

Antonios G Kladas

List of Publications by Year in descending order

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117
papers

2,323
citations

218677

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243625

44
g-index

117
all docs

117
docs citations

117
times ranked

1877
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformer Design and Optimization: A Literature Survey. IEEE Transactions on Power Delivery, 2009, 24, 1999-2024.	4.3	132
2	Internal Permanent Magnet Motor Design for Electric Vehicle Drive. IEEE Transactions on Industrial Electronics, 2010, 57, 138-145.	7.9	126
3	Implementation of photovoltaic array MPPT through fixed step predictive control technique. Renewable Energy, 2011, 36, 2508-2514.	8.9	126
4	Fast Photovoltaic-System Voltage- or Current-Oriented MPPT Employing a Predictive Digital Current-Controlled Converter. IEEE Transactions on Industrial Electronics, 2013, 60, 5673-5685.	7.9	106
5	Harmonic Impact on Distribution Transformer No-Load Loss. IEEE Transactions on Industrial Electronics, 2010, 57, 193-200.	7.9	100
6	Development of a Constant Switching Frequency Deadbeat Predictive Control Technique for Field-Oriented Synchronous Permanent-Magnet Motor Drive. IEEE Transactions on Industrial Electronics, 2016, 63, 5167-5175.	7.9	97
7	Power transformer thermal analysis by using an advanced coupled 3D heat transfer and fluid flow FEM model. International Journal of Thermal Sciences, 2012, 53, 188-201.	4.9	79
8	Thermal Investigation of Permanent-Magnet Synchronous Motor for Aerospace Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 4404-4411.	7.9	78
9	Fast Adaptive Evolutionary PM Traction Motor Optimization Based on Electric Vehicle Drive Cycle. IEEE Transactions on Vehicular Technology, 2017, 66, 5762-5774.	6.3	75
10	Global Transformer Optimization Method Using Evolutionary Design and Numerical Field Computation. IEEE Transactions on Magnetics, 2009, 45, 1720-1723.	2.1	68
11	Permanent-Magnet Shape Optimization Effects on Synchronous Motor Performance. IEEE Transactions on Industrial Electronics, 2011, 58, 3776-3783.	7.9	64
12	Induction Motors Versus Permanent-Magnet Actuators for Aerospace Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 4315-4325.	7.9	62
13	Power Generation Optimization From Sea Waves by Using a Permanent Magnet Linear Generator Drive. IEEE Transactions on Magnetics, 2008, 44, 1530-1533.	2.1	52
14	Multicriteria PM Motor Design Based on ANFIS Evaluation of EV Driving Cycle Efficiency. IEEE Transactions on Transportation Electrification, 2018, 4, 525-535.	7.8	50
15	Multiple Grade Lamination Wound Core: A Novel Technique for Transformer Iron Loss Minimization Using Simulated Annealing With Restarts and an Anisotropy Model. IEEE Transactions on Magnetics, 2008, 44, 1082-1085.	2.1	48
16	Geometry Optimization of PMSMs Comparing Full and Fractional Pitch Winding Configurations for Aerospace Actuation Applications. IEEE Transactions on Magnetics, 2012, 48, 943-946.	2.1	46
17	A Parallel Mixed Integer Programming-Finite Element Method Technique for Global Design Optimization of Power Transformers. IEEE Transactions on Magnetics, 2008, 44, 1022-1025.	2.1	41
18	Multiobjective Evolutionary Optimization of a Surface Mounted PM Actuator With Fractional Slot Winding for Aerospace Applications. IEEE Transactions on Magnetics, 2014, 50, 665-668.	2.1	40

#	ARTICLE	IF	CITATIONS
19	Artificial Intelligence Combined with Hybrid FEM-BE Techniques for Global Transformer Optimization. IEEE Transactions on Magnetics, 2007, 43, 1633-1636.	2.1	39
20	Analysis of Transformers Working Under Heavily Saturated Conditions in Grid-Connected Renewable-Energy Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 2342-2350.	7.9	39
21	Fault Tolerant Design of Fractional Slot Winding Permanent Magnet Aerospace Actuator. IEEE Transactions on Transportation Electrification, 2016, 2, 380-390.	7.8	39
22	Cogging Force Minimization in a Coupled Permanent Magnet Linear Generator for Sea Wave Energy Extraction Applications. IEEE Transactions on Magnetics, 2009, 45, 1246-1249.	2.1	36
23	Flux Distribution Analysis in Three-Phase Si-Fe Wound Transformer Cores. IEEE Transactions on Magnetics, 2010, 46, 594-597.	2.1	35
24	Global Transformer Design Optimization Using Deterministic and Nondeterministic Algorithms. IEEE Transactions on Industry Applications, 2014, 50, 383-394.	4.9	33
25	Power Transformer Economic Evaluation in Decentralized Electricity Markets. IEEE Transactions on Industrial Electronics, 2012, 59, 2329-2341.	7.9	30
26	Switching Frequency Impact on Permanent Magnet Motors Drive System for Electric Actuation Applications. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	28
27	A single-phase nine-level inverter for renewable energy systems employing model predictive control. Energy Conversion and Management, 2015, 89, 427-437.	9.2	27
28	Advanced design methodology for single and dual voltage wound core power transformers based on a particular finite element model. Electric Power Systems Research, 2006, 76, 729-741.	3.6	26
29	Robust Optimization of High-Speed PM Motor Design. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	24
30	Strength Pareto Evolutionary Optimization of an In-Wheel PM Motor With Unequal Teeth for Electric Traction. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	23
31	Finite-Element-Based Estimator for High-Performance Switched Reluctance Machine Drives. IEEE Transactions on Magnetics, 2009, 45, 1266-1269.	2.1	22
32	Hybrid Numerical-Analytical Technique for Power Transformer Thermal Modeling. IEEE Transactions on Magnetics, 2009, 45, 1408-1411.	2.1	22
33	Computer aided analysis and design of power transformers. Computers in Industry, 2008, 59, 338-350.	9.9	20
34	Energy efficiency improvement of water pumping system using synchronous reluctance motor fed by perovskite solar cells. International Journal of Energy Research, 2020, 44, 11629-11642.	4.5	19
35	Fuzzy logic based online electromagnetic loss minimization of permanent magnet synchronous motor drives. , 2008, , .		18
36	Velocity and Torque Limit Profile Optimization of Electric Vehicle Including Limited Overload. IEEE Transactions on Industry Applications, 2017, 53, 3907-3916.	4.9	18

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37	Flux distribution in single phase, Si-Fe, wound transformer cores. Journal of Magnetism and Magnetic Materials, 2008, 320, e874-e877.	2.3	17
38	Geometry optimization of electric shielding in power transformers based on finite element method. Journal of Materials Processing Technology, 2007, 181, 159-164.	6.3	16
39	Shaft Generator System Design and Ship Operation Improvement Involving SFOC Minimization, Electric Grid Conditioning, and Auxiliary Propulsion. IEEE Transactions on Transportation Electrification, 2016, 2, 558-569.	7.8	16
40	Energy efficient transformer selection Implementing life cycle costs and environmental externalities. , 2007, , .		15
41	Dynamic Finite Element Hysteresis Model for Iron Loss Calculation in Non-Oriented Grain Iron Laminations Under PWM Excitation. IEEE Transactions on Magnetics, 2011, 47, 1130-1133.	2.1	15
42	Transformer Joints FE Analysis Using Pseudo-Source Technique. IEEE Transactions on Magnetics, 2011, 47, 1058-1061.	2.1	14
43	Hybrid Multiobjective Optimization Algorithm for PM Motor Design. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	14
44	Particular Coupled Electromagnetic, Thermal, Mechanical Design of High-Speed Permanent-Magnet Motor. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	13
45	Hybrid Technique for Dynamic Modeling of the Performance of Linear Generators With Skewed Mounted Permanent Magnets. IEEE Transactions on Magnetics, 2011, 47, 906-909.	2.1	12
46	Performance evaluation of MPPT techniques for PV array incorporated into Electric Vehicle roof. , 2015, , .		12
47	Distribution transformer cooling system improvement by innovative tank panel geometries. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1021-1028.	2.9	11
48	Optimal Power Utilization by Adjusting Torque Boost and Field Weakening Operation in Permanent Magnet Traction Motors. IEEE Transactions on Energy Conversion, 2012, 27, 615-623.	5.2	11
49	Mixed Si-Fe Wound Cores Five Legged Transformer: Losses and Flux Distribution Analysis. IEEE Transactions on Magnetics, 2012, 48, 1609-1612.	2.1	11
50	Development of Distribution Transformers Assembled of Composite Wound Cores. IEEE Transactions on Magnetics, 2012, 48, 775-778.	2.1	10
51	Litz Wire Strand Shape Impact Analysis on AC Losses of High-Speed Permanent Magnet Synchronous Motors. , 2021, , .		10
52	Geometry optimization of solid rotor eddy current brake by using sensitivity analysis and 3D finite elements. Journal of Materials Processing Technology, 2005, 161, 363-367.	6.3	9
53	Analysis of End Zone Magnetic Field in Generators and Shield Optimization for Force Reduction on End Windings. IEEE Transactions on Magnetics, 2009, 45, 1470-1473.	2.1	9
54	Normal Flux Distribution at Step-Lap Joints of Si-Fe Wound Cores. Materials Science Forum, 0, 670, 284-290.	0.3	9

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55	Complete Software Package for Transformer Design Optimization and Economic Evaluation Analysis. Materials Science Forum, 0, 670, 535-546.	0.3	9
56	Modeling of interior permanent magnet machine using combined field-circuit analysis. , 2010, , .		9
57	Design of skewed mounted permanent magnet synchronous generators based on 2D and 3D finite element techniques. Journal of Materials Processing Technology, 2005, 161, 288-293.	6.3	8
58	Accurate Induction Motor Estimator Based on Magnetic Field Analysis. IEEE Transactions on Magnetics, 2008, 44, 1574-1577.	2.1	8
59	High torque Internal Permanent Magnet wheel motor for electric traction applications. , 2008, , .		8
60	Mixed Numerical Methodology for Evaluation of Low-Frequency Electric and Magnetic Fields Near Power Facilities. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	8
61	Robust numerical analysis of wound core distribution transformers. , 2008, , .		7
62	Reduction of Power Grid Losses by Using Energy Efficient Distribution Transformers. Materials Science Forum, 0, 721, 269-274.	0.3	7
63	Finite element transient thermal analysis of PMSM for aerospace applications. , 2012, , .		7
64	Core Vibration Analysis in Si-Fe Distributed Gap Wound Cores. IEEE Transactions on Magnetics, 2012, 48, 1617-1620.	2.1	7
65	Reduction of cost and losses of transformers by using composite magnetic cores. , 2014, , .		7
66	Wind Turbine Flicker Calculation Using Neural Networks. Wind Engineering, 2000, 24, 317-335.	1.9	6
67	A voltage source converter model for exchanging active and reactive power with a distribution network. Journal of Materials Processing Technology, 2005, 161, 128-135.	6.3	6
68	Laminated iron core losses evaluation and measurements. Journal of Materials Processing Technology, 2007, 181, 182-185.	6.3	6
69	Investigation of the Impact of the Operational Temperature on the Performance of a Surface Permanent Magnet Motor. Materials Science Forum, 0, 670, 259-264.	0.3	6
70	Design Considerations in Actuators for Aerospace Applications. IEEE Transactions on Magnetics, 2013, 49, 2249-2252.	2.1	6
71	Current waveform optimization techniques for synchronous machines and numerical evaluation in the case of a PMSM wind turbine generator. Electrical Engineering, 2017, 99, 525-533.	2.0	6
72	Comparison of field oriented versus model predictive torque control techniques for monitoring interior PM traction motor over wide speed range. , 2017, , .		6

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73	Economic evaluation of transformer selection in electrical power systems. , 2010, , .		5
74	Evolutionary optimization of Permanent Magnet machine design for traction applications. , 2010, , .		5
75	Liquid cooled permanent-magnet traction motor design considering temporary overloading. , 2012, , .		5
76	Lumped-Parameter Network Thermal Analysis of Permanent Magnet Synchronous Motor. Materials Science Forum, 0, 792, 233-238.	0.3	5
77	High performance traction motor design and construction for small passenger electric car. , 2010, , .		4
78	High Temperature Permanent Magnet Machine Actuators for Aerospace Applications. Materials Science Forum, 0, 721, 141-146.	0.3	4
79	Overview of the Alternative Topologies of Linear Generators in Wave Energy Conversion Systems. Materials Science Forum, 0, 721, 281-286.	0.3	4
80	Design considerations for cost effective Radial Flux Interior Permanent Magnet Motors with increased Demagnetization Robustness. , 2021, , .		4
81	On the Power Linesâ€™ Electromagnetic Shielding Using Magnetic Steel Laminates. Energies, 2021, 14, 7215.	3.1	4
82	Time Variation of Operational Characteristics for a Linear Permanent Magnet Synchronous Generator under Various Load Conditions. Materials Science Forum, 2010, 670, 252-258.	0.3	3
83	Advanced computational tools for wound core distribution transformer noâ€™load analysis. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 682-691.	0.9	3
84	Investigation of Magnet Arrangements in Double Layer Interior Synchronous Permanent Magnet Motor over Wide-Speed Range for Electric Vehicle Applications. Materials Science Forum, 0, 792, 379-384.	0.3	3
85	Hybrid multi-objective optimization algorithm for PM motor design. , 2016, , .		3
86	Short Circuit Current reduction in PMSM by introducing End Winding Magnetic Circuits. , 2020, , .		3
87	Nonlinear induction motor control accounting for inductance saturation. , 2008, , .		2
88	Geometry optimization of power transformer cooling system based on coupled 3D FEM thermal-CFD analysis. , 2010, , .		2
89	Transformer joints FE analysis using pseudo-source technique. , 2010, , .		2
90	Generalized representation of transformer electrical steels working under heavily saturated conditions. , 2010, , .		2

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91	High Efficiency Permanent Magnet Wheel Motor Design for Light Electric Vehicle Applications. Materials Science Forum, 2012, 721, 313-318.	0.3	2
92	Transient heat transfer analysis of housing and PMM using 3-D FE code. , 2016, , .		2
93	Optimal design of marine electric propulsion salient pole synchronous motor. , 2016, , .		2
94	Magnetization Regulation in Variable Flux PM-Assisted Synchronous Reluctance Machines. , 2018, , .		2
95	Electromagnetic Compatibility Issues in Electric Vehicle Applications. Materials Science Forum, 0, 915, 71-76.	0.3	2
96	Azimuth Thruster PMSM Optimization using Symbiotic Organisms Search Algorithm. , 2020, , .		2
97	Hybrid analytical-FEM methodology for loss evaluation in traction motors for electric vehicle applications. , 2016, , .		2
98	Permanent magnet shape optimization for high efficiency electric traction motors. , 2010, , .		1
99	Induction Motor Design for Ad Hoc Actuation Systems. Materials Science Forum, 0, 792, 362-366.	0.3	1
100	Parameter Extraction of a PM Machine Employing 3D Finite Element Analysis Tools for Model Predictive Control Schemes. Materials Science Forum, 0, 792, 355-361.	0.3	1
101	Design Considerations for an In-Wheel PM Motor with Fractional Slot Concentrated Windings for Light Electric Vehicle Applications. Materials Science Forum, 0, 792, 343-348.	0.3	1
102	Model Predictive Control Employing Finite-Element Methods for Aerospace Actuators. Materials Science Forum, 0, 856, 202-206.	0.3	1
103	Fault tolerant design of fractional slot concentrated winding PM motor for electric traction. , 2017, , .		1
104	Robust optimization of high speed PM motor design. , 2016, , .		1
105	Iron losses estimation using numerical methods in combination with experimental data. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	0
106	Hybrid technique for dynamic modelling of the performance of linear generators with skewed mounted permanent magnets. , 2010, , .		0
107	Dynamic finite element hysteresis model for iron loss calculation under PWM excitation. , 2010, , .		0
108	Experimental and Theoretical Analysis of Iron Losses of Electrical Steels Subjected to Distorted Supply Voltage Waveform Conditions. Materials Science Forum, 2012, 721, 171-176.	0.3	0

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109	PEM Fuel Cell Integration in a Hybrid Renewable Energy-Based Power System. Materials Science Forum, 2014, 792, 299-304.	0.3	0
110	Evolutionary Optimization of a Fractional Slot Interior Permanent Magnet Motor for a Small Electric Bus. Materials Science Forum, 0, 792, 373-378.	0.3	0
111	A two-level voltage source inverter with differentially sinusoidal pulse width modulation used in the interconnection system of a wind turbine generator. Journal of Engineering, 2014, 2014, 574-580.	1.1	0
112	Wind time series modeling and stochastic optimal control for a grid-connected permanent magnet wind turbine generator. Optimal Control Applications and Methods, 2016, 37, 996-1013.	2.1	0
113	Advanced Materials for Extreme Environment Aerospace Actuators. Materials Science Forum, 2016, 856, 119-124.	0.3	0
114	Interior PM Motor Torque Control and Performance Analysis Considering Saturation and Cross Magnetization Effects for Electric Traction. Materials Science Forum, 0, 856, 263-268.	0.3	0
115	Induction motor design considerations for LNG carrier dual fuel electric propulsion. , 2017, , .		0
116	Application of pseudo-cooling boundary conditions combined with electromagnetic and thermal weak coupling for the analysis of highly integrated aerospace actuators. , 2017, , .		0
117	Particular electromagnetic shielding analysis of cables for electric vehicle applications. , 2016, , .		0