

Raul G Longoria

List of Publications by Year in descending order

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25
papers

494
citations

1163065

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888047

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g-index

25
all docs

25
docs citations

25
times ranked

456
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating vehicle-terrain interaction parameters from tracked-robot sensor data. IFAC-PapersOnLine, 2021, 54, 644-649.	0.9	0
2	Evaluating a hardware-in-the-loop system intended for testing ventricular-assist device control and sensing algorithms. , 2020, , .		1
3	A Respiratory Mechanics Model of the Human Lung for Positive Pressure Breathing at High Altitude. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	0
4	Preload Sensitivity with TORVAD Counterpulse Support Prevents Suction and Overpumping. Cardiovascular Engineering and Technology, 2019, 10, 520-530.	1.6	2
5	Estimation of Systemic Vascular Resistance Using Built-In Sensing From an Implanted Left Ventricular Assist Device. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2019, 2, .	0.5	5
6	Scaling the Low-Shear Pulsatile TORVAD for Pediatric Heart Failure. ASAIO Journal, 2017, 63, 198-206.	1.6	21
7	Dynamic Performance of Lumped Parameter Model for Superconducting Levitation. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-8.	1.7	2
8	Mobile system shutdown prevention via energy storage-aware predictive control. , 2016, , .		2
9	Preservation of Native Aortic Valve Flow and Full Hemodynamic Support with the TORVAD Using a Computational Model of the Cardiovascular System. ASAIO Journal, 2015, 61, 259-265.	1.6	12
10	Mission Feasibility Assessment for Mobile Robotic Systems Operating in Stochastic Environments. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	4
11	Lumped-Parameter Model to Describe Dynamic Translational Interaction for High-Temperature Superconducting Bearings. IEEE Transactions on Applied Superconductivity, 2014, 24, 46-53.	1.7	9
12	Reduced-Order Dynamic Model of Permanent Magnet and HTSC Interaction in an Axisymmetric Frame. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1226-1233.	5.8	5
13	Utilization of Optimal Control Law to Size Grid-Level Flywheel Energy Storage. IEEE Transactions on Sustainable Energy, 2013, 4, 611-618.	8.8	35
14	Verification of a Computational Cardiovascular System Model Comparing the Hemodynamics of a Continuous Flow to a Synchronous Valveless Pulsatile Flow Left Ventricular Assist Device. ASAIO Journal, 2013, 59, 107-116.	1.6	23
15	Hybrid observer design for online battery state-of-charge estimation. , 2013, , .		2
16	Characterization of Load Uncertainty in Unstructured Terrains and Applications to Battery Remaining Run-time Prediction. Journal of Field Robotics, 2013, 30, 472-487.	6.0	6
17	Power system stability analysis of synthesized complex impedance loads on an electric ship. , 2011, , .		10
18	Improved left ventricular unloading and circulatory support with synchronized pulsatile left ventricular assistance compared with continuous-flow left ventricular assistance in an acute porcine left ventricular failure model. Journal of Thoracic and Cardiovascular Surgery, 2010, 140, 1181-1188.	0.8	56

#	ARTICLE	IF	CITATIONS
19	Slip estimation for small-scale robotic tracked vehicles. , 2010, , .		18
20	Coordinated and Reconfigurable Vehicle Dynamics Control. IEEE Transactions on Control Systems Technology, 2009, 17, 723-732.	5.2	231
21	On the Control Allocation for Coordinated Ground Vehicle Dynamics Control Systems. Proceedings of the American Control Conference, 2007, , .	0.0	27
22	Combined Tire Slip and Slip Angle Tracking Control for Advanced Vehicle Dynamics Control Systems. , 2006, , .		12
23	Model Synthesis for Design of Switched Systems Using a Variable Structure System Formulation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 618-629.	1.6	2
24	Signal Analysis Using Karhunen-Loe`ve Transformation: Application to Hydrodynamic Forces. Journal of Offshore Mechanics and Arctic Engineering, 2000, 122, 208-213.	1.2	1
25	Wave-scattering formalisms for multiport energetic systems. Journal of the Franklin Institute, 1996, 333, 539-564.	3.4	8