Andrew W Siefert

List of Publications by Citations

21 papers	255 citations	11 h-index	15 g-index
21 ext. papers	284 ext. citations	2.3 avg, IF	2.69 L-index

#	Paper	IF	Citations
21	In vitro mitral valve simulator mimics systolic valvular function of chronic ischemic mitral regurgitation ovine model. *Annals of Thoracic Surgery*, **2013**, 95, 825-30	2.7	31
20	How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. *Annals of Thoracic Surgery*, **2016**, 102, 518-26	2.7	24
19	Mechanics of healthy and functionally diseased mitral valves: a critical review. *Journal of Biomechanical Engineering*, **2013**, 135, 021007	2.1	23
18	Dynamic assessment of mitral annular force profile in an ovine model. *Annals of Thoracic Surgery*, **2012**, 94, 59-65	2.7	21
17	Mitral valve annuloplasty and anterior leaflet augmentation for functional ischemic mitral regurgitation: quantitative comparison of coaptation and subvalvular tethering. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 1688-93	1.5	20
16	Quantitative Evaluation of Annuloplasty on Mitral Valve Chordae Tendineae Forces to Supplement Surgical Planning Model Development. *Cardiovascular Engineering and Technology*, **2014**, 5, 35-43	2.2	19
15	Suture forces in undersized mitral annuloplasty: novel device and measurements. *Annals of Thoracic Surgery*, **2014**, 98, 305-9	2.7	15
14	Contractile mitral annular forces are reduced with ischemic mitral regurgitation. *Journal of Thoracic and Cardiovascular Surgery*, **2013**, 146, 422-8	1.5	13
13	Accuracy of a mitral valve segmentation method using J-splines for real-time 3D echocardiography data. *Annals of Biomedical Engineering*, **2013**, 41, 1258-68	4.7	12
12	In-vivo transducer to measure dynamic mitral annular forces. *Journal of Biomechanics*, **2012**, 45, 1514-6	2.9	12
11	Mitral valve annular downsizing forces: implications for annuloplasty device development. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 83-9	1.5	11
10	Peak mechanical loads induced in the in vitro edge-to-edge repair of posterior leaflet flail. *Annals of Thoracic Surgery*, **2012**, 94, 1446-53	2.7	10
9	Mitral annuloplasty ring suture forces: Impact of surgeon, ring, and use conditions. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 131-139.e3	1.5	9
8	Bench Models for Assessing the Mechanics of Mitral Valve Repair and Percutaneous Surgery. *Cardiovascular Engineering and Technology*, **2015**, 6, 193-207	2.2	8
7	Real-time recording of annuloplasty suture dehiscence reveals a potential mechanism for dehiscence cascade. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, e15-7	1.5	8
6	In-vivo mitral annuloplasty ring transducer: implications for implantation and annular downsizing. *Journal of Biomechanics*, **2013**, 46, 2550-3	2.9	6
5	Tricuspid Valve Annular Mechanics: Interactions with and Implications for Transcatheter Devices. *Cardiovascular Engineering and Technology*, **2019**, 10, 193-204	2.2	6

4	In vitro assessment of available coaptation area as a novel metric for the quantification of tricuspid valve coaptation. *Journal of Biomechanics*, **2013**, 46, 832-6	2.9	4
3	Transcatheter aortic valve implantation can potentially impact short-term and long-term functionality: an in vitro study. *International Journal of Cardiology*, **2014**, 172, e421-2	3.2	3
2	Measurement Technologies for Heart Valve Function **2018**, 115-149		0
1	Reply to the editor. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 1771-2	1.5	