Vladimir Kindl

List of Publications by Year
in descending order

54	338	1307594 7	1199594 12
papers	citations	h-index	g-index

57	57	57	208
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary design of the COMPASS upgrade tokamak. Fusion Engineering and Design, 2021, 169, 112490.	1.9	33
2	Key construction aspects of resonant wireless low power transfer system. , 2014, , .		20
3	Generalized Design Approach on Industrial Wireless Chargers. Energies, 2020, 13, 2697.	3.1	20
4	Review of Time and Space Harmonics in Multi-Phase Induction Machine. Energies, 2020, 13, 496.	3.1	20
5	Concept, design and coupled electro-thermal analysis of new hybrid drive vehicle for public transport. , 2010, , .		18
6	Design of a high-speed permanent magnet synchronous motor for electric kart. Electrical Engineering, 2017, 99, 1141-1150.	2.0	16
7	Effect of induction machine's load and rotor eccentricity on space harmonics in the air gap magnetic flux density. , 2014, , .		15
8	Inductive coupling system for electric scooter wireless charging: electromagnetic design and thermal analysis. Electrical Engineering, 2020, 102, 3-12.	2.0	14
9	Design and FEM analyses of an electrically excited automotive synchronous motor. , 2012, , .		12
10	Key construction aspects of low frequency wireless power transfer system using parallel resonance. , 2015, , .		11
11	Calculation of induction machine parasitic capacitances using finite element method. , 2016, , .		9
12	Electromagnetic Coil Gun â€“ Construction and Basic Simulation. , 2014, , 87-93.		9
13	Basic operating characteristics of wireless power transfer system for small portable devices. , 2014, , .		8
14	Determination of the force caused by broken rotor bar and static eccentricity in an induction machine. , 2014, , .		8
15	The effect of space harmonic components in the air gap magnetic flux density on torque characteristic of a squirrel-cage induction machine. , 2015, , .		8
16	Inductive coupling system for E-bike wireless charging. , 2018, , .		8
17	Low-Pass Filter for HV Partial Discharge Testing. Sensors, 2018, 18, 482.	3.8	8
18	A comprehensive approach to calculation of the air gap magnetic flux density in induction machines with eccentrically placed rotor. , 2014, , .		7

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19	Evaluation of different approaches of mathematical modelling of thermal phenomena applied to induction motors. , 2014, , .		7
20	Identification of harmful time harmonic interactions in a high power squirrel-cage traction machine. Applied Mathematical Modelling, 2014, 38, 6153-6169.	4.2	7
21	Transfer properties of various compensation techniques for wireless power transfer system including parasitic effects. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1198-1219.	0.9	7
22	High Efficiency and Power Tracking Method for Wireless Charging System Based on Phase-Shift Control. Energies, 2018, 11, 2065.	3.1	7
23	Ventilation system with skewed rotor cooling ducts of 40-MW synchronous machine: a case study. Electrical Engineering, 2019, 101, 203-211.	2.0	7
24	Determination of critical thermal operation for small squirrel cage motor. , 2014, , .		6
25	Wireless power transfer system with reduced voltage stress on compensation capacitors. , 2016, , .		6
26	Analysis of Skin Effect in Single Wire Resistance by Finite Element Methods. , 2020, , .		6
27	Influence of Skewed Squirrel Cage Rotor with Intermediate Ring on Magnetic Field of Air Gap in Induction Machine. Elektronika Ir Elektrotechnika, 2017, 23, .	0.8	5
28	Influence of Low-Conductive Coating on Insulation System of Rotary Electric Machine. Journal of Electrical Engineering, 2012, 63, 180-185.	0.7	4
29	Analysis of rotor's eccentricity influence on bearing load of induction machine. , 2014, , .		4
30	Concept and design of a special purpose permanent magnet synchronous motor. , 2016, , .		4
31	Redesign of an Undercarriage Wheel for a Self-Acting Robot. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	4
32	Spatial Harmonics in Multi-Phase Induction Machine. , 2020, , .		3
33	Multi-Pole Winding Behavior in Multiphase Motors Under Current Harmonics Operation. IEEE Transactions on Energy Conversion, 2022, 37, 2546-2555.	5.2	3
34	Influence of temperature-dependent materials on mathematical modelling of thermal problems of induction machines. , 2013, , .		2
35	Benefits of upgrading insulating materials to operating temperature of induction motor. , 2015, , .		2
36	Impact of COMPASS-U vacuum vessel and the first wall structures on signals of in-vessel magnetic diagnostic coils. Fusion Engineering and Design, 2021, 171, 112579.	1.9	2

#	Article	IF	Citations
37	Measurement of the Effects of Higher Harmonic Injection on Nine-phase Induction Motor. , 2020, , .		2
38	The issues of multiple-pole cylindrical rotor synchronous machine excitation winding. , 2013, , .		1
39	Dynamic load of induction machine due to rotor's eccentricity and bearing clearance. , 2016, , .		1
40	Methodology for experimental measurement of force acting on eccentric rotor of electric machine. , 2017, , .		1
41	Sensorless control strategy of cooler for reduction dimensions and operating characteristic improvement in double three-phase inverter. Electrical Engineering, 2020, 102, 117-127.	2.0	1
42	Intelligent High Current Sensor for Various Frequency. , 2020, , .		1
43	Design and Construction of High-Quality Capacitor for High Frequency and Power Application. Communications - Scientific Letters of the University of Zilina, 2021, 23, C1-C6.	0.6	1
44	Design possibilities of multiple-pole cylindrical rotor synchronous machine excitation winding. , 2014, , .		0
45	Problems with the drive of the coal-conveyor. , 2014, , .		0
46	Simulation and investigation of rotor vibration causes. , 2016, , .		0
47	Natural frequencies of small squirrel cage induction machine rotor â€" Finite element model optimization. , 2016, , .		0
48	Motor friendliness of variable frequency drives with output transformer. , 2017, , .		0
49	Autotransformer design with zig-zag connection Zna0. , 2018, , .		0
50	Control strategy of cooler for diminishing dimensions and extending service lifetime of inverter. , 2018, , .		0
51	Theoretical and Practical Design Approach of Wireless Power Systems. , 0, , .		0
52	Design of Current Sensor for Medium Frequency Operation. , 2020, , .		0
53	Ovality and Tightening Force Analysis of Large Induction Machine Rotor. , 2020, , .		0
54	Design, construction and calibration of the current sensor for medium frequency high-power electronic applications. Electrical Engineering, 2022, 104, 217-230.	2.0	0