# Qobad Shafiee

List of Publications by Year
in descending order

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|---|---|---|---|
| 82<br>papers | 4,787<br>citations | 257450<br>24<br>h-index | 243625<br>44<br>g-index |
| 82<br>all docs | 82<br>docs citations | 82<br>times ranked | 3074<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Robust Performance Satisfaction of DC Microgrids Using a Decentralized Optimal Voltage Control Strategy. IEEE Systems Journal, 2022, 16, 464-474. | 4.6 | 10 |
| 2 | On the Design of Event-Triggered Consensus-Based Secondary Control of DC Microgrids. IEEE Transactions on Power Systems, 2022, 37, 3834-3846. | 6.5 | 11 |
| 3 | Modeling and robust structural control design for hybrid AC/DC microgrids with general topology. International Journal of Electrical Power and Energy Systems, 2022, 139, 108012. | 5.5 | 10 |
| 4 | Data-driven Predictive Control of Buck Converters Under Load and Input Voltage Uncertainties. , 2022, , . | | 0 |
| 5 | An Emergency Active and Reactive Power Exchange Solution for Interconnected Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5206-5218. | 5.4 | 12 |
| 6 | Decentralized Frequency Control of AC Microgrids: An Estimation-Based Consensus Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5183-5191. | 5.4 | 16 |
| 7 | Decentralized Voltage Stabilization and Robust Performance Satisfaction of Islanded Inverter-Interfaced Microgrids. IEEE Systems Journal, 2021, 15, 1893-1904. | 4.6 | 12 |
| 8 | Robust decentralized voltage control for uncertain DC microgrids. International Journal of Electrical Power and Energy Systems, 2021, 125, 106468. | 5.5 | 18 |
| 9 | A pilot-based unit protection scheme for meshed microgrids using apparent resistance estimation. International Journal of Electrical Power and Energy Systems, 2021, 126, 106564. | 5.5 | 10 |
| 10 | Low-Frequency Small-Signal Modeling of Interconnected AC Microgrids. IEEE Transactions on Power Systems, 2021, 36, 2786-2797. | 6.5 | 20 |
| 11 | Decentralized Model Predictive Control of DC Microgrids With Constant Power Load. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 451-460. | 5.4 | 54 |
| 12 | Linear Quadratic Regulator Based Smooth Transition Between Microgrid Operation Modes. IEEE Transactions on Smart Grid, 2021, 12, 4854-4864. | 9.0 | 10 |
| 13 | Event-Triggered Fully-Distributed Secondary Control of Islanded DC Microgrids Using Pre-defined Event Condition. , 2021, , . | | 1 |
| 14 | Performance and Vulnerability of Distributed Secondary Control of AC Microgrids under Cyber-Attack. , 2021, , . | | 1 |
| 15 | Guest Editorial Model Predictive Control in Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2021, 36, 1311-1312. | 5.2 | 0 |
| 16 | Hybrid Model Predictive Control of DCâ€“DC Boost Converters With Constant Power Load. IEEE Transactions on Energy Conversion, 2021, 36, 1347-1356. | 5.2 | 45 |
| 17 | Decentralized Voltage Control of Autonomous DC Microgrids With Robust Performance Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5508-5520. | 5.4 | 7 |
| 18 | Comprehensive small-signal modeling and Prony analysis-based validation of synchronous interconnected microgrids. Energy Reports, 2021, 7, 6677-6689. | 5.1 | 9 |

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|---|---|---|---|
| 19 | A Zeno-Free Event-Triggered Secondary Control for AC Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 1905-1916. | 9.0 | 45 |
| 20 | Interconnected Autonomous AC Microgrids via Back-to-Back Convertersâ€”Part I: Small-Signal Modeling. IEEE Transactions on Power Electronics, 2020, 35, 4728-4740. | 7.9 | 44 |
| 21 | Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. IEEE Transactions on Smart Grid, 2020, 11, 2106-2114. | 9.0 | 115 |
| 22 | Scalable Robust Voltage Control of DC Microgrids With Uncertain Constant Power Loads. IEEE Transactions on Power Systems, 2020, 35, 508-515. | 6.5 | 34 |
| 23 | Online Kron Reduction for Economical Frequency Control of Microgrids. IEEE Transactions on Industrial Electronics, 2020, 67, 8461-8471. | 7.9 | 10 |
| 24 | On the Secondary Control Architectures of AC Microgrids: An Overview. IEEE Transactions on Power Electronics, 2020, 35, 6482-6500. | 7.9 | 218 |
| 25 | Control of a super-capacitor energy storage system to mimic inertia and transient response improvement of a direct current micro-grid. Journal of Energy Storage, 2020, 32, 101788. | 8.1 | 30 |
| 26 | Decentralized Robust Voltage Control of Islanded AC Microgrids: An LMI-Based $H_{infty}$ Approach. , 2020, , . | | 6 |
| 27 | Decentralized Scalable Robust Voltage Control for Islanded AC Microgrids with General Topology. , 2020, , . | | 1 |
| 28 | Robust High-Rate Secondary Control of Microgrids With Mitigation of Communication Impairments. IEEE Transactions on Power Electronics, 2020, 35, 12486-12496. | 7.9 | 30 |
| 29 | Interconnected Autonomous ac Microgrids via Back-to-Back Convertersâ€”Part II: Stability Analysis. IEEE Transactions on Power Electronics, 2020, 35, 11801-11812. | 7.9 | 22 |
| 30 | An Analytical Approach for Design of a Cross-Connected Fibonacci Switched Capacitor Converter. Energies, 2020, 13, 431. | 3.1 | 5 |
| 31 | Economical Secondary Control of DC Microgrids. , 2020, , . | | 3 |
| 32 | Decentralized Multivariable Vector Current Control of Grid-connected Voltage Source Inverters. IFAC-PapersOnLine, 2020, 53, 12410-12415. | 0.9 | 2 |
| 33 | Scalable PI Voltage Stabilization in DC Microgrids. IFAC-PapersOnLine, 2020, 53, 12882-12887. | 0.9 | 5 |
| 34 | Online generalized droop-based demand response for frequency control in islanded microgrids. Electrical Engineering, 2019, 101, 409-420. | 2.0 | 11 |
| 35 | Optimal Robust Control of LCL-type Grid-Connected Voltage Source Inverters against Grid Impedance Fluctuations. , 2019, , . | | 0 |
| 36 | An Instantaneous Event-Triggered Hzâ€“Watt Control for Microgrids. IEEE Transactions on Power Systems, 2019, 34, 3616-3625. | 6.5 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Massive Open Online Labs (MOOLs): An Innovative Solution to Achieving SDGs in the Global South. , 2019, , . | | 8 |
| 38 | Adaptive Backstepping Design for Stabilizing Synchronverter Control Topology in AC Microgrids. , 2019, , . | | 0 |
| 39 | Need-Based Communication in Fully-Distributed Secondary Control of DC Microgrids. , 2019, , . | | 3 |
| 40 | Estimation-based Consensus Approach for Decentralized Frequency Control of AC Microgrids. , 2019, , . | | 9 |
| 41 | Model Validation of Power Electronics-based Networked Micro-grids by Prony Analysis. , 2019, , . | | 5 |
| 42 | Decentralized Optimal Frequency Control in Autonomous Microgrids. IEEE Transactions on Power Systems, 2019, 34, 2345-2353. | 6.5 | 77 |
| 43 | Distributed Control of Low-Voltage Resistive AC Microgrids. IEEE Transactions on Energy Conversion, 2019, 34, 573-584. | 5.2 | 49 |
| 44 | Robust single primary control loop for AC microgrids. , 2018, , . | | 0 |
| 45 | Modeling of voltage source converters in microgrids using equivalent thevenin circuit. , 2018, , . | | 8 |
| 46 | Event-triggered voltage control of inverter-based microgrids. , 2018, , . | | 6 |
| 47 | Intelligent Demand Response Contribution in Frequency Control of Multi-Area Power Systems. IEEE Transactions on Smart Grid, 2018, 9, 1282-1291. | 9.0 | 120 |
| 48 | A Multi-Functional Fully Distributed Control Framework for AC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3247-3258. | 9.0 | 123 |
| 49 | Plug-and-Play Robust Voltage Control of DC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6886-6896. | 9.0 | 104 |
| 50 | Model Predictive and SDRE Control of DC Microgrids with Constant Power Loads: A Comparative Study. , 2018, , . | | 2 |
| 51 | Kron Reduction and L<sub>2</sub>-Stability for Plug-and-Play Frequency Control of Microgrids. , 2018, , . | | 4 |
| 52 | Dynamic Performance Improvement of DC Microgrids Using Virtual Impedance. , 2018, , . | | 2 |
| 53 | Robust Frequency Control of Microgrids Using an Extended Virtual Synchronous Generator. IEEE Transactions on Power Systems, 2018, 33, 6289-6297. | 6.5 | 191 |
| 54 | Review on Control of DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, , 1-1. | 5.4 | 289 |

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|---|---|---|---|
| 55 | A Distributed Control Framework for Integrated Photovoltaic-Battery-Based Islanded Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 2837-2848. | 9.0 | 60 |
| 56 | Plug-and-Play Voltage Stabilization in Inverter-Interfaced Microgrids via a Robust Control Strategy. IEEE Transactions on Control Systems Technology, 2017, 25, 781-791. | 5.2 | 87 |
| 57 | On the Design of Suboptimal Controller for DC Microgrids with CPL. Energy Procedia, 2017, 141, 611-618. | 1.8 | 3 |
| 58 | Generalized droop characteristic-based Demand response and secondary frequency control coordination in an isolated microgrid. , 2017, , . | | 1 |
| 59 | Distributed and decentralized control architectures for converter-interfaced microgrids. Chinese Journal of Electrical Engineering, 2017, 3, 41-52. | 3.4 | 34 |
| 60 | Robust control of a DC-DC boost converter: H<inf>2</inf> and H<inf>â^ž</inf> techniques. , 2017, , . | | 8 |
| 61 | Improved grid operation through power smoothing control strategies utilizing dedicated energy storage at an electric vehicle charging station. , 2016, , . | | 3 |
| 62 | Distributed voltage control and load sharing for inverter-interfaced microdrid with resistive lines. , 2016, , . | | 4 |
| 63 | Optimal adaptive droop control for effective load sharing in AC microgrids. , 2016, , . | | 16 |
| 64 | A fuzzy inference model for distributed secondary control of islanded microgrids. , 2016, , . | | 2 |
| 65 | Droop-Free Distributed Control for AC Microgrids. IEEE Transactions on Power Electronics, 2016, 31, 1600-1617. | 7.9 | 248 |
| 66 | Secondary Frequency and Voltage Control of Islanded Microgrids via Distributed Averaging. IEEE Transactions on Industrial Electronics, 2015, 62, 7025-7038. | 7.9 | 760 |
| 67 | Cooperative frequency control for autonomous AC Microgrids. , 2015, , . | | 6 |
| 68 | Droop-free team-oriented control for AC distribution systems. , 2015, , . | | 5 |
| 69 | Adaptive virtual impedance scheme for selective compensation of voltage unbalance and harmonics in microgrids. , 2015, , . | | 23 |
| 70 | Distributed consensus-based control of multiple DC-microgrids clusters. , 2014, , . | | 40 |
| 71 | Team-oriented adaptive droop control for autonomous AC microgrids. , 2014, , . | | 18 |
| 72 | Robust Networked Control Scheme for Distributed Secondary Control of Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2014, 61, 5363-5374. | 7.9 | 211 |

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|---|---|---|---|
| 73 | Hierarchical Control for Multiple DC-Microgrids Clusters. IEEE Transactions on Energy Conversion, 2014, 29, 922-933. | 5.2 | 338 |
| 74 | Modeling and control of flexible HEV charging station upgraded with flywheel energy storage. , 2014, , . | | 4 |
| 75 | Hierarchical control for multiple DC-microgrids clusters. , 2014, , . | | 25 |
| 76 | Modeling, stability analysis and active stabilization of multiple DC-microgrid clusters. , 2014, , . | | 60 |
| 77 | Distributed Secondary Control for Islanded Microgridsâ€”A Novel Approach. IEEE Transactions on Power Electronics, 2014, 29, 1018-1031. | 7.9 | 854 |
| 78 | Stability, power sharing, & distributed secondary control in droop-controlled microgrids. , 2013, , . | | 47 |
| 79 | A novel robust communication algorithm for distributed secondary control of islanded MicroGrids. , 2013, , . | | 4 |
| 80 | Distributed secondary control for islanded MicroGrids - A networked control systems approach. , 2012, , . | | 64 |
| 81 | Decentralized Model Predictive load-frequency control for deregulated power systems in a tough situation. , 2011, , . | | 15 |
| 82 | Comprehensive Small-Signal Modeling and Prony Analysis-Based Validation of Synchronous Interconnected Microgrids. SSRN Electronic Journal, 0, , . | 0.4 | 0 |