Robina Matyal

List of Publications by Year in descending order

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Ροβινί Μάτυλι

#	Article	IF	CITATIONS
1	Relative importance of aneurysm diameter and body size for predicting abdominal aortic aneurysm rupture in men and women. Journal of Vascular Surgery, 2014, 59, 1209-1216.	1.1	168
2	Handheld Point-of-Care Ultrasound Probes: The New Generation of POCUS. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 3139-3145.	1.3	126
3	Perioperative diastolic dysfunction during vascular surgery and its association with postoperative outcome. Journal of Vascular Surgery, 2009, 50, 70-76.	1.1	103
4	Perioperative Assessment of Diastolic Dysfunction. Anesthesia and Analgesia, 2011, 113, 449-472.	2.2	67
5	Non-invasive transdermal two-dimensional mapping of cutaneous oxygenation with a rapid-drying liquid bandage. Biomedical Optics Express, 2014, 5, 3748.	2.9	66
6	Combined Epidural-General Anesthesia vs General Anesthesia Alone for Elective Abdominal Aortic Aneurysm Repair. JAMA Surgery, 2016, 151, 1116.	4.3	63
7	Simulator-based Transesophageal Echocardiographic Training with Motion Analysis. Anesthesiology, 2014, 121, 389-399.	2.5	58
8	Artificial intelligence in mitral valve analysis. Annals of Cardiac Anaesthesia, 2017, 20, 129.	0.6	49
9	Augmented Reality and Ultrasound Education: Initial Experience. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 1363-1367.	1.3	48
10	Hemodynamic Testing of Patient-Specific Mitral Valves Using a Pulse Duplicator: A Clinical Application of Three-Dimensional Printing. Journal of Cardiothoracic and Vascular Anesthesia, 2016, 30, 1278-1285.	1.3	40
11	Transthoracic Echocardiographic Simulator: Normal and the Abnormal. Journal of Cardiothoracic and Vascular Anesthesia, 2011, 25, 177-181.	1.3	37
12	Neuropeptide Y is an angiogenic factor in cardiovascular regeneration. European Journal of Pharmacology, 2016, 776, 64-70.	3.5	34
13	Impact of Three-Dimensional Echocardiography on Classification of the Severity of Aortic Stenosis. Annals of Thoracic Surgery, 2013, 96, 1343-1348.	1.3	33
14	Mitochondrial Dysfunction in Atrial Tissue of Patients Developing Postoperative Atrial Fibrillation. Annals of Thoracic Surgery, 2017, 104, 1547-1555.	1.3	33
15	Tricuspid Annulus: A Three-Dimensional Deconstruction and Reconstruction. Annals of Thoracic Surgery, 2014, 98, 1536-1542.	1.3	32
16	Manual Skill Acquisition During Transesophageal Echocardiography Simulator Training of Cardiology Fellows: A Kinematic Assessment. Journal of Cardiothoracic and Vascular Anesthesia, 2015, 29, 1504-1510.	1.3	31
17	Chronic type II diabetes mellitus leads to changes in neuropeptide Y receptor expression and distribution in human myocardial tissue. European Journal of Pharmacology, 2011, 665, 19-28.	3.5	30
18	Neuropeptide Y improves myocardial perfusion and function in a swine model of hypercholesterolemia and chronic myocardial ischemia. Journal of Molecular and Cellular Cardiology, 2012, 53, 891-898.	1.9	26

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19	Cardiac Output Calculation and Three-Dimensional Echocardiography. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 547-550.	1.3	26
20	High-density Lipoprotein Increases the Uptake of Oxidized Low Density Lipoprotein via PPARγ/CD36 Pathway in Inflammatory Adipocytes. International Journal of Biological Sciences, 2015, 11, 256-265.	6.4	26
21	Ultrasound Guidance for Central Venous Access: Current Evidence and Clinical Recommendations. Journal of Intensive Care Medicine, 2020, 35, 303-321.	2.8	26
22	Impact of Left Atrial Appendage Exclusion on Short-Term Outcomes in Isolated Coronary Artery Bypass Graft Surgery. Circulation, 2020, 142, 20-28.	1.6	26
23	Preoperative asymptomatic leukocytosis and postoperative outcome in cardiac surgery patients. PLoS ONE, 2017, 12, e0182118.	2.5	26
24	Low-cost three-dimensional printed phantom for neuraxial anesthesia training: Development and comparison to a commercial model. PLoS ONE, 2018, 13, e0191664.	2.5	24
25	Sex-Related Differences in Outcome After High-Risk Vascular Surgery After the Administration of β-Adrenergic–Blocking Drugs. Journal of Cardiothoracic and Vascular Anesthesia, 2008, 22, 354-360.	1.3	23
26	Newly Appreciated Pathophysiology of Ischemic Heart Disease in Women Mandates Changes in Perioperative Management: A Core Review. Anesthesia and Analgesia, 2008, 107, 37-50.	2.2	23
27	Novel, Multimodal Approach for Basic Transesophageal Echocardiographic Teaching. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 800-809.	1.3	23
28	Impact of gender and body surface area on outcome after abdominal aortic aneurysm repair. American Journal of Surgery, 2015, 209, 315-323.	1.8	23
29	Dynamism of the Mitral Annulus: A Spatial and Temporal Analysis. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 1191-1197.	1.3	20
30	Preemptive ultrasound-guided paravertebral block and immediate postoperative lung function. General Thoracic and Cardiovascular Surgery, 2015, 63, 43-48.	0.9	20
31	Making three-dimensional echocardiography more tangible: a workflow for three-dimensional printing with echocardiographic data. Journal of Animal Science and Technology, 2016, 3, R57-R64.	2.5	20
32	Use of Erector Spinae Plane Block in Thoracic Surgery Leads to Rapid Recovery From Anesthesia. Annals of Thoracic Surgery, 2020, 110, 1153-1159.	1.3	20
33	Local infiltration of neuropeptide Y as a potential therapeutic agent against apoptosis and fibrosis in a swine model of hypercholesterolemia and chronic myocardial ischemia. European Journal of Pharmacology, 2013, 718, 261-270.	3.5	19
34	Oxidative Stress and Nerve Function After Cardiopulmonary Bypass in Patients With Diabetes. Annals of Thoracic Surgery, 2014, 98, 1635-1644.	1.3	19
35	Inadvertent Placement of a Flow-Directed Pulmonary Artery Catheter in the Coronary Sinus, Detected by Transesophageal Echocardiography. Anesthesia and Analgesia, 2006, 102, 363-365.	2.2	15
36	Update: Gender differences in CABG outcomes—Have we bridged the gap?. PLoS ONE, 2021, 16, e0255170.	2.5	15

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37	Tricuspid annulus: A spatial and temporal analysis. Annals of Cardiac Anaesthesia, 2016, 19, 599.	0.6	15
38	Use of 3-Dimensional Printing to Create Patient-Specific Abdominal Aortic Aneurysm Models for Preoperative Planning. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 1442-1446.	1.3	14
39	Left Atrial Appendage, Intraoperative Echocardiography, and the Anesthesiologist. Journal of Cardiothoracic and Vascular Anesthesia, 2015, 29, 1651-1662.	1.3	13
40	Summative Objective Structured Clinical Examination Assessment at the End of Anesthesia Residency for Perioperative Ultrasound. Anesthesia and Analgesia, 2018, 126, 2065-2068.	2.2	13
41	Faculty-Focused Perioperative Ultrasound Training Program: A Single-Center Experience. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 1037-1043.	1.3	13
42	Artificial Intelligence for Dynamic Echocardiographic Tricuspid Valve Analysis: A New Tool in Echocardiography. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 2703-2706.	1.3	13
43	Teaching Concepts of Transesophageal Echocardiography via Web-Based Modules. Journal of Cardiothoracic and Vascular Anesthesia, 2015, 29, 402-409.	1.3	12
44	Protocolized Based Management of Cerebrospinal Fluid Drains in Thoracic Endovascular Aortic Aneurysm Repair Procedures. Annals of Vascular Surgery, 2021, 72, 409-418.	0.9	12
45	Neuropeptide Y ₃₋₃₆ incorporated into PVAX nanoparticle improves functional blood flow in a murine model of hind limb ischemia. Journal of Applied Physiology, 2017, 122, 1388-1397.	2.5	11
46	In-Vivo Analysis of Selectively Flexible Mitral Annuloplasty Rings Using Three-Dimensional Echocardiography. Annals of Thoracic Surgery, 2014, 97, 2005-2010.	1.3	10
47	Systolic Anterior Motion of the Mitral Valve and Three-Dimensional Echocardiography. Journal of Cardiothoracic and Vascular Anesthesia, 2015, 29, 149-150.	1.3	10
48	Assessment of Perioperative Ultrasound Workflow Understanding: A Consensus. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 197-202.	1.3	10
49	Vendor-Neutral Right Ventricular Strain Measurement. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 1759-1767.	1.3	10
50	Real-Time Three-Dimensional Echocardiography for Left Atrial Appendage Ligation. Anesthesia and Analgesia, 2009, 108, 1467-1469.	2.2	9
51	Tricuspid Valve: An Intraoperative Echocardiographic Perspective. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 761-770.	1.3	9
52	Cardiopulmonary Bypass Decreases Activation of the Signal Transducer and Activator of Transcription 3 (STAT3) Pathway in Diabetic Human Myocardium. Annals of Thoracic Surgery, 2015, 100, 1636-1645.	1.3	9
53	Multifactorial risk index for prediction of intraoperative blood transfusion in endovascular aneurysm repair. Journal of Vascular Surgery, 2018, 67, 778-784.	1.1	9
54	A preoperative risk score for transfusion in infrarenal endovascular aneurysm repair to avoid type and cross. Journal of Vascular Surgery, 2018, 67, 442-448.	1.1	9

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55	Immediate Preoperative Transthoracic Echocardiography for the Prediction of Postoperative Atrial Fibrillation in High-Risk Cardiac Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 719-725.	1.3	9
56	Evaluation of the quality of transesophageal echocardiography images and verification of proficiency. Echo Research and Practice, 2018, 5, 89-95.	2.5	9
57	Percutaneous ventricular septal defect closure with amplatzer devices resulting in severe tricuspid regurgitation. Catheterization and Cardiovascular Interventions, 2013, 82, E817-20.	1.7	8
58	Changes in Tricuspid Annular Geometry in Patients with Functional Tricuspid Regurgitation. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 2106-2114.	1.3	8
59	Regional Heterogeneity in the Mitral ValveÂApparatus in Patients With IschemicÂMitral Regurgitation. Annals of Thoracic Surgery, 2017, 103, 1171-1177.	1.3	8
60	Decreased PGC-1α Post-Cardiopulmonary Bypass Leads to Impaired Oxidative Stress in Diabetic Patients. Annals of Thoracic Surgery, 2019, 107, 467-476.	1.3	8
61	Simulator-Based Training of Workflow in Echocardiography. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 1533-1539.	1.3	8
62	Artificial Intelligence-Based Assessment of Indices of Right Ventricular Function. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 2698-2702.	1.3	8
63	A 3-Dimensionally Printed, High-Fidelity Ultrasound-Guided Pericardiocentesis Training Model. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 245-247.	1.3	7
64	Tool to Improve Qualitative Assessment of Left Ventricular Systolic Function. Echo Research and Practice, 2020, 7, 1-8.	2.5	7
65	Tifacogin, Recombinant Tissue Factor Pathway Inhibitor. International Anesthesiology Clinics, 2005, 43, 135-144.	0.8	6
66	Aortic Valve Area—Technical Communication: Continuity and Gorlin Equations Revisited. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 2599-2606.	1.3	6
67	Neuropeptide Y3-36 incorporated into PVAX nanoparticle improves angiogenesis in a murine model of myocardial ischemia. European Journal of Pharmacology, 2020, 882, 173261.	3.5	6
68	Regional Anaesthesia for Lower Extremity Amputation is Associated with Reduced Post-operative Complications Compared with General Anaesthesia. European Journal of Vascular and Endovascular Surgery, 2021, 62, 476-484.	1.5	6
69	Pro: Mitral Regurgitation Can Be Reliably Assessed Under General Anesthesia. Journal of Cardiothoracic and Vascular Anesthesia, 2009, 23, 555-557.	1.3	5
70	Left Atrial Appendage Thrombus and Real-Time 3-Dimensional Transesophageal Echocardiography. Journal of Cardiothoracic and Vascular Anesthesia, 2010, 24, 977-979.	1.3	5
71	Intrapleural placement of a thoracic epidural catheter in a patient with spinal stenosis. Journal of Clinical Anesthesia, 2016, 35, 195-197.	1.6	5
72	Three-Dimensional Printing and Transesophageal Echocardiographic Imaging of Patient-Specific Mitral Valve Models in a Pulsatile Phantom Model. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 3469-3475.	1.3	5

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73	Workflow of Ultrasound-Guided Arterial Access. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 1611-1617.	1.3	5
74	Three-Dimensional Transesophageal Echocardiography Simulator: New Learning Tool for Advanced Imaging Techniques. Journal of Cardiothoracic and Vascular Anesthesia, 2022, 36, 2090-2097.	1.3	5
75	Severe Hemodynamic Instability During General Anesthesia in a Professional Bodybuilder. Journal of Cardiothoracic and Vascular Anesthesia, 2009, 23, 208-210.	1.3	4
76	Dynamic Three-Dimensional Geometry of the Aortic Valve Apparatus—A Feasibility Study. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 1290-1300.	1.3	4
77	Diastolic dysfunction – What an anesthesiologist needs to know?. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2019, 33, 221-228.	4.0	4
78	Training Surgical Residents for Ultrasound-Guided Assessment and Management of Unstable Patients. Journal of Surgical Education, 2019, 76, 540-547.	2.5	4
79	Simplified Algorithm for Evaluation of Perioperative Hypoxia and Hypotension (SALVATION): A Practical Echo-guided Approach Proposal. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 2273-2282.	1.3	4
80	Early Cellular Changes in the Ascending Aorta and Myocardium in a Swine Model of Metabolic Syndrome. PLoS ONE, 2016, 11, e0146481.	2.5	4
81	Anterior Myocardial Infarction With Dynamic Left Ventricular Outflow Tract Obstruction. Annals of Thoracic Surgery, 2011, 91, e39-e40.	1.3	3
82	Monitoring the Variation in Myocardial Function With the Doppler-Derived Myocardial Performance Index During Aortic Cross-Clamping. Journal of Cardiothoracic and Vascular Anesthesia, 2012, 26, 204-208.	1.3	3
83	Left Atrial Size: An Underappreciated Perioperative Cardiac Risk Factor. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 1624-1632.	1.3	3
84	Intraoperative Echocardiographic Assessment of Prosthetic Valves: A Practical Approach. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 823-837.	1.3	3
85	Analysis of Kinematic Differences in Hand Motion between Novice and Experienced Operators in IR: A Pilot Study. Journal of Vascular and Interventional Radiology, 2021, 32, 226-234.	0.5	3
86	Enhanced Post-Operative Recovery with Continuous Peripheral Nerve Block After Lower Extremity Amputation. Annals of Vascular Surgery, 2021, 76, 399-405.	0.9	3
87	Preoperative stress testing in high-risk vascular surgery and its association with gender. Gender Medicine, 2010, 7, 584-592.	1.4	2
88	Bifid Atrial Septal Aneurysm. Anesthesia and Analgesia, 2011, 112, 1300-1302.	2.2	2
89	Pro: Simulation Training in Transesophageal Echocardiography. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 1410-1411.	1.3	2
90	Motion-Tracking Machines and Sensors: Advancing Education Technology. Journal of Cardiothoracic and Vascular Anesthesia, 2021, , .	1.3	2

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91	Echocardiographic Assessment of Mitral Valve for Suitability of Repair: An Intraoperative Approach from a Mitral Center. Journal of Cardiothoracic and Vascular Anesthesia, 2021, , .	1.3	2
92	Three-Dimensional Printing of Patient-Specific Heart Valves: Separating Facts From Fiction and Myth From Reality. Journal of Cardiothoracic and Vascular Anesthesia, 2022, 36, 2643-2655.	1.3	2
93	Erector Spinae Plane Block—Block of Choice for Video-Assisted Thoracic Surgery?. Annals of Thoracic Surgery, 2021, 112, 1037-1038.	1.3	2
94	Assessing Skill Acquisition in Anesthesiology Interns Practicing Central Venous Catheter Placement Through Advancements in Motion Analysis. Journal of Cardiothoracic and Vascular Anesthesia, 2022, 36, 3000-3007.	1.3	2
95	Ultrasound-guided Intravenous Line Placement Course for Certified Registered Nurse Anesthetists: A Necessary Next Step. AANA Journal, 2019, 87, 269-275.	0.4	2
96	A Sequential Approach for Echocardiographic Guidance of Transseptal Puncture: The PITLOC Protocol. Journal of Cardiothoracic and Vascular Anesthesia, 2021, , .	1.3	2
97	Influence of Increasing Age and Body Mass Index of Gender in COVID-19 Patients. Journal of Women's Health, 2022, 31, 779-786.	3.3	2
98	A Woman With a History of Stroke and a Mass in the Aorta. Journal of Cardiothoracic and Vascular Anesthesia, 2013, 27, 197-198.	1.3	1
99	An Echodensity in the Sinus of Valsalva. Journal of Cardiothoracic and Vascular Anesthesia, 2016, 30, 1742-1743.	1.3	1
100	Dynamic Left Ventricular Outflow Tract Obstruction in the Setting of Acute Myocardial Infarction. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 3423-3426.	1.3	1
101	Ischemic Mitral Regurgitation: To Fix or Not to Fix. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 2532-2535.	1.3	1
102	Cardiopulmonary Bypass Suppresses Forkhead Box O3 and Downstream Autophagy in the Diabetic Human Heart. Annals of Thoracic Surgery, 2021, 111, 937-944.	1.3	1
103	Impact of left ventricular outflow tract flow acceleration on aortic valve area calculation in patients with aortic stenosis. Echo Research and Practice, 2019, 6, 97-103.	2.5	1
104	Response by Mahmood et al to Letter Regarding Article, "Impact of Left Atrial Appendage Exclusion on Short-Term Outcomes in Isolated Coronary Artery Bypass Graft Surgery― Circulation, 2020, 142, e504-e505.	1.6	1
105	Open Abdominal Aortic Aneurysm Surgery and Renal Dysfunction; Association of Demographic and Clinical Variables with Proximal Clamp Location. Annals of Vascular Surgery, 2022, 84, 239-249.	0.9	1
106	Heparin Administration During Cardiopulmonary Resuscitation. Journal of Cardiothoracic and Vascular Anesthesia, 2008, 22, 861-863.	1.3	0
107	Assessment of Valvular Function and Abnormalities with TEE. International Anesthesiology Clinics, 2008, 46, 63-81.	0.8	0
108	Acute Limb Ischemia and Transesophageal Echocardiography: Making a Case. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 1164-1165.	1.3	0

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109	Transesophageal Echocardiographic Monitoring During Vascular Surgery in a Patient With Unanticipated Critical Aortic Stenosis. Journal of Cardiothoracic and Vascular Anesthesia, 2014, 28, 1426-1428.	1.3	0
110	Left Atrial Appendage and Another Appendage?. Journal of Cardiothoracic and Vascular Anesthesia, 2015, 29, 248-249.	1.3	0
111	A Tight Spot After Pulmonary Vein Catheter Ablation. Journal of Cardiothoracic and Vascular Anesthesia, 2016, 30, 1748-1749.	1.3	0
112	A Second Look at Dilation of the Ascending Aorta. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 1535-1537.	1.3	0
113	Intraoperative Challenges in the Management of Biventricular Failure in Takotsubo Cardiomyopathy. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 1318-1321.	1.3	0
114	Systolic Anterior Motion after Myocardial Revascularization—The Unusual Suspect. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 1825-1827.	1.3	0
115	Point-of-Care Thromboelastography for Intrathecal Drain Management in Patients With Coagulopathy and Thoracic Aorta Surgery: A Case Report. A&A Practice, 2019, 13, 464-467.	0.4	0
116	Role of Ultrasound-Guided Evaluation of Dyspnea in the Coronavirus Disease 2019 Pandemic. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 3197-3202.	1.3	0
117	Erector Spinae Block: Questions Answered, More Questions Raised. Annals of Thoracic Surgery, 2022, 113, 1057-1058.	1.3	0
118	A Retrocardiac Echolucency. Journal of Cardiothoracic and Vascular Anesthesia, 2021, , .	1.3	0
119	Salvation through Evolution. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 3849-3850.	1.3	0
120	Transthoracic Echocardio-Graphic Simulator: Normal and the Abnormal. Virtualʹnye Tehnologii V Medicine, 2011, , 25-32.	0.0	0
121	Mechanical discordance between left atrium and left atrial appendage. Annals of Cardiac Anaesthesia, 2018, 21, 82-84.	0.6	0
122	Dynamic Geometric Tricuspid Valve Assessment: Extending from Bench to Bedside Journal of Cardiothoracic and Vascular Anesthesia, 2021, , .	1.3	0
123	In Response. Anesthesia and Analgesia, 2022, 134, e6-e7.	2.2	0