# Enrique Baeyens

## List of Publications by Year
## in descending order

| | | | |
|---|---|---|---|
| **48**<br>papers | **1,171**<br>citations | 567281<br>**15**<br>h-index | 434195<br>**31**<br>g-index |
| **50**<br>all docs | **50**<br>docs citations | **50**<br>times ranked | **1017**<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Identification of block-oriented nonlinear systems using orthonormal bases. Journal of Process Control, 2004, 14, 685-697. | 3.3 | 153 |
| 2 | Sharing Storage in a Smart Grid: A Coalitional Game Approach. IEEE Transactions on Smart Grid, 2019, 10, 4379-4390. | 9.0 | 130 |
| 3 | Wiener model identification and predictive control of a pH neutralisation process. IET Control Theory and Applications, 2004, 151, 329-338. | 1.7 | 119 |
| 4 | Coalitional Aggregation of Wind Power. IEEE Transactions on Power Systems, 2013, 28, 3774-3784. | 6.5 | 103 |
| 5 | Mixed H2/Hâˆž filtering. International Journal of Robust and Nonlinear Control, 1996, 6, 313-330. | 3.7 | 90 |
| 6 | Design of PID-type controllers using multiobjective genetic algorithms. ISA Transactions, 2002, 41, 457-472. | 5.7 | 87 |
| 7 | Subspace-based Identification Algorithms for Hammerstein and Wiener Models. European Journal of Control, 2005, 11, 127-136. | 2.6 | 59 |
| 8 | Smart grids cyber-physical security as a malicious data attack: An innovation approach. Electric Power Systems Research, 2017, 149, 210-219. | 3.6 | 58 |
| 9 | Analysis of Solar Energy Aggregation Under Various Billing Mechanisms. IEEE Transactions on Smart Grid, 2019, 10, 4175-4187. | 9.0 | 49 |
| 10 | Cost Causation Based Allocations of Costs for Market Integration of Renewable Energy. IEEE Transactions on Power Systems, 2018, 33, 70-83. | 6.5 | 40 |
| 11 | Wind energy aggregation: A coalitional game approach. , 2011, , . | | 36 |
| 12 | MRCD: a genetic algorithm for multiobjective robust control design. Engineering Applications of Artificial Intelligence, 2002, 15, 285-301. | 8.1 | 35 |
| 13 | A Minimal Incentive-Based Demand Response Program With Self Reported Baseline Mechanism. IEEE Transactions on Smart Grid, 2020, 11, 2195-2207. | 9.0 | 30 |
| 14 | SUBSPACE IDENTIFICATION OF MULTIVARIABLE HAMMERSTEIN AND WIENER MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 55-60. | 0.4 | 19 |
| 15 | A Direct Search Algorithm for Global Optimization. Algorithms, 2016, 9, 40. | 2.1 | 18 |
| 16 | A cooperative game for the realized profit of an aggregation of renewable energy producers. , 2016, , . | | 16 |
| 17 | E2Rebot: A robotic platform for upper limb rehabilitation in patients with neuromotor disability. Advances in Mechanical Engineering, 2016, 8, 168781401665905. | 1.6 | 15 |
| 18 | Distributed control of flexible demand using proportional allocation mechanism in a smart grid: Game theoretic interaction and price of anarchy. Sustainable Energy, Grids and Networks, 2017, 12, 30-39. | 3.9 | 15 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Identification of multivariable Hammerstein systems using rational orthonormal bases. , 0, , . | | 14 |
| 20 | Analysis of changes in the beat-to-beat P-wave morphology using clustering techniques. Biomedical Signal Processing and Control, 2009, 4, 309-316. | 5.7 | 8 |
| 21 | Optimal sharing of quantity risk for a coalition of wind power producers facing nodal prices. , 2012, , . | | 8 |
| 22 | Comparative analysis of collision-free path-planning methods for multi-manipulator systems. Robotica, 2006, 24, 711-726. | 1.9 | 7 |
| 23 | Design of devices for protecting civil structures using fixed-order â„‹â^ž control. Structural Control and Health Monitoring, 2007, 14, 239-260. | 4.0 | 7 |
| 24 | Unsupervised Classification of Surface Defects in Wire Rod Production Obtained by Eddy Current Sensors. Sensors, 2015, 15, 10100-10117. | 3.8 | 7 |
| 25 | Control Performance Assessment: A General Survey. Advances in Intelligent and Soft Computing, 2010, , 621-628. | 0.2 | 7 |
| 26 | Design of PID Controllers Using Multiobjective Genetic Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 277-282. | 0.4 | 6 |
| 27 | Linear minimax estimation for random vectors with parametric uncertainty. , 2010, , . | | 6 |
| 28 | Dynamic workflow prioritization based on block finite position machines. , 2007, , . | | 3 |
| 29 | A Combined SVM/OB-based Wiener Model Identification Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 638-643. | 0.4 | 3 |
| 30 | Flexibility Management with Virtual Batteries of Thermostatically Controlled Loads: Real-Time Control System and Potential in Spain. Energies, 2021, 14, 1711. | 3.1 | 3 |
| 31 | Modelling, supervision and diagnosis of a manufacturing cell. , 0, , . | | 2 |
| 32 | ON-LINE JOB-SHOP SCHEDULING OF A MANUFACTURING SYSTEM BASED ON A VIRTUAL SUPERVISOR CONCEPT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 183-188. | 0.4 | 2 |
| 33 | An Algorithm for Phase-Space Detection of the P Characteristic Points. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2004-7. | 0.5 | 2 |
| 34 | Analytical method for generating feasible control sequences in controller development. , 2007, , . | | 2 |
| 35 | Assessment of Ziegler-Nichols tuned loops using control performance monitoring indices. , 2011, , . | | 2 |
| 36 | A Strategy to Maintain Short-Term Stability and Long-Term Profitability of Renewable Energy Aggregation. , 2018, , . | | 2 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 37 | Analysis of Production Systems Using the VS-Diagram. Advances in Soft Computing, 2009, , 443-451. | 0.4 | 2 |
| 38 | PARAMETER IDENTIFICATION OF A CAR SUSPENSION SYSTEM USING NON-INTRUSIVE SIGNALS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 427-432. | 0.4 | 1 |
| 39 | Subspace-Based Blind Identification of IIR Systems. IEEE International Workshop on Machine Learning for Signal Processing, 2006, , . | 0.0 | 1 |
| 40 | The real value of load flexibility &#x2014; congestion free dispatch. , 2015, , . | | 1 |
| 41 | Incentive Design in a Distributed Problem with Strategic Agents. , 2018, , . | | 1 |
| 42 | DESIGN OF CONTROLLERS FOR PARAMETRIC UNCERTAIN SYSTEMS. A TWO-STEP APPROACH USING GENETIC ALGORITHMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 7-12. | 0.4 | 0 |
| 43 | Trajectory Planning Applied to the Estimation of Cardiac Activation Circuits. Lecture Notes in Computer Science, 2005, , 75-84. | 1.3 | 0 |
| 44 | On-line Scheduling Method of Manufacturing System Based on Virtual supervisory Algorithm for Reference Pattern. , 2006, , . | | 0 |
| 45 | Analysis of changes in the beat-to-beat P-wave morphology using clustering techniques. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5215-5220. | 0.4 | 0 |
| 46 | VS-Diagrams Identification and Classification Using Neural Networks. Lecture Notes in Computer Science, 2009, , 240-243. | 1.3 | 0 |
| 47 | Performance monitoring of PID controllers through unfalsified control theory. , 2012, , . | | 0 |
| 48 | Sequence Analysis Of Finite Position Machine FPM. , 2007, , 569-576. | | 0 |