

Sadegh Vaez-Zadeh

List of Publications by Year in descending order

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125
papers

2,874
citations

201674

27
h-index

197818

49
g-index

126
all docs

126
docs citations

126
times ranked

2152
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal planning of energy hubs in interconnected energy systems: a case study for natural gas and electricity. IET Generation, Transmission and Distribution, 2015, 9, 695-707.	2.5	164
2	Voltage Stability-Based DG Placement in Distribution Networks. IEEE Transactions on Power Delivery, 2013, 28, 171-178.	4.3	158
3	A Combined Vector and Direct Power Control for DFIG-Based Wind Turbines. IEEE Transactions on Sustainable Energy, 2014, 5, 767-775.	8.8	149
4	Optimization of a Contactless Power Transfer System for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 3566-3573.	6.3	147
5	An Improved Magnetic Equivalent Circuit Model for Iron-Core Linear Permanent-Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2010, 46, 112-120.	2.1	128
6	Line start permanent magnet synchronous motors: Challenges and opportunities. Energy, 2009, 34, 1755-1763.	8.8	126
7	Efficient fault-ride-through control strategy of DFIG-based wind turbines during the grid faults. Energy Conversion and Management, 2014, 78, 88-95.	9.2	95
8	Nonlinear Modeling of Eddy-Current Couplers. IEEE Transactions on Energy Conversion, 2014, 29, 224-231.	5.2	91
9	Sustainable development based energy policy making frameworks, a critical review. Energy Policy, 2012, 43, 351-361.	8.8	88
10	Multiobjective design optimization of air-core linear permanent-magnet synchronous motors for improved thrust and low magnet consumption. IEEE Transactions on Magnetics, 2006, 42, 446-452.	2.1	83
11	Combined vector control and direct torque control method for high performance induction motor drives. Energy Conversion and Management, 2007, 48, 3095-3101.	9.2	77
12	A Dynamic WPT System With High Efficiency and High Power Factor for Electric Vehicles. IEEE Transactions on Power Electronics, 2020, 35, 6732-6740.	7.9	75
13	Development of a Combined Control System to Improve the Performance of a PMSG-Based Wind Energy Conversion System Under Normal and Grid Fault Conditions. IEEE Transactions on Energy Conversion, 2019, 34, 1287-1295.	5.2	58
14	Reducing Cogging Torque in Flux Switching Motors With Segmented Rotor. IEEE Transactions on Magnetics, 2013, 49, 5304-5309.	2.1	53
15	Improved fault ride through strategy for doubly fed induction generator based wind turbines under both symmetrical and asymmetrical grid faults. IET Renewable Power Generation, 2016, 10, 1114-1122.	3.1	53
16	Efficiency Optimization Control of Single-Phase Induction Motor Drives. IEEE Transactions on Power Electronics, 2009, 24, 1062-1070.	7.9	51
17	Model-Free Predictive Control of Motor Drives and Power Converters: A Review. IEEE Access, 2021, 9, 105733-105747.	4.2	48
18	Combined control method for grid-side converter of doubly fed induction generator-based wind energy conversion systems. IET Renewable Power Generation, 2018, 12, 943-952.	3.1	45

#	ARTICLE	IF	CITATIONS
19	Design Procedure and Optimal Guidelines for Overall Enhancement of Steady-State and Transient Performances of Line Start Permanent Magnet Motors. IEEE Transactions on Energy Conversion, 2017, 32, 885-894.	5.2	42
20	Using Modular Poles for Shape Optimization of Flux Density Distribution in Permanent-Magnet Machines. IEEE Transactions on Magnetics, 2008, 44, 2009-2015.	2.1	40
21	Efficiency analysis of contactless electrical power transmission systems. Energy Conversion and Management, 2013, 65, 487-496.	9.2	40
22	Variable-Frequency Retuned WPT System for Power Transfer and Efficiency Improvement in Dynamic EV Charging With Fixed Voltage Characteristic. IEEE Transactions on Energy Conversion, 2021, 36, 2141-2151.	5.2	39
23	Effect of Reactive Power Limit Modeling on Maximum System Loading and Active and Reactive Power Markets. IEEE Transactions on Power Systems, 2010, 25, 1106-1116.	6.5	37
24	A continuous efficiency optimization controller for induction motor drives. Energy Conversion and Management, 2005, 46, 701-713.	9.2	36
25	Design optimization of permanent magnet synchronous motors for high torque capability and low magnet volume. Electric Power Systems Research, 2005, 74, 307-313.	3.6	35
26	Design optimization of a linear permanent magnet synchronous motor for extra low force pulsations. Energy Conversion and Management, 2007, 48, 443-449.	9.2	34
27	Modeling and Analysis of Linear Synchronous Motors in High-Speed Maglev Vehicles. IEEE Transactions on Magnetics, 2010, 46, 2656-2664.	2.1	31
28	Variable flux control of permanent magnet synchronous motor drives for constant torque operation. IEEE Transactions on Power Electronics, 2001, 16, 527-534.	7.9	27
29	DESIGN OF A WIRELESS POWER TRANSFER SYSTEM FOR HIGH POWER MOVING APPLICATIONS. Progress in Electromagnetics Research M, 2013, 28, 258-271.	0.9	26
30	Enhanced Modeling of Linear Permanent-Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2007, 43, 33-39.	2.1	25
31	Model-Free Predictive Control of Grid-Forming Inverters With LCL Filters. IEEE Transactions on Power Electronics, 2022, 37, 9200-9211.	7.9	25
32	Analysis and Control of Wireless Motor Drives With a Single Inverter in Primary Side. IEEE Transactions on Energy Conversion, 2021, 36, 930-939.	5.2	24
33	Back EMF Analysis of a Novel Linear Flux Switching Motor With Segmented Secondary. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	23
34	A very fast direct torque control for interior permanent magnet synchronous motors start up. Energy Conversion and Management, 2005, 46, 715-726.	9.2	21
35	Vector control of single-phase induction machine with maximum torque operation. , 2005, , .		21
36	Design and analysis of sensorless torque optimization for single phase induction motors. Energy Conversion and Management, 2006, 47, 1464-1477.	9.2	21

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37	Parameter-Free Predictive Control of IPM Motor Drives With Direct Selection of Optimum Inverter Voltage Vectors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 327-334.	5.4	20
38	Performance Optimization of Dynamic Wireless EV Charger Under Varying Driving Conditions Without Resonant Information. IEEE Transactions on Vehicular Technology, 2019, 68, 10429-10438.	6.3	19
39	Decoupling Vector Control of Single Phase Induction Motor Drives. , 0, , .		18
40	Evaluation of synchronization capability in line start permanent magnet synchronous motors. , 2011, , .		17
41	A Review of Contactless Electrical Power Transfer: Applications, Challenges and Future Trends. Automatika, 2015, 56, 367-378.	2.0	16
42	Enhanced Emotional and Speed Deviation Control of Synchronous Reluctance Motor Drives. IEEE Transactions on Energy Conversion, 2019, 34, 604-612.	5.2	16
43	Sensorless vector control of single-phase induction motor drives. , 2005, , .		15
44	Line-start permanent magnet synchronous motors versus induction motors: A comparative study. Frontiers of Electrical and Electronic Engineering, 2012, 7, 459.	0.5	15
45	Developing a DSR-HNS policy making framework for electric energy systems. Energy Policy, 2012, 42, 616-627.	8.8	15
46	A Combined Control for Fast and Smooth Performance of IPM Motor Drives Over Wide Operating Conditions. IEEE Transactions on Energy Conversion, 2018, 33, 1384-1391.	5.2	15
47	Resonance based contactless energy transfer. , 2012, , .		14
48	Modeling and analysis of variable speed single phase induction motors with iron loss. Energy Conversion and Management, 2009, 50, 2747-2753.	9.2	13
49	Combined Control of Grid Connected Converters Based on a Flexible Switching Table for Fast Dynamic and Reduced Harmonics. IEEE Transactions on Energy Conversion, 2020, 35, 77-84.	5.2	13
50	Study of Boosted Toothed Biased Flux Permanent Magnet Motors. IEEE Transactions on Transportation Electrification, 2022, 8, 2549-2564.	7.8	13
51	An educational toolbox for performance analysis of lineâ€start permanent magnet synchronous motors. Computer Applications in Engineering Education, 2014, 22, 452-462.	3.4	12
52	A New Double-Layer Switched Reluctance Motor with a Low Torque Ripple. , 2019, , .		12
53	Efficiency Optimization of a Dynamic Wireless EV Charging System Using Coupling Coefficient Estimation. , 2019, , .		12
54	DSP based optimal torque control of single-phase induction motors. , 0, , .		11

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55	Combined vector and direct torque control methods for IPM motor drives using emotional controller (BELBIC). , 2011, , .		11
56	Sensorless Virtual Flux Combined Control of Grid Connected Converters With High Power Quality Under Unbalanced Grid Operation. IEEE Transactions on Sustainable Energy, 2021, 12, 785-793.	8.8	11
57	A Robust Predictive Torque and Flux Control for IPM Motor Drives Without a Cost Function. IEEE Transactions on Power Electronics, 2021, 36, 8067-8075.	7.9	11
58	Design analysis of a new axial-flux interior permanent-magnet coupler. , 2014, , .		10
59	Virtual-Flux-Based DPC of Grid Connected Converters with Fast Dynamic and High Power Quality. , 2019, , .		10
60	An Optimal Pricing Scheme in Electricity Markets Considering Voltage Security Cost. IEEE Transactions on Power Systems, 2008, 23, 451-459.	6.5	9
61	Line start permanent magnet motors with double-barrier configuration for magnet conservation and performance improvement. IET Electric Power Applications, 2017, 11, 1656-1663.	1.8	9
62	Precise dq model development of linear flux switching motors with segmented secondary for rail transportation applications. IET Electric Power Applications, 2018, 12, 213-221.	1.8	9
63	Efficiency-Optimizing Direct Torque Control of Permanent Magnet Synchronous Machines. , 0, , .		8
64	Power Quality Improvement Using Virtual Flux Combined Control of Grid Connected Converters under Balanced and Unbalanced Grid Operation. , 2019, , .		8
65	Performance Analysis of Contactless Electrical Power Transfer for Maglev. Journal of Magnetism, 2012, 17, 115-123.	0.4	8
66	High average-low pulsating torque operation of single phase induction motors. , 0, , .		7
67	Analysis of Electrical Loss in Single Phase Induction Motors. , 2007, , .		7
68	MODELLING AND ANALYSIS OF PERMANENT MAGNET ELECTRODYNAMIC SUSPENSION SYSTEMS. Progress in Electromagnetics Research M, 2014, 36, 77-84.	0.9	7
69	Analysis of a DTC With Back EMF Oriented Voltage for PMS Motor Drives. IEEE Transactions on Energy Conversion, 2018, 33, 1594-1596.	5.2	7
70	Computation Efficiency and Robustness Improvement of Predictive Control for PMS Motors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2645-2654.	5.4	7
71	A Comparative Study of Control Methods for Grid Side Converters in PMSG-Based Wind Energy Conversion Systems. , 2020, , .		7
72	A Steady State Model Including Iron loss for Variable Speed Single Phase Induction Motors. , 2007, , .		6

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73	An Induction Motor Drive System Employing Salient Features of Vector and Direct Torque Controls. , 2007, , .		6
74	Enhancement of overall coupling coefficient and efficiency of contactless energy transmission systems. , 2011, , .		6
75	Reactive power ranking for DG units in distribution networks. , 2011, , .		6
76	An Improved Combined Control for PMSG-Based Wind Energy Systems to Enhance Power Quality and Grid Integration Capability. , 2019, , .		6
77	A Model-Free Approach for Predictive Direct Power Control of Grid-Connected Converters. , 2019, , .		6
78	Efficiency Maximization Control and Voltage Regulation for Dynamic Wireless EV Charging Systems with Mutual Induction Estimation. , 2019, , .		6
79	Deviation Model-Based Control of Synchronous Reluctance Motor Drives With Reduced Parameter Dependency. IEEE Transactions on Power Electronics, 2019, 34, 6697-6705.	7.9	6
80	An Agent-Based Model for Electric Energy Policy Assessment. Electric Power Systems Research, 2021, 192, 106903.	3.6	6
81	A Single-Phase Wireless Power Transfer System with a High-Frequency AC Link Converter in the Secondary for Three-Phase Applications. , 2021, , .		6
82	Model-based loss minimization of direct torque controlled permanent magnet synchronous motors. , 2010, , .		5
83	Sustainability Assessment of a Power Generation System Using DSR-HNS Framework. IEEE Transactions on Energy Conversion, 2013, 28, 327-334.	5.2	5
84	Wireless Motor Drives with a Single Inverter in Primary Side of Power Transfer Systems. , 2019, , .		5
85	Multiobjective optimization of air-core linear permanent magnet synchronous motors for improved thrust and low magnet consumption. , 2005, , .		4
86	Efficiency Optimization of Vector-Controlled PM Synchronous Motor Drives with Online Estimation of All Parameters. , 2006, , .		4
87	Finite Element Analysis and Experimental Implementation of the Cylindrical Permanent Magnet Electrodynamic Suspension System. Electromagnetics, 2009, 29, 563-574.	0.7	4
88	Toward a common framework for analysis of high performance controls of PMS motor drives. , 2011, , .		4
89	Sensorless combined control of IPM motors using extended flux model. , 2018, , .		4
90	A Comparative Review of Renewable Energy Potential, Policy Targets, and Implementation in Iran. , 2019, , .		4

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91	A Novel Multi-Objective Topology for In-Motion WPT Systems with an Input DG Source. , 2019, , .		4
92	Deviation Control in Comparison with DTC and FOC for SynRM Drives. , 2019, , .		4
93	Flexible Active/Reactive Power Ripple Control of Grid-Connected Voltage Source Converters under Unbalance Conditions. , 2020, , .		4
94	Analytical model based on magnetic equivalent circuit for <scp>transverseâ€¦flux permanentâ€¦magnet</scp> machines. International Transactions on Electrical Energy Systems, 2020, 30, e12414.	1.9	4
95	Diagnosis and detection of dynamic eccentricity fault for permanent magnet transverse flux generator. IET Electric Power Applications, 2021, 15, 528-541.	1.8	4
96	Cascade sliding mode control of permanent magnet synchronous motors. , 0, , .		3
97	Speed control of PM synchronous motors: comparison of sliding mode and PI controllers. , 0, , .		3
98	IRAN's electricity and natural gas networks modeling by means of energy hubs. , 2012, , .		3
99	Sensitivity analysis and prototyping of a surface-mounted permanent-magnet axial-flux coupler. , 2014, , .		3
100	Deadbeat current control of permanent magnet synchronous motors using a simplified discrete space vector modulation. , 2018, , .		3
101	Design and Analysis of a Modified Dual Phase Shift Control Method for a Wireless EV Charger Considering Coupling Uncertainty. , 2019, , .		3
102	Maximum Power Per Current Control for Dynamic WPT Systems. , 2021, , .		3
103	Design Optimization of Linear Synchronous Motors for Overall Improvement of Thrust, Efficiency, Power Factor and Material Consumption. Journal of Power Electronics, 2011, 11, 105-111.	1.5	3
104	Design of High-Efficiency WPT Battery Charging System with Constant Power and Voltage. , 2022, , .		3
105	Sensorless performance optimization of single-phase induction motors. , 0, , .		2
106	Transient Finite-Element Analysis of Short-Circuit Electromagnetic Forces in Isolated Phase Buses. Electromagnetics, 2008, 28, 590-600.	0.7	2
107	DG placement in distribution networks considering voltage stability. , 2012, , .		2
108	Maximum Efficiency Control of a Wireless EV Charger with On-Line Parameter Calculation. , 2019, , .		2

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109	A Novel Boost-Based Quasi Resonant DC-DC Converter with Low Component Count for Stand-Alone PV Applications. , 2021, , .		2
110	Combined Control of Grid Connected Converters for Resiliency Improvement of Smart Micro Grids against Multiple Risks. , 2021, , .		2
111	Design of all-direction Misalignment tolerant magnetic interface suitable for Dynamic wireless power transfer systems. , 2021, , .		2
112	Robust Model-Free Control of Grid-Connected Converters with Fast Dynamic and High Quality Performance. , 2022, , .		2
113	Sensorless Virtual-Flux Direct Power Control of Grid Connected Converters under Unbalanced Weak Grid Conditions. , 2022, , .		2
114	Accurate Determination of Electromagnetic Forces in Isolated Phase Buses under Short Circuit Conditions. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	1
115	A loss minimization strategy for PMS motors under direct torque control. , 2010, , .		1
116	Design of thrust ripple minimization in wound secondary linear synchronous motors by response surface methodology (RSM). , 2011, , .		1
117	Sustainability assessment of Iran power generation system using DSR-HNS framework. , 2012, , .		1
118	Rotor Resistance for Improved Start-up Performance of Line-Start Permanent-Magnet Synchronous Motors. , 2018, , .		1
119	Model-Free Predictive Combined Control for Three-Phase Grid-Connected Voltage Source Converters. , 2021, , .		1
120	PERMANENT MAGNET DC MOTOR SLIDING MODE CONTROL SYSTEM. , 2000, , .		1
121	Torque compensation in permanent magnet synchronous motor drives for constant torque, varying flux operation. , 0, , .		0
122	Voltage Security Pricing Based on Availability Measures in Composite Power System. , 2007, , .		0
123	Multilevel Inverter with a New Modulation Method Applied to Solid-State Transformer in PV Applications. , 2021, , .		0
124	Model-Free Predictive Control of Grid Connected Converters with No System Parameters. , 2021, , .		0
125	Design of Non-Communication Based WPT Battery Charging System With CP-CV Method. , 2022, , .		0