Gianpaolo Vitale

List of Publications by Year
in descending order

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97	2,403	182225	252626
papers	citations	30 h-index	46 g-index

101	101	101	2215
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extending affective capabilities for medical assistive robots. Cognitive Systems Research, 2022, 73, 21-25.	1.9	3
2	Social robots and therapeutic adherence: A new challenge in pediatric asthma?. Paediatric Respiratory Reviews, 2021, 40, 46-51.	1.2	10
3	A Humanoid Social Robot Based Approach for Indoor Environment Quality Monitoring and Well-Being Improvement. International Journal of Social Robotics, 2021, 13, 277-296.	3.1	16
4	Thermal Stability of a DC/DC Converter With Inductor in Partial Saturation. IEEE Transactions on Industrial Electronics, 2021, 68, 7985-7995.	5.2	12
5	Proton Exchange Membrane Electrolyzer Emulator for Power Electronics Testing Applications. Processes, 2021, 9, 498.	1.3	22
6	Site Experience Enhancement and Perspective in Cultural Heritage Fruitionâ€"A Survey on New Technologies and Methodologies Based on a â€œFour-Pillarsâ€•Approach. Future Internet, 2021, 13, 92.	2.4	9
7	Non-Linear Inductors Characterization in Real Operating Conditions for Power Density Optimization in SMPS. Energies, 2021, 14, 3924.	1.6	5
8	EMI Filter Re-Design in a SMPS with Inductor in Saturation. , 2021, , .		2
9	Effect of Heat Exchange Transient Conditions With Moving Water-Air Interface on Space Charge Accumulation in Undersea HVdc Cables. IEEE Transactions on Industry Applications, 2021, 57, 4528-4536.	3.3	2
10	Modified Sliding Mode-Based Control of a Three-Level Interleaved DC-DC Buck Converter for Proton Exchange Membrane Water Electrolysis. , 2021, , .		5
11	Impact of Nonlinear Inductor on Efficiency and Power Losses in a SMPS: a Case Study. , 2021, , .		0
12	Hydrogen as a Clean and Sustainable Energy Vector for Global Transition from Fossil-Based to Zero-Carbon. Clean Technologies, 2021, 3, 881-909.	1.9	35
13	A regenerative braking system for internal combustion engine vehicles using supercapacitors as energy storage elements - Part 2: Simulation results. Journal of Power Sources, 2020, 448, 227258.	4.0	3
14	A regenerative braking system for internal combustion engine vehicles using supercapacitors as energy storage elements - Part 1: System analysis and modelling. Journal of Power Sources, 2020, 448, 227368.	4.0	20
15	A stacked interleaved DC-DC buck converter for proton exchange membrane electrolyzer applications: Design and experimental validation. International Journal of Hydrogen Energy, 2020, 45, 64-79.	3.8	51
16	Explainable Post-Occupancy Evaluation Using a Humanoid Robot. Applied Sciences (Switzerland), 2020, 10, 7906.	1.3	6
17	Space charge accumulation in undersea HVDC cables as function of heat exchange conditions at the boundaries â€“ water-air interface. , 2020, , .		4
18	Variable Parameters Model of a PEM Electrolyzer Based Model Reference Adaptive System Approach. , 2020, , .		5

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19	Farada‚Ä™s Efficiency Modeling of a Proton Exchange Membrane Electrolyzer Based on Experimental Data. Energies, 2020, 13, 4792.	1.6	35
20	AC-DC Converters for Electrolyzer Applications: State of the Art and Future Challenges. Electronics (Switzerland), 2020, 9, 912.	1.8	64
21	Design and Realization of a Stacked Interleaved DC‚Ä“DC Stepâ€Down Converter for PEM Water Electrolysis with Improved Current Control. Fuel Cells, 2020, 20, 307-315.	1.5	15
22	Proton Exchange Membrane Electrolyzer Modeling for Power Electronics Control: A Short Review. Journal of Carbon Research, 2020, 6, 29.	1.4	27
23	Design of a robust controller for DC/DC converterâ€“electrolyzer systems supplied by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e822" altimg="si4.svg"><mml:mi>Î¼</mml:mi></mml:math>WECSs subject to highly fluctuating wind speed. Control Engineering Practice, 2020, 98, 104383.	3.2	5
24	Improved Hydrogen-Production-Based Power Management Control of a Wind Turbine Conversion System Coupled with Multistack Proton Exchange Membrane Electrolyzers. Energies, 2020, 13, 1239.	1.6	18
25	Post Occupancy Evaluation and Environmental Parameters Monitoring by a Humanoid Robot. , 2019, , .		1
26	Optimal Hydrogen Production from Direct Coupled Variable Speed Wind Generator with a Stacked Interleaved Buck converter. , 2019, , .		2
27	Dynamic Emulation of a PEM Electrolyzer by Time Constant Based Exponential Model. Energies, 2019, 12, 750.	1.6	61
28	Design and experimental validation of a high voltage ratio DC/DC converter for proton exchange membrane electrolyzer applications. International Journal of Hydrogen Energy, 2019, 44, 7059-7072.	3.8	18
29	On the Distribution of Lightning Current among Interconnected Grounding Systems in Medium Voltage Grids. Energies, 2018, 11, 771.	1.6	18
30	Automatic EMI Filter Design for Power Electronic Converters Oriented to High Power Density. Electronics (Switzerland), 2018, 7, 9.	1.8	39
31	Experimental application of least-squares technique for estimation of double layer super capacitor parameters. , 2017, , .		3
32	Renewable energies â€“ Future perspectives. Renewable Energy and Environmental Sustainability, 2016, 1, 17.	0.7	4
33	Solar and wind forecasting by NARX neural networks. Renewable Energy and Environmental Sustainability, 2016, 1, 39.	0.7	48
34	Design and Performance Evaluation of a High Power-Density EMI Filter for PWM Inverter-Fed Induction-Motor Drives. IEEE Transactions on Industry Applications, 2016, 52, 2397-2404.	3.3	88
35	Identification and Robust Control of a Quadratic DC/DC Boost Converter by Hammerstein Model. IEEE Transactions on Industry Applications, 2015, 51, 3975-3985.	3.3	37
36	Closed-Loop MRAS Speed Observer for Linear Induction Motor Drives. IEEE Transactions on Industry Applications, 2015, 51, 2279-2290.	3.3	60

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37	EMI Reduction in DC-Fed Electric Drives by Active Common-Mode Compensator. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1067-1076.	1.4	39
38	Descriptor-Type Kalman Filter and TLS EXIN Speed Estimate for Sensorless Control of a Linear Induction Motor. IEEE Transactions on Industry Applications, 2014, 50, 3754-3766.	3.3	37
39	Neural Sensorless Control of Linear Induction Motors by a Full-Order Luenberger Observer Considering the End Effects. IEEE Transactions on Industry Applications, 2014, 50, 1891-1904.	3.3	89
40	Characterization of a DC grid for Power Line Communications in smart grids. , 2014, , .		2
41	Closed-Loop MRAS speed observer for linear induction motor drives. , 2013, , .		0
42	Photovoltaic Sources. Green Energy and Technology, 2013, , .	0.4	43
43	Intelligent power conversion system management for photovoltaic generation. Sustainable Energy Technologies and Assessments, 2013, 2, 19-30.	1.7	15
44	Photovoltaic Source Models. Green Energy and Technology, 2013, , 55-81.	0.4	0
45	Parameter Identification for Photovoltaic Source Models. Green Energy and Technology, 2013, , 83-129.	0.4	6
46	Photovoltaic Source Emulation. Green Energy and Technology, 2013, , 173-202.	0.4	2
47	Dynamic PV Model Parameter Identification by Least-Squares Regression. IEEE Journal of Photovoltaics, 2013, 3, 799-806.	1.5	44
48	Neural MPPT of Variable-Pitch Wind Generators With Induction Machines in a Wide Wind Speed Range. IEEE Transactions on Industry Applications, 2013, 49, 942-953.	3.3	50
49	MRAS Speed Observer for High-Performance Linear Induction Motor Drives Based on Linear Neural Networks. IEEE Transactions on Power Electronics, 2013, 28, 123-134.	5.4	95
50	Benchmarking of PWM techniques effects on efficiency, power quality and EMI in DC-supplied induction motor drives. , 2013, , .		5
51	EMI Analysis in Electrical Drives Under Lightning Surge Conditions. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 850-859.	1.4	11
52	Growing Neural Gas-Based MPPT of Variable Pitch Wind Generators With Induction Machines. IEEE Transactions on Industry Applications, 2012, 48, 1006-1016.	3.3	25
53	Sensorless Control of PMSM Fractional Horsepower Drives by Signal Injection and Neural Adaptive-Band Filtering. IEEE Transactions on Industrial Electronics, 2012, 59, 1355-1366.	5.2	86
54	Neural sensorless control of linear induction motors by a full-order Luenberger observer considering the end-effects. , 2012, , .		4

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55	Improved sensorless scalar control by a PLL tracking rotor slotting effects. , 2012, , .		0
56	An Optimized Feedback Common Mode Active Filter for Vehicular Induction Motor Drives. IEEE Transactions on Power Electronics, 2011, 26, 3153-3162.	5.4	47
57	Analysis and design of a dc-dc converter with high boosting and reduced current ripple for PEM FC. , 2011, , .		7
58	Neural MPPT of variable pitch wind generators with induction machines in a wide wind speed range. , 2011, , .		6
59	MRAS speed observer for high performance linear induction motor drives based on linear neural networks. , 2011, , .		10
60	Growing Neural Gas (GNG)-Based Maximum Power Point Tracking for High-Performance Wind Generator With an Induction Machine. IEEE Transactions on Industry Applications, 2011, 47, 861-872.	3.3	38
61	Power-Loss Evaluation in CM Active EMI Filters for Bearing Current Suppression. IEEE Transactions on Industrial Electronics, 2011, 58, 5142-5153.	5.2	34
62	Direct power control of three-phase VSIs for the minimization of common-mode emissions in distributed generation systems. Electric Power Systems Research, 2011, 81, 830-839.	2.1	13
63	Environmental data processing by clustering methods for energy forecast and planning. Renewable Energy, 2011, 36, 1063-1074.	4.3	26
64	Effects of Common-Mode Active Filtering in Induction Motor Drives for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2010, 59, 2664-2673.	3.9	43
65	Photovoltaic field emulation including dynamic and partial shadow conditions. Applied Energy, 2010, 87, 814-823.	5.1	106
66	PEM Fuel Cell System Model Predictive Control and real-time operation on a power emulator. , 2010, , .		6
67	Neural based MRAS sensorless techniques for high performance linear induction motor drives. , 2010, , .		12
68	A growing neural gas network based MPPT technique for multi-string PV plants. , 2010, , .		3
69	Analytical Versus Neural Real-Time Simulation of a Photovoltaic Generator Based on a DCâ€“DC Converter. IEEE Transactions on Industry Applications, 2010, 46, 2501-2510.	3.3	53
70	Growing Neural Gas based MPPT of variable pitch wind generators with induction machines. , 2010, , .		2
71	Growing Neural Gas (GNG) based Maximum Power Point Tracking for high performance VOC-FOC based wind generator system with an induction machine. , 2009, , .		3
72	Design of Grid-Side Electromagnetic Interference Filters in AC Motor Drives With Motor-Side Common Mode Active Compensation. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 673-682.	1.4	37

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73	A Single-Phase Shunt Active Power Filter for Current Harmonic Compensation by Adaptive Neural Filtering. EPE Journal (European Power Electronics and Drives Journal), 2009, 19, 40-49.	0.7	0
74	A prototype of a fuel cell PEM emulator based on a buck converter. Applied Energy, 2009, 86, 2192-2203.	5.1	63
75	Current Harmonic Compensation by a Single-Phase Shunt Active Power Filter Controlled by Adaptive Neural Filtering. IEEE Transactions on Industrial Electronics, 2009, 56, 3128-3143.	5.2	141
76	Input EMI filter re-design in AC motor drives with active compensation of motor CM voltage. , 2009, , .		0
77	PMSM drives sensorless position control with signal injection and neural filtering. , 2009, , .		7
78	High performance VOC-FOC based wind generator system with induction machine. , 2009, , .		4
79	Identification of photovoltaic array model parameters by robust linear regression methods. Renewable Energy and Power Quality Journal, 2009, 1, 143-149.	0.2	22
80	A Single-Phase DG Generation Unit With Shunt Active Power Filter Capability by Adaptive Neural Filtering. IEEE Transactions on Industrial Electronics, 2008, 55, 2093-2110.	5.2	136
81	Real-time simulation of photovoltaic arrays by growing neural gas controlled DC-DC converter. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	13
82	Fuzzified PI voltage control for boost converters in multi-string PV plants. , 2008, , .		15
83	An Improved Active Common-Mode Voltage Compensation Device for Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2008, 55, 1823-1834.	5.2	88
84	S-domain analysis of feed-forward active common mode output filters for induction motor drives. , 2008, , .		0
85	Real time simulation of renewable sources by model-based control of DC/DC converters. , 2008, , .		41
86	PVDF based vibration measurements and their correlation with torque estimation in a FOC induction motor drive. , 2008, , .		0
87	Experimental comparison of three-phase distributed generation systems based on VOC and DPC control techniques. , 2007, , .		18
88	Design and Experimental Implementation Issues for Common Mode Compensation Devices in PWM Induction Motor Drives. , 2007, , .		4
89	New Direct Power Control Strategies of Three-Phase VSIs for the Minimization of Common-Mode Emissions in Distributed Generation Systems. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq1 1 0.784314 rgBT /Ove		
90	Direct Power Control of Three-Phase VSIs for the Minimization of Common-Mode Emissions in Distributed Generation Systems. , 2007, , .		3

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91	Evaluation of Radiated EMI in 42-V Vehicle Electrical Systems by FDTD Simulation. IEEE Transactions on Vehicular Technology, 2007, 56, 1477-1484.	3.9	27
92	A Single-Phase DG Generation Unit with Shunt Active Power Filter Capability by Adaptive Neural Filtering. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
93	A new direct torque control strategy for the minimization of common-mode emissions. IEEE Transactions on Industry Applications, 2006, 42, 504-517.	3.3	36
94	Numerical simulation of radiated EMI in 42 V electrical automotive architectures. IEEE Transactions on Magnetics, 2006, 42, 879-882.	1.2	14
95	Comparison of Direct Torque Control Techniques in Induction Motor Drives in Terms of Electromagnetic Conducted Emissions. , 2006, , .		0
96	Evaluation of Common Mode Disturbance Mitigation Devices in AC Motor Drives through HF Modelling. , 2006, , .		16
97	A Single-Phase Shunt Active Power Filter for Current Harmonic Compensation by Adaptive Neural Filtering. , 2006, , .		0