# Han-Ho Choi

List of Publications by Year
in descending order

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|---|---|---|---|
| 60 papers | 3,084 citations | 196777 29 h-index | 175968 55 g-index |
| 60 all docs | 60 docs citations | 60 times ranked | 2610 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Robust Iterative Learning Control Technique to Efficiently Mitigate Disturbances for Three-Phase Standalone Inverters. IEEE Transactions on Industrial Electronics, 2022, 69, 3233-3244. | 5.2 | 7 |
| 2 | Computationally Efficient Deadbeat Direct Torque Control Considering Speed Dynamics for a Surface-Mounted PMSM Drive. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3407-3418. | 3.7 | 6 |
| 3 | Transformerless Quadruple High Step-Up DC/DC Converter Using Coupled Inductors. IEEE Access, 2022, 10, 26501-26513. | 2.6 | 3 |
| 4 | Observer-based deadbeat predictive speed controller for surface-mounted PM synchronous motor. ISA Transactions, 2021, 110, 305-318. | 3.1 | 6 |
| 5 | A Comparative Study on Reduced-Order Disturbance Observer-Based Optimal Control Strategies for Surface-Mounted PMSM Drives. IEEE Access, 2021, 9, 122983-122994. | 2.6 | 2 |
| 6 | Improved Continuous Control Set Model Predictive Control for Three-Phase CVCF Inverters: Fuzzy Logic Approach. IEEE Access, 2021, 9, 75158-75168. | 2.6 | 11 |
| 7 | An Optimal Direct Torque Control Strategy for Surface-Mounted Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Industrial Informatics, 2021, 17, 7390-7400. | 7.2 | 16 |
| 8 | Highly Efficient Bidirectional Current-Fed Resonant Converter Over a Wide Voltage Gain Range. IEEE Transactions on Industrial Electronics, 2021, 68, 10913-10927. | 5.2 | 8 |
| 9 | Improved Iterative Learning Direct Torque Control for Torque Ripple Minimization of Surface-Mounted Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Industrial Informatics, 2021, 17, 7291-7303. | 7.2 | 18 |
| 10 | An Online Torque Ripple Minimization Technique for IPMSM Drives: Fuzzy System-Based d-Axis Current Design Approach. IEEE Transactions on Industrial Electronics, 2021, 68, 11794-11805. | 5.2 | 12 |
| 11 | A Robust Adaptive PI Voltage Controller to Eliminate Impact of Disturbances and Distorted Model Parameters for 3-Phase CVCF Inverters. IEEE Transactions on Industrial Informatics, 2020, 16, 2168-2176. | 7.2 | 29 |
| 12 | MRAC-Based Voltage Controller for Three-Phase CVCF Inverters to Attenuate Parameter Uncertainties Under Critical Load Conditions. IEEE Transactions on Power Electronics, 2020, 35, 1002-1013. | 5.4 | 20 |
| 13 | Bridgeless Triple-Mode Resonant ACâ€“DC Converter: Dynamic Modeling and Controls. IEEE Transactions on Industrial Electronics, 2020, 67, 4921-4933. | 5.2 | 3 |
| 14 | Improved Iterative Learning Control Strategy for Surface-Mounted Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Industrial Electronics, 2020, 67, 10134-10144. | 5.2 | 20 |
| 15 | Non-Isolated High Step-Up DC/DC Converter With Coupled Inductor and Switched Capacitor. IEEE Access, 2020, 8, 217108-217122. | 2.6 | 28 |
| 16 | Disturbance Attenuation for Surface-Mounted PMSM Drives Using Nonlinear Disturbance Observer-Based Sliding Mode Control. IEEE Access, 2020, 8, 86345-86356. | 2.6 | 34 |
| 17 | An Improved Sliding Mode Control Technique to Mitigate Mismatched Parameter Uncertainties of Three-Phase Voltage Source Inverters. IEEE Access, 2020, 8, 81932-81942. | 2.6 | 9 |
| 18 | High Step-Up Interleaved Converter Mixed With Magnetic Coupling and Voltage Lift. IEEE Access, 2020, 8, 72768-72780. | 2.6 | 14 |

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|---|---|---|---|
| 19 | Improved Torque Ripple Minimization Technique With Enhanced Efficiency for Surface- Mounted PMSM Drives. IEEE Access, 2020, 8, 115017-115027. | 2.6 | 11 |
| 20 | Digital Implementation of Fractional Order PID-Type Controller for Boost DCâ€“DC Converter. IEEE Access, 2019, 7, 142652-142662. | 2.6 | 56 |
| 21 | Disturbance Rejection of IPMSM Drives by Simplified Taylor Series-Based Near Optimal Control Scheme in Wide Speed Range. IEEE Access, 2019, 7, 20553-20566. | 2.6 | 3 |
| 22 | A Robust High-Order Disturbance Observer Design for SDRE-Based Suboptimal Speed Controller of Interior PMSM Drives. IEEE Access, 2019, 7, 165671-165683. | 2.6 | 14 |
| 23 | Compensation of Parameter Uncertainty Using an Adaptive Sliding Mode Control Strategy for an Interior Permanent Magnet Synchronous Motor Drive. IEEE Access, 2019, 7, 11913-11923. | 2.6 | 26 |
| 24 | Variable Structure Speed Controller Guaranteeing Robust Transient Performance of an IPMSM Drive. IEEE Transactions on Industrial Informatics, 2019, 15, 3300-3310. | 7.2 | 8 |
| 25 | A Model Reference Adaptive Control Based Speed Controller for a Surface-Mounted Permanent Magnet Synchronous Motor Drive. IEEE Transactions on Industrial Electronics, 2018, 65, 9399-9409. | 5.2 | 89 |
| 26 | Model Predictive Control with Modulated Optimal Vector for a Three-Phase Inverter with an LC Filter. IEEE Transactions on Power Electronics, 2018, 33, 2690-2703. | 5.4 | 87 |
| 27 | Fuzzy Model Predictive Direct Torque Control of IPMSMs for Electric Vehicle Applications. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1542-1553. | 3.7 | 54 |
| 28 | Finite Set Model Predictive Control of Interior PM Synchronous Motor Drives With an External Disturbance Rejection Technique. IEEE/ASME Transactions on Mechatronics, 2017, 22, 762-773. | 3.7 | 71 |
| 29 | Online Parameter Identification for Model-Based Sensorless Control of Interior Permanent Magnet Synchronous Machine. IEEE Transactions on Power Electronics, 2017, 32, 4631-4643. | 5.4 | 102 |
| 30 | Online Parameter Estimation Technique for Adaptive Control Applications of Interior PM Synchronous Motor Drives. IEEE Transactions on Industrial Electronics, 2016, 63, 1438-1449. | 5.2 | 136 |
| 31 | Feedback Linearization Direct Torque Control With Reduced Torque and Flux Ripples for IPMSM Drives. IEEE Transactions on Power Electronics, 2016, 31, 3728-3737. | 5.4 | 101 |
| 32 | An Observer-Based Optimal Voltage Control Scheme for Three-Phase UPS Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 2073-2081. | 5.2 | 82 |
| 33 | Experimental Validation of a Fuzzy Adaptive Voltage Controller for Three-Phase PWM Inverter of a Standalone DG Unit. IEEE Transactions on Industrial Informatics, 2015, 11, 632-641. | 7.2 | 36 |
| 34 | Nonlinear Optimal DTC Design and Stability Analysis for Interior Permanent Magnet Synchronous Motor Drives. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2716-2725. | 3.7 | 41 |
| 35 | Implementation of Evolutionary Fuzzy PID Speed Controller for PM Synchronous Motor. IEEE Transactions on Industrial Informatics, 2015, 11, 540-547. | 7.2 | 93 |
| 36 | Speed control system design and experimentation for interior PMSM drives. International Journal of Electronics, 2015, 102, 864-885. | 0.9 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | θ-<italic>D</italic> Approximation Technique for Nonlinear Optimal Speed Control Design of Surface-Mounted PMSM Drives. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1822-1831. | 3.7 | 42 |
| 38 | Adaptive PID Speed Control Design for Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Power Electronics, 2015, 30, 900-908. | 5.4 | 236 |
| 39 | A Three-Phase Inverter for a Standalone Distributed Generation System: Adaptive Voltage Control Design and Stability Analysis. IEEE Transactions on Energy Conversion, 2014, 29, 46-56. | 3.7 | 65 |
| 40 | Suboptimal Control Scheme Design for Interior Permanent-Magnet Synchronous Motors: An SDRE-Based Approach. IEEE Transactions on Power Electronics, 2014, 29, 3020-3031. | 5.4 | 74 |
| 41 | An Adaptive Voltage Control Strategy of Three-Phase Inverter for Stand-Alone Distributed Generation Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 5660-5672. | 5.2 | 91 |
| 42 | Discrete-Time Fuzzy Speed Regulator Design for PM Synchronous Motor. IEEE Transactions on Industrial Electronics, 2013, 60, 600-607. | 5.2 | 54 |
| 43 | Tâ€“S Fuzzy-Model-Based Sliding-Mode Control for Surface-Mounted Permanent-Magnet Synchronous Motors Considering Uncertainties. IEEE Transactions on Industrial Electronics, 2013, 60, 4281-4291. | 5.2 | 68 |
| 44 | Neuro-Fuzzy Control of Interior Permanent Magnet Synchronous Motors: Stability Analysis and Implementation. Journal of Electrical Engineering and Technology, 2013, 8, 1439-1450. | 1.2 | 21 |
| 45 | SDRE-Based Near Optimal Control System Design for PM Synchronous Motor. IEEE Transactions on Industrial Electronics, 2012, 59, 4063-4074. | 5.2 | 68 |
| 46 | Fuzzy Sliding Mode Speed Controller for PM Synchronous Motors With a Load Torque Observer. IEEE Transactions on Power Electronics, 2012, 27, 1530-1539. | 5.4 | 164 |
| 47 | SDRE-based near optimal nonlinear controller design for unified chaotic systems. Nonlinear Dynamics, 2012, 70, 2063-2070. | 2.7 | 8 |
| 48 | Certainty equivalence adaptive speed controller for permanent magnet synchronous motor. Mechatronics, 2012, 22, 811-818. | 2.0 | 26 |
| 49 | Design and Implementation of a Takagiâ€“Sugeno Fuzzy Speed Regulator for a Permanent Magnet Synchronous Motor. IEEE Transactions on Industrial Electronics, 2012, 59, 3069-3077. | 5.2 | 29 |
| 50 | LMI-based Sliding Mode Speed Tracking Control Design for Surface-mounted Permanent Magnet Synchronous Motors. Journal of Electrical Engineering and Technology, 2012, 7, 513-523. | 1.2 | 29 |
| 51 | Digital Implementation of an Adaptive Speed Regulator for a PMSM. IEEE Transactions on Power Electronics, 2011, 26, 3-8. | 5.4 | 116 |
| 52 | Takagiâ€“Sugeno fuzzy speed controller design for a permanent magnet synchronous motor. Mechatronics, 2011, 21, 1317-1328. | 2.0 | 23 |
| 53 | Robust Stabilization of Uncertain Fuzzy-Time-Delay Systems Using Sliding-Mode-Control Approach. IEEE Transactions on Fuzzy Systems, 2010, 18, 979-984. | 6.5 | 55 |
| 54 | Robust Stabilization of Uncertain Fuzzy Systems Using Variable Structure System Approach. IEEE Transactions on Fuzzy Systems, 2008, 16, 715-724. | 6.5 | 62 |

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|---|---|---|---|
| 55 | Sliding-Mode Output Feedback Control Design. IEEE Transactions on Industrial Electronics, 2008, 55, 4047-4054. | 5.2 | 86 |
| 56 | LMI-Based Nonlinear Fuzzy Observer-Controller Design for Uncertain MIMO Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2007, 15, 956-971. | 6.5 | 76 |
| 57 | LMI-Based Sliding Surface Design for Integral Sliding Mode Control of Mismatched Uncertain Systems. IEEE Transactions on Automatic Control, 2007, 52, 736-742. | 3.6 | 254 |
| 58 | Application of neural network controller for maximum power extraction of a grid-connected wind turbine system. Electrical Engineering, 2005, 88, 45-53. | 1.2 | 52 |
| 59 | An Analysis and Design Method for Uncertain Variable Structure Systems With Bounded Controllers. IEEE Transactions on Automatic Control, 2004, 49, 602-607. | 3.6 | 16 |
| 60 | An LMI-based switching surface design method for a class of mismatched uncertain systems. IEEE Transactions on Automatic Control, 2003, 48, 1634-1638. | 3.6 | 107 |