

# Masoud Davari

## List of Publications by Year in descending order

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33  
papers

939  
citations

471509

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454955

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all docs

34  
docs citations

34  
times ranked

935  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel, Software-Defined Control Method Using Sparsely Activated Microcontroller for Low-Power, Multiple-Input, Single-Inductor, Multiple-Output DC-DC Converters to Increase Efficiency. IEEE Transactions on Industrial Electronics, 2023, 70, 2959-2970.	7.9	4
2	A Novel More Electric Aircraft Power System Rectifier Based on a Low-Rating Autotransformer. IEEE Transactions on Transportation Electrification, 2022, 8, 649-659.	7.8	13
3	Fault-Tolerant, Distributed Control for Emerging, VSC-Based, Islanded Microgrids- An Approach Based on Simultaneous Passive Fault Detection. IEEE Access, 2022, 10, 10995-11010.	4.2	5
4	Adaptive, Optimal, Virtual Synchronous Generator Control of Three-Phase Grid-Connected Inverters Under Different Grid Conditions- An Adaptive Dynamic Programming Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 7388-7399.	11.3	10
5	A Multivariable Controller in Synchronous Frame Integrating Phase-Locked Loop to Enhance Performance of Three-Phase Grid-Connected Inverters in Weak Grids. IEEE Transactions on Power Electronics, 2022, 37, 10348-10359.	7.9	11
6	A Modular Adaptive Robust Nonlinear Control for Resilient Integration of VSIs Into Emerging Modernized Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2907-2925.	5.4	14
7	An Optimal Primary Frequency Control Based on Adaptive Dynamic Programming for Islanded Modernized Microgrids. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1109-1121.	5.2	36
8	Assessing agricultural salt-affected land using digital soil mapping and hybridized random forests. Geoderma, 2021, 385, 114858.	5.1	54
9	Simultaneous prediction of several soil properties related to engineering uses based on laboratory Vis-NIR reflectance spectroscopy. Catena, 2021, 197, 104987.	5.0	25
10	A Novel IGDT-Based Method to Find the Most Susceptible Points of Cyberattack Impacting Operating Costs of VSC-Based Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3695-3714.	5.4	8
11	Grid Integration of a Dual Two-Level Voltage-Source Inverter Considering Grid Impedance and Phase-Locked Loop. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 401-422.	5.4	30
12	Internal Model Power Synchronization Control of a PV-Based Voltage-Source Converter in Weak-Grid and Islanded Conditions. IEEE Transactions on Sustainable Energy, 2021, 12, 1360-1371.	8.8	14
13	An Innovative, Adaptive Faulty Signal Rectifier Along with a Switching Controller for Reliable Primary Control of GC-VSIs in CPS-Based Modernized Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 8370-8387.	7.9	6
14	Detailed Dynamic DC Models of VSC Considering Controls for DC-Fault Simulations in Modernized Microgrid Protection. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4514-4532.	5.4	7
15	A Fault-Tolerant, Passivity-Based Controller Enhanced by the Equilibrium-to-Equilibrium Maneuver Capability for the DC-Voltage Power Port VSC in Multi-Input AC/DC Modernized Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2484-2507.	5.4	10
16	Reinforcement learning and non-zero-sum game output regulation for multi-player linear uncertain systems. Automatica, 2020, 112, 108672.	5.0	47
17	Advanced Current-Limiting and Power-Sharing Control in a PV-Based Grid-Forming Inverter Under Unbalanced Grid Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1084-1096.	5.4	58
18	Deforestation and cultivation of sparse forest impacts on soil quality (case study: West Iran, Baneh). Soil and Tillage Research, 2020, 198, 104504.	5.6	41

#	ARTICLE	IF	CITATIONS
19	Data-Driven Cooperative Output Regulation of Multi-Agent Systems via Robust Adaptive Dynamic Programming. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 447-451.	3.0	35
20	An Enhanced Control System for Single-Phase Inverters Interfaced With Weak and Distorted Grids. IEEE Transactions on Power Electronics, 2019, 34, 12538-12551.	7.9	43
21	Adapted near-state PWM for dual two-level inverters in order to reduce common-mode voltage and switching losses. IET Power Electronics, 2019, 12, 676-685.	2.1	14
22	An Innovative Event-Based Filtering Scheme Using $H_{\infty}$ Performance for Stochastic LTI Systems Considering A Practical Application in Smart Modernized Microgrids. IEEE Access, 2019, 7, 48138-48150.	4.2	7
23	An optimization Approach Based on the Interior-Point Methodology for the Tertiary Control of Modernized Microgrids. , 2019, , .		1
24	Analysing dynamics and synthesising a robust vector control for the dc-voltage power port based on the modular multilevel converter in multi-feed AC/DC smart grids. IET Smart Grid, 2019, 2, 645-658.	2.2	4
25	Robust Droop and DC-Bus Voltage Control for Effective Stabilization and Power Sharing in VSC Multiterminal DC Grids. IEEE Transactions on Power Electronics, 2018, 33, 4373-4395.	7.9	38
26	Dynamics of an industrial power amplifier for evaluating PHIL testing accuracy: An experimental approach via linear system identification methods. , 2018, , .		3
27	Robust Vector Control of a Very Weak-Grid-Connected Voltage-Source Converter Considering the Phase-Locked Loop Dynamics. IEEE Transactions on Power Electronics, 2017, 32, 977-994.	7.9	149
28	Modeling soil loss at plot scale with EUROSEM and RUSLE2 at stony soils of Khamesan watershed, Iran. Catena, 2016, 147, 773-788.	5.0	24
29	Dynamics and Robust Control of a Grid-Connected VSC in Multiterminal DC Grids Considering the Instantaneous Power of DC- and AC-Side Filters and DC Grid Uncertainty. IEEE Transactions on Power Electronics, 2016, 31, 1942-1958.	7.9	51
30	An analytical deterministic model for simultaneous phytoremediation of Ni and Cd from contaminated soils. Environmental Science and Pollution Research, 2015, 22, 4609-4620.	5.3	20
31	Competitive adsorption-desorption reactions of two hazardous heavy metals in contaminated soils. Environmental Science and Pollution Research, 2015, 22, 13024-13032.	5.3	25
32	Variable-Structure-Based Nonlinear Control for the Master VSC in DC-Energy-Pool Multiterminal Grids. IEEE Transactions on Power Electronics, 2014, 29, 6196-6213.	7.9	22
33	Robust Multi-Objective Control of VSC-Based DC-Voltage Power Port in Hybrid AC/DC Multi-Terminal Micro-Grids. IEEE Transactions on Smart Grid, 2013, 4, 1597-1612.	9.0	108