

# Mehrdad Moallem

## List of Publications by Year in descending order

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60  
papers

937  
citations

566801

15  
h-index

476904

29  
g-index

60  
all docs

60  
docs citations

60  
times ranked

953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of a Wind Turbine With Doubly Fed Induction Generator by FAST and Simulink. IEEE Transactions on Energy Conversion, 2008, 23, 690-700.	3.7	135
2	A Piezoelectric Energy Harvester for Rotary Motion Applications: Design and Experiments. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1527-1534.	3.7	106
3	Regenerative Shock Absorber Using a Two-Leg Motion Conversion Mechanism. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2853-2861.	3.7	74
4	The Impact of Tower Shadow, Yaw Error, and Wind Shears on Power Quality in a Windâ€“Diesel System. IEEE Transactions on Energy Conversion, 2009, 24, 102-111.	3.7	71
5	A Novel Manipulator for Percutaneous Needle Insertion: Design and Experimentation. IEEE/ASME Transactions on Mechatronics, 2009, 14, 746-761.	3.7	66
6	An Adaptive PR Controller for Synchronizing Grid-Connected Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 2034-2043.	5.2	63
7	Energy Regenerative Suspension Using an Algebraic Screw Linkage Mechanism. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1251-1259.	3.7	62
8	Daylighting Control and Simulation for LED-Based Energy-Efficient Lighting Systems. IEEE Transactions on Industrial Informatics, 2016, 12, 301-309.	7.2	38
9	Multivariable Sliding-Mode Extremum Seeking Control With Application to MPPT of an Alternator-Based Energy Conversion System. IEEE Transactions on Industrial Electronics, 2017, 64, 6383-6391.	5.2	26
10	Using STATCOM to mitigate voltage fluctuations due to aerodynamic aspects of wind turbines. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	23
11	Improving Force Control Bandwidth of Flexible-Link Arms Through Output Redefinition. IEEE/ASME Transactions on Mechatronics, 2011, 16, 380-386.	3.7	21
12	Torque Ripple Minimization and Control of a Permanent Magnet Synchronous Motor Using Multiobjective Extremum Seeking. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2151-2160.	3.7	21
13	Voltage Source Converters Connected to Very Weak Grids: Accurate Dynamic Modeling, Small-Signal Analysis, and Stability Improvement. IEEE Access, 2020, 8, 201120-201133.	2.6	20
14	Energy-Efficient Supplemental LED Lighting Control for a Proof-of-Concept Greenhouse System. IEEE Transactions on Industrial Electronics, 2020, 67, 3033-3042.	5.2	18
15	Voltage Sag Impact on Wind Turbine Tower Vibration. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	17
16	Flicker Contribution of a Wind Power Plant with Single and Multiple Turbine Representations. , 2007, , .		12
17	PID-SMC controller for a 2-DOF planar robot. , 2019, , .		12
18	Multivariable slidingâ€“mode extremum seeking PI tuning for current control of a PMSM. IET Electric Power Applications, 2020, 14, 348-356.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Force Transmission Through a Structurally Flexible Beam: Dynamic Modeling and Feedback Control. IEEE Transactions on Control Systems Technology, 2009, 17, 1245-1256.	3.2	11
20	Flicker contribution of a wind turbine in a stand-alone wind diesel system. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	10
21	Prestiction Friction Modeling and Position Control in an Actuated Rotary Arm. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 131-139.	2.4	9
22	Bridgeless converter with input resistance control for lowâ€power energy harvesting applications. IET Power Electronics, 2015, 8, 822-830.	1.5	8
23	Torque control of a brushless DC motor using multivariable sliding mode extremum seeking PI tuning. , 2017, , .		7
24	Realization of an Energy-Efficient Adjustable Mechatronic Spring. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1877-1885.	3.7	7
25	Intelligent Spectrum Controlled Supplemental Lighting for Daylight Harvesting. IEEE Transactions on Industrial Informatics, 2021, 17, 3263-3272.	7.2	7
26	Development of an Intelligent LED Lighting Control Testbed for IoT-based Smart Greenhouses. , 2020, , .		7
27	Adaptive PI control of a three phase AC/DC PWM converter. , 2014, , .		6
28	Cylindrical Cam Electromagnetic Vibration Damper Utilizing Negative Shunt Resistance. IEEE/ASME Transactions on Mechatronics, 2020, 25, 996-1004.	3.7	6
29	Modeling and Control of a Three-Phase Boost Converter for Resistive Input Behavior. IEEE Transactions on Industrial Electronics, 2013, 60, 5854-5863.	5.2	5
30	Application of intelligent agent systems for real-time coordination of power converters (RCPC) in microgrids. , 2014, , .		5
31	Multimode Control of a Large-Scale Robotic Manipulator. , 2007, 23, 1264-1270.		4
32	A novel multi-loop self-tuning adaptive PI control scheme for switched reluctance motors. , 2014, , .		4
33	Multivariable sliding-mode extremum seeking control with application to alternator maximum power point tracking. , 2016, , .		4
34	Distributed control of converters in a DC microgrid using agent technology. , 2016, , .		4
35	Self-Tuning Active Tuned Mass Damper Utilizing Constrained Multi-Variable Sliding Mode Extremum-Seeking. , 2018, , .		4
36	Control of a highâ€voltage bidirectional dcâ€dc flyback converter for driving DEAs. IET Power Electronics, 2018, 11, 1698-1705.	1.5	4

#	ARTICLE	IF	CITATIONS
37	Dynamic Modeling and Stability Analysis of Converter-based Three-phase AC Microgrids with Active Loads. , 2019, , .		4
38	Power electronic shunt control for increasing the maximum available damping force in electromagnetic dampers. , 2017, , .		3
39	Automated Tuning of Resonance Frequency in an RF Cavity Resonator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 311-320.	3.7	3
40	Development of Greenhouse LED System with RedBlue Mixing Ratio and Daylight Control. , 2018, , .		3
41	Force Control of a Single-Link Flexible Arm. , 2006, , .		2
42	An Ultrasound Probe Holder for Image-Guided Robot-Assisted Prostate Brachytherapy. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	2
43	Neural network-based LED lighting control with modeling uncertainty and daylight disturbance. , 2017, , .		2
44	Agent-Based Coordinated Control of Power Electronic Converters in a Microgrid. Electronics (Switzerland), 2021, 10, 1031.	1.8	2
45	Sky-Hook Control for a Regenerative Suspension System. , 2014, , .		1
46	Methodology for reducing the filtering capacitor in lowâ€flicker LED drivers. Journal of Engineering, 2017, 2017, 266-273.	0.6	1
47	Development of FPGA based Hardware-in-the-loop Simulator for RF Cavity Resonator. , 2018, , .		1
48	DC Link Capacitor Voltage Balancing Method for Diode-Clamped Multilevel Converters. , 2019, , .		1
49	IoT based Plant Monitoring and Identification using Low-Cost Image Sensors. , 2019, , .		1
50	Microphonic Noise Cancellation in Super-Conducting Cavity. , 2019, , .		1
51	PMSM Torque Ripple Minimization Using an Adaptive Iterative Learning Control. , 2020, , .		1
52	Cavity resonator tuning using perturbation-based extremum seeking control. , 2017, , .		0
53	Minimum-Norm Current Control of Induction Machines. , 2018, , .		0
54	Optimal Reaction Control for the Flexible Base Redundant Manipulator System*. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	A Multi-level DC-Link Extremum-seeking PI Controller for a PMSM with Low Inductance. , 2019, , .		0
56	Assessment of Dynamic Instabilities in Weak Grids with High Penetration of Power Electronic Loads. , 2020, , .		0
57	Stability Analysis of a Remote DC Subgrid/Microgrid Connected to a Very Weak AC Grid. , 2021, , .		0
58	Logic-based space vector modulation for neutral-point-clamped multilevel inverter with DC-link voltage balancing capability. IET Power Electronics, 2020, 13, 4462-4470.	1.5	0
59	Dual Active Compensation for Voltage Source Rectifiers Under Very Weak Grid Conditions. IEEE Access, 2021, , 1-1.	2.6	0
60	Robust Predictor Feedback Input Delay Compensation with Application to Daylight Harvesting Control. , 2021, , .		0