Producció científica de l'ETSEIB a Futur

Articles de revista i publicacions a congressos dels investigadors de l'ETSEIB durant l'any 2019

Biblioteca ETSEIB Escola Tècnica Superior d'Enginyeria Industrial de Barcelona

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1 Introducció

Aquest informe recull els 360 articles i els 190 treballs presentats a congressos publicats pel personal docent i investigador de l'Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (ETSEIB) durant l'any 2019 i introduïts a DRAC (Descriptor de la Recerca Acadèmica).

La metodologia ha consistit en l'extracció de Futur (https://futur.upc.edu/) de la producció científica de tot el PDI adscrit a l'ETSEIB, limitant la cerca a l'any 2019 i als articles de revista i publicacions a congressos. L'extracció dels articles de revista es va fer el dia 03.06.2020, i la dels treballs publicats a congressos, el dia 01.09.2020. Per tant, si s'han entrat publicacions a posteriori, no s'han pogut incloure a l'informe.

Per a l'elaboració de l'informe, les referències dels articles de revista s'han cercat a la base de dades Web of Science, i s'ha indicat el factor d'impacte de les publicacions, si en tenen. En aquest sentit, dels 360 articles, 293 han estat publicats en revistes indexades a Web of Science, el que suposa un 81% del total d'articles publicats, un 1% més que l'any passat.

En el cas de les publicacions a congressos, s'ha cercat el congrés i s'ha fet l'enllaç a la pàgina web del congrés.

En tots dos casos, per a cada investigador s'ha afegit un enllaç a la seva fitxa personal de Futur i per a cada article o treball publicat a congrés s'ha afegit, sempre que ha estat possible, un enllaç directe a l'article o treball.

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

En cas de detectar alguna errada o mancança, si us plau contacteu amb la Biblioteca (biblioteca.etseib@upc.edu).

2 Articles de revista

2.1 Articles publicats

Aquest apartat recull els 360 articles publicats pel personal docent i investigador de l'ETSEIB durant l'any 2019 i introduïts a DRAC.

1. Demey, H., Melkior, T., Chatroux, A., Attar, K. & Sastre, A. Evaluation of torrefied poplar-biomass as a low-cost sorbent for lead and terbium removal from aqueous solutions and energy co-generation. *Chem. Eng. J.* 361, 839–852 (2019)
2. Garcia-Planas, M. I. & Magret, M. D. D-stratification and hierarchy graphs of the space of order 2 and 3 matrix pencils. *Univers. J. Math. Appl.* 2, 14–23 (2019)
3. Karimi Pour, F., Puig, V. & Cembrano, M. Economic health-aware LPV-MPC based on system reliability assessment for water transport network. *Energies* 12, 1408–1415 (2019)
4. Kamran, H., Irannajad, M., Fortuny, A. & Sastre, A. Non-dispersive selective extraction of germanium from fly ash leachates using membrane-based processes. *Sep. Sci. Technol.* 54, 2879–2894 (2019)
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6. Baldoma, I., Fontich Julia, E. & Martin, P. Whiskered parabolic tori in the planar (n+ 1) -body problem. *Commun. Math. Phys.* (2019)
7. Haro, J., Pan, S. & Aresté, L. Understanding gravitational particle production in quintessential inflation. *J. Cosmol. Astropart. Phys.* 2019, 56 (2019)
8. Pons, J. M. The vierendeel truss: past and present of an innovative typology. *Arquitetura Rev.* 15, 193–211 (2019)
9. Cirici, J. & Roig, A. Sullivan minimal models of operad algebras. *Publicacions matemàtiques* 63, 125–154 (2019)
10. Amaducci, S. *et al.* Measurement of the 235U(n, f) cross section relative to the 6Li(n, t) and 10B(n, a) standards from thermal to 170 keV neutron energy range at n_TOF. *Eur. Phys. J. A* 55, 120:1--120:19 (2019)
11. Segura, C., Palau, A., Luque, J., Ruiz, M. & Banchs, R. Chatbol, a chatbot for the Spanish "La Liga". *Lect. notes Electr. Eng.* 579, 319–330 (2019)
12. Zhang, M., Valentin, D., Valero, M., Egusquiza, M. & Egusquiza, E. Failure investigation of a Kaplan turbine blade. *Eng. Fail. Anal.* 97, 690–700 (2019)
13. Asamoah, M., Diaz, P., Dies, J. & de Blas, A. Regulatory framework for nuclear power plant fire safety and risk assessments from global perspective. *J. Appl. Sci. Technol.* 23, 55–68 (2019)
14. Utili, M., Bassini, S., Boccaccini, L., Bühler, L. & de les Valls, E. Status of Pb-16Li technologies for European DEMO fusion reactor. *Fusion Eng. Des.* 146 Part B, 2676–2681 (2019)

15. Lopez, A., Nonell, A., Vidal, D. & Perera, A. Evaluation of cross-validation strategies in sequence-based binding prediction using deep learning. *J. Chem. Inf. Model.* 58, 1645–1657 (2019)

16. Buj-Corral, I., Alvarez, J. A. & Dominguez, A. Effect of grain size and density of abrasive on surface roughness, material removal rate and acoustic emission signal in rough honing processes. *Metals (Basel).* 9, 1–15 (2019)

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18. Riba, J., Capelli, F. & Moreno-Eguilaz, J. M. Analysis and mitigation of stray capacitance effects in resistive high-voltage dividers. *Energies* 12, 1–16 (2019)

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25. Baldoma, I., Fontich Julia, E. & Martin, P. Invariant manifolds of parabolic fixed points (I). Existence and dependence on parameters. *J. Differ. Equ.* 268, 5516–5573 (2019)

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vertices model. *J. Comput. Sci.* 30, 28 (2019)

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2.2 Autors

En aquest apartat es recullen els 236 investigadors de l'ETSEIB amb articles de revista publicats durant l'any 2019 i introduïts a DRAC.

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2.4 Revistes

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Aiche journal 133
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American journal of clinical pathology 44
Índex d'impacte 2.094
Lloc en el rànquing: 39/78 **2n quartil**

Annals of operations research 78
Índex d'impacte 2.583
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Annual reviews in control 104
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Lloc en el rànquing: 12/63 **1r quartil**

Applied energy 59, 180, 279, 299, 342
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Applied thermal engineering 49
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Arabian journal of geosciences 217
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Bioorganic & medicinal chemistry letters 87
Índex d'impacte 2.572
Lloc en el rànquing: 27/57 **2n quartil**

BRQ Business Research Quarterly 259
Índex d'impacte 2.525
Lloc en el rànquing: 75/152 **2n quartil**

Buildings 302
Sense índex d'impacte

Bulletin of mathematical biology 202
Índex d'impacte 1.812
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Communications in algebra 197
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Lloc en el rànquing: 239/324 **3r quartil**

Communications in contemporary mathematics 320
Índex d'impacte 1.278
Lloc en el rànquing: 72/324 **1r quartil**

Communications in mathematical physics 6
Índex d'impacte 2.102
Lloc en el rànquing: 13/55 **1r quartil**

Communications in nonlinear science and numerical simulation 79, 190
Índex d'impacte 4.115
Lloc en el rànquing: 1/55 **1r quartil**

Communications on pure and applied mathematics 38
Índex d'impacte 2.676
Lloc en el rànquing: 10/324 **1r quartil**

Computers & chemical engineering 23
Índex d'impacte 4.0
Lloc en el rànquing: 20/109 **1r quartil**

Computers & industrial engineering 340
Índex d'impacte 4.135
Lloc en el rànquing: 18/109 **1r quartil**

Control engineering practice 159
Índex d'impacte 3.193
Lloc en el rànquing: 24/63 **2n quartil**

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Debates & prácticas en educación 240
No indexada a Web of Science

Diagnostyka 35
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Dirección y organización. Revista de ingeniería de organización 162, 234, 321, 339
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Discrete applied mathematics 88, 230
Índex d'impacte 1.041
Lloc en el rànquing: 150/260 **3r quartil**

Discrete & continuous dynamical systems – A 331
Índex d'impacte 1.338
Lloc en el rànquing: 64/324 **1r quartil**

Duke mathematical journal 244
Índex d'impacte 2.194
Lloc en el rànquing: 18/324 **1r quartil**

DYNA 335
Índex d'impacte 0.781
Lloc en el rànquing: 76/91 **4t quartil**

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Edimburgh matemathical society 251
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Electric power components and systems 317
Índex d'impacte 0.824
Lloc en el rànquing: 230/266 **4t quartil**

Electric power systems research 43, 77, 288
Índex d'impacte 3.211
Lloc en el rànquing: 78/266 **2n quartil**

Electrotehnica, electronica, automatica 261
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EMBnet journal 28
No indexada a Web of Science

ENERCAL Revista de energia de latinoaméricana y el Caribe 41
No indexada a Web of Science

Energies 3, 18, 130, 192, 205, 272, 297, 334
Índex d'impacte 2.702
Lloc en el rànquing: 63/112 **3r quartil**

Energy policy 105, 211, 226
Índex d'impacte 5.042
Lloc en el rànquing: 13/371 **1r quartil**

Energy reports 307
Índex d'impacte 3.595
Lloc en el rànquing: 52/112 **2n quartil**

Energy sources Part A recovery utilization and environmental effects 191
Índex d'impacte 4.251
Lloc en el rànquing: 40/177 **1r quartil**

Engineering applications of computational fluid mechanics 312
Índex d'impacte 5.8
Lloc en el rànquing: 5/91 **1r quartil**

Engineering failure analysis 12
Índex d'impacte 2.897
Lloc en el rànquing: 7/33 **1r quartil**

Engineering structures 175
Índex d'impacte 3.548
Lloc en el rànquing: 19/134 **1r quartil**

Entropy 34, 72, 122, 144
Índex d'impacte 2.494
Lloc en el rànquing: 33/85 **2n quartil**

Environmental progress & sustainable energy 337
Índex d'impacte 1.989
Lloc en el rànquing: 77/143 **3r quartil**

Environmental toxicology and chemistry 187
Índex d'impacte 3.152
Lloc en el rànquing: 81/126 **3r quartil**

EPE journal 171
Índex d'impacte 0.344
Lloc en el rànquing: 258/266 **4t quartil**

Etudes et documents 256
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European polymer journal 82, 156, 193, 276, 354
Índex d'impacte 3.862
Lloc en el rànquing: 14/89 **1r quartil**

Evolution equations and control theory 237
Índex d'impacte 0.953
Lloc en el rànquing: 122/324 **2n quartil**

Expert systems with applications 248
Índex d'impacte 5.452
Lloc en el rànquing: 21/136 **1r quartil**

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Índex d'impacte 3.083
Lloc en el rànquing: 24/89 **2n quartil**

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Flexible services and manufacturing journal 260
Índex d'impacte 3.038
Lloc en el rànquing: 24/89 **2n quartil**

Fluids 155
Sense índex d'impacte

Frontiers in aging neuroscience 71
Índex d'impacte 4.362
Lloc en el rànquing: 9/51 **1r quartil**

Frontiers in astronomy and space sciences 152
Sense índex d'impacte

Frontiers in computational neuroscience 214
Índex d'impacte 2.535
Lloc en el rànquing: 16/59 **2n quartil**

Frontiers in genetics 359
Índex d'impacte 3.258
Lloc en el rànquing: 73/177 **2n quartil**

Frontiers in psychology 232
Índex d'impacte 3.367
Lloc en el rànquing: 20/81 **1r quartil**

Fundamental journal of mathematics and applications 206
Sense índex d'impacte

Fusion engineering and design 14, 132
Índex d'impacte 1.692
Lloc en el rànquing: 7/34 **1r quartil**

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Gaceta sanitaria 350
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Gait & posture 40, 167
Índex d'impacte 2.349
Lloc en el rànquing: 29/82 **2n quartil**

General relativity and gravitation 250
Índex d'impacte 2.03
Lloc en el rànquing: 39/85 **2n quartil**

Gestión práctica de riesgos laborales 123
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Heredity 181
Índex d'impacte 3.436
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IEEE Access 29, 81, 118, 158, 169, 358
Índex d'impacte 3.745
Lloc en el rànquing: 35/156 **1r quartil**

IEEE Control systems magazine 327
Índex d'impacte 7.471
Lloc en el rànquing: 5/63 **1r quartil**

IEEE Journal of biomedical and health informatics 32, 228, 348
Índex d'impacte 5.223
Lloc en el rànquing: 1/27 **1r quartil**

IEEE Transactions on cognitive and developmental systems 179
Índex d'impacte 2.667
Lloc en el rànquing: 59/136 **2n quartil**

IEEE Transactions on industrial electronics 45
Índex d'impacte 4.515
Lloc en el rànquing: 1/64 **1r quartil**

IEEE Transactions on industrial informatics 329
Índex d'impacte 9.112
Lloc en el rànquing: 3/63 **1r quartil**

IEEE Transactions on instrumentation 249
Índex d'impacte 3.658
Lloc en el rànquing: 65/266 **1r quartil**

IEEE Transactions on power delivery 174, 309, 330
Índex d'impacte 3.681
Lloc en el rànquing: 63/266 **1r quartil**

IEEE Transactions on systems, man, and cybernetics. systems 322
Índex d'impacte 9.309
Lloc en el rànquing: 2/63 **1r quartil**

IEEE Transactions on vehicular technology 257
Índex d'impacte 5.379
Lloc en el rànquing: 6/36 **1r quartil**

IEEE Transactions on very large scale Integration (VLSY) systems 39, 263
Índex d'impacte 2.037
Lloc en el rànquing: 28/53 **3r quartil**

IET control theory and applications 204
Índex d'impacte 3.343
Lloc en el rànquing: 14/64 **1r quartil**

IET generation, transmission and distribution 139
Índex d'impacte 2.862
Lloc en el rànquing: 103/266 **2n quartil**

IET Renewable power generation 346
Índex d'impacte 3.894
Lloc en el rànquing: 57/266 **1r quartil**

Indonesian journal of chemistry 134
Sense índex d'impacte

InfoPLC++ 198, 338
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International journal of agricultural and environmental research 233
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International journal of applied mathematics and computer science 111
Índex d'impacte 0.967
Lloc en el rànquing: 165/260 **3r quartil**

International journal of computer vision 243
Índex d'impacte 5.698
Lloc en el rànquing: 17/136 **1r quartil**

International journal of control 33
Índex d'impacte 2.78
Lloc en el rànquing: 28/63 **2n quartil**

International journal of design education 51
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International journal of energy research 176
Índex d'impacte 3.741
Lloc en el rànquing: 1/34 **1r quartil**

International journal of electrical power & energy systems 52, 201, 295, 352
Índex d'impacte 3.588
Lloc en el rànquing: 66/266 **1r quartil**

International journal of energy and environmental engineering 160
Sense índex d'impacte

International journal of engineering education 37, 200
Índex d'impacte 0.653
Lloc en el rànquing: 38/41 **4t quartil**

International journal of environmental research and public health 27, 62, 83
Índex d'impacte 2.849
Lloc en el rànquing: 105/265 **2n quartil**

International journal of geometric methods in modern physics 207
Índex d'impacte 1.287
Lloc en el rànquing: 29/55 **3r quartil**

International journal of human resource management 186
Índex d'impacte 3.04
Lloc en el rànquing: 87/226 **2n quartil**

International journal of humanoid robotics 292
Índex d'impacte 1.394
Lloc en el rànquing: 23/28 **4t quartil**

International journal of molecular sciences 286
Índex d'impacte 4.556
Lloc en el rànquing: 74/297 **1r quartil**

International journal of robust and nonlinear control 163, 246, 314
Índex d'impacte 3.503
Lloc en el rànquing: 6/260 **1r quartil**

International journal of estructural and civil engineering research 153
No indexada a Web of Science

International journal of system assurance engineering and management 255
Sense índex d'impacte

International journal of systems science 127
Índex d'impacte 2.149
Lloc en el rànquing: 36/108 **2n quartil**

International journal of transport development and Integration 126
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Journal of applied science and Technology 13
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Journal of applied statistics 310
Índex d'impacte 1.031
Lloc en el rànquing: 68/124 **3r quartil**

Journal of chemical information and modeling 15
Índex d'impacte 4.549
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Journal of clinical microbiology 283
Índex d'impacte 5.897
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Journal of cleaner production 227, 341
Índex d'impacte 7.246
Lloc en el rànquing: 8/53 **1r quartil**

Journal of computational science 30
Índex d'impacte 2.644
Lloc en el rànquing: 28/108 **2n quartil**

Journal of cosmology and astroparticle physics 7, 215
Índex d'impacte 5.21
Lloc en el rànquing: 5/29 **1r quartil**

Journal of differential equations 25, 154, 254
Índex d'impacte 2.192
Lloc en el rànquing: 19/324 **1r quartil**

Journal of environmental management 84
Índex d'impacte 5.647
Lloc en el rànquing: 33/265 **1r quartil**

Journal of environmental radioactivity 98
Índex d'impacte 2.161
Lloc en el rànquing: 149/265 **3r quartil**

Journal of experimental and theoretical artificial intelligence 99
Índex d'impacte 2.039
Lloc en el rànquing: 71/136 **3r quartil**

Journal of fluids and structures 344
Índex d'impacte 2.84
Lloc en el rànquing: 39/130 **2n quartil**

Journal of food processing and preservation 149, 347
Índex d'impacte 1.405
Lloc en el rànquing: 102/139 **3r quartil**

Journal of guidance, control, and dynamics 74, 356
Índex d'impacte 2.692
Lloc en el rànquing: 6/31 **1r quartil**

Journal of high energy physics 241
Índex d'impacte 5.875
Lloc en el rànquing: 4/29 **1r quartil**

Journal of industrial engineering and management (JIEM) 131, 353
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Journal of industrial engineering and management optimization 285
Índex d'impacte 1.366
Lloc en el rànquing: 57/91 **3r quartil**

Journal of international education and practice 157
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Journal of mathematical biology 194
Índex d'impacte 1.939
Lloc en el rànquing: 26/59 **2n quartil**

Journal of mathematical neuroscience 336
Índex d'impacte 1.115
Lloc en el rànquing: 74/106 **3r quartil**

Journal of the Institute of Mathemamatics of Jussieu 24
Índex d'impacte 1.254
Lloc en el rànquing: 74/324 **1r quartil**

Journal of nonlinear science 225
Índex d'impacte 2.104
Lloc en el rànquing: 36/260 **1r quartil**

Journal of physical organic chemistry 117
Índex d'impacte 1.536
Lloc en el rànquing: 38/57 **3r quartil**

Journal of process control 36, 42, 66, 223
Índex d'impacte 3.624
Lloc en el rànquing: 43/143 **2n quartil**

Journal of radiological protection 5, 48, 360
Índex d'impacte 1.261
Lloc en el rànquing: 19/34 **3r quartil**

Journal of statistical computation and simulation 221
Índex d'impacte 0.918
Lloc en el rànquing: 75/124 **3r quartil**

Journal of the American College of Cardiology
Índex d'impacte 20.589
Lloc en el rànquing: 3/138 **1r quartil**

Journal of the energy institute 114
Índex d'impacte 4.748
Lloc en el rànquing: 33/112 **2n quartil**

Journal of the Franklin Institute 20, 76, 172, 173
Índex d'impacte 4.036
Lloc en el rànquing: 8/106 **1r quartil**

Journal of the Society of Leather Technologists and Chemists 229
Índex d'impacte 0.427
Lloc en el rànquing: 21/24 **4t quartil**

Journal of theoretical biology 258
Índex d'impacte 2.327
Lloc en el rànquing: 39/93 **2n quartil**

Journal of thermal analysis and calorimetry 315
Índex d'impacte 2.731
Lloc en el rànquing: 37/86 **2n quartil**

Journal of vibration and acoustics. transactions of the ASME 92, 137
Índex d'impacte 2.343
Lloc en el rànquing: 10/32 **2n quartil**

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Linear àlgebra and its applications 325
Índex d'impacte 0.988
Lloc en el rànquing: 115/324 **2n quartil**

Linear and multilinear algebra 328
Índex d'impacte 1.112
Lloc en el rànquing: 94/324 **2n quartil**

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Macromolecular chemistry and physics 208
Índex d'impacte 2.335
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Materials (Basel) 26, 91, 301, 304
Índex d'impacte 3.057
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Mathematical reviews 142, 154
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Measurement science and technology 106
Índex d'impacte 1.857
Lloc en el rànquing: 43/91 **2n quartil**

Mechanism and machine theory 135, 281
Índex d'impacte 3.312
Lloc en el rànquing: 30/130 **1r quartil**

Metals 16, 269
Índex d'impacte 2.117
Lloc en el rànquing: 18/79 **1r quartil**

Methods in ecology and evolution 119
Índex d'impacte 6.511
Lloc en el rànquing: 9/168 **1r quartil**

Minerals engineering 216
Índex d'impacte 3.795
Lloc en el rànquing: 6/30 **1r quartil**

Multibody system dynamics 112
Índex d'impacte 2.071
Lloc en el rànquing: 72/136 **3r quartil**

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Nanomaterials 235
Índex d'impacte 4.324
Lloc en el rànquing: 89/314 **2n quartil**

Natural hazards and earth system sciences 326
Índex d'impacte 3.102
Lloc en el rànquing: 50/200 **1r quartil**

Nature machine intelligence 355
Sense índex d'impacte

Neurocomputing 185
Índex d'impacte 4.438
Lloc en el rànquing: 28/136 **1r quartil**

Nuclear engineering and design 282, 296
Índex d'impacte 1.62
Lloc en el rànquing: 8/34 **1r quartil**

Nuclear España 22
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Nuclear fusion 209, 290
Índex d'impacte 3.706
Lloc en el rànquing: 3/34 **1r quartil**

Nuclear instruments and methods in physics research. Section A, accelerators SP 63
Índex d'impacte 1.265
Lloc en el rànquing: 18/34 **3r quartil**

Nucleic acids research 351
Índex d'impacte 11.501
Lloc en el rànquing: 15/297 **1r quartil**

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Patrimoni ETSEIB 323
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Physical chemistry chemical physics 96
Índex d'impacte 3.43
Lloc en el rànquing: 8/37 **1r quartil**

Physical review C 95, 124, 308
Índex d'impacte 2.988
Lloc en el rànquing: 5/19 **2n quartil**

Physical review D 146, 220
Índex d'impacte 4.833
Lloc en el rànquing: 6/29 **1r quartil**

Physics letters 168
Índex d'impacte 4.384
Lloc en el rànquing: 4/19 **1r quartil**

Physiological measurement 164
Índex d'impacte 2.309
Lloc en el rànquing: 39/71 **3r quartil**

Plasma physics and controlled fusion 170
Índex d'impacte 2.829
Lloc en el rànquing: 9/34 **2n quartil**

PLOS computational biology 189
Índex d'impacte 4.7
Lloc en el rànquing: 6/59 **1r quartil**

PlosOne 46, 239
Índex d'impacte 2.74
Lloc en el rànquing: 27/71 **2n quartil**

Polymer (Guildf) 182
Índex d'impacte 4.231
Lloc en el rànquing: 11/89 **1r quartil**

Polymers (Basel) 70, 121, 196, 210, 264, 277
Índex d'impacte 3.426
Lloc en el rànquing: 16/89 **1r quartil**

Procedia manufacturing 143, 231
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Quaderns agraris 357
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Quaderns d'història de l'enginyeria 151, 252, 318
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Qualitative theory of dynamical Systems 102
Índex d'impacte 1.4
Lloc en el rànquing: 57/324 **1r quartil**

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Radiation oncology 69
Índex d'impacte 2.817
Lloc en el rànquing: 47/133 **2n quartil**

Radiation protection dosimetry 298
Índex d'impacte 0.773
Lloc en el rànquing: 250/265 **4t quartil**

Rapid prototyping journal 212
Índex d'impacte 3.099
Lloc en el rànquing: 31/130 **1r quartil**

Reactive and functional polymers 64, 86, 203
Índex d'impacte 3.333
Lloc en el rànquing: 18/89 **1r quartil**

Renewable and sustainable energy reviews 116
Índex d'impacte 12.11
Lloc en el rànquing: 1/41 **1r quartil**

Revista iberoamericana de automática e informática industrial 280
No indexada a Web of Science

Revista de química e industria textil 316
No indexada a Web of Science

Revista del Col·legi Oficial de Doctors i Llicenciats en Filosofia i Lletres i en Ciències de Catalunya 313
No indexada a Web of Science

Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales 54, 332
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Revista internacional de contaminación ambiental 291
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Revista matemática complutense 267
Índex d'impacte 0.855
Lloc en el rànquing: 147/324 **2n quartil**

Robotics and autonomous systems 238
Índex d'impacte 2.825
Lloc en el rànquing: 27/63 **2n quartil**

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Safety science 245
Índex d'impacte 4.105
Lloc en el rànquing: 11/48 **1r quartil**

Science of the total environment 236
Índex d'impacte 6.551
Lloc en el rànquing: 22/265 **1r quartil**

Scientific reports 333
Índex d'impacte 3.998
Lloc en el rànquing: 17/71 **1r quartil**

Sensors 68, 85, 89
Índex d'impacte 3.275
Lloc en el rànquing: 15/64 **1r quartil**

Separation and purification technology 349
Índex d'impacte 5.774
Lloc en el rànquing: 16/143 **1r quartil**

Separation science and technology 4, 141
Índex d'impacte 1.718
Lloc en el rànquing: 115/177 **3r quartil**

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Índex d'impacte 4.805
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Stem cell reports 19
Índex d'impacte 6.032
Lloc en el rànquing: 5/29 **1r quartil**

Studia universitatis babes-bolyai philologia 183
Sense índex d'impacte

Surface and coatings technology 188, 271
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Lloc en el rànquing: 3/21 **1r quartil**

Sustainable cities and society 195, 306
Índex d'impacte 5.268
Lloc en el rànquing: 5/63 **1r quartil**

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The european physical journal A 10, 31, 90
Índex d'impacte 2.176
Lloc en el rànquing: 9/19 **2n quartil**

The european physical journal C 224
Índex d'impacte 4.389
Lloc en el rànquing: 7/29 **1r quartil**

The knowledge engineering review 136
Índex d'impacte 1.257
Lloc en el rànquing: 110/136 **4t quartil**

Theoretical and applied climatology 219, 287
Índex d'impacte 2.882
Lloc en el rànquing: 40/93 **2n quartil**

Thermochimica acta 47, 278
Índex d'impacte 2.762
Lloc en el rànquing: 36/86 **2n quartil**

The visual computer 61
Índex d'impacte 1.456
Lloc en el rànquing: 60/108 **3r quartil**

Thin-Walled Structures 58, 165, 166
Índex d'impacte 4.033
Lloc en el rànquing: 15/154 **1r quartil**

Transactions of nonferrous metals Society of China 17
Índex d'impacte 2.615
Lloc en el rànquing: 15/79 **1r quartil**

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Ukrainian mathematical journal 67, 103
Índex d'impacte 0.518
Lloc en el rànquing: 260/324 **4t quartil**

Universal journal of mathematics and applications 2
No indexada a Web of Science

Urban forestry and urban greening 242
Índex d'impacte 4.021
Lloc en el rànquing 3/68 **1r quartil**

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Water 50, 253
Índex d'impacte 2.544
Lloc en el rànquing: 31/94 **2n quartil**

Water, air & soil pollution 109
Índex d'impacte 1.9
Lloc en el rànquing: 170/265 **3r quartil**

Wind energy 218, 270
Índex d'impacte 2.646
Lloc en el rànquing: 44/130 **2n quartil**

World electric vehicle journal 305
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WSEAS transactions on circuits and systems 120
No indexada a Web of Science

WSEAS transactions on Systems 199
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2.5 Revistes amb més impacte

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

Acta astronáutica (Lloc en el rànquing: **4 de 31)**

Machuca, P., Sánchez, J. P., Masdemont, J. J. & Gomez Muntané, G. "High-fidelity trajectory design to flyby near-Earth asteroids using Cubesats**".** *Acta Astronaut.* 167, 146–163 (2019).

Chen, J., Masdemont, J. J., Gomez Muntané, G. & Yuan, J. "Jet transport-based nonlinear state and parameter estimation for geostationary spacecraft". *Acta Astronaut.* 164, 321–333 (2019).

Acta biomaterialia (Lloc en el rànquing: **5 de 38)**

Martí-Muñoz, J. *et al.* "Feasible and pure P2O5-CaO nanoglasses: An in-depth NMR study of synthesis for the modulation of the bioactive ion release". *Acta Biomater.* 94**,** 574–584 (2019).

Communications in nonlinear science and numerical simulation (Lloc en el rànquing: **1 de 55)**

Granados, A. & Huguet, G. "Gluing and grazing bifurcations in periodically forced 2-dimensional integrate-and-fire models". *Commun. nonlinear Sci. Numer. Simul.* 70, 48–73 (2019).

Alvarez-Ramírez, M., Barrabés, E., Medina, M. & Olle, M. "Ejection-collision orbits in the symmetric collinear four–body problem". *Commun. nonlinear Sci. Numer. Simul.* 71, 82 (2019).

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Urban forestry and urban greening (Lloc en el rànquing: **3 de 68)**

Nadal, A. *et al.* "Feasibility assessment of rooftop greenhouses in Latin America. The case study of a social neighborhood in Quito, Ecuador". *Urban For. urban Green.* 44, (2019).

3 Publicacions a congressos

3.1 Treballs publicats a congressos

Aquest apartat recull els 190 treballs publicats a congressos pel personal docent i investigador de l'ETSEIB durant l'any 2019 i introduïts a DRAC.

1. Zayas F, E. E. & Jordi, L. Asignatura Proyecto II: integradora de conocimientos en el grado de Ingeniería de Tecnologías Industriales. in Congreso Iberoamericano de Ingeniería Mecánica 42–47 (2019).

2. Canals Casals, L. & Corchero, C. SABINA: el proyecto que entiende la agregación de la demanda como el camino hacia la transición energética reduciendo las emisiones. in Congreso Smart Grids 74–79 (2019).

3. Konuray, A. et al. Dual-curable stereolithography resins for superior thermomechanical properties. in International Baekeland Symposium 147 (P-27)--148 (P-27) (2019).

4. Salas, C., Araújo, L. & AVILA, M. Mesa de dialogo sobre factores psicosociales en el trabajo. in Congreso Iberoamericano de Psicologia de las Organizaciones y el Trabajo 193–208 (2019).

5. Busquets-Monge, S. & Nicolas-Apruzzese, J. Power converter design based on switching-cell arrays. in Grenoble-Barcelona Twin Conference: Quantum Systems, New Materials & Smart Electronics 21 (2019).

6. Cifuentes, A. et al. Modelling of solid oxide electrolizer and hydrogen leak estimation. in Iberian Symposium on Hydrogen Fuel Cells and Advanced Batteries 57–59 (2019).

7. Tahmid, S., Yang, J. & Font-Llagunes, J. M. Review of models and robotic devices for stroke survivors' upper extremity rehabilitation. in ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference 1–12 (2019).

8. Lerma, E., Costa-Castelló, R., Griño, R. & Sanchis, C. Duino-Based Learning (DBL) in control engineering courses. in IEEE International Conference on Emerging Technologies and Factory Automation 798–803 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

9. Griño, R. & Doria-Cerezo, A. Modelling and simulation of a magnetically coupled multiport dc-dc converter. in IEEE International Conference on Emerging Technologies and Factory Automation 481–487 (2019).

10. Chen, J. & Escaler, X. Unsteady numerical simulation of suction side leading edge cavitation in a Francis turbine runner. in International Symposium of Cavitation and Multiphase Flow 1–8 (Shanghai University Press, 2019). at

11. Hurlimann, M. et al. Influence of future land cover and climate changes on shallow slope failures: a case study from Val d'Aran, Pyrenees (Spain). in Multi-scale Analysis of Slopes Under Climate Change: a Cross-disciplinary Workshop 1 (2019).

12. Guillamon, A., Claumann, C., Roqueiro, N. & Fossas E. Wavenet identification and input estimation from single voltatge traces. in Annual Computational Neuroscience Meeting 143 (2019).

13. Kingeski, L. & Olivella, J. Mobilidade acadêmica internacional: um estudo exploratório sobre as motivações de estudantes brasileiros na Espanha.s. in Seminário Acadêmico Internacional Brasil e Espanha: Intercâmbio de saberes e práticas 74–77 (2019).

14. Javalera, V., Puig, V., Morcego, B. & Orduña, F. Cooperative linker for the distributed control of the Barcelona drinking water network. in International Conference on Agents and Artificial Intelligence 560–567

15. Repiso, E., Zanlungo, F., Kanda, T., Garrell, A. & Sanfeliu, A. People's V-formation and side-by-side model adapted to accompany groups of people by social robots. in IEEE/RSJ International Conference on Intelligent Robots and Systems 202–208 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

16. Alcala, E., Puig, V. & Quevedo, J. LPV-MPC control of autonomous vehicles. in IFAC Workshop on Linear Parameter Varying Systems 106–113 (2019).

17. Benveniste, G., Canals Casals, L., Corchero, C. & Amante, B. Life cycle assessment of Li-Sulfur of batteries for electric vehicles. in International Electric Vehicle Symposium 1–11 (2019).

18. Ortuzar, I., Graffelman, J., Terré, M. & Back, À. The analysis of calf growth data with compositional mixed-eects models. in International Workshop on Compositional Data Analysis 95

19. Bonada, J. et al. Metal additive manufactured parts through direct ink writing process. in Manufacturing Engineering Society International Conference 42 (2019).

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23. Angulo, C., Ortega Ramírez, J. A. & González Abril, L. Towards a healthcare digital twin. in International Conference of the Catalan Association for Artificial Intelligence 312–315 (IOS Press, 2019).

24. Busquets-Monge, S. & Nicolas-Apruzzese, J. Generic design and implementation of multi-cell multi-phase voltage source inverters. in International Exhibition and

Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management 432–438 (VDE-Verlag, 2019).

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26. Wang, Y., Rotondo, D., Puig, V., Cembrano, M. & Zhao, Y. Fault-tolerant control of discrete-time descriptor systems using virtual actuators. in Conference on Control and Fault Tolerant Systems 147–152 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

27. Guerrero, F., Gamardella, F., de la Flor, S., Ramis, X. & Serra, M. À. Rare-earth triflates as lewis acid catalyst in the preparation of poly(thiourethane) thermosets. in International Baekeland Symposium 121 (P-12)--122 (P-12) (2019).

28. Soltanalipour, M., Ferrer, M. & Marimon, F. An experimentally validated study for open rib profiles steel-concrete composite slabs behavior in partial connection. in Nordic Steel Construction Conference 271–276 (2019).

29. Febrer, M., Pallares, R. & Font-Llagunes, J. M. Calibration of foot-ground and crutch-ground contact models for optimal control prediction of crutch-assisted walking motions. in ECCOMAS Thematic Conference on Multibody Dynamics 1–2 (Springer, 2019).

30. Rodriguez, A., Lobo, J. & Font-Llagunes, J. M. A review of lower-limb wearable exoskeletons for overground rehabilitation. in Reunión del Capítulo Español de la Sociedad Europea de Biomecánica 23–24 (Grupo de Investigación de Biomateriales y Biomecánica, 2019).

31. Domenech, B., Ferrer-Martí, L. & Pastor, R. Incorporación de la sostenibilidad y el compromiso social en estudios de ingeniería, a través de proyectos de cooperación. in Congreso Internacional de Innovación Docente e Investigación en Educación Superior: Un Reto para las Áreas de Conocimiento (2019).

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33. Dalmasso, M., Garrell, A., Jimenez, P. & Sanfeliu, A. Human-robot collaborative navigation search using social reward sources. in Iberian Robotics Conference 84–95 (2019).

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36. Alsina, M. et al. STEM students' perception of gender mainstreaming in teaching: the development of a measuring tool. in International Conference of Education, Research and Innovation 6851–6859 (2019).

37. Farrés, A., Masdemont, J. J., Gomez Muntané, G., Webster, C. & Folta, D. C. The geometry of station-keeping strategies around libration poin orbits. in International Astronautical Congress IAC-19.C1.4.5:1--IAC-19.C1.4.5:13 (2019).

38. Solà Soler, J., Giraldo, B. & Jane, R. Linear mixed effects modelling of oxygen desaturation after sleep apneas and hypopneas: a pilot study. in Annual International Conference of the IEEE Engineering in Medicine and Biology Society 5731–5734 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

39. El Mesbahi, J., El Mesbahi, A. & Buj-Corral, I. Additive manufacturing - file formats. in International conference on integrated design and production 4 (2019).

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42. Pons, J. M. El calendari litúrgic i el calendari astronòmic. in VIII Jornada d'història de l'Astronomia i de la Metereologia (2019).

43. Lusa, A., García-Villoria, A. & Armadàs, A. A review on strategic decisions on home care operations management. in International Conference on Industrial Engineering and Industrial Management / Congreso de Ingeniería de Organización 15–16 (2019).

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45. Batet, L., Calviño, F., Duch, M., León, P. & Serra, E. Master in Nuclear Energy UPC-Endesa. Preparing students for a challenging world. in Reunión Anual de la Sociedad Nuclear Española 1–6 (2019).

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47. Segovia, P., Rajaoarisoa, L. H., Nejjari, F., Duviella, E. & Puig, V. A communication-based distributed model predictive control approach for large-scale systems. in IEEE Conference on Decision and Control 1–6 (2019).

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49. Lana, F. J., Serra, C., Rodriguez, R., Martinez, M. D. & Casas-Castillo, M. C. Classification of heavy rainfall profiles for Barcelona city. in International Conference on Meteorology and Climatology of the Mediterranean 29 (2019). at <http://www.metmed.eu/home.htm>

50. Castillo-Escario, Y., Ferrer, I., Montserrat, J. M. & Jane, R. Automatic silence events detector from smartphone audio signals: a pilot mHealth system for sleep apnea monitoring at home. in Annual International Conference of the IEEE Engineering in Medicine and Biology Society 4982–4985 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

51. Casas-Castillo, M. C. et al. Consecuencias hidrológicas del cambio climático en entornos urbanos. in Congreso Internacional Ciudad y Territorio Virtual 1–15 (Centre de Politica de Sol i Valoracions, CPSV / Universitat Politècnica de Catalunya, UPC, 2019).

52. Galvan, I. et al. Principal balances for metabolite genome-wide association analysis in the GCAT cohort. in International Workshop on Compositional Data Analysis 94 (2019).

53. Guillamon, A., Fossas E., Claumann, C. & Roqueiro, N. Wavenet-based system identification and input estimation from single voltage traces. in Barcelona Computational, Cognitive and Systems Neuroscience 37–38 (2019).

54. Alfaro, R. & Bautista, J. Productividad limitada por el riesgo ergonómico en líneas de montaje de modelos mixtos. in International Conference on Industrial Engineering and Industrial Management / Congreso de Ingeniería de Organización 87–88 (2019).

55. Sierra, C. & Enríquez, N. Aprovechamiento de la iluminación natural en espacios educativos en Ecuador. in Simposium Nacional del Alumbrado (2019).

56. Santos, I., López, F., Puig, V., Blesa, J. & Javadiha, M. Localización de fugas en redes de distribución de agua mediante k-NN con distancia cosenoidal. in Congreso Nacional de Control Automático 370–375 (2019).

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58. Cheah, M., Song, J., Ferrer, R., Prieto-Araujo, E. & Gomis-Bellmunt, O. Analysis of hybrid LCC-VSC HVDC transmission system configurations. in International Conference on AC and DC Power Transmission 1–6 (2019).

59. Garcia, C., Buxadera-Palomero, J., Cortina, J. & Pegueroles, M. Electrochemical characterization and biocompatibility of zinc-based alloys for cardiovascular applications. in Congreso de la Sociedad Ibérica de Biomecánica y Biomateriales 1 (2019).

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63. Calleja, G. & De La Torre, R. A gender perspective in the teaching of technology innovation: an experience in engineering education. in International Conference of Education, Research and Innovation 5504–5510 (International Association of Technology, Education and Development (IATED), 2019).

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65. Calvo, M. & Jane, R. Sleep stage influence on the autonomic modulation of sleep apnea syndrome. in Computing in Cardiology 1–4 (2019).

66. Gil, O. & Sanfeliu, A. Effects of a social force model reward in robot navigation based on deep reinforcement learning. in Iberian Robotics Conference 213–224 (2019).

67. Trapiello, C. & Puig, V. Set-based replay attack detection in closed-loop systems using a plug & play watermarking approach. in Conference on Control and Fault Tolerant Systems 330–335 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

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72. Puig, M., Raptis, S., Wooldridge, C. & Darbra, R. M. European port trends in environmental issues. in International Conference on Environmental Science and Technology 1–3 (2019).

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76. Mateo, M. Problema biobjetivo de máquinas paralelas con elegibilidad y tiempos de pre-proceso y post-proceso. in Congreso Nacional de Estadística e Investigación Operativa 107 (2019).

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80. Calvo, M. et al. Class imbalance impact on the prediction of complications during home hospitalization: a comparative study. in Annual International Conference of the IEEE Engineering in Medicine and Biology Society 3446–3449 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

81. Carrino, C., Rafieian, B., Costa-jussà, M. R. & Fonollosa, J. A. R. Terminology-aware segmentation and domain feature for the WMT19 biomedical translation task. in Conference on Machine Translation 151–155 (Association for Computational Linguistics, 2019).

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84. Cambrodí Masip, R. et al. Cuantificación de la actividad EEG de vigilia como marcador de somnolencia en pacientes con SAHS. in Reunión Anual de la Sociedad Española del Sueño 1 (2019).

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89. Bermejo, D., Escaler, X. & Ruiz Mansilla, R. Mapping Venturi cavitation in a new closed loop facility devoted to study thermodynamic effects. in International Symposium of Cavitation and Multiphase Flow 1–8 (Shanghai University Press, 2019).

90. Romero, D. & Jane, R. Non-linear HRV analysis to quantify the effects of intermittent hypoxia using an OSA rat model. in Annual International Conference of the IEEE Engineering in Medicine and Biology Society 4994–4997 (Institute of Electrical and Electronics Engineers (IEEE), 2019).

91. Carmona, V., Lobo, J., van Ruysevelt, J., Torras, C. & Font-Llagunes, J. M. Development and preliminary evaluation of the ArmTracker: a wearable system to monitor arm activity during daily life. in Reunión del Capítulo Español de la Sociedad Europea de Biomecánica 31–32 (Grupo de Investigación de Biomateriales y Biomecánica, 2019).

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3.2 Autors

En aquest apartat es recullen els 124 investigadors de l'ETSEIB amb treballs publicats a congressos durant l'any 2019 i introduïts a DRAC.

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3.3 Departaments

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702 Departament de Ciència i Enginyeria de Materials

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