

# Edward G Cape

## List of Publications by Citations

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28  
papers

1,402  
citations

17  
h-index

35  
g-index

35  
ext. papers

1,545  
ext. citations

4.9  
avg, IF

3.33  
L-index

#	Paper	IF	Citations
28	Review of hydrodynamic principles for the cardiologist: applications to the study of blood flow and jets by imaging techniques. <i>Journal of the American College of Cardiology</i> , <b>1988</b> , 12, 1344-53	15.1	255
27	Papillary muscle displacement causes systolic anterior motion of the mitral valve. Experimental validation and insights into the mechanism of subaortic obstruction. <i>Circulation</i> , <b>1995</b> , 91, 1189-95	16.7	147
26	Adjacent solid boundaries alter the size of regurgitant jets on Doppler color flow maps. <i>Journal of the American College of Cardiology</i> , <b>1991</b> , 17, 1094-102	15.1	131
25	Fluid dynamic comparison of intra-atrial and extracardiac total cavopulmonary connections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>1999</b> , 117, 697-704	1.5	125
24	Pressure recovery distal to a stenosis: potential cause of gradient "overestimation" by Doppler echocardiography. <i>Journal of the American College of Cardiology</i> , <b>1989</b> , 13, 706-15	15.1	124
23	Potential role of mechanical stress in the etiology of pediatric heart disease: septal shear stress in subaortic stenosis. <i>Journal of the American College of Cardiology</i> , <b>1997</b> , 30, 247-54	15.1	96
22	Effect of three-dimensional valve shape on the hemodynamics of aortic stenosis: three-dimensional echocardiographic stereolithography and patient studies. <i>Journal of the American College of Cardiology</i> , <b>2002</b> , 40, 1479-86	15.1	95
21	Chordal geometry determines the shape and extent of systolic anterior mitral motion: in vitro studies. <i>Journal of the American College of Cardiology</i> , <b>1989</b> , 13, 1438-48	15.1	66
20	Abnormalities of the left ventricular outflow tract associated with discrete subaortic stenosis in children: an echocardiographic study. <i>Journal of the American College of Cardiology</i> , <b>1997</b> , 30, 255-9	15.1	53
19	A new theoretical model for noninvasive quantification of mitral regurgitation. <i>Journal of Biomechanics</i> , <b>1990</b> , 23, 27-33	2.9	36
18	Increased heart rate can cause underestimation of regurgitant jet size by Doppler color flow mapping. <i>Journal of the American College of Cardiology</i> , <b>1993</b> , 21, 1029-37	15.1	35
17	Turbulent/viscous interactions control Doppler/catheter pressure discrepancies in aortic stenosis. The role of the Reynolds number. <i>Circulation</i> , <b>1996</b> , 94, 2975-81	16.7	30
16	Insights from three-dimensional echocardiographic laser stereolithography. Effect of leaflet funnel geometry on the coefficient of orifice contraction, pressure loss, and the Gorlin formula in mitral stenosis. <i>Circulation</i> , <b>1996</b> , 94, 452-9	16.7	28
15	Three-dimensional surface geometry correction is required for calculating flow by the proximal isovelocity surface area technique. <i>Journal of the American Society of Echocardiography</i> , <b>1995</b> , 8, 585-94	5.8	24
14	Hemodynamic effect of progressive right atrial dilatation in atriopulmonary connections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>1997</b> , 114, 2-8	1.5	19
13	Cardiac motion can alter proximal isovelocity surface area calculations of regurgitant flow. <i>Journal of the American College of Cardiology</i> , <b>1993</b> , 22, 1730-7	15.1	19
12	In vitro Doppler assessment of pressure gradients across modified Blalock-Taussig shunts. <i>American Journal of Cardiology</i> , <b>1998</b> , 81, 1219-23	3	18

11	Insights into catheter/Doppler discrepancies in congenital aortic stenosis. <i>American Journal of Cardiology</i> , <b>1999</b> , 83, 1447-50	3	16
10	Bidirectional superior cavopulmonary anastomosis improves mechanical efficiency in dilated atriopulmonary connections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>1999</b> , 118, 681-91	1.5	15
9	Pressure recovery distal to stenoses: expanding clinical applications of engineering principles. <i>Journal of the American College of Cardiology</i> , <b>1993</b> , 21, 1026-8	15.1	14
8	Effect of heart rate on centerline velocities of pulsatile intracardiac jets: an in vitro study with laser Doppler anemometry and pulsed Doppler ultrasound. <i>Journal of the American Society of Echocardiography</i> , <b>1992</b> , 5, 393-404	5.8	14
7	Quantitative Approaches to Color Doppler Flow Mapping of Intracardiac Blood Flow: A Review of In Vitro Methods. <i>Echocardiography</i> , <b>1989</b> , 6, 371-383	1.5	11
6	Simultaneous Doppler and catheter transvalvular pressure gradients across St Jude bileaflet mitral valve prosthesis: in vivo study in a chronic animal model with pediatric valve sizes. <i>Journal of the American Society of Echocardiography</i> , <b>1998</b> , 11, 1145-54	5.8	5
5	Quantification of regurgitant flow through bileaflet heart valve prostheses: theoretical and in vitro studies. <i>Ultrasound in Medicine and Biology</i> , <b>1993</b> , 19, 461-8	3.5	5
4	Development of a Noninvasive Marker of Wall Shear Stress Effects in Discrete Subaortic Stenosis. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , <b>2001</b> , 1, 137-146		2
3	Ambient Fluid Velocity Influences Proximal Isovelocity Surface Area Calculations. <i>Echocardiography</i> , <b>1995</b> , 12, 581-589	1.5	2
2	Quantification of Mitral and Tricuspid Regurgitation Using Jet Centerline Velocities: An In Vitro Study of Jets in an Ambient Counterflow. <i>Echocardiography</i> , <b>1996</b> , 13, 357-372	1.5	2
1	How sensitive are jet centerline velocities to an opposing flow? Implications for using the centerline method to quantify regurgitant jet flow. <i>Journal of Biomechanics</i> , <b>1996</b> , 29, 967-71	2.9	0