

# Sadegh Vaez-Zadeh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

1,803  
citations

23  
h-index

39  
g-index

126  
ext. papers

2,422  
ext. citations

4.9  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
103	Study of Boosted Toothed Biased Flux Permanent Magnet Motors. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1	7.6	1
102	Model-Free Predictive Control of Grid-Forming Inverters With LCL Filters. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	2
101	An Agent-Based Model for Electric Energy Policy Assessment. <i>Electric Power Systems Research</i> , <b>2021</b> , 192, 106903	3.5	1
100	Analysis and Control of Wireless Motor Drives With a Single Inverter in Primary Side. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 930-939	5.4	8
99	Sensorless Virtual Flux Combined Control of Grid Connected Converters With High Power Quality Under Unbalanced Grid Operation. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 12, 785-793	8.2	3
98	Parameter-Free Predictive Control of IPM Motor Drives With Direct Selection of Optimum Inverter Voltage Vectors. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 327-334	5.6	13
97	Model-Free Predictive Control of Motor Drives and Power Converters: A Review. <i>IEEE Access</i> , <b>2021</b> , 9, 105733-105747	3.5	16
96	Diagnosis and detection of dynamic eccentricity fault for permanent magnet transverse flux generator. <i>IET Electric Power Applications</i> , <b>2021</b> , 15, 528-541	1.8	2
95	A Robust Predictive Torque and Flux Control for IPM Motor Drives Without a Cost Function. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 8067-8075	7.2	5
94	Variable-Frequency Retuned WPT System for Power Transfer and Efficiency Improvement in Dynamic EV Charging With Fixed Voltage Characteristic. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 2141-2151	5.4	11
93	Analytical model based on magnetic equivalent circuit for transverse-flux permanent-magnet machines. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12414	2.2	2
92	Combined Control of Grid Connected Converters Based on a Flexible Switching Table for Fast Dynamic and Reduced Harmonics. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 77-84	5.4	4
91	A Dynamic WPT System With High Efficiency and High Power Factor for Electric Vehicles. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 6732-6740	7.2	24
90	Flexible Active/Reactive Power Ripple Control of Grid-Connected Voltage Source Converters under Unbalance Conditions <b>2020</b> ,		1
89	Computation Efficiency and Robustness Improvement of Predictive Control for PMS Motors. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 2645-2654	5.6	5
88	Performance Optimization of Dynamic Wireless EV Charger Under Varying Driving Conditions Without Resonant Information. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 10429-10438	6.8	12
87	Design and Analysis of a Modified Dual Phase Shift Control Method for a Wireless EV Charger Considering Coupling Uncertainty <b>2019</b> ,		2

86	Development of a Combined Control System to Improve the Performance of a PMSG-Based Wind Energy Conversion System Under Normal and Grid Fault Conditions. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 1287-1295	5.4	26
85	Efficiency Optimization of a Dynamic Wireless EV Charging System Using Coupling Coefficient Estimation <b>2019</b> ,		5
84	An Improved Combined Control for PMSG-Based Wind Energy Systems to Enhance Power Quality and Grid Integration Capability <b>2019</b> ,		2
83	A Comparative Review of Renewable Energy Potential, Policy Targets, and Implementation in Iran <b>2019</b> ,		2
82	A New Double-Layer Switched Reluctance Motor with a Low Torque Ripple <b>2019</b> ,		3
81	Wireless Motor Drives with a Single Inverter in Primary Side of Power Transfer Systems <b>2019</b> ,		1
80	Virtual-Flux-Based DPC of Grid Connected Converters with Fast Dynamic and High Power Quality <b>2019</b> ,		3
79	Power Quality Improvement Using Virtual Flux Combined Control of Grid Connected Converters under Balanced and Unbalanced Grid Operation <b>2019</b> ,		1
78	Maximum Efficiency Control of a Wireless EV Charger with On-Line Parameter Calculation <b>2019</b> ,		1
77	A Model-Free Approach for Predictive Direct Power Control of Grid-Connected Converters <b>2019</b> ,		2
76	Efficiency Maximization Control and Voltage Regulation for Dynamic Wireless EV Charging Systems with Mutual Induction Estimation <b>2019</b> ,		1
75	Deviation Model-Based Control of Synchronous Reluctance Motor Drives With Reduced Parameter Dependency. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 6697-6705	7.2	3
74	Enhanced Torque and Speed Deviation Control of Synchronous Reluctance Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 604-612	5.4	12
73	Precise dq model development of linear flux switching motors with segmented secondary for rail transportation applications. <i>IET Electric Power Applications</i> , <b>2018</b> , 12, 213-221	1.8	7
72	A Combined Control for Fast and Smooth Performance of IPM Motor Drives Over Wide Operating Conditions. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 1384-1391	5.4	11
71	Sensorless combined control of IPM motors using extended flux model <b>2018</b> ,		4
70	Deadbeat current control of permanent magnet synchronous motors using a simplified discrete space vector modulation <b>2018</b> ,		2
69	Combined control method for grid-side converter of doubly fed induction generator-based wind energy conversion systems. <i>IET Renewable Power Generation</i> , <b>2018</b> , 12, 943-952	2.9	23

68	Control of Permanent Magnet Synchronous Motors <b>2018</b> ,		21
67	Rotor Resistance for Improved Start-up Performance of Line-Start Permanent-Magnet Synchronous Motors <b>2018</b> ,		1
66	Analysis of a DTC With Back EMF Oriented Voltage for PMS Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 1594-1596	5.4	6
65	Design Procedure and Optimal Guidelines for Overall Enhancement of Steady-State and Transient Performances of Line Start Permanent Magnet Motors. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 885-894	5.4	35
64	Line start permanent magnet motors with double-barrier configuration for magnet conservation and performance improvement. <i>IET Electric Power Applications</i> , <b>2017</b> , 11, 1656-1663	1.8	7
63	Improved fault ride through strategy for doubly fed induction generator based wind turbines under both symmetrical and asymmetrical grid faults. <i>IET Renewable Power Generation</i> , <b>2016</b> , 10, 1114-1122	2.9	40
62	A Review of Contactless Electrical Power Transfer: Applications, Challenges and Future Trends. <i>Automatika</i> , <b>2015</b> , 56, 367-378	1.6	7
61	Optimal planning of energy hubs in interconnected energy systems: a case study for natural gas and electricity. <i>IET Generation, Transmission and Distribution</i> , <b>2015</b> , 9, 695-707	2.5	121
60	A Combined Vector and Direct Power Control for DFIG-Based Wind Turbines. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 767-775	8.2	96
59	Back EMF Analysis of a Novel Linear Flux Switching Motor With Segmented Secondary. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-9	2	19
58	Efficient fault-ride-through control strategy of DFIG-based wind turbines during the grid faults. <i>Energy Conversion and Management</i> , <b>2014</b> , 78, 88-95	10.6	74
57	Nonlinear Modeling of Eddy-Current Couplers. <i>IEEE Transactions on Energy Conversion</i> , <b>2014</b> , 29, 224-231	5.4	70
56	Sensitivity analysis and prototyping of a surface-mounted permanent-magnet axial-flux coupler <b>2014</b> ,		2
55	Design analysis of a new axial-flux interior permanent-magnet coupler <b>2014</b> ,		5
54	MODELLING AND ANALYSIS OF PERMANENT MAGNET ELECTRODYNAMIC SUSPENSION SYSTEMS. <i>Progress in Electromagnetics Research M</i> , <b>2014</b> , 36, 77-84	0.6	4
53	An educational toolbox for performance analysis of line-start permanent magnet synchronous motors. <i>Computer Applications in Engineering Education</i> , <b>2014</b> , 22, 452-462	1.6	10
52	Reducing Cogging Torque in Flux Switching Motors With Segmented Rotor. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5304-5309	2	37
51	Efficiency analysis of contactless electrical power transmission systems. <i>Energy Conversion and Management</i> , <b>2013</b> , 65, 487-496	10.6	26

50	Sustainability Assessment of a Power Generation System Using DSR-HNS Framework. <i>IEEE Transactions on Energy Conversion</i> , <b>2013</b> , 28, 327-334	5.4	4
49	Voltage Stability-Based DG Placement in Distribution Networks. <i>IEEE Transactions on Power Delivery</i> , <b>2013</b> , 28, 171-178	4.3	107
48	DESIGN OF A WIRELESS POWER TRANSFER SYSTEM FOR HIGH POWER MOVING APPLICATIONS. <i>Progress in Electromagnetics Research M</i> , <b>2013</b> , 28, 258-271	0.6	14
47	Developing a DSR-HNS policy making framework for electric energy systems. <i>Energy Policy</i> , <b>2012</b> , 42, 616-627	7.2	13
46	Sustainable development based energy policy making frameworks, a critical review. <i>Energy Policy</i> , <b>2012</b> , 43, 351-361	7.2	62
45	Optimization of a Contactless Power Transfer System for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 3566-3573	6.8	94
44	DG placement in distribution networks considering voltage stability <b>2012</b> ,		1
43	IRAN's electricity and natural gas networks modeling by means of energy hubs <b>2012</b> ,		3
42	Sustainability assessment of Iran power generation system using DSR-HNS framework <b>2012</b> ,		1
41	Line-start permanent magnet synchronous motors versus induction motors: A comparative study. <i>Frontiers of Electrical and Electronic Engineering</i> , <b>2012</b> , 7, 459		8
40	Resonance based contactless energy transfer <b>2012</b> ,		12
39	Performance Analysis of Contactless Electrical Power Transfer for Maglev. <i>Journal of Magnetism</i> , <b>2012</b> , 17, 115-123	1.9	7
38	Enhancement of overall coupling coefficient and efficiency of contactless energy transmission systems <b>2011</b> ,		3
37	Evaluation of synchronization capability in line start permanent magnet synchronous motors <b>2011</b> ,		8
36	Combined vector and direct torque control methods for IPM motor drives using emotional controller (BELBIC) <b>2011</b> ,		8
35	Toward a common framework for analysis of high performance controls of PMS motor drives <b>2011</b> ,		3
34	Reactive power ranking for DG units in distribution networks <b>2011</b> ,		5
33	Design Optimization of Linear Synchronous Motors for Overall Improvement of Thrust, Efficiency, Power Factor and Material Consumption. <i>Journal of Power Electronics</i> , <b>2011</b> , 11, 105-111	0.9	0

32	Model-based loss minimization of direct torque controlled permanent magnet synchronous motors <b>2010</b> ,		3
31	Effect of Reactive Power Limit Modeling on Maximum System Loading and Active and Reactive Power Markets. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 1106-1116	7	25
30	An Improved Magnetic Equivalent Circuit Model for Iron-Core Linear Permanent-Magnet Synchronous Motors. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 112-120	2	95
29	Modeling and Analysis of Linear Synchronous Motors in High-Speed Maglev Vehicles. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2656-2664	2	18
28	Finite Element Analysis and Experimental Implementation of the Cylindrical Permanent Magnet Electrodynamic Suspension System. <i>Electromagnetics</i> , <b>2009</b> , 29, 563-574	0.8	4
27	Modeling and analysis of variable speed single phase induction motors with iron loss. <i>Energy Conversion and Management</i> , <b>2009</b> , 50, 2747-2753	10.6	10
26	Line start permanent magnet synchronous motors: Challenges and opportunities. <i>Energy</i> , <b>2009</b> , 34, 1755-1763	7.1	85
25	Efficiency Optimization Control of Single-Phase Induction Motor Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2009</b> , 24, 1062-1070	7.2	31
24	Using Modular Poles for Shape Optimization of Flux Density Distribution in Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2009-2015	2	36
23	An Optimal Pricing Scheme in Electricity Markets Considering Voltage Security Cost. <i>IEEE Transactions on Power Systems</i> , <b>2008</b> , 23, 451-459	7	5
22	Transient Finite-Element Analysis of Short-Circuit Electromagnetic Forces in Isolated Phase Buses. <i>Electromagnetics</i> , <b>2008</b> , 28, 590-600	0.8	1
21	A Steady State Model Including Iron loss for Variable Speed Single Phase Induction Motors <b>2007</b> ,		3
20	An Induction Motor Drive System Employing Salient Features of Vector and Direct Torque Controls <b>2007</b> ,		4
19	Design optimization of a linear permanent magnet synchronous motor for extra low force pulsations. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 443-449	10.6	26
18	Combined vector control and direct torque control method for high performance induction motor drives. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 3095-3101	10.6	54
17	Accurate Determination of Electromagnetic Forces in Isolated Phase Buses under Short Circuit Conditions. <i>IEEE Power Engineering Society General Meeting</i> , <b>2007</b> ,		1
16	Analysis of Electrical Loss in Single Phase Induction Motors <b>2007</b> ,		4
15	Enhanced Modeling of Linear Permanent-Magnet Synchronous Motors. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 33-39	2	23

14	Design and analysis of sensorless torque optimization for single phase induction motors. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 1464-1477	10.6	17
13	Multiobjective design optimization of air-core linear permanent-magnet synchronous motors for improved thrust and low magnet consumption. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 446-452	2	63
12	Efficiency Optimization of Vector-Controlled PM Synchronous Motor Drives with Online Estimation of All Parameters <b>2006</b> ,		3
11	Sensorless vector control of single-phase induction motor drives <b>2005</b> ,		11
10	Design optimization of permanent magnet synchronous motors for high torque capability and low magnet volume. <i>Electric Power Systems Research</i> , <b>2005</b> , 74, 307-313	3.5	26
9	A very fast direct torque control for interior permanent magnet synchronous motors start up. <i>Energy Conversion and Management</i> , <b>2005</b> , 46, 715-726	10.6	15
8	A continuous efficiency optimization controller for induction motor drives. <i>Energy Conversion and Management</i> , <b>2005</b> , 46, 701-713	10.6	27
7	Vector control of single-phase induction machine with maximum torque operation <b>2005</b> ,		10
6	Variable flux control of permanent magnet synchronous motor drives for constant torque operation. <i>IEEE Transactions on Power Electronics</i> , <b>2001</b> , 16, 527-534	7.2	11
5	Efficiency-Optimizing Direct Torque Control of Permanent Magnet Synchronous Machines		4
4	Decoupling Vector Control of Single Phase Induction Motor Drives		8
3	Sensorless performance optimization of single-phase induction motors		2
2	DSP based optimal torque control of single-phase induction motors		8
1	High average-low pulsating torque operation of single phase induction motors		6