

# David J Sahn

## List of Publications by Year in descending order

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82  
papers

3,125  
citations

236925

25  
h-index

155660

55  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ventricular Septal Defects. <i>Circulation</i> , 2006, 114, 2190-2197.	1.6	318
2	Three-Dimensional Echocardiography. <i>Journal of the American College of Cardiology</i> , 2006, 48, 2053-2069.	2.8	283
3	Evaluation of pulmonary and systemic blood flow by 2-dimensional Doppler echocardiography using fast fourier transform spectral analysis. <i>American Journal of Cardiology</i> , 1982, 50, 1394-1400.	1.6	243
4	Quantification of Diffuse Myocardial Fibrosis and Its Association With Myocardial Dysfunction in Congenital Heart Disease. <i>Circulation: Cardiovascular Imaging</i> , 2010, 3, 727-734.	2.6	237
5	Anatomically Oriented Right Ventricular Volume Measurements With Dynamic Three-Dimensional Echocardiography Validated by 3-Tesla Magnetic Resonance Imaging. <i>Journal of the American College of Cardiology</i> , 2007, 50, 1668-1676.	2.8	213
6	Real-time Three-dimensional Echocardiography for Determining Right Ventricular Stroke Volume in an Animal Model of Chronic Right Ventricular Volume Overload. <i>Circulation</i> , 1998, 97, 1897-1900.	1.6	156
7	Myocardial strain rate is a superior method for evaluation of left ventricular subendocardial function compared with tissue Doppler imaging. <i>Journal of the American College of Cardiology</i> , 2003, 42, 1574-1583.	2.8	130
8	Vector Flow Mapping in Obstructive Hypertrophic Cardiomyopathy to Assess the Relationship of Early Systolic Left Ventricular Flow and the Mitral Valve. <i>Journal of the American College of Cardiology</i> , 2014, 64, 1984-1995.	2.8	117
9	Fetal Ventricular Mass Determination on Three-Dimensional Echocardiography. <i>Circulation</i> , 2004, 110, 1054-1060.	1.6	71
10	Impact of Conventional Versus Biventricular Pacing on Hemodynamics and Tissue Doppler Imaging Indexes of Resynchronization Postoperatively in Children With Congenital Heart Disease. <i>Journal of the American College of Cardiology</i> , 2005, 46, 2284-2289.	2.8	66
11	Validation of Volume and Mass Assessments for Human Fetal Heart Imaging by 4-Dimensional Spatiotemporal Image Correlation Echocardiography. <i>Journal of Ultrasound in Medicine</i> , 2004, 23, 1151-1159.	1.7	58
12	Three-Dimensional Reconstruction of the Color Doppler-Imaged Vena Contracta for Quantifying Aortic Regurgitation. <i>Circulation</i> , 1999, 99, 1611-1617.	1.6	56
13	Real-time 3-Dimensional Doppler Echocardiography for the Assessment of Stroke Volume: An In Vivo Human Study Compared with Standard 2-Dimensional Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 1030-1036.	2.8	54
14	The use of live three-dimensional Doppler echocardiography in the measurement of cardiac output. <i>Journal of the American College of Cardiology</i> , 2005, 45, 433-438.	2.8	53
15	Accuracy of Real-time Three-dimensional Echocardiography for Quantifying Right Ventricular Volume. <i>Journal of Ultrasound in Medicine</i> , 2002, 21, 1069-1075.	1.7	51
16	Defining Left Ventricular Apex-to-Base Twist Mechanics Computed From High-Resolution 3D Echocardiography. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 227-234.	5.3	40
17	Echocardiographic Evaluation of Left Atrial Mechanics: Function, History, Novel Techniques, Advantages, and Pitfalls. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	40
18	Three-Dimensional Speckle-Tracking Imaging for Left Ventricular Rotation Measurement. <i>Journal of Ultrasound in Medicine</i> , 2010, 29, 903-909.	1.7	39

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19	Forward-looking intracardiac ultrasound imaging using a 1-D CMUT array integrated with custom front-end electronics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2651-2660.	3.0	38
20	Significance of Mechanical Alterations in Single Ventricle Patients on Twisting and Circumferential Strain as Determined by Analysis of Strain from Gradient Cine Magnetic Resonance Imaging Sequences. American Journal of Cardiology, 2010, 105, 1465-1469.	1.6	32
21	Quantifying Aortic Regurgitation by Using the Color Doppler-Imaged Vena Contracta. Circulation, 1997, 96, 2009-2015.	1.6	32
22	Direct quantification of transmitral flow volume with dynamic 3-dimensional digital color Doppler: A validation study in an animal model. Journal of the American Society of Echocardiography, 2002, 15, 55-62.	2.8	29
23	What is the most effective method of detecting anomalous coronary origin in symptomatic patients? **Editorials published in the Journal of the American College of Cardiology reflect the views of the authors and do not necessarily represent the views of JACC or the American College of Cardiology. Journal of the American College of Cardiology, 2003, 42, 155-157.	2.8	28
24	Delineation of Cardiac Twist by a Sonographically Based 2-Dimensional Strain Analysis Method. Journal of Ultrasound in Medicine, 2006, 25, 1193-1198.	1.7	26
25	First In Vivo Use of a Capacitive Micromachined Ultrasound Transducer Array-Based Imaging and Ablation Catheter. Journal of Ultrasound in Medicine, 2012, 31, 247-256.	1.7	25
26	A new dynamic three-dimensional digital color doppler method for quantification of pulmonary regurgitation: validation study in an animal model. Journal of the American College of Cardiology, 2002, 40, 1179-1185.	2.8	24
27	A validation study of aortic stroke volume using dynamic 4-dimensional color Doppler: An in vivo study. Journal of the American Society of Echocardiography, 2002, 15, 1045-1050.	2.8	24
28	Calculation of Aortic Regurgitant Volume by a New Digital Doppler Color Flow Mapping Method: An Animal Study With Quantified Chronic Aortic Regurgitation. Journal of the American College of Cardiology, 1997, 30, 834-842.	2.8	23
29	A digital 3-dimensional method for computing great artery flows: In vitro validation studies. Journal of the American Society of Echocardiography, 2000, 13, 841-848.	2.8	22
30	Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function. Journal of the American College of Cardiology, 2004, 44, 1459-1466.	2.8	22
31	Comparison of ventricular volume and mass measurements from B- and C-scan images with the use of real-time 3-dimensional echocardiography: Studies in an in vitro model. Journal of the American Society of Echocardiography, 2000, 13, 910-917.	2.8	21
32	Experimental Studies With a 9F Forward-Looking Intracardiac Imaging and Ablation Catheter. Journal of Ultrasound in Medicine, 2009, 28, 207-215.	1.7	21
33	Risk of sudden cardiac death in young athletes: which screening strategies are appropriate?. Pediatric Clinics of North America, 2004, 51, 1421-1441.	1.8	20
34	Three-Dimensional Echocardiography for Studies of the Fetal Heart: Present Status and Future Perspectives. Cardiology Clinics, 2007, 25, 341-355.	2.2	20
35	Real-time Three-dimensional Color Doppler Echocardiography Overcomes the Inaccuracies of Spectral Doppler for Stroke Volume Calculation. Journal of the American Society of Echocardiography, 2006, 19, 1403-1410.	2.8	19
36	The feasibility of using thermal strain imaging to regulate energy delivery during intracardiac radio-frequency ablation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1406-1417.	3.0	19

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37	Apex to Base Left Ventricular Twist Mechanics Computed from High Frame Rate Two-Dimensional and Three-Dimensional Echocardiography: A Comparison Study. <i>Journal of the American Society of Echocardiography</i> , 2012, 25, 121-128.	2.8	19
38	Measurement of Volumetric Flow by Real-time 3-Dimensional Doppler Echocardiography in Children. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 915-920.	2.8	17
39	Real-Time 3-Dimensional Echocardiographic Assessment of Ventricular Volume, Mass, and Function in Human Fetuses. <i>PLoS ONE</i> , 2013, 8, e58494.	2.5	17
40	Cardiac Mechanics in Isolated Bicuspid Aortic Valve Disease With Normal Ejection Fraction. <i>Medicine (United States)</i> , 2015, 94, e2085.	1.0	16
41	Clinical Use of Real-time Three-Dimensional Echocardiography in Pediatric Cardiology. <i>Echocardiography</i> , 2000, 17, 787-790.	0.9	14
42	Optimization of myocardial strain imaging and speckle tracking for resynchronization after congenital heart surgery in children. <i>Europace</i> , 2010, 12, 1341-1343.	1.7	13
43	Left Ventricular Outflow Tract Obstruction Defined by Active Three-Dimensional Echocardiography Using Rotational Transthoracic Acquisition. <i>Echocardiography</i> , 1994, 11, 607-615.	0.9	12
44	Validation of the accuracy of both right and left ventricular outflow volume determinations and semiautomated calculation of shunt volumes through atrial septal defects by digital color Doppler flow mapping in a chronic animal model. <i>Journal of the American College of Cardiology</i> , 1999, 34, 587-593.	2.8	12
45	Quantitative Assessment of Mitral Inflow and Aortic Outflow Stroke Volumes by 3-Dimensional Real-time Full-Volume Color Flow Doppler Transthoracic Echocardiography. <i>Journal of Ultrasound in Medicine</i> , 2015, 34, 95-103.	1.7	12
46	Electronic medical record integration with a database for adult congenital heart disease: Early experience and progress in automating multicenter data collection. <i>International Journal of Cardiology</i> , 2015, 196, 178-182.	1.7	11
47	Comprehensive Evaluation of Cardiac Function and Detection of Myocardial Infarction Based on a Semi-Automated Analysis Using Full-Volume Real Time Three-Dimensional Echocardiography. <i>Echocardiography</i> , 2015, 32, 332-338.	0.9	11
48	Transesophageal Ultrasound Imaging During Stent Implantation to Relieve Superior Vena Cava-Intra-atrial Baffle Obstruction After Mustard Repair of Transposition of the Great Arteries. <i>Circulation</i> , 1995, 91, 2679-2680.	1.6	11
49	Transballoon Intravascular Ultrasound Imaging During Balloon Angioplasty in Animal Models With Coarctation and Branch Pulmonary Stenosis. <i>Circulation</i> , 1997, 95, 2354-2357.	1.6	11
50	Accuracy of 3-Dimensional Color Doppler-Derived Flow Volumes With Increasing Image Depth. <i>Journal of Ultrasound in Medicine</i> , 2005, 24, 1109-1115.	1.7	10
51	A novel method for the assessment of the accuracy of computing laminar flow stroke volumes using a real-time 3D ultrasound system: In vitro studies. <i>European Journal of Echocardiography</i> , 2005, 6, 396-404.	2.3	10
52	Fetal Ventricular Interactions and Wall Mechanics During Ductus Arteriosus Occlusion in a Sheep Model. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1020-1028.	1.5	10
53	Ventricular Rotation Is Independent of Cardiac Looping: A Study in Mice With Situs Inversus Totalis Using Speckle-Tracking Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2010, 23, 315-323.	2.8	9
54	Regional Strain Determination and Myocardial Infarction Detection by Three-Dimensional Echocardiography with Varied Temporal Resolution. <i>Echocardiography</i> , 2015, 32, 339-348.	0.9	9

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55	Determination of Asymmetric Cavity Volumes Using Real-Time Three-Dimensional Echocardiography: An In Vitro Balloon Model Study. <i>Echocardiography</i> , 2004, 21, 257-263.	0.9	8
56	Temporally diffeomorphic cardiac motion estimation from three-dimensional echocardiography by minimization of intensity consistency error. <i>Medical Physics</i> , 2014, 41, 052902.	3.0	8
57	Evaluation of Stroke Volume and Ventricular Mass in a Fetal Heart Model: A Novel Four-Dimensional Echocardiographic Analysis. <i>Echocardiography</i> , 2014, 31, 1138-1145.	0.9	8
58	Development of an Electrophysiology (EP)-Enabled Intracardiac Ultrasound Catheter Integrated With NavX 3-Dimensional Electrofield Mapping for Guiding Cardiac EP Interventions. <i>Journal of Ultrasound in Medicine</i> , 2007, 26, 1565-1574.	1.7	7
59	Non-Invasive Evaluation of Heart Function with Four-Dimensional Echocardiography. <i>PLoS ONE</i> , 2016, 11, e0154996.	2.5	7
60	Validation of a digital color Doppler flow measurement method for pulmonary regurgitant volumes and regurgitant fractions in an in vitro model and in a chronic animal model of postoperative repaired tetralogy of Fallot. <i>Journal of the American College of Cardiology</i> , 2001, 37, 632-640.	2.8	6
61	Moss and Adams's™ Heart Disease in Infants, Children, and Adolescents, Including the Fetus and Young Adult, 6th Ed. <i>Circulation</i> , 2001, 104, .	1.6	6
62	Evaluation of a New 3-Dimensional Color Doppler Flow Method to Quantify Flow Across the Mitral Valve and in the Left Ventricular Outflow Tract. <i>Journal of Ultrasound in Medicine</i> , 2014, 33, 265-271.	1.7	6
63	Abnormal myocardial blood flow in children with mild/moderate aortic stenosis. <i>Cardiology in the Young</i> , 2015, 25, 1358-1366.	0.8	6
64	Preoperative Gadolinium-Enhanced Magnetic Resonance Pulmonary Venography in an Adolescent with Atrial Septal Defect. <i>Military Medicine</i> , 1997, 162, 640-642.	0.8	5
65	Endocarditis in the pediatric population. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2000, 2, 481-487.	0.9	5
66	Three-dimensional echocardiography of colour Doppler flow. <i>Archives of Cardiovascular Diseases</i> , 2010, 103, 333-339.	1.6	5
67	Multimodality Imaging in Congenital Heart Disease: an Update. <i>Current Cardiovascular Imaging Reports</i> , 2012, 5, 481-490.	0.6	5
68	Real Time Three-Dimensional Echocardiographic Evaluations of Fetal Left Ventricular Stroke Volume, Mass, and Myocardial Strain: In Vitro and In Vivo Experimental Study. <i>Echocardiography</i> , 2015, 32, 1697-1706.	0.9	5
69	Non-invasive Evaluation of Right Ventricular Function with Real-Time 3-D Echocardiography. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 2247-2255.	1.5	5
70	In Vitro validation of tissue doppler left ventricular regional wall velocities by using a novel balloon phantom. <i>Journal of Tongji Medical University</i> , 2001, 21, 337-340.	0.1	4
71	A family of intracardiac ultrasound imaging devices designed for guidance of electrophysiology ablation procedures. , 2009, 2009, 1913-7.		4
72	Mitigation of Variability among 3D Echocardiography-Derived Regional Strain Values Acquired by Multiple Ultrasound Systems by Vendor Independent Analysis. <i>PLoS ONE</i> , 2016, 11, e0153634.	2.5	4

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73	Coarctation of the aorta. Current Treatment Options in Cardiovascular Medicine, 1999, 1, 347-354.	0.9	3
74	Quantification of the area and shunt volume of multiple, circular, and noncircular ventricular septal defects: A 2D/3D echocardiography comparison and real time 3D color Doppler feasibility determination study. Echocardiography, 2018, 35, 90-99.	0.9	3
75	William F. Friedman 1936â€“2005. Cardiology in the Young, 2006, 16, 413.	0.8	2
76	Right ventricular strain analysis from three-dimensional echocardiography by using temporally diffeomorphic motion estimation. Medical Physics, 2014, 41, 122902.	3.0	2
77	Highlights of the Year in JACC 2013. Journal of the American College of Cardiology, 2014, 63, 570-602.	2.8	2
78	Quantification of Shunt Volume Through Ventricular Septal Defect by Real-Time 3-D Color Doppler Echocardiography: An inÂVitro Study. Ultrasound in Medicine and Biology, 2016, 42, 1193-1200.	1.5	2
79	Cardiac Motion Estimation by Optimizing Transmural Homogeneity of the Myofiber Strain and Its Validation with Multimodal Sequences. Lecture Notes in Computer Science, 2013, 16, 493-500.	1.3	1
80	Assessment of left ventricular radial deformation by speckle tracking imaging. Journal of Huazhong University of Science and Technology [Medical Sciences], 2009, 29, 669-672.	1.0	0
81	Temporally consistent diffeomorphic motion estimation with mutual information: Application to echocardiographic sequences. , 2012, , .		0
82	Imageâ€“Derived Assessment of Left Ventricular Mass in Fetal Myocardial Hypertrophy by 4â€“Dimensional Echocardiography. Journal of Ultrasound in Medicine, 2016, 35, 943-949.	1.7	0