# Lucas Cuadra

List of Publications by Year
in descending order



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|---|---|---|---|
| 44 papers | 2,118 citations | 361413 20 h-index | 302126 39 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 1543 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Modeling Quantum Dot Systems as Random Geometric Graphs with Probability Amplitude-Based Weighted Links. Nanomaterials, 2021, 11, 375. | 4.1 | 8 |
| 2 | Approaching Disordered Quantum Dot Systems by Complex Networks with Spatial and Physical-Based Constraints. Nanomaterials, 2021, 11, 2056. | 4.1 | 3 |
| 3 | A study on the impact of easements in the deployment of wind farms near airport facilities. Renewable Energy, 2019, 135, 566-588. | 8.9 | 16 |
| 4 | Influence of overhead on LTE downlink performance: a comprehensive model. Telecommunication Systems, 2018, 67, 485-517. | 2.5 | 3 |
| 5 | Nearâ€optimal user assignment in LTE mobile networks with evolutionary computing. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3132. | 3.9 | 2 |
| 6 | Wind Power Ramp Events Prediction with Hybrid Machine Learning Regression Techniques and Reanalysis Data. Energies, 2017, 10, 1784. | 3.1 | 22 |
| 7 | Optimizing the Structure of Distribution Smart Grids with Renewable Generation against Abnormal Conditions: A Complex Networks Approach with Evolutionary Algorithms. Energies, 2017, 10, 1097. | 3.1 | 28 |
| 8 | A Grouping Harmony Search Algorithm for Assigning Resources to Users in WCDMA Mobile Networks. Advances in Intelligent Systems and Computing, 2017, , 190-199. | 0.6 | 1 |
| 9 | Computational intelligence in wave energy: Comprehensive review and case study. Renewable and Sustainable Energy Reviews, 2016, 58, 1223-1246. | 16.4 | 67 |
| 10 | A Lamarckian Hybrid Grouping Genetic Algorithm with repair heuristics for resource assignment in WCDMA networks. Applied Soft Computing Journal, 2016, 43, 619-632. | 7.2 | 7 |
| 11 | A review of Computational Intelligence techniques in coral reef-related applications. Ecological Informatics, 2016, 32, 107-123. | 5.2 | 12 |
| 12 | A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. Energies, 2015, 8, 9211-9265. | 3.1 | 195 |
| 13 | A Novel Grouping Genetic Algorithm for Assigning Resources to Users in WCDMA Networks. Lecture Notes in Computer Science, 2015, , 42-53. | 1.3 | 3 |
| 14 | A hybrid genetic algorithmâ€"extreme learning machine approach for accurate significant wave height reconstruction. Ocean Modelling, 2015, 92, 115-123. | 2.4 | 34 |
| 15 | Significant wave height estimation using SVR algorithms and shadowing information from simulated and real measured X-band radar images of the sea surface. Ocean Engineering, 2015, 101, 244-253. | 4.3 | 73 |
| 16 | Hybridizing Extreme Learning Machines and Genetic Algorithms to select acoustic features in vehicle classification applications. Neurocomputing, 2015, 152, 58-68. | 5.9 | 50 |
| 17 | An evolutionary-based hyper-heuristic approach for the Jawbreaker puzzle. Applied Intelligence, 2014, 40, 404-414. | 5.3 | 14 |
| 18 | Soft-Computing: An innovative technological solution for urban traffic-related problems in modern cities. Technological Forecasting and Social Change, 2014, 89, 236-244. | 11.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Speech Enhancement in Noisy Environments in Hearing Aids Driven by a Tailored Gain Function Based on a Gaussian Mixture Model. Lecture Notes in Computer Science, 2013, , 503-514. | 1.3 | 0 |
| 20 | Enhancing the energy efficiency of wireless-communicated binaural hearing aids for speech separation driven by soft-computing algorithms. Applied Soft Computing Journal, 2012, 12, 1939-1949. | 7.2 | 5 |
| 21 | Joint design of Gaussianized spectrum-based features and least-square linear classifier for automatic acoustic environment classification in hearing aids. Signal Processing, 2010, 90, 2628-2632. | 3.7 | 5 |
| 22 | Analysis of the Effects of Finite Precision in Neural Network-Based Sound Classifiers for Digital Hearing Aids. Eurasip Journal on Advances in Signal Processing, 2009, 2009, . | 1.7 | 11 |
| 23 | Influence of Acoustic Feedback on the Learning Strategies of Neural Network-Based Sound Classifiers in Digital Hearing Aids. Eurasip Journal on Advances in Signal Processing, 2009, 2009, . | 1.7 | 6 |
| 24 | Sound Classification in Hearing Aids by the Harmony Search Algorithm. Studies in Computational Intelligence, 2009, , 173-188. | 0.9 | 11 |
| 25 | Reducing the computational cost for sound classification in hearing aids by selecting features via genetic algorithms with restricted search. , 2008, , . | | 8 |
| 26 | Two-layer automatic sound classification system for conversation enhancement in hearing aids1. Integrated Computer-Aided Engineering, 2008, 15, 85-94. | 4.6 | 9 |
| 27 | Speech/Non-Speech Classification in Hearing Aids Driven by Tailored Neural Networks. Studies in Computational Intelligence, 2008, , 145-167. | 0.9 | 1 |
| 28 | NN-based automatic sound classifier for digital hearing aids. , 2007, , . | | 3 |
| 29 | Feature Selection for Sound Classification in Hearing Aids Through Restricted Search Driven by Genetic Algorithms. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2249-2256. | 3.2 | 33 |
| 30 | Novel semiconductor solar cell structures: The quantum dot intermediate band solar cell. Thin Solid Films, 2006, 511-512, 638-644. | 1.8 | 170 |
| 31 | Experimental analysis of the quasi-Fermi level split in quantum dot intermediate-band solar cells. Applied Physics Letters, 2005, 87, 083505. | 3.3 | 189 |
| 32 | Intermediate band solar cells: Comparison with shockley-read-hall recombination. Semiconductors, 2004, 38, 946-949. | 0.5 | 18 |
| 33 | Present status of intermediate band solar cell research. Thin Solid Films, 2004, 451-452, 593-599. | 1.8 | 77 |
| 34 | Influence of the Overlap Between the Absorption Coefficients on the Efficiency of the Intermediate Band Solar Cell. IEEE Transactions on Electron Devices, 2004, 51, 1002-1007. | 3.0 | 113 |
| 35 | General equivalent circuit for intermediate band devices: Potentials, currents and electroluminescence. Journal of Applied Physics, 2004, 96, 903-909. | 2.5 | 199 |
| 36 | Impact-ionization-assisted intermediate band solar cell. IEEE Transactions on Electron Devices, 2003, 50, 447-454. | 3.0 | 56 |

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|---|---|---|---|
| 37 | Quasi-drift diffusion model for the quantum dot intermediate band solar cell. IEEE Transactions on Electron Devices, 2002, 49, 1632-1639. | 3.0 | 153 |
| 38 | Thermodynamics of solar energy conversion in novel structures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 107-114. | 2.7 | 27 |
| 39 | Design constraints of the quantum-dot intermediate band solar cell. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 150-157. | 2.7 | 70 |
| 40 | Type II broken band heterostructure quantum dot to obtain a material for the intermediate band solar cell. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 162-165. | 2.7 | 43 |
| 41 | Thermodynamic consistency of sub-bandgap absorbing solar cell proposals. IEEE Transactions on Electron Devices, 2001, 48, 2118-2124. | 3.0 | 83 |
| 42 | Partial filling of a quantum dot intermediate band for solar cells. IEEE Transactions on Electron Devices, 2001, 48, 2394-2399. | 3.0 | 201 |
| 43 | Quantum dot intermediate band solar cell. , 0, , . | | 68 |
| 44 | Progress towards the practical implementation of the intermediate band solar cell. , 0, , . | | 4 |