

# Muhammad Saad Rafaq

## List of Publications by Year in descending order

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papers

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840776

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docs citations

16  
times ranked

561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Online Parameter Estimation Technique for Adaptive Control Applications of Interior PM Synchronous Motor Drives. IEEE Transactions on Industrial Electronics, 2016, 63, 1438-1449.	7.9	136
2	A Comprehensive Review of State-of-the-Art Parameter Estimation Techniques for Permanent Magnet Synchronous Motors in Wide Speed Range. IEEE Transactions on Industrial Informatics, 2020, 16, 4747-4758.	11.3	118
3	Online Parameter Identification for Model-Based Sensorless Control of Interior Permanent Magnet Synchronous Machine. IEEE Transactions on Power Electronics, 2017, 32, 4631-4643.	7.9	102
4	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.	7.9	89
5	Airgap Search Coil Based Identification of PM Synchronous Motor Defects. IEEE Transactions on Industrial Electronics, 2022, 69, 6551-6560.	7.9	31
6	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.	11.3	29
7	Finite-Set Model Predictive Control Scheme With an Optimal Switching Voltage Vector Technique for High-Performance IPMSM Drive Applications. IEEE Transactions on Industrial Informatics, 2018, 14, 3840-3848.	11.3	28
8	Online Multiparameter Estimation for Robust Adaptive Decoupling PI Controllers of an IPMSM Drive: Variable Regularized APAs. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1386-1395.	5.8	17
9	Reliable Airgap Search Coil Based Detection of Induction Motor Rotor Faults Under False Negative Motor Current Signature Analysis Indications. IEEE Transactions on Industrial Informatics, 2022, 18, 3276-3285.	11.3	17
10	A Simple Method for Identifying Mass Unbalance Using Vibration Measurement in Permanent Magnet Synchronous Motors. IEEE Transactions on Industrial Electronics, 2022, 69, 6441-6444.	7.9	17
11	A Robust High-Order Disturbance Observer Design for SDRE-Based Suboptimal Speed Controller of Interior PMSM Drives. IEEE Access, 2019, 7, 165671-165683.	4.2	14
12	Improved Torque Ripple Minimization Technique With Enhanced Efficiency for Surface-Mounted PMSM Drives. IEEE Access, 2020, 8, 115017-115027.	4.2	11
13	An Improved Sliding Mode Control Technique to Mitigate Mismatched Parameter Uncertainties of Three-Phase Voltage Source Inverters. IEEE Access, 2020, 8, 81932-81942.	4.2	9
14	A comprehensive state-of-the-art review of power conditioning systems for energy storage systems: Topology and control applications in power systems. IET Renewable Power Generation, 2022, 16, 1971-1991.	3.1	8
15	Observer-based deadbeat predictive speed controller for surface-mounted PM synchronous motor. ISA Transactions, 2021, 110, 305-318.	5.7	6
16	Disturbance Rejection of IPMSM Drives by Simplified Taylor Series-Based Near Optimal Control Scheme in Wide Speed Range. IEEE Access, 2019, 7, 20553-20566.	4.2	3