

Robina Matyal

List of Publications by Citations

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112
papers

1,245
citations

20
h-index

31
g-index

123
ext. papers

1,576
ext. citations

2.5
avg, IF

4.38
L-index

#	Paper	IF	Citations
112	Relative importance of aneurysm diameter and body size for predicting abdominal aortic aneurysm rupture in men and women. <i>Journal of Vascular Surgery</i> , 2014 , 59, 1209-16	3.5	122
111	Perioperative diastolic dysfunction during vascular surgery and its association with postoperative outcome. <i>Journal of Vascular Surgery</i> , 2009 , 50, 70-6	3.5	85
110	Non-invasive transdermal two-dimensional mapping of cutaneous oxygenation with a rapid-drying liquid bandage. <i>Biomedical Optics Express</i> , 2014 , 5, 3748-64	3.5	54
109	Perioperative assessment of diastolic dysfunction. <i>Anesthesia and Analgesia</i> , 2011 , 113, 449-72	3.9	54
108	Simulator-based transesophageal echocardiographic training with motion analysis: a curriculum-based approach. <i>Anesthesiology</i> , 2014 , 121, 389-99	4.3	48
107	Combined Epidural-General Anesthesia vs General Anesthesia Alone for Elective Abdominal Aortic Aneurysm Repair. <i>JAMA Surgery</i> , 2016 , 151, 1116-1123	5.4	43
106	Handheld Point-of-Care Ultrasound Probes: The New Generation of POCUS. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 3139-3145	2.1	35
105	Artificial intelligence in mitral valve analysis. <i>Annals of Cardiac Anaesthesia</i> , 2017 , 20, 129-134	1.3	33
104	Transthoracic echocardiographic simulator: normal and the abnormal. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2011 , 25, 177-81	2.1	33
103	Hemodynamic Testing of Patient-Specific Mitral Valves Using a Pulse Duplicator: A Clinical Application of Three-Dimensional Printing. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2016 , 30, 1278-85	2.1	29
102	Neuropeptide Y is an angiogenic factor in cardiovascular regeneration. <i>European Journal of Pharmacology</i> , 2016 , 776, 64-70	5.3	28
101	Augmented Reality and Ultrasound Education: Initial Experience. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018 , 32, 1363-1367	2.1	27
100	Impact of three-dimensional echocardiography on classification of the severity of aortic stenosis. <i>Annals of Thoracic Surgery</i> , 2013 , 96, 1343-1348	2.7	27
99	Tricuspid annulus: a three-dimensional deconstruction and reconstruction. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 1536-42	2.7	25
98	Chronic type II diabetes mellitus leads to changes in neuropeptide Y receptor expression and distribution in human myocardial tissue. <i>European Journal of Pharmacology</i> , 2011 , 665, 19-28	5.3	25
97	Neuropeptide Y improves myocardial perfusion and function in a swine model of hypercholesterolemia and chronic myocardial ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 891-8	5.8	23
96	Cardiac output calculation and three-dimensional echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 547-50	2.1	22

95	Manual Skill Acquisition During Transesophageal Echocardiography Simulator Training of Cardiology Fellows: A Kinematic Assessment. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015 , 29, 1504-10	2.1	21
94	Mitochondrial Dysfunction in Atrial Tissue of Patients Developing Postoperative Atrial Fibrillation. <i>Annals of Thoracic Surgery</i> , 2017 , 104, 1547-1555	2.7	21
93	Sex-related differences in outcome after high-risk vascular surgery after the administration of beta-adrenergic-blocking drugs. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2008 , 22, 354-60	2.1	21
92	High-density lipoprotein increases the uptake of oxidized low density lipoprotein via PPAR γ /CD36 pathway in inflammatory adipocytes. <i>International Journal of Biological Sciences</i> , 2015 , 11, 256-65	11.2	19
91	Local infiltration of neuropeptide Y as a potential therapeutic agent against apoptosis and fibrosis in a swine model of hypercholesterolemia and chronic myocardial ischemia. <i>European Journal of Pharmacology</i> , 2013 , 718, 261-70	5.3	18
90	Impact of gender and body surface area on outcome after abdominal aortic aneurysm repair. <i>American Journal of Surgery</i> , 2015 , 209, 315-23	2.7	18
89	Novel, multimodal approach for basic transesophageal echocardiographic teaching. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 800-9	2.1	17
88	Oxidative stress and nerve function after cardiopulmonary bypass in patients with diabetes. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 1635-43; discussion 1643-4	2.7	16
87	Newly appreciated pathophysiology of ischemic heart disease in women mandates changes in perioperative management: a core review. <i>Anesthesia and Analgesia</i> , 2008 , 107, 37-50	3.9	16
86	Dynamism of the mitral annulus: a spatial and temporal analysis. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 1191-7	2.1	15
85	Preemptive ultrasound-guided paravertebral block and immediate postoperative lung function. <i>General Thoracic and Cardiovascular Surgery</i> , 2015 , 63, 43-8	1.6	15
84	Inadvertent placement of a flow-directed pulmonary artery catheter in the coronary sinus, detected by transesophageal echocardiography. <i>Anesthesia and Analgesia</i> , 2006 , 102, 363-5	3.9	15
83	Ultrasound Guidance for Central Venous Access: Current Evidence and Clinical Recommendations. <i>Journal of Intensive Care Medicine</i> , 2020 , 35, 303-321	3.3	15
82	Low-cost three-dimensional printed phantom for neuraxial anesthesia training: Development and comparison to a commercial model. <i>PLoS ONE</i> , 2018 , 13, e0191664	3.7	14
81	Making three-dimensional echocardiography more tangible: a workflow for three-dimensional printing with echocardiographic data. <i>Journal of Animal Science and Technology</i> , 2016 , 3, R57-R64	1.6	14
80	Preoperative asymptomatic leukocytosis and postoperative outcome in cardiac surgery patients. <i>PLoS ONE</i> , 2017 , 12, e0182118	3.7	13
79	Tricuspid annulus: A spatial and temporal analysis. <i>Annals of Cardiac Anaesthesia</i> , 2016 , 19, 599-605	1.3	13
78	Left Atrial Appendage, Intraoperative Echocardiography, and the Anesthesiologist. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015 , 29, 1651-62	2.1	12

77	Teaching concepts of transesophageal echocardiography via Web-based modules. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015 , 29, 402-9	2.1	11
76	Use of 3-Dimensional Printing to Create Patient-Specific Abdominal Aortic Aneurysm Models for Preoperative Planning. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019 , 33, 1442-1446	2.1	9
75	Real-time three-dimensional echocardiography for left atrial appendage ligation. <i>Anesthesia and Analgesia</i> , 2009 , 108, 1467-9	3.9	9
74	Use of Erector Spinae Plane Block in Thoracic Surgery Leads to Rapid Recovery From Anesthesia. <i>Annals of Thoracic Surgery</i> , 2020 , 110, 1153-1159	2.7	9
73	Neuropeptide Y incorporated into PVAX nanoparticle improves functional blood flow in a murine model of hind limb ischemia. <i>Journal of Applied Physiology</i> , 2017 , 122, 1388-1397	3.7	8
72	Systolic anterior motion of the mitral valve and three-dimensional echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015 , 29, 149-50	2.1	8
71	Impact of Left Atrial Appendage Exclusion on Short-Term Outcomes in Isolated Coronary Artery Bypass Graft Surgery. <i>Circulation</i> , 2020 , 142, 20-28	16.7	8
70	Summative Objective Structured Clinical Examination Assessment at the End of Anesthesia Residency for Perioperative Ultrasound. <i>Anesthesia and Analgesia</i> , 2018 , 126, 2065-2068	3.9	8
69	Vendor-Neutral Right Ventricular Strain Measurement. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018 , 32, 1759-1767	2.1	8
68	In-vivo analysis of selectively flexible mitral annuloplasty rings using three-dimensional echocardiography. <i>Annals of Thoracic Surgery</i> , 2014 , 97, 2005-10	2.7	8
67	Cardiopulmonary Bypass Decreases Activation of the Signal Transducer and Activator of Transcription 3 (STAT3) Pathway in Diabetic Human Myocardium. <i>Annals of Thoracic Surgery</i> , 2015 , 100, 1636-45; discussion 1645	2.7	8
66	Tricuspid valve: an intraoperative echocardiographic perspective. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 761-70	2.1	7
65	Assessment of Perioperative Ultrasound Workflow Understanding: A Consensus. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017 , 31, 197-202	2.1	7
64	Immediate Preoperative Transthoracic Echocardiography for the Prediction of Postoperative Atrial Fibrillation in High-Risk Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 719-725	2.1	7
63	Changes in Tricuspid Annular Geometry in Patients with Functional Tricuspid Regurgitation. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017 , 31, 2106-2114	2.1	6
62	Percutaneous ventricular septal defect closure with Amplatzer devices resulting in severe tricuspid regurgitation. <i>Catheterization and Cardiovascular Interventions</i> , 2013 , 82, E817-20	2.7	6
61	Tifacogin, recombinant tissue factor pathway inhibitor. <i>International Anesthesiology Clinics</i> , 2005 , 43, 135-44	0.6	6
60	Faculty-Focused Perioperative Ultrasound Training Program: A Single-Center Experience. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019 , 33, 1037-1043	2.1	6

59	Artificial Intelligence for Dynamic Echocardiographic Tricuspid Valve Analysis: A New Tool in Echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 2703-2706	2.1	5
58	Artificial Intelligence-Based Assessment of Indices of Right Ventricular Function. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 2698-2702	2.1	5
57	Left atrial appendage thrombus and real-time 3-dimensional transesophageal echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2010 , 24, 977-9	2.1	5
56	Decreased PGC-1 α Post-Cardiopulmonary Bypass Leads to Impaired Oxidative Stress in Diabetic Patients. <i>Annals of Thoracic Surgery</i> , 2019 , 107, 467-476	2.7	5
55	A 3-Dimensionally Printed, High-Fidelity Ultrasound-Guided Pericardiocentesis Training Model. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 245-247	2.1	5
54	Regional Heterogeneity in the Mitral Valve Apparatus in Patients With Ischemic Mitral Regurgitation. <i>Annals of Thoracic Surgery</i> , 2017 , 103, 1171-1177	2.7	4
53	Neuropeptide Y incorporated into PVAX nanoparticle improves angiogenesis in a murine model of myocardial ischemia. <i>European Journal of Pharmacology</i> , 2020 , 882, 173261	5.3	4
52	Early Cellular Changes in the Ascending Aorta and Myocardium in a Swine Model of Metabolic Syndrome. <i>PLoS ONE</i> , 2016 , 11, e0146481	3.7	4
51	Three-Dimensional Printing and Transesophageal Echocardiographic Imaging of Patient-Specific Mitral Valve Models in a Pulsatile Phantom Model. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019 , 33, 3469-3475	2.1	4
50	Simulator-Based Training of Workflow in Echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019 , 33, 1533-1539	2.1	4
49	A preoperative risk score for transfusion in infrarenal endovascular aneurysm repair to avoid type and cross. <i>Journal of Vascular Surgery</i> , 2018 , 67, 442-448	3.5	4
48	Aortic Valve Area-Technical Communication: Continuity and Gorlin Equations Revisited. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018 , 32, 2599-2606	2.1	3
47	Dynamic Three-Dimensional Geometry of the Aortic Valve Apparatus-A Feasibility Study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017 , 31, 1290-1300	2.1	3
46	Severe hemodynamic instability during general anesthesia in a professional bodybuilder. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2009 , 23, 208-10	2.1	3
45	Pro: Mitral regurgitation can be reliably assessed under general anesthesia. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2009 , 23, 555-7	2.1	3
44	Workflow of Ultrasound-Guided Arterial Access. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2021 , 35, 1611-1617	2.1	3
43	Multifactorial risk index for prediction of intraoperative blood transfusion in endovascular aneurysm repair. <i>Journal of Vascular Surgery</i> , 2018 , 67, 778-784	3.5	2
42	Diastolic dysfunction - What an anesthesiologist needs to know?. <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , 2019 , 33, 221-228	4	2

41	Pro: Simulation training in transesophageal echocardiography. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 1410-1	2.1	2
40	Left atrial size: an underappreciated perioperative cardiac risk factor. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 1624-32	2.1	2
39	Monitoring the variation in myocardial function with the Doppler-derived myocardial performance index during aortic cross-clamping. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2012 , 26, 204-8	2.1	2
38	Echo rounds: bifid atrial septal aneurysm: visualization with three-dimensional transesophageal echocardiography. <i>Anesthesia and Analgesia</i> , 2011 , 112, 1300-2	3.9	2
37	Preoperative stress testing in high-risk vascular surgery and its association with gender. <i>Gender Medicine</i> , 2010 , 7, 584-92		2
36	Evaluation of the quality of transesophageal echocardiography images and verification of proficiency. <i>Echo Research and Practice</i> , 2018 , 5, 89-95	2	2
35	Simplified Algorithm for Evaluation of Perioperative Hypoxia and Hypotension (SALVATION): A Practical Echo-guided Approach Proposal. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2021 , 35, 2273-2282	2.1	2
34	Training Surgical Residents for Ultrasound-Guided Assessment and Management of Unstable Patients. <i>Journal of Surgical Education</i> , 2019 , 76, 540-547	3.4	2
33	Protocolized Based Management of Cerebrospinal Fluid Drains in Thoracic Endovascular Aortic Aneurysm Repair Procedures. <i>Annals of Vascular Surgery</i> , 2021 , 72, 409-418	1.7	2
32	Intraoperative Echocardiographic Assessment of Prosthetic Valves: A Practical Approach. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018 , 32, 823-837	2.1	2
31	Erector Spinae Plane Block-Block of Choice for Video-Assisted Thoracic Surgery?. <i>Annals of Thoracic Surgery</i> , 2021 , 112, 1037-1038	2.7	2
30	Intrapleural placement of a thoracic epidural catheter in a patient with spinal stenosis. <i>Journal of Clinical Anesthesia</i> , 2016 , 35, 195-197	1.9	1
29	Dynamic Left Ventricular Outflow Tract Obstruction in the Setting of Acute Myocardial Infarction. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019 , 33, 3423-3426	2.1	1
28	A woman with a history of stroke and a mass in the aorta. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2013 , 27, 197-8	2.1	1
27	Anterior myocardial infarction with dynamic left ventricular outflow tract obstruction. <i>Annals of Thoracic Surgery</i> , 2011 , 91, e39-40	2.7	1
26	Impact of left ventricular outflow tract flow acceleration on aortic valve area calculation in patients with aortic stenosis. <i>Echo Research and Practice</i> , 2019 , 6, 97-103	2	1
25	Tool to improve qualitative assessment of left ventricular systolic function. <i>Echo Research and Practice</i> , 2020 , 7, 1-8	2	1
24	An Echodensity in the Sinus of Valsalva. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2016 , 30, 1742:1743	1	1

23	Cardiopulmonary Bypass Suppresses Forkhead Box O3 and Downstream Autophagy in the Diabetic Human Heart. <i>Annals of Thoracic Surgery</i> , 2021 , 111, 937-944	2.7	1
22	Ultrasound-guided Intravenous Line Placement Course for Certified Registered Nurse Anesthetists: A Necessary Next Step. <i>AANA Journal</i> , 2019 , 87, 269-275	0.5	1
21	Ischemic Mitral Regurgitation: To Fix or Not to Fix. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 2532-2535	2.1	0
20	Enhanced Post-Operative Recovery with Continuous Peripheral Nerve Block After Lower Extremity Amputation. <i>Annals of Vascular Surgery</i> , 2021 , 76, 399-405	1.7	0
19	Regional Anaesthesia for Lower Extremity Amputation is Associated with Reduced Post-operative Complications Compared with General Anaesthesia. <i>European Journal of Vascular and Endovascular Surgery</i> , 2021 , 62, 476-484	2.3	0
18	Update: Gender differences in CABG outcomes-Have we bridged the gap?. <i>PLoS ONE</i> , 2021 , 16, e0255170	2.7	0
17	A Second Look at Dilation of the Ascending Aorta. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017 , 31, 1535-1537	2.1	
16	Intraoperative Challenges in the Management of Biventricular Failure in Takotsubo Cardiomyopathy. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017 , 31, 1318-1321	2.1	
15	Systolic Anterior Motion after Myocardial Revascularization-The Unusual Suspect. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018 , 32, 1825-1827	2.1	
14	Acute limb ischemia and transesophageal echocardiography: making a case. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 1164-5	2.1	
13	Transesophageal echocardiographic monitoring during vascular surgery in a patient with unanticipated critical aortic stenosis. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2014 , 28, 1426-8	2.1	
12	Left atrial appendage... and another appendage?. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015 , 29, 248-9	2.1	
11	Heparin administration during cardiopulmonary resuscitation. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2008 , 22, 861-3	2.1	
10	Assessment of valvular function and abnormalities with TEE. <i>International Anesthesiology Clinics</i> , 2008 , 46, 63-81	0.6	
9	In Response.. <i>Anesthesia and Analgesia</i> , 2022 , 134, e6-e7	3.9	
8	Mechanical discordance between left atrium and left atrial appendage. <i>Annals of Cardiac Anaesthesia</i> , 2018 , 21, 82-84	1.3	
7	Transthoracic Echocardiographic Simulator: Normal and the Abnormal. <i>Virtual?nye Tehnologii V Medicine</i> , 2011 , 25-32	0.1	
6	Role of Ultrasound-Guided Evaluation of Dyspnea in the Coronavirus Disease 2019 Pandemic. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 3197-3202	2.1	

- 5 Erector Spinae Block: Questions answered, more questions raised. *Annals of Thoracic Surgery*, **2021**, 2.7
- 4 A Tight Spot After Pulmonary Vein Catheter Ablation. *Journal of Cardiothoracic and Vascular Anesthesia*, **2016**, 30, 1748-1749 2.1
- 3 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 0.8
- 2 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 2.4
- 1 Salvation Through Evolution. *Journal of Cardiothoracic and Vascular Anesthesia*, **2021**, 35, 3849-3850 2.1