

Lucas Cuadra

List of Publications by Year in descending order

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Version: 2024-02-01

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	Partial filling of a quantum dot intermediate band for solar cells. IEEE Transactions on Electron Devices, 2001, 48, 2394-2399.	3.0	201
2	General equivalent circuit for intermediate band devices: Potentials, currents and electroluminescence. Journal of Applied Physics, 2004, 96, 903-909.	2.5	199
3	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. Energies, 2015, 8, 9211-9265.	3.1	195
4	Experimental analysis of the quasi-Fermi level split in quantum dot intermediate-band solar cells. Applied Physics Letters, 2005, 87, 083505.	3.3	189
5	Novel semiconductor solar cell structures: The quantum dot intermediate band solar cell. Thin Solid Films, 2006, 511-512, 638-644.	1.8	170
6	Quasi-drift diffusion model for the quantum dot intermediate band solar cell. IEEE Transactions on Electron Devices, 2002, 49, 1632-1639.	3.0	153
7	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
8	Thermodynamic consistency of sub-bandgap absorbing solar cell proposals. IEEE Transactions on Electron Devices, 2001, 48, 2118-2124.	3.0	83
9	Present status of intermediate band solar cell research. Thin Solid Films, 2004, 451-452, 593-599.	1.8	77
10	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
11	Design constraints of the quantum-dot intermediate band solar cell. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 150-157.	2.7	70
12	Quantum dot intermediate band solar cell. , 0, , .		68
13	Computational intelligence in wave energy: Comprehensive review and case study. Renewable and Sustainable Energy Reviews, 2016, 58, 1223-1246.	16.4	67
14	Impact-ionization-assisted intermediate band solar cell. IEEE Transactions on Electron Devices, 2003, 50, 447-454.	3.0	56
15	Hybridizing Extreme Learning Machines and Genetic Algorithms to select acoustic features in vehicle classification applications. Neurocomputing, 2015, 152, 58-68.	5.9	50
16	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
17	A hybrid genetic algorithmm€”extreme learning machine approach for accurate significant wave height reconstruction. Ocean Modelling, 2015, 92, 115-123.	2.4	34
18	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

#	ARTICLE	IF	CITATIONS
19	Optimizing the Structure of Distribution Smart Grids with Renewable Generation against Abnormal Conditions: A Complex Networks Approach with Evolutionary Algorithms. <i>Energies</i> , 2017, 10, 1097.	3.1	28
20	Thermodynamics of solar energy conversion in novel structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 107-114.	2.7	27
21	Wind Power Ramp Events Prediction with Hybrid Machine Learning Regression Techniques and Reanalysis Data. <i>Energies</i> , 2017, 10, 1784.	3.1	22
22	Intermediate band solar cells: Comparison with shockley-read-hall recombination. <i>Semiconductors</i> , 2004, 38, 946-949.	0.5	18
23	A study on the impact of easements in the deployment of wind farms near airport facilities. <i>Renewable Energy</i> , 2019, 135, 566-588.	8.9	16
24	An evolutionary-based hyper-heuristic approach for the Jawbreaker puzzle. <i>Applied Intelligence</i> , 2014, 40, 404-414.	5.3	14
25	A review of Computational Intelligence techniques in coral reef-related applications. <i>Ecological Informatics</i> , 2016, 32, 107-123.	5.2	12
26	Analysis of the Effects of Finite Precision in Neural Network-Based Sound Classifiers for Digital Hearing Aids. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009, 2009, .	1.7	11
27	Sound Classification in Hearing Aids by the Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , 2009, , 173-188.	0.9	11
28	Two-layer automatic sound classification system for conversation enhancement in hearing aids1. <i>Integrated Computer-Aided Engineering</i> , 2008, 15, 85-94.	4.6	9
29	Reducing the computational cost for sound classification in hearing aids by selecting features via genetic algorithms with restricted search. , 2008, , .		8
30	Modeling Quantum Dot Systems as Random Geometric Graphs with Probability Amplitude-Based Weighted Links. <i>Nanomaterials</i> , 2021, 11, 375.	4.1	8
31	A Lamarckian Hybrid Grouping Genetic Algorithm with repair heuristics for resource assignment in WCDMA networks. <i>Applied Soft Computing Journal</i> , 2016, 43, 619-632.	7.2	7
32	Influence of Acoustic Feedback on the Learning Strategies of Neural Network-Based Sound Classifiers in Digital Hearing Aids. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009, 2009, .	1.7	6
33	Joint design of Gaussianized spectrum-based features and least-square linear classifier for automatic acoustic environment classification in hearing aids. <i>Signal Processing</i> , 2010, 90, 2628-2632.	3.7	5
34	Enhancing the energy efficiency of wireless-communicated binaural hearing aids for speech separation driven by soft-computing algorithms. <i>Applied Soft Computing Journal</i> , 2012, 12, 1939-1949.	7.2	5
35	Soft-Computing: An innovative technological solution for urban traffic-related problems in modern cities. <i>Technological Forecasting and Social Change</i> , 2014, 89, 236-244.	11.6	5
36	Progress towards the practical implementation of the intermediate band solar cell. , 0, , .		4

#	ARTICLE	IF	CITATIONS
37	NN-based automatic sound classifier for digital hearing aids. , 2007, , .		3
38	A Novel Grouping Genetic Algorithm for Assigning Resources to Users in WCDMA Networks. Lecture Notes in Computer Science, 2015, , 42-53.	1.3	3
39	Influence of overhead on LTE downlink performance: a comprehensive model. Telecommunication Systems, 2018, 67, 485-517.	2.5	3
40	Approaching Disordered Quantum Dot Systems by Complex Networks with Spatial and Physical-Based Constraints. Nanomaterials, 2021, 11, 2056.	4.1	3
41	Near-Optimal user assignment in LTE mobile networks with evolutionary computing. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3132.	3.9	2
42	Speech/Non-Speech Classification in Hearing Aids Driven by Tailored Neural Networks. Studies in Computational Intelligence, 2008, , 145-167.	0.9	1
43	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
44	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