Alessandra Fanni

List of Publications by Year
in descending order

40 papers	597 citations	840776 11 h-index	642732 23 g-index
40 all docs	40 docs citations	40 times ranked	620 citing authors

#	Article	IF	Citations
1	Disruption prediction at JET through deep convolutional neural networks using spatiotemporal information from plasma profiles. Nuclear Fusion, 2022, 62, 066005.	3.5	18
2	Inter-machine plasma perturbation studies in EU-DEMO-relevant scenarios: lessons learnt for prediction of EM forces during VDEs. Nuclear Fusion, 2022, 62, 076004.	3.5	5
3	A Closed Form Selected Mapping Algorithm for PAPR Reduction in OFDM Multicarrier Transmission. Energies, 2022, 15, 1938.	3.1	7
4	Integrated design strategy for EU-DEMO first wall protection from plasma transients. Fusion Engineering and Design, 2022, 177, 113067.	1.9	21
5	Selection of Features Based on Electric Power Quantities for Non-Intrusive Load Monitoring. Applied Sciences (Switzerland), 2021, 11, 533.	2.5	13
6	A statistical approach for the automatic identification of the start of the chain of events leading to the disruptions at JET. Nuclear Fusion, 2021, 61, 036013.	3.5	11
7	A Real Time Bolometer Tomographic Reconstruction Algorithm in Nuclear Fusion Reactors. Mathematics, 2021, 9, 1186.	2.2	2
8	NILM techniques applied to a real-time monitoring system of the electricity consumption. Acta IMEKO (2012), 2021, 10, 139.	0.7	4
9	Learning control coil currents from heat-flux images using convolutional neural networks at Wendelstein 7-X. Plasma Physics and Controlled Fusion, 2021, 63, 025009.	2.1	3
10	Application of self-organizing map to identify nocturnal epileptic seizures. Neural Computing and Applications, 2020, 32, 18225-18241.	5.6	6
11	Tools for Image Analysis and First Wall Protection at W7-X. Fusion Science and Technology, 2020, 76, 933-941.	1.1	4
12	Convolutional Neural Network for Seizure Detection of Nocturnal Frontal Lobe Epilepsy. Complexity, 2020, 2020, 1-10.	1.6	25
13	Forecasting-Aided Monitoring for the Distribution System State Estimation. Complexity, 2020, 2020, 1-15.	1.6	11
14	Non-Intrusive Loads Monitoring Techniques for House Energy Management. , 2019, , .		1
15	Recurrence Plots for Dynamic Analysis of Type-I ELMs at JET With a Carbon Wall. IEEE Transactions on Plasma Science, 2019, 47, 1871-1877.	1.3	3
16	Optimization of a Power Line Communication System to Manage Electric Vehicle Charging Stations in a Smart Grid. Energies, 2019, 12, 1767.	3.1	11
17	Electric capacitance tomography for nondestructive testing of standing trees. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2252.	1.9	6
18	Multiobjective tabu search algorithm for the optimal design of a thermo-acoustic magneto-hydro-dynamic electric generator. International Journal of Applied Electromagnetics and Mechanics, 2018, 56, 133-142.	0.6	1

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19	Mapping of the ASDEX Upgrade Operational Space for Disruption Prediction. IEEE Transactions on Plasma Science, 2012, 40, 570-576.	1.3	11
20	Adaptive mapping of the plasma operational space of ASDEX Upgrade for disruption prediction. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 43-49.	0.6	1
21	Modelling and control for plasma disruption avoidance and mitigation. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 73-79.	0.6	0
22	Geometrical Kernel Machine for Prediction and Novelty Detection of Disruptive Events in TOKAMAK Machines. Journal of Signal Processing Systems, 2010, 61, 85-93.	2.1	0
23	Grid-Enabled Tabu Search for Electromagnetic Optimization Problems. IEEE Transactions on Magnetics, 2010, 46, 3265-3268.	2.1	8
24	Algebraic Approach to Ambiguity-Group Determination in Nonlinear Analog Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 438-447.	5.4	9
25	Multi Objective Optimization Algorithm Based on Neural Networks Inversion. Lecture Notes in Computer Science, 2009, , 744-751.	1.3	6
26	Primary and backup paths optimal design for traffic engineering in hybrid IGP/MPLS networks. , 2009, , .		15
27	Multiobjective Tabu Search Algorithms for Optimal Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2008, 44, 970-973.	2.1	25
28	Geometrical synthesis of MLP neural networks. Neurocomputing, 2008, 71, 919-930.	5.9	21
29	A Neural Networks Inversion-Based Algorithm for Multiobjective Design of a High-Field Superconducting Dipole Magnet. IEEE Transactions on Magnetics, 2007, 43, 1557-1560.	2.1	10
30	Data preprocessing for river flow forecasting using neural networks: Wavelet transforms and data partitioning. Physics and Chemistry of the Earth, 2006, 31, 1164-1171.	2.9	210
31	A signal-processing tool for non-destructive testing of inaccessible pipes. Engineering Applications of Artificial Intelligence, 2006, 19, 753-760.	8.1	25
32	Neural network-based analog fault diagnosis using testability analysis. Neural Computing and Applications, 2004, 13, 288-298.	5.6	30
33	Tuning of the optimization strategies on the problem size. International Journal of Applied Electromagnetics and Mechanics, 1999, 10, 33-43.	0.6	0
34	A Neural Network Diagnosis Approach for Analog Circuits. Applied Intelligence, 1999, 11, 169-186.	5.3	25
35	A Tabu Search algorithm for the optimisation of telecommunication networks. European Journal of Operational Research, 1998, 106, 357-372.	5.7	25
36	Heuristic algorithms for reliable multiplexed network design. European Transactions on Telecommunications, 1997, 8, 293-304.	1.2	1

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37	Accurate analysis of modal capacitances in coupled coplanar waveguides. Microwave and Optical Technology Letters, 1995, 8, 59-62.	1.4	4
38	New types of TEM cells with shaped inner and outer conductors. Microwave and Optical Technology Letters, 1994, 7, 1-2.	1.4	4
39	Conductor€backed and upper€shielded coplanar waveguide with finite ground planes. Microwave and Optical Technology Letters, 1993, 6, 879-882.	1.4	7
40	Qualitative dynamic diagnosis of circuits. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1993, 7, 53-64.	1.1	8