

# Byung-Chul Chang

## List of Publications by Year in descending order

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85  
papers

1,025  
citations

516215

16  
h-index

476904

29  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Clinical Results of Tricuspid Valve Replacement. <i>Annals of Thoracic Surgery</i> , 2006, 81, 1317-1324.	0.7	119
2	Prediction of Left Atrial Fibrosis With Speckle Tracking Echocardiography in Mitral Valve Disease: A Comparative Study With Histopathology. <i>Korean Circulation Journal</i> , 2012, 42, 311.	0.7	86
3	Long-term clinical results of mitral valvuloplasty using flexible and rigid rings: A prospective and randomized study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 133, 995-1003.	0.4	85
4	The comparison of the graft patency after coronary artery bypass grafting using coronary angiography and multi-slice computed tomography. <i>European Journal of Cardio-thoracic Surgery</i> , 2003, 24, 86-91.	0.6	65
5	Comparison of Cardiac Computed Tomography With Transesophageal Echocardiography for Identifying Vegetation and Intracardiac Complications in Patients With Infective Endocarditis in the Era of 3-Dimensional Images. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e006986.	1.3	61
6	Overexpression of Transforming Growth Factor- $\beta$ 1 in the Valvular Fibrosis of Chronic Rheumatic Heart Disease. <i>Journal of Korean Medical Science</i> , 2008, 23, 41.	1.1	42
7	Eight-Year Outcomes of Tricuspid Annuloplasty Using Autologous Pericardial Strip for Functional Tricuspid Regurgitation. <i>Annals of Thoracic Surgery</i> , 2008, 86, 1485-1493.	0.7	34
8	Assessment of Mitral Paravalvular Leakage After Mitral Valve Replacement Using Cardiac Computed Tomography. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	1.3	29
9	Endovascular Repair versus Open Repair for Isolated Descending Thoracic Aortic Aneurysm. <i>Yonsei Medical Journal</i> , 2015, 56, 904.	0.9	27
10	Surgical Experience with Infective Endocarditis and Aortic Root Abscess. <i>Yonsei Medical Journal</i> , 2014, 55, 1253.	0.9	26
11	Added value of cardiac computed tomography for evaluation of mechanical aortic valve: Emphasis on evaluation of pannus with surgical findings as standard reference. <i>International Journal of Cardiology</i> , 2016, 214, 454-460.	0.8	26
12	Factors Determining Early Left Atrial Reverse Remodeling After Mitral Valve Surgery. <i>American Journal of Cardiology</i> , 2008, 101, 374-377.	0.7	24
13	Assessment of mitral annuloplasty ring by cardiac computed tomography: Correlation with echocardiographic parameters and comparison between two different ring types. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2015, 150, 1082-1090.	0.4	21
14	Effect of Recurrent Mitral Regurgitation After Mitral Valve Repair in Patients With Degenerative Mitral Regurgitation. <i>Circulation Journal</i> , 2018, 82, 93-101.	0.7	19
15	Myxoma attached to both atrial and ventricular sides of the mitral valve: report of a case and review of 31 cases of mitral myxoma. <i>International Journal of Cardiovascular Imaging</i> , 2001, 17, 411-416.	0.2	18
16	Prosthesis-Patient Mismatch after Mitral Valve Replacement: Comparison of Different Methods of Effective Orifice Area Calculation. <i>Yonsei Medical Journal</i> , 2016, 57, 328.	0.9	17
17	Outcome of veno-venous extracorporeal membrane oxygenation use in acute respiratory distress syndrome after cardiac surgery with cardiopulmonary bypass. <i>Journal of Thoracic Disease</i> , 2016, 8, 1804-1813.	0.6	17
18	Differences in Characteristics, Left Atrial Reverse Remodeling, and Functional Outcomes after Mitral Valve Replacement in Patients with Low-Gradient Very Severe Mitral Stenosis. <i>Journal of the American Society of Echocardiography</i> , 2016, 29, 759-767.	1.2	17

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19	Predictors of Prognosis in Patients with Mild to Moderate Paravalvular Leakage After Mitral Valve Replacement. <i>Journal of Cardiac Surgery</i> , 2014, 29, 149-154.	0.3	16
20	Impact of peripheral artery disease on early and late outcomes of transcatheter aortic valve implantation in patients with severe aortic valve stenosis. <i>International Journal of Cardiology</i> , 2018, 255, 206-211.	0.8	16
21	Incidence, Predictors, and Clinical Outcomes of Postoperative Cardiac Tamponade in Patients Undergoing Heart Valve Surgery. <i>PLoS ONE</i> , 2016, 11, e0165754.	1.1	16
22	Spectral analysis of heart valve sound for detection of prosthetic heart valve diseases. <i>Yonsei Medical Journal</i> , 1998, 39, 302.	0.9	14
23	Impact of prosthesis-patient mismatch after mitral valve replacement in rheumatic population: Does mitral position prosthesis-patient mismatch really exist?. <i>Journal of Cardiothoracic Surgery</i> , 2017, 12, 88.	0.4	13
24	The clinical significance of perivalvular pannus in prosthetic mitral valves: Can cardiac CT be helpful?. <i>International Journal of Cardiology</i> , 2017, 249, 344-348.	0.8	12
25	Echocardiographic Investigation of the Mechanism Underlying Abnormal Interventricular Septal Motion after Open Heart Surgery. <i>Journal of Cardiovascular Imaging</i> , 2014, 22, 8.	0.8	10
26	Utility of cardiac computed tomography for evaluation of pannus in mechanical aortic valve. <i>International Journal of Cardiovascular Imaging</i> , 2015, 31, 1271-1280.	0.7	10
27	Association of Thoracic Aorta Calcium Score With Left Ventricular Hypertrophy and Clinical Outcomes in Patients With Severe Aortic Stenosis After Aortic Valve Replacement. <i>Annals of Thoracic Surgery</i> , 2017, 103, 74-81.	0.7	10
28	Post-operative left atrial volume index is a predictor of the occurrence of permanent atrial fibrillation after mitral valve surgery in patients who undergo mitral valve surgery. <i>Cardiovascular Ultrasound</i> , 2018, 16, 5.	0.5	10
29	Volume Reduction Surgery for End-Stage Heart Failure: Experience in Korea. <i>Journal of Cardiac Surgery</i> , 2001, 16, 159-164.	0.3	9
30	Comparison of Early Clinical Outcomes Following Transcatheter Aortic Valve Implantation versus Surgical Aortic Valve Replacement versus Optimal Medical Therapy in Patients Older than 80 Years with Symptomatic Severe Aortic Stenosis. <i>Yonsei Medical Journal</i> , 2013, 54, 596.	0.9	9
31	Time course of left atrial reverse remodelling after mitral valve surgery and the impact of left ventricular global longitudinal strain in patients with chronic severe mitral regurgitation. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2016, 23, 876-882.	0.5	9
32	Open Pulmonary Thromboembolectomy in Patients with Major Pulmonary Thromboembolism. <i>Yonsei Medical Journal</i> , 2008, 49, 973.	0.9	8
33	Multidisciplinary Team Approach for Identifying Potential Candidate for Transcatheter Aortic Valve Implantation. <i>Yonsei Medical Journal</i> , 2014, 55, 1246.	0.9	8
34	Late open conversion after endovascular abdominal aortic repair: a 20-year experience. <i>Journal of Cardiovascular Surgery</i> , 2019, 60, 73-80.	0.3	8
35	In vitro sound spectral analysis of prosthetic heart valves by mock circulatory system. <i>Yonsei Medical Journal</i> , 1994, 35, 271.	0.9	7
36	Efficacy of Goal-Directed Therapy Using Bioreactance Cardiac Output Monitoring after Valvular Heart Surgery. <i>Yonsei Medical Journal</i> , 2015, 56, 913.	0.9	7

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37	The effect of perioperative intravenously administered iron isomaltoside 1000 (Monofer <sup>®</sup> ) on transfusion requirements for patients undergoing complex valvular heart surgery: study protocol for a randomized controlled trial. <i>Trials</i> , 2018, 19, 350.	0.7	7
38	Surgical Ablation for Atrial Fibrillation in Cardiac Surgery a Consensus Statement of the International Society of Minimally Invasive Cardiothoracic Surgery (ISMICS) 2009. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2010, 5, 74-83.	0.4	7
39	Clinical Outcome of Urgent Coronary Artery Bypass Grafting. <i>Journal of Korean Medical Science</i> , 2007, 22, 270.	1.1	6
40	Clinical outcomes of different surgical approaches for proximal descending thoracic aneurysm involving the distal arch. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 2289-2298.e1.	0.4	6
41	Polymorphisms of vitamin K-related genes (EPHX1 and VKORC1L1) and stable warfarin doses. <i>Gene</i> , 2018, 641, 68-73.	1.0	6
42	Comparison of Early Clinical Results of Transcatheter versus Surgical Aortic Valve Replacement in Symptomatic High Risk Severe Aortic Stenosis Patients. <i>Korean Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 46, 346-352.	0.6	6
43	The Beneficial Effect of Renin-Angiotensin-Aldosterone System Blockade in Marfan Syndrome Patients after Aortic Root Replacement. <i>Yonsei Medical Journal</i> , 2016, 57, 81.	0.9	5
44	Sinus node dysfunction after surgical atrial fibrillation ablation with concomitant mitral valve surgery: Determinants and clinical outcomes. <i>PLoS ONE</i> , 2018, 13, e0203828.	1.1	5
45	Aortic saddle embolism. <i>Clinical Cardiology</i> , 1999, 22, 229-230.	0.7	4
46	Surgical Ablation for Atrial Fibrillation in Cardiac Surgery a Meta-Analysis and Systematic Review. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2010, 5, 84-96.	0.4	4
47	Surgical Management of Coexisting Coronary Artery and Valvular Heart Disease. <i>Yonsei Medical Journal</i> , 2010, 51, 326.	0.9	4
48	Transcatheter Aortic Valve Implantation in a Patient with Previous Mitral Valve Replacement. <i>Korean Circulation Journal</i> , 2014, 44, 344.	0.7	4
49	Migration of Calcium and Atheromatous Plaque in Computed Tomography. <i>Journal of the American College of Cardiology</i> , 2014, 63, e23.	1.2	4
50	Effect of Rosuvastatin on Bovine Pericardial Aortic Tissue Valve Calcification in a Rat Subdermal Implantation Model. <i>Korean Circulation Journal</i> , 2017, 47, 401.	0.7	4
51	Tricuspid annular diameter and right ventricular volume on preoperative cardiac CT can predict postoperative right ventricular dysfunction in patients who undergo tricuspid valve surgery. <i>International Journal of Cardiology</i> , 2019, 288, 44-50.	0.8	4
52	Complicated infective endocarditis on mitral annular calcification with left ventricular pseudoaneurysm. <i>European Journal of Cardio-thoracic Surgery</i> , 2018, 53, 886-886.	0.6	3
53	Early and Two-year Outcomes after Sutureless and Conventional Aortic Valve Replacement: a Nationwide Population-based Study. <i>Journal of Korean Medical Science</i> , 2021, 36, e57.	1.1	3
54	A Risk Prediction Model for Operative Mortality after Heart Valve Surgery in a Korean Cohort. <i>Journal of Chest Surgery</i> , 2021, 54, 88-98.	0.2	3

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55	Acute severe mitral regurgitation due to unusual detachment of bioprosthetic valve leaflet. <i>Clinical Cardiology</i> , 2000, 23, 213-213.	0.7	2
56	Flail Aortic Valve and Acute Aortic Regurgitation Due to Spontaneous Localized Intimal Tear of Ascending Aorta. <i>Echocardiography</i> , 2001, 18, 381-383.	0.3	2
57	Changes of body composition after valve surgery in patients with mitral valve disease. <i>PLoS ONE</i> , 2018, 13, e0203798.	1.1	2
58	A Review of Cardiac Myxoma: 33-year Experience in a Single Institution. <i>Sunhwan'gi</i> , 1998, 28, 1131.	0.3	1
59	The First Case of Successful Transcatheter Aortic Valve Implantation Using CoreValve in Korea. <i>Korean Circulation Journal</i> , 2012, 42, 788.	0.7	1
60	The First Korean Patient With Severe Aortic Stenosis and Bilateral Iliofemoral Artery Disease Treated With Transcatheter Aortic Valve Implantation by Transsubclavian Approach. <i>Korean Circulation Journal</i> , 2012, 42, 796.	0.7	1
61	Passion in Cardiothoracic Surgery in Korea: Remembering Professor Pill Whoon Hong, M.D.. <i>Yonsei Medical Journal</i> , 2016, 57, 1301.	0.9	1
62	Association of inflammatory gene polymorphisms with mechanical heart valve reoperation. <i>SpringerPlus</i> , 2016, 5, 937.	1.2	1
63	Effect of Patient-Prosthesis Mismatch in Aortic Position on Late-Onset Tricuspid Regurgitation and Clinical Outcomes after Double Valve Replacement. <i>Yonsei Medical Journal</i> , 2017, 58, 968.	0.9	1
64	The feasibility and safety of off-pump coronary bypass surgery in emergency revascularization. <i>Journal of Thoracic Disease</i> , 2018, 10, 2268-2278.	0.6	1
65	Changes in the Prosthesis Types Used for Aortic Valve Replacement after the Introduction of Sutureless and Rapid Deployment Valves in Korea: A Nationwide Population-Based Cohort Study. <i>Journal of Chest Surgery</i> , 2021, 54, 369-376.	0.2	1
66	Early Clinical Experience with Sutureless Aortic Valve Replacement for Severe Aortic Stenosis. <i>Korean Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 51, 1-7.	0.6	1
67	In vitro pressure drop comparison between two mechanical valve prostheses. <i>Yonsei Medical Journal</i> , 1994, 35, 72.	0.9	0
68	Use of a 64 channel computerized cardiac mapping system in arrhythmia surgery. <i>Yonsei Medical Journal</i> , 1995, 36, 378.	0.9	0
69	Design of a medical image processing software for clinical-PACS. <i>Yonsei Medical Journal</i> , 1997, 38, 193.	0.9	0
70	Mitral stenosis with left atrial thrombi. <i>Clinical Cardiology</i> , 1999, 22, 491-491.	0.7	0
71	Long-term prognostic factors after aortic valve replacement of severe aortic stenosis. <i>Sunhwan'gi</i> , 2001, 31, 877.	0.3	0
72	Right Coronary Artery to Left Ventricle Fistula. <i>Echocardiography</i> , 2001, 18, 185-188.	0.3	0

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73	Preclinical Test of an Electro-Mechanical Implantable Left Ventricular Assist System. Korean Circulation Journal, 2008, 38, 7.	0.7	0
74	Visceral Obesity of the Heart: Extensive Lipomatous Hypertrophy of Interatrial Septum. Journal of Cardiovascular Imaging, 2012, 20, 161.	0.8	0
75	Transcatheter Aortic Valve Implantation Using CoreValve by Transaortic Approach. Journal of Lipid and Atherosclerosis, 2013, 2, 85.	1.1	0
76	Aortic Valve Replacement after Previous Coronary Artery Bypass Grafting with Patent Internal Mammary Artery. The Ewha Medical Journal, 2014, 37, 64.	0.1	0
77	An unusual cause of early aortic bioprosthetic valve failure. European Heart Journal Cardiovascular Imaging, 2016, 17, 428-428.	0.5	0
78	Right Coronary Artery to Left Ventricle Fistula. Journal of the Korean Society of Echocardiography, 2001, 9, 146.	0.0	0
79	Transcatheter Aortic Valve Implantation by Transfemoral Approach in a Patient with Bilateral Iliac Artery Disease. Korean Journal of Medicine, 2013, 85, 188.	0.1	0
80	Successful Treatment of Severe Aortic Stenosis With Transcatheter Aortic Valve Implantation in a Centenarian Patient. Journal of the Korean Geriatrics Society, 2014, 18, 44-47.	0.3	0
81	Deep Hypothermia for Total Correction of Tetralogy of Fallot. Daehan Macwi'gwa Haghoeji, 1980, 13, 112.	0.2	0
82	Reduction of Left Ventricular Hypertrophy after Aortic Valve Replacement for Isolated Aortic Valve Stenosis. Journal of the Korean Society of Echocardiography, 1997, 5, 122.	0.0	0
83	Historical Perspectives of Korean Society for Thoracic and Cardiovascular Surgery: Inauguration and Activities of the Historical Records Preservation Committee. Korean Journal of Thoracic and Cardiovascular Surgery, 2019, 52, 191-194.	0.6	0
84	Unmasked Obstructive Hypertrophic Cardiomyopathy after Mitral Valve Repair for Severe Mitral Regurgitation. Korean Circulation Journal, 2020, 50, 461.	0.7	0
85	A Risk Prediction Model for Operative Mortality after Heart Valve Surgery in a Korean Cohort. Korean Journal of Thoracic and Cardiovascular Surgery, 2020, , .	0.6	0