

# Lotfi Baghli

## List of Publications by Year in descending order

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49  
papers

1,256  
citations

623734

14  
h-index

526287

27  
g-index

49  
all docs

49  
docs citations

49  
times ranked

920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Control of Six-Phase Symmetrical Induction Machine Under Fault Condition Due to Open Phases. IEEE Transactions on Industrial Electronics, 2008, 55, 1966-1977.	7.9	220
2	A New PWM Strategy Based on a 24-Sector Vector Space Decomposition for a Six-Phase VSI-Fed Dual Stator Induction Motor. IEEE Transactions on Industrial Electronics, 2008, 55, 1910-1920.	7.9	181
3	Space-vector PWM techniques for dual three-phase AC machine: analysis, performance evaluation, and DSP implementation. IEEE Transactions on Industry Applications, 2006, 42, 1112-1122.	4.9	169
4	Comparative Study Between Mechanical and Magnetic Planetary Gears. IEEE Transactions on Magnetics, 2011, 47, 439-450.	2.1	148
5	Harmonic elimination in diode-clamped multilevel inverter using evolutionary algorithms. Electric Power Systems Research, 2008, 78, 1736-1746.	3.6	77
6	Low-Cost Direct Torque Control Algorithm for Induction Motor Without AC Phase Current Sensors. IEEE Transactions on Power Electronics, 2012, 27, 4132-4139.	7.9	66
7	Eccentricity Fault Diagnosis of a Dual-Stator Winding Induction Machine Drive Considering the Slotting Effects. IEEE Transactions on Industrial Electronics, 2008, 55, 4238-4251.	7.9	63
8	Novel Single Current Sensor Topology for Venturini Controlled Direct Matrix Converters. IEEE Transactions on Power Electronics, 2013, 28, 3509-3516.	7.9	34
9	Phase Current Reconstruction Using a Single Current Sensor of Three-Phase AC Motors Fed by SVM-Controlled Direct Matrix Converters. IEEE Transactions on Industrial Electronics, 2013, 60, 5497-5505.	7.9	29
10	Modeling of a synchronous reluctance machine accounting for space harmonics in view of torque ripple minimization. Mathematics and Computers in Simulation, 2010, 81, 354-366.	4.4	26
11	Wireless instantaneous torque measurement, application to induction motors. , 2010, , .		23
12	Improved hardware implementation of a TSR based MPPT algorithm for a low cost connected wind turbine emulator under unbalanced wind speeds. Energy, 2021, 232, 121039.	8.8	23
13	Torque Ripples Suppression for Six-Phase Induction Motors Under Open Phase Faults. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	21
14	Discontinuous SVPWM Techniques for Double Star Induction Motor Drive Control. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	21
15	Signal analysis and identification for induction motor sensorless control. Control Engineering Practice, 2006, 14, 1313-1324.	5.5	16
16	Decoupling Modeling and Control of Six-Phase Induction Machines Under Open Phase Fault Conditions. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	13
17	Sensor fault detection for fault tolerant vector controlled induction machine. , 2005, , .		12
18	Backstepping approach for nonlinear super twisting sliding mode control of an induction motor. , 2015, , .		12

#	ARTICLE	IF	CITATIONS
19	Study and harmonic analysis of SVPWM techniques for VSI-Fed double-star induction motor drive. , 2007, , .		10
20	Experimental Emulation of a Small Wind Turbine Under Operating Modes Using DC Motor. , 2019, , .		9
21	Control of a Grid Connected DFIG Based Wind Turbine Emulator. , 2018, , .		8
22	Indirect power control for a Grid Connected Double Fed Induction Generator Based Wind Turbine Emulator. , 2019, , .		7
23	Impact of renewable energy micro-power plants on power grids over Africa. Energy, 2022, 238, 121702.	8.8	7
24	Aspects of current regulation in indirect field oriented control of dual three phase induction machines. , 2006, , .		6
25	Independent and Direct Rotor-Flux Oriented Control of series-connected induction machines using decoupled Kalman-filters. , 2011, , .		6
26	Neuro-Fuzzy Controller in a Field Oriented Control for Induction Motors. EPE Journal (European) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.7	4
27	Study and Simulation of Direct Torque Control of Double-Star Induction Motor Drive. , 2006, , .		4
28	Sensorless vector control of a saturated induction machine accounting for iron loss. Revue Internationale De GÃ©nie Ã©lectrique, 2008, 10, 511-543.	0.0	4
29	Direct torque control of induction machine drive based on sliding mode controller and a stator resistance compensator with a new hybrid observer. International Journal of Digital Signals and Smart Systems, 2019, 3, 60.	0.2	4
30	Speed Sensorless Vector Controlled Induction Machine in Flux Weakening Region. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	3
31	Neutral Voltage Analysis for Broken Rotor Bars Detection in Induction Motors Using Hilbert Transform Phase. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	3
32	Sensorless high-order super twisting sliding modes vector control for induction motor drives. , 2016, , .		3
33	Sensorless high-order sliding modes vector control for induction motor drive with a new adaptive speed observer using super-twisting strategy. International Journal of Computer Applications in Technology, 2019, 60, 144.	0.5	3
34	Real-Time Emulation of a Grid-Connected Wind Energy Conversion System Based Double Fed Induction Generator Configuration under Random Operating Modes. European Journal of Electrical Engineering, 2021, 23, 207-219.	0.3	3
35	Improved Super Twisting Based High Order Direct Power Sliding Mode Control of a Connected DFIG Variable Speed Wind Turbine. Periodica Polytechnica Electrical Engineering and Computer Science, 2021, 65, 352-372.	1.0	3
36	Study and Simulation of Direct Torque Control of Double-Star Induction Motor Drive. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
37	Digital vector control of a six-phase series-connected two-motor drive. , 2008, , .		2
38	Optimal hybrid vehicle, embedded data acquisition and tracking. , 2012, , .		2
39	Grid Side Inverter Control for a Grid Connected Synchronous Generator Based Wind Turbine Experimental Emulator. European Journal of Electrical Engineering, 2021, 23, 1-7.	0.3	2
40	Position estimation of linear synchronous motor using Hall-effect sensors and a MEMS accelerometer. , 2013, , .		1
41	Development of a data acquisition and tracking system for vehicles. , 2014, , .		1
42	Direct Torque Control for Induction Machine Drive based on Sliding Mode Controller with a New Adaptive Speed Observer. , 2018, , .		1
43	Vertical Displacement Sliding Mode Control of a Half-Vehicle Active Suspension. , 2018, , .		1
44	Prototyping of photovoltaic grid-tie inverter with active and reactive power injection. , 2019, , .		1
45	L'Évaluation magnétique, une approche objet-projet. J3eA, 2010, 9, 0002.	0.0	1
46	Improvement of Direct Torque Control Performances for Induction Machine Using a Robust Backstepping Controller and a New Stator Resistance Compensator. European Journal of Electrical Engineering, 2020, 22, 137-144.	0.3	1
47	Matrix converter prototype for motor drive. , 2015, , .		0
48	Real time emulator for parallel connected dual-PMSM sensorless control. International Journal of Power Electronics and Drive Systems, 2021, 12, 1390.	0.6	0
49	Sensorless high-order sliding modes vector control for induction motor drive with a new adaptive speed observer using super-twisting strategy. International Journal of Computer Applications in Technology, 2019, 60, 144.	0.5	0