OR "UNIV POLITECN" OR "UNIV POLITECH BARCELONA" OR "CATALONIAN POLITECH UNIV" OR "Tech Univ Catalonia" OR "Tech Univ Catalonia" OR "Univ Politecn Catalunya" OR "UPC" OR "UNIV POLITECN CATALUNA" OR "UNIV POLITECN BARCELONA" OR "POLYTECH UNIV CATALONIA" OR "ESCUELA TECN SUPER INGN IND" OR "ESCOLA TECN SUPER ENGN IND" OR "POLYTECHN UNIV CATALONIA" OR "UNIV POLITECH BARCELONA" OR "UNIV POLITECN" OR "CATALONIAN POLITECH UNIV" OR "ETS Engiyers Ind") OR OG=( "INTE" OR "Inst Tecn Energt") OR OG=( "IOC" OR "Inst Org Contr Sist Ind" OR "Institute of Industrial and Control Engineering") OR OG=( "ESAI") AND AD=( "etsuib" OR "ETSEIB" OR "diagonal" OR "DIAGONAL" OR "08028")) AND DOCUMENT TYPES: (Article)
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Aquest apartat recull els 330 articles publicats per investigadors de l'ETSEIB a les revistes indexades al Journal Citation Reports durant l'any 2013.

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En aquest apartat es pot consultar, de cada Departament i Institut, quins investigadors han publicat en revistes indexades al Journal Citation Reports durant l'any 2013, i de cadascun d'ells, hi ha l'enllaç als articles publicats.

- D702 [Departament de Ciència dels Materials i Enginyeria Metal·lúrgica](#)
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# Revistes

En aquest apartat es pot consultar el llistat de les revistes on han publicat professors 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 Sustainable Chemistry & Engineering [173](#)  
Sense Índex d'impacte
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Índex d'impacte 5.684 **1r quartil**  
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- AICHE Journal [57](#)  
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Índex d'impacte 0.877 **3r quartil**  
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- Analysis & PDE [122](#)  
Índex d'impacte 0.906 **1r quartil**  
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- Applied Catalysis A-General [180](#)  
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- Applied Catalysis B-Environmental [124](#)  
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- Applied Energy [87](#), [219](#)  
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- Applied Mathematics and Computation [51](#)  
Índex d'impacte 1.600 **1r quartil**  
Lloc en el rànquing: 30 de 250
- Applied Spectroscopy [100](#)  
Índex d'impacte 2.014 **1r quartil**  
Lloc en el rànquing: 11 de 57
- Applied Surface Science [76](#), [150](#)  
Índex d'impacte 2.538 **1r quartil**  
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ARS Combinatoria [295](#)

Índex d'impacte **0.204 4t quartil**

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Astroparticle Physics [148](#)

Índex d'impacte **2.401 4t quartil**

Lloc en el rànquing: 14 de 59

Astrophysics and Space Science [20](#)

Índex d'impacte **4.450 2n quartil**

Lloc en el rànquing: 23 de 59

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Índex d'impacte **5.298 1r quartil**

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Índex d'impacte **3.062 1r quartil**

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Atmospheric Pollution Research [329](#)

Índex d'impacte **1.227 3r quartil**

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Automatica [204](#)

Índex d'impacte **3.132 1r quartil**

Lloc en el rànquing: 7 de 59

Autonomous Robots [235](#)

Índex d'impacte **1.750 2n quartil**

Lloc en el rànquing: 8 de 21

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Biointerphases [221](#)

Índex d'impacte **2.677 3r quartil**

Lloc en el rànquing: 37 de 74

Biological Bulletin [246](#)

Índex d'impacte **1.567 2n quartil**

Lloc en el rànquing: 34 de 83

Biomacromolecules [152](#)

Índex d'impacte **5.788 1r quartil**

Lloc en el rànquing: 44 de 291

Biomaterials Science [133](#)

Sense Índex d'impacte

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- C** Carbohydrate Polymers [261](#)  
Índex d'impacte **3.916 1r quartil**  
Lloc en el rànquing: 4 de 71
- Catalysis Letters [12](#)  
Índex d'impacte **2.291 2n quartil**  
Lloc en el rànquing: 62 de 136
- Celestial Mechanics & Dynamical Astronomy [158](#)  
Índex d'impacte **2.084 1r quartil**  
Lloc en el rànquing: 12 de 95
- Chaos [102](#)  
Índex d'impacte **1.761 1r quartil**  
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- Chemical Communications [115](#), [255](#)  
Índex d'impacte **6.718 1r quartil**  
Lloc en el rànquing: 20 de 148
- Chemical Engineering and Processing [88](#)  
Índex d'impacte **1.959 2n quartil**  
Lloc en el rànquing: 39 de 82
- Chemical engineering journal [269](#)  
Índex d'impacte **4.058 1r quartil**  
Lloc en el rànquing: 8 de 133
- Chemical engineering research & design [288](#)  
Índex d'impacte **2.281 1r quartil**  
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- Chemical engineering science [58](#)  
Índex d'impacte **2.613 1r quartil**  
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- Chemistry-a european journal [121](#), [328](#)  
Índex d'impacte **5.696 1r quartil**  
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Índex d'impacte **3.499 1r quartil**  
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- Clinical & translational oncology [54](#)  
Índex d'impacte **1.600 4t quartil**  
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- Communications in mathematical physics [47](#)  
Índex d'impacte **1.901 1r quartil**  
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- Communications in partial differential equations [48, 60](#)  
Índex d'impacte 1.194 **1r quartil**  
Lloc en el rànquing: 26 de 299
- Communications on pure and applied mathematics [226](#)  
Índex d'impacte 3.080 **1r quartil**  
Lloc en el rànquing: 1 de 299
- Computational and mathematical methods in medicine [175](#)  
Índex d'impacte 1.018 **4t quartil**  
Lloc en el rànquing: 39 de 52
- Computer applications in engineering education [210](#)  
Índex d'impacte 0.449 **4t quartil**  
Lloc en el rànquing: 97 de 102
- Computerized medical imaging and graphics [233](#)  
Índex d'impacte 1.496 **3r quartil**  
Lloc en el rànquing: 43 de 77
- Computers & fluids [142](#)  
Índex d'impacte 1.532 **2n quartil**  
Lloc en el rànquing: 46 de 102
- Computers & operations research [114](#)  
Índex d'impacte 1.718 **1r quartil**  
Lloc en el rànquing: 10 de 43
- Computers & structures [157, 268](#)  
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- Control engineering practice [218](#)  
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**d** Dental materials [68](#), [236](#)

Índex d'impacte 4.160 **1r quartil**

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Desalination and water treatment [105](#), [106](#), [243](#)

Índex d'impacte 0.988 **3r quartil**

Lloc en el rànquing: 78 de 133

Discrete and continuous dynamical systems [98](#), [143](#), [208](#)

Índex d'impacte 0.923 **1r quartil**

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Índex d'impacte 0.200 **4t quartil**

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Índex d'impacte 0.217 **4t quartil**

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**e** Electric power components and systems [185](#)

Índex d'impacte 0.664 **3r quartil**

Lloc en el rànquing: 181 de 247

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Índex d'impacte 1.595 **2n quartil**

Lloc en el rànquing: 91 de 247

Energies [272](#)

Índex d'impacte 1.602 **3r quartil**

Lloc en el rànquing: 43 de 82

Energy and buildings [271](#)

Índex d'impacte 2.465 **1r quartil**

Lloc en el rànquing: 6 de 58

Energy policy [78](#)

Índex d'impacte 2.696 **2n quartil**

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Engineering fracture mechanics [56](#)

Índex d'impacte 1.662 **2n quartil**

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Engineering structures [209](#)

Índex d'impacte 1.767 **1r quartil**

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Environmental monitoring and assessment [285](#)  
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Environmental pollution [248](#)  
Índex d'impacte 3.902 **1r quartil**  
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Environmental science and pollution research [116](#)  
Índex d'impacte 2.757 **2n quartil**  
Lloc en el rànquing: 55 de 215

Epe journal [293](#)  
Índex d'impacte 0.306 **4t quartil**  
Lloc en el rànquing: 229 de 247

Ergodic theory and dynamical systems [213](#)  
Índex d'impacte 0.713 **2n quartil**  
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European journal of control [89](#), [203](#)  
Índex d'impacte 0.792 **2n quartil**  
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European journal of industrial engineering [75](#), [223](#), [325](#)  
Índex d'impacte 1.500 **2n quartil**  
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European journal of operational research [107](#)  
Índex d'impacte 1.843 **2n quartil**  
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Índex d'impacte 2.421 **2n quartil**  
Lloc en el rànquing: 8 de 21

European polymer journal [3](#), [191](#), [262](#), [308](#), [326](#)  
Índex d'impacte 3.242 **1r quartil**  
Lloc en el rànquing: 15 de 82

Express polymer letters [2](#), [52](#), [85](#), [192](#), [264](#), [265](#), [270](#)  
Índex d'impacte 2.953 **1r quartil**  
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Índex d'impacte 4.194 **2n quartil**

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Índex d'impacte 4.000 **1r quartil**

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Índex d'impacte 1.725 **2n quartil**

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Geometriae dedicata [10](#)

Índex d'impacte 0.469 **3r quartil**

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Geoscientific model development [40](#)

Índex d'impacte 6.086 **1r quartil**

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Graphical models [174](#)

Índex d'impacte 0.967 **2n quartil**

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Green chemistry [123, 154](#)

Índex d'impacte 6.852 **1r quartil**

Lloc en el rànquing: 18 de 148

Human factors and ergonomics in manufacturing & service industries [259](#)

Índex d'impacte 0.862 **3r quartil**

Lloc en el rànquing: 27 de 39

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- IEEE transactions on applied superconductivity [82, 163](#)  
Índex d'impacte 1.324 **2n quartil**  
Lloc en el rànquing: 112 de 247
- IEEE transactions on computer-aided design of integrated circuits and systems [19](#)  
Índex d'impacte 1.203 **2n quartil**  
Lloc en el rànquing: 19 de 50
- IEEE Transactions on Control Systems Technology [305](#)  
Índex d'impacte 2.521 **1r quartil**  
Lloc en el rànquing: 10 de 59
- IEEE transactions on dielectrics and electrical insulation [297](#)  
Índex d'impacte 1.228 **2n quartil**  
Lloc en el rànquing: 122 de 247
- IEEE transactions on industrial electronics [46, 91, 201, 216, 235](#)  
Índex d'impacte 6.500 **1r quartil**  
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- IEEE transactions on power delivery [67, 80, 280](#)  
Índex d'impacte 1.657 **2n quartil**  
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- IEEE transactions on power electronics [189, 304](#)  
Índex d'impacte 2.521 **1r quartil**  
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- IEEE transactions on robotics [205](#)  
Índex d'impacte 2.647 **1r quartil**  
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- IEEE transactions on systems man cybernetics-systems [70](#)  
Índex d'impacte 2.169 **1r quartil**  
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- IEEE transactions on very large scale integration (vlsi) systems [227](#)  
Índex d'impacte 1.142 **2n quartil**  
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- Inflammation [320](#)  
Índex d'impacte 1.921 **4t quartil**  
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- Informa journal on computing [59](#)  
Índex d'impacte 1.120 **2n quartil**  
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- International journal of advanced manufacturing technology [43](#)  
Índex d'impacte 1.779 **2n quartil**  
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# Revistes

International Journal of Electrical Power & Energy Systems [314](#), [319](#)  
Sense Índex d'impacte

International journal of hydrogen energy [111](#), [149](#), [162](#), [284](#)  
Índex d'impacte 2.930 **2n quartil**  
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International journal of non-linear mechanics [81](#)  
Índex d'impacte 1.463 **2n quartil**  
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International journal of pharmaceuticals [110](#)  
Índex d'impacte 3.785 **1r quartil**  
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International journal of precision engineering and manufacturing [277](#)  
Índex d'impacte 1.500 **2n quartil**  
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International journal of production economics [66](#)  
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Índex d'impacte 1.323 **2n quartil**  
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International journal of refractory metals & hard materials [159](#)  
Índex d'impacte 1.764 **1r quartil**  
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International journal of vehicle design [232](#)  
Índex d'impacte 0.239 **4t quartil**  
Lloc en el rànquing: 117 de 126

International journal of wildland fire [214](#)  
Índex d'impacte 2.506 **1r quartil**  
Lloc en el rànquing: 5 de 64

International transactions on electrical energy systems [178](#)  
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Journal of algebra [206](#)  
Índex d'impacte 0.604 **2n quartil**  
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Journal of applied polymer science [28](#), [101](#)  
Índex d'impacte 1.640 **2n quartil**  
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- Journal of atmospheric and oceanic technology [302](#)  
Índex d'impacte 1.820 **1r quartil**  
Lloc en el rànquing: 2 de 14
- Journal of biomedical materials research part A [125](#), [239](#), [324](#)  
Índex d'impacte 2.841 **1r quartil**  
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Índex d'impacte 2.328 **2n quartil**  
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- Journal of chemical physics [195](#)  
Índex d'impacte 3.122 **1r quartil**  
Lloc en el rànquing: 8 de 33
- Journal of cleaner production [186](#), [196](#)  
Índex d'impacte 3.590 **1r quartil**  
Lloc en el rànquing: 9 de 44
- Journal of colloid and interface science [286](#)  
Índex d'impacte 3.552 **2n quartil**  
Lloc en el rànquing: 38 de 136
- Journal of computational and graphical statistics [128](#)  
Índex d'impacte 1.175 **2n quartil**  
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- Journal of computer-aided molecular design [291](#)  
Índex d'impacte 2.782 **1r quartil**  
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- Journal of cosmology and astroparticle physics [22](#), [135](#)  
Índex d'impacte 5.877 **1r quartil**  
Lloc en el rànquing: 4 de 27
- Journal of differential equations [49](#), [250](#)  
Índex d'impacte 1.570 **1r quartil**  
Lloc en el rànquing: 12 de 299
- Journal of dynamics and differential equations [21](#)  
Índex d'impacte 1.000 **1r quartil**  
Lloc en el rànquing: 43 de 299
- Journal of engineering mechanics [55](#)  
Índex d'impacte 1.173 **2n quartil**  
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- Journal of environmental radioactivity [187](#), [188](#)  
Índex d'impacte 3.571 **1r quartil**  
Lloc en el rànquing: 30 de 215

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- Journal of fluids and structures [79](#)  
Índex d'impacte **2.229 1r quartil**  
Lloc en el rànquing: 16 de 126
- Journal of functional analysis [50](#)  
Índex d'impacte **1.152 1r quartil**  
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- Journal of hazardous materials [167](#), [278](#)  
Índex d'impacte **4.331 1r quartil**  
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- Journal of materials chemistry b [31](#)  
Índex d'impacte **6.626 1r quartil**  
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- Journal of materials engineering and performance [1](#)  
Índex d'impacte **0.981 3r quartil**  
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Índex d'impacte **2.379 2n quartil**  
Lloc en el rànquing: 26 de 7
- Journal of mechanical design [64](#)  
Índex d'impacte **1.165 2n quartil**  
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- Journal of membrane science [71](#), [287](#)  
Índex d'impacte **4.908 1r quartil**  
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- Journal of molecular catalysis a-chemical [184](#)  
Índex d'impacte **3.679 2n quartil**  
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- Journal of nuclear materials [251](#)  
Índex d'impacte **2.016 1r quartil**  
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- Journal of pharmaceutical sciences [212](#)  
Índex d'impacte **3.007 2n quartil**  
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- Journal of physical chemistry B [37](#), [247](#), [267](#)  
Índex d'impacte **3.377 2n quartil**  
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- Journal of physics a-mathematical and theoretical [99](#)  
Índex d'impacte 1.687 **2n quartil**  
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- Journal of physics-condensed matter [136](#), [215](#)  
Índex d'impacte 2.223 **2n quartil**  
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- Journal of Polymer Science Part B: Polymer Physics [306](#)  
Índex d'impacte 3.803 **1r quartil**  
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- Journal of process control [217](#)  
Índex d'impacte 2.179 **1r quartil**  
Lloc en el rànquing: 14 de 59
- Journal of scheduling [112](#)  
Índex d'impacte 1.186 **2n quartil**  
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- Journal of statistical computation and simulation [108](#)  
Índex d'impacte 0.730 **3r quartil**  
Lloc en el rànquing: 75 de 119
- Journal of structural biology [290](#)  
Índex d'impacte 3.369 **2n quartil**  
Lloc en el rànquing: 106 de 291
- Journal of structural engineering-asce [61](#)  
Índex d'impacte 1.488 **1r quartil**  
Lloc en el rànquing: 13 de 58
- Journal of surgical research [164](#)  
Índex d'impacte 2.121 **2n quartil**  
Lloc en el rànquing: 62 de 202
- Journal of the american oil chemists society [109](#)  
Índex d'impacte 1.620 **2n quartil**  
Lloc en el rànquing: 29 de 71
- Journal of the european ceramic society [274](#)  
Índex d'impacte 2.307 **1r quartil**  
Lloc en el rànquing: 2 de 25
- Journal of the operational research society [72](#)  
Índex d'impacte 0.911 **3r quartil**  
Lloc en el rànquing: 49 de 79
- Journal of thermal analysis and calorimetry [193](#)  
Índex d'impacte 2.206 **2n quartil**  
Lloc en el rànquing: 33 de 76

# Revistes

Journal of Tissue Engineering and Regenerative Medicine [322](#)

Índex d'impacte 4.428 **1r quartil**

Lloc en el rànquing: 21 de 165

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Langmuir [18](#), [65](#)

Índex d'impacte 4.384 **1r quartil**

Lloc en el rànquing: 28 de 148

Linear algebra and its applications [63](#), [103](#), [182](#)

Índex d'impacte 0.983 **2n quartil**

Lloc en el rànquing: 84 de 250

Liquid crystals [240](#)

Índex d'impacte 2.349 **2n quartil**

Lloc en el rànquing: 6 de 23

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Machining science and technology [44](#)

Índex d'impacte 0.657 **3r quartil**

Lloc en el rànquing: 83 de 126

Macromolecular research [161](#)

Índex d'impacte 1.682 **2n quartil**

Lloc en el rànquing: 37 de 82

Macromolecules [153](#), [260](#)

Índex d'impacte 5.927 **1r quartil**

Lloc en el rànquing: 3 de 82

Materials & design [279](#)

Índex d'impacte 3.171 **1r quartil**

Lloc en el rànquing: 41 de 251

Materials characterization [197](#)

Índex d'impacte 1.925 **1r quartil**

Lloc en el rànquing: 1 de 33

Materials letters [119](#), [230](#), [276](#)

Índex d'impacte 2.269 **1r quartil**

Lloc en el rànquing: 61 de 251

Materials research-ibero-american journal of materials [140](#)

Índex d'impacte 0.483 **4t quartil**

Lloc en el rànquing: 218 de 251

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# Revistes

Materials science & engineering A-structural materials properties microstructure and processing [141](#), [222](#), [252](#)

Índex d'impacte **2.409 1r quartil**

Lloc en el rànquing: 55 de 251

Materials science & engineering C-materials for biological applications [16](#), [39](#), [231](#)

Índex d'impacte **2.841 1r quartil**

Lloc en el rànquing: 18 de 77

Materialwissenschaft und werkstofftechnik [237](#), [327](#)

Índex d'impacte **0.433 4t quartil**

Lloc en el rànquing: 224 de 251

Mathematical problems in engineering [69](#), [104](#)

Índex d'impacte **1.082 2n quartil**

Lloc en el rànquing: 33 de 87

Mechanics of materials [139](#)

Índex d'impacte **2.225 1r quartil**

Lloc en el rànquing: 14 de 138

Medical physics [42](#), [137](#)

Índex d'impacte **3.012 1r quartil**

Lloc en el rànquing: 25 de 121

Medicina oral patologia oral y cirugia bucal [94](#)

Índex d'impacte **1.095 3r quartil**

Lloc en el rànquing: 52 de 82

Metallurgical and materials transactions a-physical metallurgy and materials science [179](#)

Índex d'impacte **1.730 1r quartil**

Lloc en el rànquing: 10 de 75

Metalurgia internacional [90](#)

Sense Índex d'impacte

Meteoritics & planetary science [160](#)

Índex d'impacte **2.827 2n quartil**

Lloc en el rànquing: 20 de 79

Molecular pharmaceuticals [225](#)

Índex d'impacte **4.787 1r quartil**

Lloc en el rànquing: 216 de 122

Multibody system dynamics [169](#)

Índex d'impacte **1.747 2n quartil**

Lloc en el rànquing: 36 de 138

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# Revistes

## n

Nagoya mathematical journal [127](#)

Índex d'impacte 0.771 **2n quartil**

Lloc en el rànquing: 76 de 299

Nonlinearity [27](#), [83](#), [134](#)

Índex d'impacte 1.200 **1r quartil**

Lloc en el rànquing: 58 de 250

Nuclear instruments & methods in physics research section a- accelerators spectrometers detectors and associated equipment [282](#)

Índex d'impacte 1.316 **2n quartil**

Lloc en el rànquing: 28 de 57

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## O

Organic electronics [14](#), [15](#)

Índex d'impacte 3.676 **1r quartil**

Lloc en el rànquing: 38 de 251

Amunt

## P

Personal and ubiquitous computing [202](#)

Índex d'impacte 1.616 **2n quartil**

Lloc en el rànquing: 39 de 135

Physical d-nonlinear phenomena [84](#)

Índex d'impacte 1.829 **1r quartil**

Lloc en el rànquing: 21 de 250

Physical chemistry chemical physics [45](#), [183](#)

Índex d'impacte 1.198 **1r quartil**

Lloc en el rànquing: 33 de 136

Physical review C [241](#), [258](#)

Índex d'impacte 3.381 **1r quartil**

Lloc en el rànquing: 2 de 21

Physical review D [11](#)

Índex d'impacte 4.864 **1r quartil**

Lloc en el rànquing: 12 de 59

Physical review letters [77](#), [155](#)

Índex d'impacte 7.728 **1r quartil**

Lloc en el rànquing: 6 de 77

Physics in medicine and biology [120](#)

Índex d'impacte 2.922 **1r quartil**

Lloc en el rànquing: 16 de 77

# Revistes

Physics in perspective [228](#)

Índex d'impacte **0.367 3r quartil**

Lloc en el rànquing: 33 de 56

Plos one [9](#), [130](#)

Índex d'impacte **3.534 1r quartil**

Lloc en el rànquing: 8 de 55

Polyhedron [177](#)

Índex d'impacte **2.047 2n quartil**

Lloc en el rànquing: 18 de 44

Polymer [145](#), [256](#), [309](#)

Índex d'impacte **3.766 1r quartil**

Lloc en el rànquing: 11 de 82

Polymer chemistry [30](#), [95](#), [146](#), [151](#), [211](#)

Índex d'impacte **5.368 1r quartil**

Lloc en el rànquing: 5 de 82

Polymer Composites [317](#)

Índex d'impacte **1.455 2n quartil**

Lloc en el rànquing: 7 de 24

Polymer degradation and stability [86](#)

Índex d'impacte **2.633 2n quartil**

Lloc en el rànquing: 22 de 82

Proceedings of the american mathematical society [296](#)

Índex d'impacte **0.627 2n quartil**

Lloc en el rànquing: 130 de 299

Proceedings of the institution of civil engineers-structures and buildings [62](#)

Índex d'impacte **0.282 4t quartil**

Lloc en el rànquing: 50 de 58

Process safety and environmental protection [35](#)

Índex d'impacte **1.829 2n quartil**

Lloc en el rànquing: 47 de 123

Progress in organic coatings [266](#)

Índex d'impacte **2.302 1r quartil**

Lloc en el rànquing: 3 de 58

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# Revistes

Reactive & functional polymers [238, 298](#)

Índex d'impacte **2.822 1r quartil**

Lloc en el rànquing: 13 de 71

Resources conservation and recycling [244](#)

Índex d'impacte **2.692 2n quartil**

Lloc en el rànquing: 16 de 44

Review of scientific instruments [7](#)

Índex d'impacte **1.584 2n quartil**

Lloc en el rànquing: 20 de 57

Revista espanola de investigaciones sociologicas [4](#)

Índex d'impacte **0.321 4t quartil**

Lloc en el rànquing: 115 de 137

Revista facultad de ingenieria-universidad de antioquia [294](#)

Índex d'impacte **0.070 4t quartil**

Lloc en el rànquing: 86 de 87

Rsc advances [13, 38, 96, 292](#)

Índex d'impacte **3.708 1r quartil**

Lloc en el rànquing: 35 de 148

Safety science [34](#)

Índex d'impacte **1.672 2n quartil**

Lloc en el rànquing: 12 de 43

Science and engineering of composite materials [194](#)

Índex d'impacte **0.593 3r quartil**

Lloc en el rànquing: 17 de 23

Scientific reports [281](#)

Índex d'impacte **5.078 1r quartil**

Lloc en el rànquing: 5 de 55

Soft matter [166, 289](#)

Índex d'impacte **4.151 1r quartil**

Lloc en el rànquing: 33 de 251

Solar energy [33](#)

Índex d'impacte **3.541 1r quartil**

Lloc en el rànquing: 19 de 82

Statistical applications in genetics and molecular biology [129](#)

Índex d'impacte **1.055 2n quartil**

Lloc en el rànquing: 48 de 119

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# Revistes

Statistics & probability letters [273](#)

Índex d'impacte 0.531 **4t quartil**

Lloc en el rànquing: 96 de 119

Strahlentherapie und onkologie [41](#), [229](#)

Índex d'impacte 2.733 **2n quartil**

Lloc en el rànquing: 33 de 121

Structural chemistry [200](#)

Índex d'impacte 1.900 **2n quartil**

Lloc en el rànquing: 60 de 148

Surface & coatings technology [241](#)

Índex d'impacte 2.199 **1r quartil**

Lloc en el rànquing: 4 de 18

Systems & control letters [23](#)

Índex d'impacte 1.886 **1r quartil**

Lloc en el rànquing: 13 de 79

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Talanta [283](#)

Índex d'impacte 3.511 **1r quartil**

Lloc en el rànquing: 12 de 76

Theoretical and applied climatology [249](#)

Índex d'impacte 1.742 **3r quartil**

Lloc en el rànquing: 38 de 76

Top [74](#)

Índex d'impacte 0.766 **3r quartil**

Lloc en el rànquing: 54 de 79

Topics in catalysis [93](#)

Índex d'impacte 2.220 **2n quartil**

Lloc en el rànquing: 20 de 71

Toxicological and environmental chemistry [126](#)

Índex d'impacte 0.723 **4t quartil**

Lloc en el rànquing: 187 de 215

Trac-trends in analytical chemistry [168](#)

Índex d'impacte 6.612 **1r quartil**

Lloc en el rànquing: 2 de 76

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# Revistes

Water research [117](#), [118](#)

Índex d'impacte **5.523 1r quartil**

Lloc en el rànquing: 1 de 79

Water resources management [310](#)

Índex d'impacte **2.463 1r quartil**

Lloc en el rànquing: 10 de 124

Wear [97](#)

Índex d'impacte **1.862 1r quartil**

Lloc en el rànquing: 25 de 126

Wind energy [220](#)

Índex d'impacte **2.556 1r quartil**

Lloc en el rànquing: 12 de 126

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# Revistes amb més impacte

En aquest apartat hi ha les revistes que es troben dins les 5 primeres del seu grup, i de cada revista, s'indica els articles que han estat publicats per investigadors de l'ETSEIB.

## [Applied Catalysis B-Environmental](#) (Lloc en el rànquing: 1 de 44)

González, M. D. *et al.* [Sulfonic acid-functionalized aerogels as high resistant to deactivation catalysts for the etherification of glycerol with isobutene](#). *Appl. Catal. B Environ.* 136-137, 287–293 (2013).

## [Communications on pure and applied mathematics](#) (Lloc en el rànquing: 1 de 299)

Rinzel, J. & Huguet, G. [Nonlinear Dynamics of Neuronal Excitability, Oscillations, and Coincidence Detection](#). *Commun. Pure Appl. Math.* 66, 1464–1494 (2013).

## [Dental materials](#) (Lloc en el rànquing: 1 de 82)

Chintapalli, R. K., Marro, F. G., Jimenez-Pique, E. & Anglada, M. [Phase transformation and subsurface damage in 3Y-TZP after sandblasting](#). *Dent. Mater.* 29, 566–72 (2013).

Rueda, A. O., Seuba, J., Anglada, M. & Jiménez-Piqué, E. [Tomography of indentation cracks in feldspathic dental porcelain on zirconia](#). *Dent. Mater.* 29, 348–56 (2013).

## [IEEE transactions on robotics](#) (Lloc en el rànquing: 1 de 21)

Nuno, E., Sarras, I. & Basanez, L. [Consensus in Networks of Nonidentical Euler–Lagrange Systems Using P+d Controllers](#). *IEEE Trans. Robot.* 29, 1503–1508 (2013).

## [Materials characterization](#) (Lloc en el rànquing: 1 de 33)

Muñoz-Tabares, J. A., Anglada, M. & Reyes-Gasga, J. [Deposition of metallic gallium on re-crystallized ceramic material during focused ion beam milling](#). *Mater. Charact.* 86, 92–96 (2013).

## [Water research](#) (Lloc en el rànquing: 1 de 79)

Gibert, O. *et al.* [Characterising biofilm development on granular activated carbon used for drinking water production](#). *Water Res.* 47, 1101–10 (2013).

Gibert, O. *et al.* [Fractionation and removal of dissolved organic carbon in a full-scale granular activated carbon filter used for drinking water production](#). *Water Res.* 47, 2821–9 (2013).

# Revistes amb més impacte

## [Applied Surface Science](#) (Lloc en el rànquing: **2 de 18**)

Dalmero, V., dos Santos, J. H. Z., Armelin, E., Alemán, C. & Azambuja, D. S. [A synergistic combination of tetraethylorthosilicate and multiphosphonic acid offers excellent corrosion protection to AA1100 aluminum alloy](#). *Appl. Surf. Sci.* 273, 758–768 (2013).

Labay, C., Canal, C., Rodríguez, C., Caballero, G. & Canal, J. M. [Plasma surface functionalization and dyeing kinetics of Pan-Pmma copolymers](#). *Appl. Surf. Sci.* 283, 269–275 (2013).

## [IEEE transactions on industrial electronics](#) (Lloc en el rànquing: **2 de 247**)

Busquets-Monge, S., Maheshwari, R. & Munk-Nielsen, S. [Overmodulation of n-Level Three-Leg DC-AC Diode-Clamped Converters With Comprehensive Capacitor Voltage Balance](#). *IEEE Trans. Ind. Electron.* 60, 1872–1883 (2013).

Egea-Alvarez, A., Bianchi, F., Junyent-Ferre, A., Gross, G. & Gomis-Bellmunt, O. [Voltage Control of Multiterminal VSC-HVDC Transmission Systems for Offshore Wind Power Plants: Design and Implementation in a Scaled Platform](#). *IEEE Trans. Ind. Electron.* 60, 2381–2391 (2013).

Nicolas-Apruzzese, J., Busquets-Monge, S., Bordonau, J., Alepuz, S. & Calle-Prado, A. [Analysis of the Fault-Tolerance Capacity of the Multilevel Active-Clamped Converter](#). *IEEE Trans. Ind. Electron.* 60, 4773–4783 (2013).

Pouresmaeil, E., Miguel-Espinar, C., Massot-Campos, M., Montesinos-Miracle, D. & Gomis-Bellmunt, O. [A Control Technique for Integration of DG Units to the Electrical Networks](#). *IEEE Trans. Ind. Electron.* 60, 2881–2893 (2013).

Ruderman, A., Reznikov, B. & Busquets-Monge, S. [Asymptotic Time Domain Evaluation of a Multilevel Multiphase PWM Converter Voltage Quality](#). *IEEE Trans. Ind. Electron.* 60, 1999–2009 (2013).

## [Journal of hazardous materials](#) (Lloc en el rànquing: **2 de 124**)

López-Roldán, R., Jubany, I., Martí, V., González, S. & Cortina, J. L. [Ecological screening indicators of stress and risk for the Llobregat river water](#). *J. Hazard. Mater.* 263 Pt 1, 239–47 (2013).

Vílchez, J. A., Villafañe, D. & Casal, J. [A dispersion safety factor for LNG vapor clouds](#). *J. Hazard. Mater.* 246-247, 181–8 (2013).

## [Journal of nuclear materials](#) (Lloc en el rànquing: **2 de 33**)

Serrano-Purroy, D. *et al.* [Dynamic leaching studies of 48MWd/kgU UO<sub>2</sub> commercial spent nuclear fuel under oxid conditions](#). *J. Nucl. Mater.* 434, 451–460 (2013).

# Revistes amb més impacte

## [Journal of the european ceramic society](#) (Lloc en el rànquing: 2 de 25)

Valle, J., Mestra, A., Marro, F. G. & Anglada, M. [Mechanical properties and resistance to low temperature degradation of surface nitrided 3Y-TZP](#). *J. Eur. Ceram. Soc.* 33, 3145–3155 (2013).

## [Physical review C](#) (Lloc en el rànquing: 2 de 21)

Salvador-Castiñeira, P. *et al.* [Highly accurate measurements of the spontaneous fission half-life of Pu-240, Pu-242](#). *Phys. Rev. C* 88, 064611 (2013).

Tagliente, G. *et al.* [The Zr-93 \(n, gamma\)reaction up to 8 keV neutron energy](#). *Phys. Rev. C* 87, 014622 (2013).

## [Trac-trends in analytical chemistry](#) (Lloc en el rànquing: 2 de 76)

Lopez-Roldan, R., Tusell, P., Cortina, J. L. & Courtois, S. [On-line bacteriological detection in water](#). *TrAC Trends Anal. Chem.* 44, 46–57 (2013).

## [Acta Biomaterialia](#) (Lloc en el rànquing: 3 de 77)

Canal, C., Pastorino, D., Mestres, G., Schuler, P., & Ginebra, M.-P. (2013). [Relevance of microstructure for the early antibiotic release of fresh and pre-set calcium phosphate cements](#). *Acta Biomaterialia*, 9(9), 8403–12.

Mestres, G. *et al.* [Antimicrobial properties and dentin bonding strength of magnesium phosphate cements](#). *Acta Biomater.* 9, 8384–93 (2013).

Montufar, E. B., Maazouz, Y. & Ginebra, M. P. [Relevance of the setting reaction to the injectability of tricalcium phosphate pastes](#). *Acta Biomater.* 9, 6188–98 (2013).

## [Atmospheric Chemistry and Physics](#) (Lloc en el rànquing: 3 de 76)

Amiridis, V., Wandinger, U., Marinou, E., Giannakaki, E., Tsekeri, A., Basart, S., ... Ansmann, A. (2013). [Optimizing CALIPSO Saharan dust retrievals](#). *Atmospheric Chemistry and Physics*, 13(23), 12089–12106.

Gobbi, G. P., Angelini, F., Barnaba, F., Costabile, F., Baldasano, J. M., Basart, S., ... Bolignano, A. (2013). [Changes in particulate matter physical properties during Saharan advections over Rome \(Italy\): a four-year study, 2001–2004](#). *Atmospheric Chemistry and Physics*, 13(15), 7395–7404.

Spada, M., Jorba, O., Pérez García-Pando, C., Janjic, Z. & M. Baldasano, J. [Modeling and evaluation of the global sea-salt aerosol distribution: sensitivity to emission schemes and resolution effects at coastal/orographic sites](#). *Atmos. Chem. Phys.* 13, 11735–11755 (2013).



# Revistes amb més impacte

## [Macromolecules](#) (Lloc en el rànquing: 3 de 82)

Lavilla, C. *et al.* [Solid-State Modification of PBT with Cyclic Acetalized Galactitol and d -Mannitol: Influence of Composition and Chemical Microstructure on Thermal Properties](#). *Macromolecules* 46, 4335–4345 (2013).

Tolentino, A., León, S., Alla, A., Martínez de Ilarduya, A. & Muñoz-Guerra, S. [Comblike Ionic Complexes of Poly\( \$\gamma\$ -glutamic acid\) and Alkanoylcholines](#) Derived from Fatty Acids. *Macromolecules* 46, 1607–1617 (2013).

## [Progress in organic coatings](#) (Lloc en el rànquing: 3 de 58)

Tomuta, A. M., Ramis, X., Fernández-Francos, X., Ferrando, F. & Serra, A. [New chemically reworkable epoxy coatings obtained by the addition of polyesters with star topologies to diglycidyl ether of bisphenol A resins](#). *Prog. Org. Coatings* 76, 1616–1624 (2013).

## [Carbohydrate Polymers](#) (Lloc en el rànquing: 4 de 71)

Tolentino, A., Alla, A., Martínez de Ilarduya, A. & Muñoz-Guerra, S. [Comb-like ionic complexes of hyaluronic acid with alkyltrimethylammonium surfactants](#). *Carbohydr. Polym.* 92, 691–6 (2013).

## [IEEE transactions on power electronics](#) (Lloc en el rànquing: 4 de 247)

Doria-Cerezo, A. (2013). [Comments on “Control and performance of a doubly-fed induction machine intended for a flywheel energy storage system.”](#) *IEEE Transactions on Power Electronics*, 28(1), 605–606.

Montesinos-Miracle, D., Massot-Campos, M., Bergas-Jane, J., Galceran-Arellano, S. & Rufer, A. [Design and Control of a Modular Multilevel DC/DC Converter for Regenerative Applications](#). *IEEE Trans. Power Electron.* 28, 3970–3979 (2013).

## [IEEE transactions on systems man cybernetics-systems](#) (Lloc en el rànquing: 4 de 24)

Colasanto, L., Suarez, R. & Rosell, J. [Hybrid Mapping for the Assistance of Teleoperated Grasping Tasks](#). *IEEE Trans. Syst. Man, Cybern. Syst.* 43, 390–401 (2013).

## [Journal of cosmology and astroparticle physics](#) (Lloc en el rànquing: 4 de 27)

Bamba, K., Haro, J. de & Odintsov, S. D. [Future singularities and teleparallelism in loop quantum cosmology](#). *J. Cosmol. Astropart. Phys.* 2013, 008–008 (2013).

Haro, J. [Cosmological perturbations in teleparallel Loop Quantum Cosmology](#). *J. Cosmol. Astropart. Phys.* 2013, 068–068 (2013).

# Revistes amb més impacte

## [Surface & coatings technology](#) (Lloc en el rànquing: 4 de 18)

Salvador-Castiñeira, P. *et al.* [Highly accurate measurements of the spontaneous fission half-life of Pu-240,Pu-242](#). *Phys. Rev. C* 88, 064611 (2013).

## [Geoscientific model development](#) (Lloc en el rànquing: 5 de 173)

Brioude, J. *et al.* [The Lagrangian particle dispersion model FLEXPART-WRF version 3.1](#). *Geosci. Model Dev.* 6, 1889–1904 (2013).

## [International journal of wildland fire](#) (Lloc en el rànquing: 5 de 64)

Plucinski, M. P. & Pastor, E. [Criteria and methodology for evaluating aerial wildfire suppression](#). *Int. J. Wildl. Fire* 22, 1144 (2013).

## [Polymer chemistry](#) (Lloc en el rànquing: 5 de 82)

Bendrea, A.-D. *et al.* [Hybrid materials consisting of an all-conjugated polythiophene backbone and grafted hydrophilic poly\(ethylene glycol\) chains](#). *Polym. Chem.* 4, 2709 (2013).

Fabregat, G. *et al.* [An electroactive and biologically responsive hybrid conjugate based on chemical similarity](#). *Polym. Chem.* 4, 1412 (2013).

Japu, C. *et al.* [D-Glucose-derived PET copolyesters with enhanced T-g](#). *Polym. Chem.* 4, 3524 (2013).

Lavilla, C., Martínez de Ilarduya, A., Alla, A. & Muñoz-Guerra, S. [PET copolyesters made from a d-mannitol-derived bicyclic diol](#). *Polym. Chem.* 4, 282 (2013).

Pérez Madrigal, M. M. *et al.* [Bioactive nanomembranes of semiconductor polythiophene and thermoplastic polyurethane: thermal, nanostructural and nanomechanical properties](#). *Polym. Chem.* 4, 568 (2013).

## [Scientific reports](#) (Lloc en el rànquing: 5 de 55)

Waterhouse, G. I. N. *et al.* [Hydrogen production by tuning the photonic band gap with the electronic band gap of TiO<sub>2</sub>](#). *Sci. Rep.* 3, 2849 (2013).