

# Luigi Alberti

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

1,306  
citations

20  
h-index

33  
g-index

106  
ext. papers

1,650  
ext. citations

4.1  
avg. IF

5.06  
L-index

#	Paper	IF	Citations
92	Feasibility Evaluation of Hybrid Electric Agricultural Tractors Based on Life Cycle Cost Analysis. <i>IEEE Access</i> , <b>2022</b> , 10, 28853-28867	3.5	0
91	Start and stop systems on agricultural tractors as solution for saving fuel and emissions. <i>Biosystems Engineering</i> , <b>2022</b> , 216, 108-120	4.8	0
90	Sensorless Drive for Salient Synchronous Motors based on Direct Fitting of Elliptical-Shape High-Frequency Currents. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
89	Electrification of Agricultural Machinery: A Review. <i>IEEE Access</i> , <b>2021</b> , 9, 164520-164541	3.5	3
88	Online Incremental Inductance Identification for Reluctance Synchronous Motors <b>2021</b> ,		1
87	Electric Drives for Hybrid Electric Agricultural Tractors <b>2021</b> ,		3
86	Design of Electric Motors and Power Drive Systems According to Efficiency Standards. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9287-9296	8.9	6
85	Computation of Self-Sensing Capabilities of Synchronous Machines for Rotating High Frequency Voltage Injection Sensorless Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	7
84	Measures and Simulations of Induction Machines Flux Linkage Characteristics Based on Rotor Field Orientation. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 4686-4693	4.3	2
83	Case of Study of the Electrification of a Tractor: Electric Motor Performance Requirements and Design. <i>Energies</i> , <b>2020</b> , 13, 2197	3.1	8
82	Direct Analysis of Three-Phase Induction Motor Considering Rotor Parameters Variation and Stator Belt Harmonics Effect. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 3559-3570	4.3	1
81	Efficient QR Updating Factorization for Sensorless Synchronous Motor Drive Based on High Frequency Voltage Injection. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 10213-10222	8.9	9
80	Implementation and experimental validation of ultra-high speed PMSM sensor-less control by means of extended Kalman filter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 1-1	5.6	5
79	A Feasibility Study for Agriculture Tractors Electrification: Duty Cycles Simulation and Consumption Comparison <b>2019</b> ,		5
78	Challenges of the Optimization of a High-Speed Induction Machine for Naval Applications. <i>Energies</i> , <b>2019</b> , 12, 2431	3.1	7
77	Induction Motor Analysis Using Magnetostatic Finite Element Simulations Considering Skewing <b>2019</b> ,		7
76	Self-Adaptive High-Frequency Injection Based Sensorless Control for Interior Permanent Magnet Synchronous Motor Drives. <i>Energies</i> , <b>2019</b> , 12, 3645	3.1	6

75	Electrification of agricultural machinery: a feasibility evaluation <b>2019</b> ,		8
74	On The Efficiency Requirements For Electrical Motors and Power Electronics in Complete Drive Systems <b>2019</b> ,		1
73	Induction Motor Mapping Using Rotor Field-Oriented Analysis Technique <b>2019</b> ,		5
72	An Effective Ellipse Fitting Technique of the Current Response Locus to Rotating HF Voltage Injection in IPMSM for Sensorless Rotor Position Estimation <b>2018</b> ,		5
71	<b>2018</b> ,		9
70	Koil: A Tool to Design the Winding of Rotating Electric Machinery <b>2018</b> ,		5
69	A Fast and Direct Analysis of Three-Phase Induction Motors Using Finite Element <b>2018</b> ,		8
68	. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 3548-3556	4-3	20
67	Finite Element Small-Signal Simulation of Electromagnetic Devices Considering Eddy Currents in the Laminations. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-8	2	7
66	Synchronous motors for traction applications <b>2017</b> ,		7
65	Self-adaptive high-frequency injection based sensorless control for IPMSM and SynRM <b>2017</b> ,		3
64	Notice of Removal: Electrical machine analysis using free software <b>2017</b> ,		4
63	Investigation on the frequency effects on iron losses in laminations <b>2017</b> ,		2
62	Parameters identification of multi-windings induction machines <b>2016</b> ,		1
61	Design and Tests of a Four-Layer Fractional-Slot Interior Permanent-Magnet Motor. <i>IEEE Transactions on Industry Applications</i> , <b>2016</b> , 52, 2234-2240	4-3	13
60	Analysis and Test of the Sensorless Capability of Induction Motors With Created Saliency. <i>IEEE Transactions on Industry Applications</i> , <b>2016</b> , 52, 2186-2193	4-3	1
59	A computational technique for iron losses in electrical machines <b>2016</b> ,		2
58	Sensorless control of a super-high speed synchronous motor drive based on a Kalman filter <b>2016</b> ,		3

57	Energy efficiency improvement adopting synchronous motors. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2015</b> , 34, 76-91	0.7	3
56	Design and tests of a four-layer fractional-slot Interior Permanent Magnet motor <b>2015</b> ,		1
55	High-Frequency $d$ - $q$ Model of Synchronous Machines for Sensorless Control. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 3923-3931	4.3	13
54	Computation and measurement of high frequency parameters in a synchronous machine <b>2015</b> ,		3
53	Core Axial Lengthening as Effective Solution to Improve the Induction Motor Efficiency Classes. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 218-225	4.3	30
52	Design of a Low-Torque-Ripple Fractional-Slot Interior Permanent-Magnet Motor. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 1801-1808	4.3	50
51	Analysis and Tests of the Sensorless Rotor Position Detection of Ringed-Pole Permanent-Magnet Motor. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 3278-3284	4.3	10
50	Design of small-size generator for variable speed micro-hydroelectric power plants <b>2014</b> ,		3
49	Performance Comparison Between Switching-Flux and IPM Machines With Rare-Earth and Ferrite PMs. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 3708-3716	4.3	93
48	High frequency $d$ - $q$ model of synchronous machines for sensorless control <b>2014</b> ,		1
47	Finite-Element Analysis of Electrical Machines for Sensorless Drives With High-Frequency Signal Injection. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 1871-1879	4.3	17
46	<b>2014</b> ,		4
45	Energy efficiency improvement adopting synchronous motors <b>2013</b> ,		3
44	Investigation on the self-sensing capability of a fractional-slot inset PM motor <b>2013</b> ,		4
43	. <i>IEEE Transactions on Industry Applications</i> , <b>2013</b> , 49, 1523-1530	4.3	21
42	Theory and Design of Fractional-Slot Multilayer Windings. <i>IEEE Transactions on Industry Applications</i> , <b>2013</b> , 49, 841-849	4.3	117
41	Considerations on Selecting Fractional-Slot Nonoverlapped Coil Windings. <i>IEEE Transactions on Industry Applications</i> , <b>2013</b> , 49, 1316-1324	4.3	46
40	Comparison of different synchronous machines for sensorless drives <b>2013</b> ,		9

39	Impact of the Rotor Yoke Geometry on Rotor Losses in Permanent-Magnet Machines. <i>IEEE Transactions on Industry Applications</i> , <b>2012</b> , 48, 98-105	4.3	30
38	Performance comparison between switching-flux and IPM machine with rare earth and ferrite PMs <b>2012</b> ,		27
37	Analysis and tests of the sensorless rotor position detection of ringed-pole PM motor <b>2012</b> ,		7
36	Experimental Tests of Dual Three-Phase Induction Motor Under Faulty Operating Condition. <i>IEEE Transactions on Industrial Electronics</i> , <b>2012</b> , 59, 2041-2048	8.9	91
35	Design and tests on a fractional-slot induction machine <b>2012</b> ,		9
34	Design of a low torque ripple fractional-slot interior permanent magnet motor <b>2012</b> ,		25
33	Small-signal finite-element modeling of synchronous machines for sensorless applications <b>2012</b> ,		10
32	Finite-element analysis of electrical machines for sensorless drives with signal injection <b>2012</b> ,		6
31	Effect of the generator sizing on a wave energy converter considering different control strategies. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2012</b> , 32, 233-247	0.7	5
30	Theory and design of fractional-slot multilayer windings <b>2011</b> ,		18
29	Finite element estimation of induction motor parameters for sensorless applications. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2011</b> , 31, 191-205	0.7	2
28	Fast Estimation of Line-Start Reluctance Machine Parameters by Finite Element Analysis. <i>IEEE Transactions on Energy Conversion</i> , <b>2011</b> , 26, 1-8	5.4	37
27	Rotor Losses Measurements in an Axial Flux Permanent Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , <b>2011</b> , 26, 639-645	5.4	41
26	. <i>IEEE Transactions on Industry Applications</i> , <b>2011</b> , 47, 789-797	4.3	36
25	Interior permanent magnet integrated starter-alternator. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2011</b> , 30, 117-136	0.7	1
24	Thermal analysis of dual three-phase machines under faulty operations <b>2011</b> ,		7
23	Core axial lengthening as effective solution to improve the induction motor efficiency classes <b>2011</b> ,		3
22	A design-oriented model of doubly-fed induction machine <b>2011</b> ,		2

21	Impact of the rotor yoke geometry on rotor losses in permanent magnet machines <b>2010</b> ,		7
20	Considerations on selecting fractional slot windings <b>2010</b> ,		23
19	MMF Harmonics Effect on the Embedded FE Analytical Computation of PM Motors. <i>IEEE Transactions on Industry Applications</i> , <b>2010</b> , 46, 812-820	4-3	47
18	IPM Machine Drive Design and Tests for an Integrated Starter-Alternator Application. <i>IEEE Transactions on Industry Applications</i> , <b>2010</b> , 46, 993-1001	4-3	35
17	Finite element modeling of induction motor for variable speed drives. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2010</b> , 29, 1245-1256	0-7	3
16	Impact of winding arrangement in dual 3-phase induction motor for fault tolerant applications <b>2010</b> ,		14
15	IM rotor parameters analysis with an intentionally created saliency <b>2010</b> ,		4
14	A finite-element procedure to compute variable speed induction machine performance <b>2009</b> ,		3
13	Analysis of asynchronous machines for direct drive wind power generation <b>2009</b> ,		6
12	Design and Control of an Axial-Flux Machine for a Wide Flux-Weakening Operation Region. <i>IEEE Transactions on Industry Applications</i> , <b>2009</b> , 45, 1258-1266	4-3	42
11	A Very Rapid Prediction of IM Performance Combining Analytical and Finite-Element Analysis. <i>IEEE Transactions on Industry Applications</i> , <b>2008</b> , 44, 1505-1512	4-3	45
10	A Coupled Thermal-Electromagnetic Analysis for a Rapid and Accurate Prediction of IM Performance. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 3575-3582	8-9	83
9	Thermal assisted finite element analysis of electrical machines <b>2008</b> ,		3
8	Energy supplying of high altitude isolated users <b>2008</b> ,		1
7	Finite element modeling of induction motor for variable speed drives <b>2008</b> ,		2
6	Field oriented control of induction motor: A direct analysis using finite element <b>2008</b> ,		7
5	Effective control of an Integrated Starter-Alternator with an IPM synchronous machine. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		3
4	Lamination Design of a Set of Induction Motors for Elevator Systems <b>2007</b> ,		2

3	A rapid prediction of IM performance using a combined analytical and finite element analysis <b>2007,</b>	3
2	MMF Harmonics Effect on the Embedded FE-Analytical Computation of PM Motors. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>	2
1	MMF Harmonics Effect on the Embedded FE-Analytical Computation of PM Motors. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,</i>	8