Richard Stephan

List of Publications by Year
in descending order

76 papers	1,737 citations	304743 22 h-index	302126 39 g-index
77 all docs	77 docs citations	77 times ranked	808 citing authors

#	Article	IF	Citations
1	Hardware-in-the-loop development of a heaving point absorber wave energy converter using inertia emulation. Electrical Engineering, 2021, 103, 2675-2684.	2.0	4
2	Overview of Electrodynamic Levitation Technique Applied to Maglev Vehicles. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	7
3	Preliminary Design of a Mid-Range Superconducting Wireless Power Transfer System for Magnetic Levitation Vehicles: Application to the MagLev-Cobra. , 2021, , .		5
4	Maglev-Cobra: da Universidade para a Sociedade. , 2021, 1, .		0
5	Design and Innovative Test of a Linear Induction Motor for Urban MagLev Vehicles. IEEE Transactions on Industry Applications, 2020, 56, 6949-6956.	4.9	12
6	Vibration analysis of a superconducting magnetic bearing under different temperatures. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, 119-131.	0.6	0
7	The Vital Contribution of MagLev Vehicles for the Mobility in Smart Cities. Electronics (Switzerland), 2020, 9, 978.	3.1	13
8	Optimized Linear Motor for Urban Superconducting Magnetic Levitation Vehicles. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-8.	1.7	9
9	Study of a Null-Flux Suspension System Using Permanent Magnet Halbach Arrays. , 2020, , .		1
10	Development of a Linear Motor for Urban Magnetically Levitated Vehicles Using an Innovative Workbench Topology. , 2019, , .		1
11	Didactic System for Control of Electrical Machines in Education and Research Laboratories. , 2019, , .		1
12	Operation Boundaries of a Single Phase Thyristor Driven DC-Motor. , 2019, , .		0
13	Cascade Control vs Full-State Feedback. , 2019, , .		2
14	Air Cushion Vehicle (ACV): History Development and Maglev Comparison. Transportation Systems and Technology, 2019, 5, 5-25.	0.4	1
15	UFRJ Campus: A City of Innovative Mobility. World Sustainability Series, 2018, , 371-384.	0.4	1
16	Characterization of levitation force for a superconducting magnetic levitation vehicle. Transportation Systems and Technology, 2018, 4, 124-133.	0.4	3
17	Retrospective and perspectives of the superconducting magnetic levitation (sml) technology applied to urban transportation. Transportation Systems and Technology, 2018, 4, 195-202.	0.4	5
18	Position and current controller design for an electromagnetic levitation platform. , 2017, , .		1

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19	Brushless cascaded doubly-fed induction machine: Modeling and simulation. , 2017, , .		2
20	Projeto MagLev Cobra - LevitaÃ§Ã£o Supercondutora para Transporte Urbano. Revista Brasileira De Ensino De Fisica, 2016, 38, .	0.2	1
21	Designing, simulations and experiments of a passive permanent magnet bearing. International Journal of Applied Electromagnetics and Mechanics, 2016, 51, 131-149.	0.6	8
22	Tests with a hybrid bearing for a flywheel energy storage system. Superconductor Science and Technology, 2016, 29, 095016.	3.5	13
23	MagLev-Cobra Operational Tests. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	75
24	Wind turbine generator system based on Cascaded Doubly Fed Induction Generator. , 2015, , .		0
25	Finite element analysis of the forces developed on linear induction motors. , 2015, , .		7
26	A Full Scale Superconducting Magnetic Levitation (MagLev) Vehicle Operational Line. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	141
27	Stator flux orientation control of the cascaded Doubly Fed Induction machine. , 2015, , .		5
28	Maglev-cobra: an urban transportation system For highly populated cityes. Transportation Systems and Technology, 2015, 1, 16-25.	0.4	5
29	MagLev Cobra: Test Facilities and Operational Experiments. Journal of Physics: Conference Series, 2014, 507, 032017.	0.4	36
30	Tests With One Module of the Brazilian Maglev-Cobra Vehicle. IEEE Transactions on Applied Superconductivity, 2013, 23, 3601204-3601204.	1.7	50
31	Emulation of a Full Scale MagLev Vehicle Behavior Under Operational Conditions. IEEE Transactions on Applied Superconductivity, 2013, 23, 3601105-3601105.	1.7	24
32	Regenerative braking of a linear induction motor used for the traction of a MagLev vehicle. , 2013, , .		2
33	Dynamic Tests of an Optimized Linear Superconducting Levitation System. IEEE Transactions on Applied Superconductivity, 2013, 23, 3600504-3600504.	1.7	21
34	Force and current characteristics of a linear induction motor used for the traction of a MagLev vehicle. , 2013, , .		1
35	Superconducting Light Rail Vehicle: A Transportation Solution for Highly Populated Cities. IEEE Vehicular Technology Magazine, 2012, 7, 122-127.	3.4	57
36	Dynamical Tests in a Linear Superconducting Magnetic Bearing. Physics Procedia, 2012, 36, 1049-1054.	1.2	26

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37	Operational Tests of a Full Scale Superconducting MagLevehicle Unit. Physics Procedia, 2012, 36, 943-947.	1.2	14
38	Electromagnetic Levitation of a Disc. IEEE Transactions on Education, 2012, 55, 248-254.	2.4	7
39	Modelo para gestÃ£o ambiental de sistemas de transporte urbano por levitaÃ§Ã£o magnÃ©tica com aplicaÃ§Ã£o da teoria fuzzy. Journal of Transport Literature, 2012, 6, 152-179.	0.3	1
40	Synchronized operation of a Magnetically Levitated vehicle. , 2011, , .		0
41	Experimental and Theoretical Levitation Forces in a Superconducting Bearing for a Real-Scale Maglev System. IEEE Transactions on Applied Superconductivity, 2011, 21, 3532-3540.	1.7	44
42	Optimization of a Linear Superconducting Levitation System. IEEE Transactions on Applied Superconductivity, 2011, 21, 3548-3554.	1.7	45
43	Tests on a Superconductor Linear Magnetic Bearing of a Full-Scale MagLev Vehicle. IEEE Transactions on Applied Superconductivity, 2011, 21, 1464-1468.	1.7	68
44	A Didactic Comparison of Magnetic Forces. International Journal of Electrical Engineering and Education, 2011, 48, 117-129.	0.8	2
45	Experiments in a real scale maglev vehicle prototype. Journal of Physics: Conference Series, 2010, 234, 032054.	0.4	33
46	Steady state analysis of the Doubly Fed Cascaded Induction Machine. , 2010, , .		0
47	Simulations and Tests of Superconducting Linear Bearings for a MAGLEV Prototype. IEEE Transactions on Applied Superconductivity, 2009, 19, 2120-2123.	1.7	28
48	Operating points of a doubly fed cascaded induction machine. , 2009, , .		6
49	Flywheel Energy Storage System Description and Tests. IEEE Transactions on Applied Superconductivity, 2007, 17, 2154-2157.	1.7	43
50	Voltage Sags Compensation Using a Superconducting Flywheel Energy Storage System. IEEE Transactions on Applied Superconductivity, 2005, 15, 2265-2268.	1.7	27
51	A superconducting high-speed flywheel energy storage system. Physica C: Superconductivity and Its Applications, 2004, 408-410, 930-931.	1.2	20
52	A superconducting levitation vehicle prototype. Physica C: Superconductivity and Its Applications, 2004, 408-410, 932-934.	1.2	49
53	Levitation force and stability of superconducting linear bearings using NdFeB and ferrite magnets. Physica C: Superconductivity and Its Applications, 2003, 386, 490-494.	1.2	34
54	Performance of Nd-Fe-B and ferrite magnets in superconducting linear bearings with bulk YBCO. IEEE Transactions on Applied Superconductivity, 2003, 13, 2271-2274.	1.7	23

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55	Vector control methods for induction machines: an overview. IEEE Transactions on Education, 2001, 44, 170-175.	2.4	66
56	Development of hybrid bearing system with thrust superconducting magnetic bearing and radial active electromagnetic bearing. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2509-2512.	1.2	4
57	Superconducting-electromagnetic hybrid bearing using YBCO bulk blocks for passive axial levitation. Superconductor Science and Technology, 2000, 13, 870-874.	3.5	4
58	Hybrid bearing for induction machine with controlled electromagnetic positioning and superconducting levitation. IEEE Transactions on Magnetics, 2000, 36, 3693-3695.	2.1	2
59	Modeling adjustable-speed drives with long feeders. IEEE Transactions on Industrial Electronics, 2000, 47, 549-556.	7.9	29
60	Superconducting axial bearing for induction machines with active radial magnetic bearings. IEEE Transactions on Applied Superconductivity, 1999, 9, 964-967.	1.7	13
61	Analysis and control of a loaded bearingless machine. IEEE Transactions on Magnetics, 1999, 35, 3998-4000.	2.1	11
62	Establishing Photovoltaic (PV) Education in RIO DE JANEIRO. International Journal of Electrical Engineering and Education, 1998, 35, 139-146.	0.8	2
63	Comparing the indirect field-oriented control with a scalar method. IEEE Transactions on Industrial Electronics, 1994, 41, 201-207.	7.9	18
64	An efficient controller for an adjustable speed induction motor drive. IEEE Transactions on Industrial Electronics, 1994, 41, 533-539.	7.9	156
65	New concepts of instantaneous active and reactive powers in electrical systems with generic loads. IEEE Transactions on Power Delivery, 1993, 8, 697-703.	4.3	284
66	A bearingless method for induction machines. IEEE Transactions on Magnetics, 1993, 29, 2965-2967.	2.1	46
67	Colonoscopic impaction in left colon strictures resulting in right colon pneumatic perforation. Surgical Endoscopy and Other Interventional Techniques, 1992, 6, 273-276.	2.4	30
68	A simple model for a thyristor-driven DC motor considering continuous and discontinuous current modes. IEEE Transactions on Education, 1991, 34, 330-335.	2.4	6
69	Adaptive and robust cascade schemes for thyristor driven DC-motor speed control. Automatica, 1991, 27, 449-461.	5.0	15
70	A magnetic bearing system using capacitive sensors for position measurement. IEEE Transactions on Magnetics, 1990, 26, 2541-2543.	2.1	29
71	Cascade adaptive speed control off a thyristor-driven DC motor. IEE Proceedings D: Control Theory and Applications, 1988, 135, 49.	0.4	10
72	Hybrid bearing for induction machine with controlled electromagnetic positioning and superconducting levitation. , 0, , .		0

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73	Compensating characteristics of a brushless doubly-fed machine. , 0, , .		4
74	Comparison of overvoltage mitigation methods in industrial drives with long cables. , 0, , .		3
75	A superconducting levitated small scale vehicle with linear synchronous motor. , 0, , .		3
76	UFRJ power electronics teaching lab: ten years. , 0, , .		2