

# Luis Romeral

## List of Publications by Year in descending order

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35  
papers

2,426  
citations

257450

24  
h-index

454955

30  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault Detection in Induction Machines Using Power Spectral Density in Wavelet Decomposition. IEEE Transactions on Industrial Electronics, 2008, 55, 633-643.	7.9	431
2	Modeling of Surface-Mounted Permanent Magnet Synchronous Motors With Stator Winding Interturn Faults. IEEE Transactions on Industrial Electronics, 2011, 58, 1576-1585.	7.9	214
3	Fault Detection by Means of Hilbert–Huang Transform of the Stator Current in a PMSM With Demagnetization. IEEE Transactions on Energy Conversion, 2010, 25, 312-318.	5.2	192
4	Rare-earth-free propulsion motors for electric vehicles: A technology review. Renewable and Sustainable Energy Reviews, 2016, 57, 367-379.	16.4	179
5	Detection of Demagnetization Faults in Permanent-Magnet Synchronous Motors Under Nonstationary Conditions. IEEE Transactions on Magnetics, 2009, 45, 2961-2969.	2.1	178
6	Detection of Demagnetization Faults in Surface-Mounted Permanent Magnet Synchronous Motors by Means of the Zero-Sequence Voltage Component. IEEE Transactions on Energy Conversion, 2012, 27, 42-51.	5.2	135
7	Diagnosis of Interturn Faults in PMSMs Operating Under Nonstationary Conditions by Applying Order Tracking Filtering. IEEE Transactions on Power Electronics, 2013, 28, 507-515.	7.9	124
8	A Back-emf Based Method to Detect Magnet Failures in PMSMs. IEEE Transactions on Magnetics, 2013, 49, 591-598.	2.1	115
9	Observer-based open transistor fault diagnosis and fault-tolerant control of five-phase permanent magnet motor drive for application in electric vehicles. IET Power Electronics, 2015, 8, 76-87.	2.1	110
10	Fault Detection and Fault Tolerant Operation of a Five Phase PM Motor Drive Using Adaptive Model Identification Approach. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 212-223.	5.4	86
11	Influence of the Stator Windings Configuration in the Currents and Zero-Sequence Voltage Harmonics in Permanent Magnet Synchronous Motors With Demagnetization Faults. IEEE Transactions on Magnetics, 2013, 49, 4885-4893.	2.1	60
12	Motor Fault Detection Using a Rogowski Sensor Without an Integrator. IEEE Transactions on Industrial Electronics, 2009, 56, 4062-4070.	7.9	58
13	Application of the zero-sequence voltage component to detect stator winding inter-turn faults in PMSMs. Electric Power Systems Research, 2012, 89, 38-44.	3.6	55
14	Shaft Trajectory Analysis in a Partially Demagnetized Permanent-Magnet Synchronous Motor. IEEE Transactions on Industrial Electronics, 2013, 60, 3454-3461.	7.9	51
15	Detection of Partial Demagnetization Fault in PMSMs Operating Under Nonstationary Conditions. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	43
16	Design and Optimization for Vehicle Driving Cycle of Rare-Earth-Free SynRM Based on Coupled Lumped Thermal and Magnetic Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 196-205.	6.3	42
17	Demagnetization diagnosis in permanent magnet synchronous motors under non-stationary speed conditions. Electric Power Systems Research, 2010, 80, 1277-1285.	3.6	40
18	A Simple 2-D Finite-Element Geometry for Analyzing Surface-Mounted Synchronous Machines With Skewed Rotor Magnets. IEEE Transactions on Magnetics, 2010, 46, 3948-3954.	2.1	38

#	ARTICLE	IF	CITATIONS
19	Detection of interturn faults in PMSMs with different winding configurations. Energy Conversion and Management, 2014, 79, 534-542.	9.2	37
20	Defect reconstruction by non-destructive testing with laser induced ultrasonic detection. Ultrasonics, 2020, 101, 106000.	3.9	31
21	Activity-aware HVAC power demand forecasting. Energy and Buildings, 2018, 170, 15-24.	6.7	30
22	Computationally Efficient Design and Optimization Approach of PMA-SynRM in Frequent Operating Torque-Speed Range. IEEE Transactions on Energy Conversion, 2018, 33, 1776-1786.	5.2	27
23	Mixed resistive unbalance and winding inter-turn faults model of permanent magnet synchronous motors. Electrical Engineering, 2015, 97, 75-85.	2.0	26
24	Predictive chiller operation: A data-driven loading and scheduling approach. Energy and Buildings, 2020, 208, 109639.	6.7	25
25	New Model of a Converter-Based Generator Using Electrostatic Synchronous Machine Concept. IEEE Transactions on Energy Conversion, 2014, 29, 344-353.	5.2	21
26	Inter-turn fault detection in five-phase pmsms. Effects of the fault severity. , 2013, , .		20
27	Fully Noncontact Hybrid NDT for 3D Defect Reconstruction Using SAFT Algorithm and 2D Apodization Window. Sensors, 2019, 19, 2138.	3.8	13
28	Development of a Behavior Maps Tool to Evaluate Drive Operational Boundaries and Optimization Assessment of PMA-SynRMs. IEEE Transactions on Vehicular Technology, 2018, 67, 6861-6871.	6.3	11
29	Detection of Eccentricity Faults in Five-Phase Ferrite-PM Assisted Synchronous Reluctance Machines. Applied Sciences (Switzerland), 2017, 7, 565.	2.5	8
30	Multiphase PMSM and PMA-SynRM Flux Map Model with Space Harmonics and Multiple Plane Cross Harmonic Saturation. , 2019, , .		8
31	A computer experiment to simulate the dynamic behaviour of electric vehicles driven by switched reluctance motors. International Journal of Electrical Engineering and Education, 2014, 51, 368-382.	0.8	7
32	An introduction to fault diagnosis of permanent magnet synchronous machines in master's degree courses. Computer Applications in Engineering Education, 2013, 21, 349-359.	3.4	4
33	Smart multi-model approach based on adaptive Neuro-Fuzzy Inference Systems and Genetic Algorithms. , 2014, , .		4
34	Short-term load forecasting using Cartesian Genetic Programming: An efficient evolutive strategy: Case: Australian electricity market. , 2015, , .		3
35	Occupancy forecasting for the reduction of HVAC energy consumption in smart buildings. , 2016, , .		0