

Gheorghe-Daniel Andreescu

List of Publications by Year in descending order

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52
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docs citations

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times ranked

1135
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Flux Concept for Motion-Sensorless Unified AC Drives. IEEE Transactions on Power Electronics, 2008, 23, 2612-2618.	5.4	285
2	Combined Flux Observer With Signal Injection Enhancement for Wide Speed Range Sensorless Direct Torque Control of IPMSM Drives. IEEE Transactions on Energy Conversion, 2008, 23, 393-402.	3.7	203
3	“Active Flux”-DTFC-SVM Sensorless Control of IPMSM. IEEE Transactions on Energy Conversion, 2009, 24, 314-322.	3.7	135
4	Bidirectional Power Flow Control in a DC Microgrid Through a Switched-Capacitor Cell Hybrid DC-DC Converter. IEEE Transactions on Industrial Electronics, 2017, 64, 3012-3022.	5.2	132
5	Sliding-mode observer and improved integrator with DC-offset compensation for flux estimation in sensorless-controlled induction motors. IEEE Transactions on Industrial Electronics, 2006, 53, 785-794.	5.2	128
6	Sensorless V/f control of high-speed surface permanent magnet synchronous motor drives with two novel stabilising loops for fast dynamics and robustness. IET Electric Power Applications, 2010, 4, 149.	1.1	76
7	I-F starting method with smooth transition to EMF based motion-sensorless vector control of PM synchronous motor/generator. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	73
8	Very low speed performance of active flux based sensorless control: interior permanent magnet synchronous motor vector control versus direct torque and flux control. IET Electric Power Applications, 2009, 3, 551.	1.1	61
9	DTFC-SVM motion-sensorless control of a PM-assisted reluctance synchronous machine as starter-alternator for hybrid electric vehicles. IEEE Transactions on Power Electronics, 2006, 21, 711-719.	5.4	60
10	Motion-Sensorless Control of BLDC-PM Motor With Offline FEM-Information-Assisted Position and Speed Observer. IEEE Transactions on Industry Applications, 2012, 48, 1950-1958.	3.3	57
11	PLL Position and Speed Observer With Integrated Current Observer for Sensorless PMSM Drives. IEEE Transactions on Industrial Electronics, 2020, 67, 5990-5999.	5.2	57
12	Stable V/f control system with controlled power factor angle for permanent magnet synchronous motor drives. IET Electric Power Applications, 2013, 7, 278-286.	1.1	49
13	BEGA Starter/Alternator”Vector Control Implementation and Performance for Wide Speed Range at Unity Power Factor Operation. IEEE Transactions on Industry Applications, 2010, 46, 150-158.	3.3	37
14	Active flux based motion-sensorless vector control of DC-excited synchronous machines. , 2009, , .		31
15	Voltage Sags Ride-Through of Motion Sensorless Controlled PMSG for Wind Turbines. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	25
16	Adaptive Observer for Sensorless Control of Permanent Magnet Synchronous Motor Drives. Electric Power Components and Systems, 2002, 30, 107-119.	1.0	21
17	Stable V/f control system with unity power factor for PMSM drives. , 2012, , .		20
18	Step-Down Switched-Inductor Hybrid DC-DC Converter for Small Power Wind Energy Conversion Systems With Hybrid Storage. IEEE Access, 2020, 8, 136092-136107.	2.6	17

#	ARTICLE	IF	CITATIONS
19	Active-Flux-Based Motion-Sensorless Vector Control of Biaxial Excitation Generator/Motor for Automobiles. IEEE Transactions on Industry Applications, 2011, 47, 812-819.	3.3	13
20	IPMSM motion-sensorless direct torque and flux control. , 2005, , .		11
21	A class of fast dynamics V/f sensorless AC general drives with PM-RSM as a case study. , 2010, , .		11
22	Practical Wide-speed-range Sensorless Control System for Permanent Magnet Reluctance Synchronous Motor Drives via Active Flux Model. Electric Power Components and Systems, 2014, 42, 91-102.	1.0	11
23	Wide speed range sensorless control of PM-RSM via “active flux model”; , 2009, , .		8
24	Wide speed range V/f with stabilizing loops control of tooth-wound IPMSM drives. , 2012, , .		8
25	Integrated starter-alternator control system for automotive. , 2013, , .		8
26	Comparison of modified Smith predictor and PID controller tuned by genetic algorithms for greenhouse climate control. , 2014, , .		8
27	GREENHOUSE ENVIRONMENT MONITORING AND CONTROL: STATE OF THE ART AND CURRENT TRENDS. Environmental Engineering and Management Journal, 2018, 17, 399-416.	0.2	7
28	SCADA automation system laboratory, elements and applications. , 2009, , .		6
29	Novel motion sensorless control of single phase brushless D.C. PM motor drive, with experiments. , 2010, , .		6
30	Motion sensorless control of BLDC PM motor with offline FEM info assisted state observer. , 2010, , .		6
31	Improved state observers for sensorless single phase BLDC-PM motor drives. , 2010, , .		6
32	V/f control strategy with constant power factor for SPMSM drives, with experiments. , 2013, , .		6
33	V/f with Stabilizing Loops and MTPA versus Sensorless FOC for PMSM Drives. Electric Power Components and Systems, 2020, 48, 1197-1210.	1.0	6
34	Two Sliding Mode Based Observers for Sensorless Control of PMSM Drives. Electric Power Components and Systems, 2002, 30, 121-133.	1.0	5
35	Enhancement sensorless control system for PMSM drives using square-wave signal injection. , 2010, , .		5
36	New State Observers and Sensorless Control of Wound Rotor Induction Generator (WRIG) at Power Grid with Experimental Characterization. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4

#	ARTICLE	IF	CITATIONS
37	Active-flux based motion sensorless vector control of biaxial excitation generator/motor for automobiles (BEGA). , 2009, , .		4
38	SCADA system for a central heating and power plant. , 2009, , .		4
39	Novel motion sensorless control of high-speed small-power surface mount PMSM drives: With experiments. , 2008, , .		3
40	Employing 2DoF PID controllers to improve greenhouse climate system robustness. , 2013, , .		3
41	Self-commissioning of electrical parameters for PMSM in sensorless drives. , 2015, , .		3
42	Automotive Dead-Reckoning Navigation System Based on Vehicle Speed and YAW Rate. , 2018, , .		3
43	FEM assisted position and speed observer for BLDC PM motor drive sensorless control, with experiments. , 2010, , .		2
44	Bidirectional flyback inverter with low output voltage THD. , 2015, , .		2
45	Real-time interfacing for fault detection and auralization with MED-EL cochlear implant processors. , 2016, , .		2
46	Boiler-turbine simulator with real-time capability for dispatcher training using LabView. , 2010, , .		1
47	New autocorrelation based self-learning method to detect sound spectral components in cochlear nerve firing patterns in case of cochlear implants. , 2017, , .		1
48	Referencing position versus speed active flux based encoderless control of PM-RSM drives at ultra-low speeds without signal injection. , 2021, , .		1
49	PM-RSM sensorless vector control: Zero q-axis flux versus approximate maximum torque per current, with experiments. , 2010, , .		0
50	Alternative Energy II. , 2011, , 930-939.		0
51	THD improvement of a bidirectional flyback inverter by using sliding-mode control. , 2015, , .		0
52	Master-Slave Tracking System for Mobile Robots. , 2018, , .		0