

Johannes J H Paulides

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1613528/publications.pdf>

Version: 2024-02-01

70
papers

1,599
citations

331538

21
h-index

315616

38
g-index

70
all docs

70
docs citations

70
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Electromagnetic Suspension System for Improved Vehicle Dynamics. IEEE Transactions on Vehicular Technology, 2010, 59, 1156-1163.	3.9	192
2	Efficiency of a Regenerative Direct-Drive Electromagnetic Active Suspension. IEEE Transactions on Vehicular Technology, 2011, 60, 1384-1393.	3.9	143
3	Modeling of Flux Switching Permanent Magnet Machines With Fourier Analysis. IEEE Transactions on Magnetics, 2010, 46, 1499-1502.	1.2	102
4	Robust control of an electromagnetic active suspension system: Simulations and measurements. Mechatronics, 2013, 23, 204-212.	2.0	99
5	Design Aspects of an Active Electromagnetic Suspension System for Automotive Applications. IEEE Transactions on Industry Applications, 2009, 45, 1589-1597.	3.3	96
6	Halbach Permanent Magnet Shape Selection for Slotless Tubular Actuators. IEEE Transactions on Magnetics, 2008, 44, 4305-4308.	1.2	90
7	Analytical and Numerical Techniques for Solving Laplace and Poisson Equations in a Tubular Permanent-Magnet Actuator: Part I. Semi-Analytical Framework. IEEE Transactions on Magnetics, 2008, 44, 1751-1760.	1.2	47
8	Design Considerations for a Semi-Active Electromagnetic Suspension System. IEEE Transactions on Magnetics, 2006, 42, 3446-3448.	1.2	43
9	Analytical and Numerical Techniques for Solving Laplace and Poisson Equations in a Tubular Permanent Magnet Actuator: Part II. Schwarzâ€™Christoffel Mapping. IEEE Transactions on Magnetics, 2008, 44, 1761-1767.	1.2	40
10	Electromagnetic and Thermal Design of a Linear Actuator Using Output Polynomial Space Mapping. IEEE Transactions on Industry Applications, 2008, 44, 534-542.	3.3	40
11	An Evaluation of Alternative Stator Lamination Materials for a High-Speed, 1.5 MW, Permanent Magnet Generator. IEEE Transactions on Magnetics, 2004, 40, 2041-2043.	1.2	35
12	Three-Dimensional Analytical Calculation of the Torque Between Permanent Magnets in Magnetic Bearings. IEEE Transactions on Magnetics, 2010, 46, 1748-1751.	1.2	35
13	Relative Permeability in a 3D Analytical Surface Charge Model of Permanent Magnets. IEEE Transactions on Magnetics, 2013, 49, 2299-2302.	1.2	32
14	Comparative analysis of various methods for modelling surface permanent magnet machines. IET Electric Power Applications, 2017, 11, 540-547.	1.1	32
15	Aggressive Output Space-Mapping Optimization for Electromagnetic Actuators. IEEE Transactions on Magnetics, 2008, 44, 1106-1109.	1.2	31
16	Analytical Calculation of Interaction Force Between Orthogonally Magnetized Permanent Magnets. Sensor Letters, 2009, 7, 442-445.	0.4	31
17	Modeling and Experimental Verification of a Tubular Actuator for 20-g Acceleration in a Pick-and-Place Application. IEEE Transactions on Industry Applications, 2010, 46, 1891-1898.	3.3	28
18	Three-Dimensional Magnetic Field Modeling of a Cylindrical Halbach Array. IEEE Transactions on Magnetics, 2010, 46, 1733-1736.	1.2	25

#	ARTICLE	IF	CITATIONS
19	Design study on a magnetic gravity compensator with unequal magnet arrays. Mechatronics, 2013, 23, 197-203.	2.0	24
20	Toward Accurate Design of a Transverse Flux Machine Using an Analytical 3-D Magnetic Charge Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	23
21	Fault-Tolerant Operation of a Fully Electric Gearbox Equivalent. IEEE Transactions on Industry Applications, 2012, 48, 1855-1865.	3.3	22
22	Energy Conversion in DC Excited Flux-Switching Machines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	22
23	An overview of analytical methods for magnetic field computation. , 2015, , .		22
24	B-Spline Neural Network Approach to Inverse Problems in Switched Reluctance Motor Optimal Design. IEEE Transactions on Magnetics, 2011, 47, 4179-4182.	1.2	19
25	Automated Design of DC-Excited Flux-Switching In-Wheel Motor Using Magnetic Equivalent Circuits. IEEE Transactions on Magnetics, 2015, 51, 1-11.	1.2	18
26	Semi-Analytical Calculation of the Armature Reaction in Slotted Tubular Permanent Magnet Actuators. IEEE Transactions on Magnetics, 2008, 44, 3213-3216.	1.2	17
27	Design Considerations for Coreless Linear Actuators. IEEE Transactions on Magnetics, 2013, 49, 2271-2274.	1.2	15
28	Passive Limitations for a Magnetic Gravity Compensator. Journal of System Design and Dynamics, 2009, 3, 671-680.	0.3	14
29	Influence of Multiple Air Gaps on the Performance of Electrical Machines With (Semi) Halbach Magnetization. IEEE Transactions on Magnetics, 2011, 47, 2664-2667.	1.2	14
30	STUDY OF MAGNETIC GRAVITY COMPENSATOR TOPOLOGIES USING AN ABSTRACTION IN THE ANALYTICAL INTERACTION EQUATIONS. Progress in Electromagnetics Research, 2012, 128, 75-90.	1.6	14
31	Hybrid Excited Synchronous Machines. IEEE Transactions on Magnetics, 2022, 58, 1-10.	1.2	14
32	Analytical Modeling of Flux-Switching In-Wheel Motor Using Variable Magnetic Equivalent Circuits. ISRN Automotive Engineering, 2014, 2014, 1-10.	0.8	13
33	Modeling and Optimization of a Tubular Generator for Vibration Energy Harvesting Application. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	13
34	Design Aspects of an Active Electromagnetic Suspension System for Automotive Applications. , 2008, , .		12
35	3D analytical field calculation using triangular magnet segments applied to a skewed linear permanent magnet actuator. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 984-993.	0.5	12
36	Human-powered small-scale generation system for a sustainable dance club. , 2009, , .		11

#	ARTICLE	IF	CITATIONS
37	Overload Capability of Linear Flux Switching Permanent Magnet Machines. Applied Mechanics and Materials, 0, 416-417, 345-352.	0.2	10
38	Sinusoidal Behavior of a Dipole Magnetization for Position Sensing Applications. IEEE Transactions on Magnetics, 2006, 42, 3294-3296.	1.2	9
39	Comparison of Two Anisotropic Layer Models Applied to Induction Motors. IEEE Transactions on Industry Applications, 2014, 50, 2533-2543.	3.3	9
40	Winding topologies of flux-switching motors for in-wheel traction. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 32-45.	0.5	9
41	Eddy-Current Losses in Laminated and Solid Steel Stator Back Iron in a Small Rotary Brushless Permanent-Magnet Actuator. IEEE Transactions on Magnetics, 2008, 44, 4373-4376.	1.2	7
42	Power From the People. IEEE Industry Applications Magazine, 2011, 17, 20-26.	0.3	7
43	Comparative analysis of the SRM as an alternative to the PM motor for automotive applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1599-1612.	0.5	7
44	Green turbine: A high speed double turbine solution for sustainable energy harvesting from waste heat. , 2015, , .		7
45	Operating Range Advancement of a Dual-Inverter Driven Machine Through Voltage Range Enhancement. IEEE Transactions on Transportation Electrification, 2016, 2, 322-334.	5.3	7
46	Modeling the Field of a Coil Using the Magnetic Charge Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	7
47	Electromagnetic and Thermal Design of a Linear Actuator Using Output Polynomial Mapping. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	6
48	Bearing lifetime of linear PM machines. , 2009, , .		6
49	Small-scale urban Venturi wind turbine: Direct-drive generator. , 2009, , .		6
50	ADEPT: "Advanced electric powertrain technology" Virtual and hardware platforms. , 2015, , .		6
51	Active roll compensation for automotive applications using a brushless direct-drive linear permanent magnet actuator. , 0, , .		5
52	Semi-analytical 3-D magnetic charge model for force calculation of a Transverse Flux Machine. , 2015, , .		5
53	Electrical machines: Turn-to-turn capacitance in formed windings with rectangular cross-section wire. , 2015, , .		5
54	A fast semi-analytical model for the slotted structure of induction motors. Mathematics and Computers in Simulation, 2017, 131, 316-327.	2.4	5

#	ARTICLE	IF	CITATIONS
55	Modeling of magnetization patterns for 2-DoF rotary-linear actuators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1428-1440.	0.5	4
56	Modeling the Effects of Magnetization Variations on a Permanent Magnet Based Levitation or Vibration Isolation System. Applied Mechanics and Materials, 0, 416-417, 366-372.	0.2	4
57	Automated design of DC-excited flux-switching in-wheel motor using magnetic equivalent circuits. , 2014, , .		4
58	Electrical machines: Comparison of existing analytical models and FEM for calculation of turn-to-turn capacitance in formed windings. , 2016, , .		4
59	Boundary-Free Analytic Magnetic Field Calculations Including Soft Iron and Permanent Magnets Using an Iterative Discretization Technique. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	4
60	Reluctance network model for the in-wheel motor of a series-hybrid truck using Tooth Contour Method. , 2010, , .		3
61	InMotion hybrid racecar: F1 performance with LeMans endurance. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 210-233.	0.5	3
62	Fast Component Placement with Optimized Long-Stroke Passive Gravity Compensation Integrated in a Cylindrical/Tubular PM Actuator. Journal of International Conference on Electrical Machines and Systems, 2013, 2, 275-282.	0.3	3
63	A comparison between cylindrical and cross-shaped magnetic vibration isolators: ideal and practical. Archives of Electrical Engineering, 2015, 64, 593-604.	1.0	2
64	Semi-analytical analysis of rotating and Linear Flux-Switching PM Machines including skewing. , 2017, , .		2
65	Comparison of two Anisotropic Layer models applied to induction motors. , 2013, , .		1
66	Nonlinear Performance Characteristics of Flux-Switching PM Motors. Journal of Engineering (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	1
67	Electromagnetic Actuators for Gravity Compensation and Vibration Isolation. Sensor Letters, 2009, 7, 360-363.	0.4	1
68	3D analytical and numerical modeling of skewed tubular magnet arrays. , 2010, , .		0
69	3D field effects in tubular permanent magnet actuators with quasi-Halbach magnetization. , 2010, , .		0
70	InMotion: Hybrid race car, beating F1 at LeMans. , 2013, , .		0