

# Raffael Amacher

## List of Publications by Year in descending order

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17  
papers

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citations

759233

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18  
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times ranked

331  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of the Fluid Viscosity in a Mock Circulation. <i>Artificial Organs</i> , 2018, 42, 68-77.	1.9	28
2	Response of a physiological controller for ventricular assist devices during acute patho-physiological events: an in vitro study. <i>Biomedizinische Technik</i> , 2017, 62, 623-633.	0.8	4
3	A Novel Mean-Value Model of the Cardiovascular System Including a Left Ventricular Assist Device. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 120-130.	1.6	3
4	In Vivo Evaluation of Physiologic Control Algorithms for Left Ventricular Assist Devices Based on Left Ventricular Volume or Pressure. <i>ASAIO Journal</i> , 2017, 63, 568-577.	1.6	34
5	Minimizing left ventricular stroke work with iterative learning flow profile control of rotary blood pumps. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 444-451.	5.7	21
6	Left Ventricular Assist Devices: Challenges Toward Sustaining Long-Term Patient Care. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1836-1851.	2.5	42
7	High-frequency operation of a pulsatile VAD – a simulation study. <i>Biomedizinische Technik</i> , 2017, 62, 161-170.	0.8	7
8	A Physiological Controller for Turbodynamic Ventricular Assist Devices Based on Left Ventricular Systolic Pressure. <i>Artificial Organs</i> , 2016, 40, 842-855.	1.9	22
9	Numerical Optimal Control of Turbo Dynamic Ventricular Assist Devices. <i>Bioengineering</i> , 2014, 1, 22-46.	3.5	21
10	Effects of Thoratec pulsatile ventricular assist device timing on the abdominal aortic wave intensity pattern. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1243-H1251.	3.2	4
11	Synchronized Pulsatile Speed Control of Turbodynamic Left Ventricular Assist Devices: Review and Prospects. <i>Artificial Organs</i> , 2014, 38, 867-875.	1.9	33
12	A Physiological Controller for Turbodynamic Ventricular Assist Devices Based on a Measurement of the Left Ventricular Volume. <i>Artificial Organs</i> , 2014, 38, 527-538.	1.9	40
13	Analysis of Pressure Head-Flow Loops of Pulsatile Rotodynamic Blood Pumps. <i>Artificial Organs</i> , 2014, 38, 316-326.	1.9	21
14	A Robust Reference Signal Generator for Synchronized Ventricular Assist Devices. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2174-2183.	4.2	20
15	A Novel Interface for Hybrid Mock Circulations to Evaluate Ventricular Assist Devices. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 507-516.	4.2	68
16	Control of ventricular unloading using an electrocardiogram-synchronized Thoratec paracorporeal ventricular assist device. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 146, 710-717.	0.8	28
17	Emulation of ventricular suction in a hybrid mock circulation. , 2013, , .		9