

Hasan Komurcugil

List of Publications by Year in descending order

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140
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2081
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| # | ARTICLE | IF | CITATIONS |
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| 1 | Lyapunov-based control for three-phase PWM AC/DC voltage-source converters. IEEE Transactions on Power Electronics, 1998, 13, 801-813. | 5.4 | 206 |
| 2 | Lyapunov-Function and Proportional-Resonant-Based Control Strategy for Single-Phase Grid-Connected VSI With LCL Filter. IEEE Transactions on Industrial Electronics, 2016, 63, 2838-2849. | 5.2 | 176 |
| 3 | Rotating-Sliding-Line-Based Sliding-Mode Control for Single-Phase UPS Inverters. IEEE Transactions on Industrial Electronics, 2012, 59, 3719-3726. | 5.2 | 170 |
| 4 | An Extended Lyapunov-Function-Based Control Strategy for Single-Phase UPS Inverters. IEEE Transactions on Power Electronics, 2015, 30, 3976-3983. | 5.4 | 159 |
| 5 | Adaptive terminal sliding-mode control strategy for DCâ€“DC buck converters. ISA Transactions, 2012, 51, 673-681. | 3.1 | 154 |
| 6 | Sliding-Mode Control for Single-Phase Grid-Connected LCL -Filtered VSI With Double-Band Hysteresis Scheme. IEEE Transactions on Industrial Electronics, 2016, 63, 864-873. | 5.2 | 143 |
| 7 | A Three-Level Hysteresis Function Approach to the Sliding-Mode Control of Single-Phase UPS Inverters. IEEE Transactions on Industrial Electronics, 2009, 56, 3477-3486. | 5.2 | 132 |
| 8 | A new control strategy for single-phase shunt active power filters using a Lyapunov function. IEEE Transactions on Industrial Electronics, 2006, 53, 305-312. | 5.2 | 130 |
| 9 | Non-singular terminal sliding-mode control of DCâ€“DC buck converters. Control Engineering Practice, 2013, 21, 321-332. | 3.2 | 119 |
| 10 | Optimized Sliding Mode Control to Maximize Existence Region for Single-Phase Dynamic Voltage Restorers. IEEE Transactions on Industrial Informatics, 2016, 12, 1486-1497. | 7.2 | 102 |
| 11 | Improved passivityâ€“based control method and its robustness analysis for singleâ€“phase uninterruptible power supply inverters. IET Power Electronics, 2015, 8, 1558-1570. | 1.5 | 90 |
| 12 | Sliding Mode Control: Overview of Its Applications in Power Converters. IEEE Industrial Electronics Magazine, 2021, 15, 40-49. | 2.3 | 86 |
| 13 | Sliding-Mode Control in Natural Frame With Reduced Number of Sensors for Three-Phase Grid-Tied <i>LCL</i> -Interfaced Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 2903-2913. | 5.2 | 73 |
| 14 | Steady-State Analysis and Passivity-Based Control of Single-Phase PWM Current-Source Inverters. IEEE Transactions on Industrial Electronics, 2010, 57, 1026-1030. | 5.2 | 72 |
| 15 | A novel current-control method for three-phase PWM AC/DC voltage-source converters. IEEE Transactions on Industrial Electronics, 1999, 46, 544-553. | 5.2 | 71 |
| 16 | Protection of Sensitive Loads Using Sliding Mode Controlled Three-Phase DVR With Adaptive Notch Filter. IEEE Transactions on Industrial Electronics, 2019, 66, 5465-5475. | 5.2 | 68 |
| 17 | Deadbeat control method for single-phase UPS inverters with compensation of computation delay. IET Electric Power Applications, 1999, 146, 123. | 1.4 | 61 |
| 18 | Time-Varying and Constant Switching Frequency-Based Sliding-Mode Control Methods for Transformerless DVR Employing Half-Bridge VSI. IEEE Transactions on Industrial Electronics, 2017, 64, 2570-2579. | 5.2 | 58 |

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| 20 | Decoupled sliding-mode controller based on time-varying sliding surfaces for fourth-order systems. Expert Systems With Applications, 2010, 37, 6764-6774. | 4.4 | 48 |
| 21 | Variable- and Fixed-Switching-Frequency-Based HCC Methods for Grid-Connected VSI With Active Damping and Zero Steady-State Error. IEEE Transactions on Industrial Electronics, 2017, 64, 7009-7018. | 5.2 | 48 |
| 22 | An Enhanced Lyapunov-Function Based Control Scheme for Three-Phase Grid-Tied VSI With LCL Filter. IEEE Transactions on Sustainable Energy, 2019, 10, 504-513. | 5.9 | 45 |
| 23 | Comparative study on Lyapunov-function-based control schemes for single-phase grid-connected voltage-source inverter with LCL filter. IET Renewable Power Generation, 2017, 11, 1473-1482. | 1.7 | 44 |
| 24 | Control strategy for single-phase UPS inverters. IET Electric Power Applications, 2003, 150, 743. | 1.4 | 43 |
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| 26 | Nonsingular decoupled terminal sliding-mode control for a class of fourth-order nonlinear systems. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2527-2539. | 1.7 | 40 |
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| 29 | Multi-Input Multi-Output-Based Sliding-Mode Controller for Single-Phase Quasi-Z-Source Inverters. IEEE Transactions on Industrial Electronics, 2020, 67, 6439-6449. | 5.2 | 38 |
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| 31 | Sliding-Mode Control Strategy for Three-Phase Three-Level T-Type Rectifiers With DC Capacitor Voltage Balancing. IEEE Access, 2020, 8, 64555-64564. | 2.6 | 34 |
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| 36 | Model Predictive Control of DC-DC SEPIC Converters With Autotuning Weighting Factor. IEEE Transactions on Industrial Electronics, 2021, 68, 9433-9443. | 5.2 | 25 |

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| 37 | Control strategy for single-phase PWM rectifiers. Electronics Letters, 1997, 33, 1745. | 0.5 | 24 |
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| 41 | Time-varying sliding-coefficient-based decoupled terminal sliding-mode control for a class of fourth-order systems. ISA Transactions, 2014, 53, 1044-1053. | 3.1 | 18 |
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