Elazer R Edelman

List of Publications by Year
in descending order

344	21,138	10650	13635
papers	citations	74 h-index	134 g-index

352	352	352	21832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of anatomical variation on extracorporeal membrane oxygenation circulatory support: A computational study. Computers in Biology and Medicine, 2022, 141, 105178.	3.9	3
2	Remote Speech Analysis in the Evaluation of Hospitalized Patients With Acute Decompensated HeartÂFailure. JACC: Heart Failure, 2022, 10, 41-49.	1.9	15
3	Morphometric analysis of the human common hepatic artery reveals a rich and accessible target for sympathetic liver denervation. Scientific Reports, 2022, 12, 1413.	1.6	1
4	Impact and implications of mixed plaque class in automated characterization of complex atherosclerotic lesions. Computerized Medical Imaging and Graphics, 2022, 97, 102051.	3.5	3
5	Accelerated neutral atom beam (ANAB) modified polyethylene for decreased wear and reduced bacteria colonization: An in vitro study. Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 42, 102540.	1.7	3
6	Accelerated Neutral Atom Beam (ANAB) Modified Poly-Ether-Ether-Ketone for Increasing In Vitro Bone Cell Functions and Reducing Bacteria Colonization Without Drugs or Antibiotics. Journal of Biomedical Nanotechnology, 2022, 18, 788-795.	0.5	5
7	A Scalable Approach to Determine Intracardiac Pressure From Mechanical Circulatory Support Device Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 905-913.	2.5	2
8	Nickelâ€“Titanium peripheral stents: Which is the best criterion for the multi-axial fatigue strength assessment?. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 113, 104142.	1.5	12
9	Multimodal Loading Environment Predicts Bioresorbable Vascular Scaffoldsâ€™ Durability. Annals of Biomedical Engineering, 2021, 49, 1298-1307.	1.3	2
10	Non-invasive estimation of relative pressure for intracardiac flows using virtual work-energy. Medical Image Analysis, 2021, 68, 101948.	7.0	16
11	Endovascular drug-delivery and drug-elution systems. , 2021, , 595-631.		7
12	1Î±,25-Dihydroxyvitamin D3 Encapsulated in Nanoparticles Prevents Venous Neointimal Hyperplasia and Stenosis in Porcine Arteriovenous Fistulas. Journal of the American Society of Nephrology: JASN, 2021, 32, 866-885.	3.0	13
13	Novel Lesional Transcriptional Signature Separates Atherosclerosis With and Without Diabetes in Yorkshire Swine and Humans. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 1487-1503.	1.1	1
14	False lumen pressure estimation in type B aortic dissection using 4D flow cardiovascular magnetic resonance: comparisons with aortic growth. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 51.	1.6	29
15	Orphan nuclear receptor COUPâ€TFII enhances myofibroblast glycolysis leading to kidney fibrosis. EMBO Reports, 2021, 22, e51169.	2.0	16
16	Feasibility of remote speech analysis in evaluation of dynamic fluid overload in heart failure patients undergoing haemodialysis treatment. ESC Heart Failure, 2021, 8, 2467-2472.	1.4	7
17	Understanding TAVR device expansion as it relates to morphology of the bicuspid aortic valve: A simulation study. PLoS ONE, 2021, 16, e0251579.	1.1	6
18	Vascular Lesionâ€“Specific Drug DeliveryÂSystems. Journal of the American College of Cardiology, 2021, 77, 2413-2431.	1.2	17

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19	Validation study to determine the accuracy of central blood pressure measurement using the SphygmoCor XCEL cuff device in patients with severe aortic stenosis undergoing transcatheter aortic valve replacement. Journal of Clinical Hypertension, 2021, 23, 1165-1175.	1.0	4
20	Karnovskyâ€™s Dictum: The Endothelium Is Good-Looking and Smart. Circulation, 2021, 143, 2166-2168.	1.6	1
21	Three dimensional reconstruction of coronary artery stents from optical coherence tomography: experimental validation and clinical feasibility. Scientific Reports, 2021, 11, 12252.	1.6	6
22	Simulation of Fluid-Structure Interaction in Extracorporeal Membrane Oxygenation Circulatory Support Systems. Journal of Cardiovascular Translational Research, 2021, , 1.	1.1	8
23	Artificial intelligence to generate medical images: augmenting the cardiologistâ€™s visual clinical workflow. European Heart Journal Digital Health, 2021, 2, 539-544.	0.7	5
24	Improving Automated Tissue Characterization in Optical Coherence Tomography by Melding Attenuation Compensation with Deep Learning. , 2021, , .		2
25	In Vitro Validation of a Novel Image-Based Inverse Method for Mechanical Characterization of Vessels. , 2021, , .		1
26	Noninvasive quantification of cerebrovascular pressure changes using 4D Flow MRI. Magnetic Resonance in Medicine, 2021, 86, 3096-3110.	1.9	13
27	A platform for high-fidelity patient-specific structural modelling of atherosclerotic arteries: from intravascular imaging to three-dimensional stress distributions. Journal of the Royal Society Interface, 2021, 18, 20210436.	1.5	10
28	Translational challenges for synthetic imaging in cardiology. European Heart Journal Digital Health, 2021, 2, 559-560.	0.7	2
29	A Computational Fluid Dynamics Study of the Extracorporeal Membrane Oxygenation-Failing Heart Circulation. ASAIO Journal, 2021, 67, 276-283.	0.9	19
30	Acute Stent-Induced Endothelial Denudation: Biomechanical Predictors of Vascular Injury. Frontiers in Cardiovascular Medicine, 2021, 8, 733605.	1.1	4
31	An inverse method for mechanical characterization of heterogeneous diseased arteries using intravascular imaging. Scientific Reports, 2021, 11, 22540.	1.6	12
32	Hysteretic device characteristics indicate cardiac contractile state for guiding mechanical circulatory support device use. Intensive Care Medicine Experimental, 2021, 9, 62.	0.9	2
33	Balloon-based drug coating delivery to the artery wall is dictated by coating micro-morphology and angioplasty pressure gradients. Biomaterials, 2020, 260, 120337.	5.7	14
34	Randomized trials of invasive cardiovascular interventions that include a placebo control: a systematic review and meta-analysis. European Heart Journal, 2020, 41, 2556-2569.	1.0	16
35	Paclitaxel Drug-Coated Balloon Angioplasty Suppresses Progression and Inflammation of Experimental Atherosclerosis in Rabbits. JACC Basic To Translational Science, 2020, 5, 685-695.	1.9	18
36	Case 30-2020: A 54-Year-Old Man with Sudden Cardiac Arrest. New England Journal of Medicine, 2020, 383, 1263-1275.	13.9	16

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37	Dynamic Modulation of Device-Arterial Coupling to Determine Cardiac Output and Vascular Resistance. Annals of Biomedical Engineering, 2020, 48, 2333-2342.	1.3	3
38	Mortality and Paclitaxel-Coated Devices. Circulation, 2020, 141, 1859-1869.	1.6	122
39	Tenofovir prodrugs potently inhibit Epsteinâ€“Barr virus lytic DNA replication by targeting the viral DNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12368-12374.	3.3	34
40	Impact of concomitant vasoactive treatment and mechanical left ventricular unloading in a porcine model of profound cardiogenic shock. Critical Care, 2020, 24, 95.	2.5	19
41	Mixed Valvular Disease Following Transcatheter Aortic Valve Replacement: Quantification and Systematic Differentiation Using Clinical Measurements and Imageâ€Based Patientâ€Specific In Silico Modeling. Journal of the American Heart Association, 2020, 9, e015063.	1.6	26
42	A Domain Enriched Deep Learning Approach to Classify Atherosclerosis Using Intravascular Ultrasound Imaging. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1210-1220.	7.3	20
43	A geometrically adaptable heart valve replacement. Science Translational Medicine, 2020, 12, .	5.8	35
44	Analysis : Intravascular Devices with a Higher Risk of Polymer Emboli: The Need for Particulate Generation Testing. Biomedical Instrumentation and Technology, 2020, 54, 37-43.	0.2	5
45	In vivo and in vitro evaluation of a biodegradable magnesium vascular stent designed by shape optimization strategy. Biomaterials, 2019, 221, 119414.	5.7	81
46	Taking paclitaxel coated balloons to a higher level: Predicting coating dissolution kinetics, tissue retention and dosing dynamics. Journal of Controlled Release, 2019, 310, 94-102.	4.8	30
47	Aorticorenal Ganglia Pacing. JACC: Cardiovascular Interventions, 2019, 12, 1121-1124.	1.1	1
48	Procedural and Anatomical Determinants of Multielectrode Renal Denervation Efficacy. Hypertension, 2019, 74, 546-554.	1.3	22
49	Osterixâ€mCherry Expression Allows for Early Bone Detection in a Calvarial Defect Model. Advanced Biology, 2019, 3, e1900184.	3.0	4
50	Ventricular stroke work and vascular impedance refine the characterization of patients with aortic stenosis. Science Translational Medicine, 2019, 11, .	5.8	26
51	Expert recommendations on the assessment of wall shear stress in human coronary arteries: existing methodologies, technical considerations, and clinical applications. European Heart Journal, 2019, 40, 3421-3433.	1.0	178
52	Hemodynamic consequences of a multilayer flow modulator in aortic dissection. Medical and Biological Engineering and Computing, 2019, 57, 1861-1874.	1.6	6
53	Single-Cell Analysis of the Normal Mouse Aorta Reveals Functionally Distinct Endothelial Cell Populations. Circulation, 2019, 140, 147-163.	1.6	231
54	A decade of Science Translational Medicine. Science Translational Medicine, 2019, 11, .	5.8	4

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55	Leveraging Device-Arterial Coupling to Determine Cardiac and Vascular State. IEEE Transactions on Biomedical Engineering, 2019, 66, 2800-2808.	2.5	6
56	Twenty-Fourâ€“Hour Ex Vivo Perfusion with Acellular Solution Enables Successful Replantation of Porcine Forelimbs. Plastic and Reconstructive Surgery, 2019, 144, 608e-618e.	0.7	25
57	Subendothelial matrix components influence endothelial cell apoptosis in vitro. American Journal of Physiology - Cell Physiology, 2019, 316, C210-C222.	2.1	5
58	Computational Cardiology. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 4-11.	3.9	16
59	A Mechanical Approach for Smooth Surface Fitting to Delineate Vessel Walls in Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2019, 38, 1384-1397.	5.4	22
60	Fracture in drugâ€eluting stents increases focal intimal hyperplasia in the atherosclerosed rabbit iliac artery. Catheterization and Cardiovascular Interventions, 2019, 93, 278-285.	0.7	10
61	Assessment of the Angiogenic Potential of 2-Deoxy-D-Ribose Using a Novel in vitro 3D Dynamic Model in Comparison With Established in vitro Assays. Frontiers in Bioengineering and Biotechnology, 2019, 7, 451.	2.0	28
62	A deep learning approach to classify atherosclerosis using intracoronary optical coherence tomography. , 2019, , .		19
63	Anatomical and procedural determinants of ambulatory blood pressure lowering following catheter-based renal denervation using radiofrequency. Cardiovascular Revascularization Medicine, 2018, 19, 845-851.	0.3	11
64	Could antiretrovirals be treating EBV in MS? A case report. Multiple Sclerosis and Related Disorders, 2018, 22, 19-21.	0.9	22
65	Strain-induced accelerated asymmetric spatial degradation of polymeric vascular scaffolds. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2640-2645.	3.3	46
66	Mechanical circulatory support device-heart hysteretic interaction can predict left ventricular end diastolic pressure. Science Translational Medicine, 2018, 10, .	5.8	12
67	Vascular Tissue Engineering: Progress, Challenges, and Clinical Promise. Cell Stem Cell, 2018, 22, 340-354.	5.2	320
68	Quantification of thrombus formation in malapposed coronary stents deployed in vitro through imaging analysis. Journal of Biomechanics, 2018, 71, 296-301.	0.9	8
69	Optimized Computer-Aided Segmentation and Three-Dimensional Reconstruction Using Intracoronary Optical Coherence Tomography. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1168-1176.	3.9	20
70	Rapamycin activates TGF receptor independently of its ligand: implications for endothelial dysfunction. Clinical Science, 2018, 132, 437-447.	1.8	15
71	Defining drug and target protein distributions after stent-based drug release: Durable versus deployable coatings. Journal of Controlled Release, 2018, 274, 102-108.	4.8	15
72	Topographic Pattern of Valve Calcification. JACC: Cardiovascular Imaging, 2018, 11, 1032-1035.	2.3	2

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73	Optimizing Glutaraldehyde-Fixed Tissue Heart Valves with Chondroitin Sulfate Hydrogel for Endothelialization and Shielding against Deterioration. Biomacromolecules, 2018, 19, 1234-1244.	2.6	74
74	Catheter-based renal denervation in hypertension. Journal of Hypertension, 2018, 36, 41-42.	0.3	4
75	3D matrixâ€embedding inhibits cycloheximideâ€mediated sensitization to TNFâ€alphaâ€induced apoptosis of human endothelial cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1085-1096.	1.3	3
76	Vessel centerline reconstruction from non-isocentric and non-orthogonal paired monoplane angiographic images. International Journal of Cardiovascular Imaging, 2018, 34, 673-682.	0.7	5
77	Effect of working environment and procedural strategies on mechanical performance of bioresorbable vascular scaffolds. Acta Biomaterialia, 2018, 82, 34-43.	4.1	26
78	B'reshith. Journal of Controlled Release, 2018, 285, 252-257.	4.8	0
79	Multilayer flow modulator enhances vital organ perfusion in patients with type B aortic dissection. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1182-H1193.	1.5	16
80	Grapheneâ€“Dendrimer Nanostars for Targeted Macrophage Overexpression of Metalloproteinase 9 and Hepatic Fibrosis Precision Therapy. Nano Letters, 2018, 18, 5839-5845.	4.5	40
81	Chondroitin Sulphate Attenuates Atherosclerosis in ApoE Knockout Mice Involving Cellular Regulation of the Inflammatory Response. Thrombosis and Haemostasis, 2018, 118, 1329-1339.	1.8	31
82	Sex differences in the outcomes of stent implantation in mini-swine model. PLoS ONE, 2018, 13, e0192004.	1.1	9
83	Polymeric endovascular strut and lumen detection algorithm for intracoronary optical coherence tomography images. Journal of Biomedical Optics, 2018, 23, 1.	1.4	17
84	Implantation of healthy matrix-embedded endothelial cells rescues dysfunctional endothelium and ischaemic tissue in liver engraftment. Gut, 2017, 66, 1297-1305.	6.1	10
85	Hydrogel Nanocomposites with Independently Tunable Rheology and Mechanics. ACS Nano, 2017, 11, 2598-2610.	7.3	69
86	Biocompatibility, bone healing, and safety evaluation in rabbits with an IlluminOss bone stabilization system. Journal of Orthopaedic Research, 2017, 35, 2181-2190.	1.2	9
87	Stents: Biomechanics, Biomaterials, and Insights from Computational Modeling. Annals of Biomedical Engineering, 2017, 45, 853-872.	1.3	53
88	First-Generation Bioresorbable VascularÂScaffolds. Journal of the American College of Cardiology, 2017, 69, 3067-3069.	1.2	9
89	Engagement of the medical-technology sector with society. Science Translational Medicine, 2017, 9, .	5.8	3
90	Application of arterial hemodynamics to clinical practice: A testament to medical science in London. Artery Research, 2017, 18, 81.	0.3	4

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91	Estimating the internal elastic membrane cross-sectional area of coronary arteries autonomously using optical coherence tomography images. , 2017, , .		5
92	From Nonclinical Research to Clinical Trials and Patient-registries: Challenges and Opportunities in Biomedical Research. Revista Espanola De Cardiologia (English Ed), 2017, 70, 1121-1133.	0.4	10
93	Calcified plaque modification alters local drug delivery in the treatment of peripheral atherosclerosis. Journal of Controlled Release, 2017, 264, 203-210.	4.8	87
94	Randomized Comparison of Ridaforolimus- and Zotarolimus-Eluting Coronary Stents in Patients With Coronary Artery Disease. Circulation, 2017, 136, 1304-1314.	1.6	43
95	Needles in Our Technology Haystacks. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	2
96	Targeting STUB1â€“tissue factor axis normalizes hyperthrombotic uremic phenotype without increasing bleeding risk. Science Translational Medicine, 2017, 9, .	5.8	38
97	Pulsatility and high shear stress deteriorate barrier phenotype in brain microvascular endothelium. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2614-2625.	2.4	85
98	Matrixâ€Embedded Cells: Matrixâ€Embedded Endothelial Cells Attain a Progenitorâ€Like Phenotype (Adv.) Tj ETQq0 0 0 rgBT /Overlock	3.0	0
99	In Silico Assessment of the effects of Material on Stent Deployment. , 2017, 2017, 462-467.		3
100	Automated Segmentation of Bioresorbable Vascular Scaffold Struts in Intracoronary Optical Coherence Tomography Images. , 2017, 2017, 297-302.		3
101	Matrixâ€Embedded Endothelial Cells Attain a Progenitorâ€Like Phenotype. Advanced Biology, 2017, 1, 1700057.	3.0	4
102	Ultra-hydrophilic stent platforms promote early vascular healing and minimise late tissue response: a potential alternative to second-generation drug-eluting stents. EuroIntervention, 2017, 12, 2148-2156.	1.4	5
103	Evaluation of an intramedullary bone stabilization system using a lightâ€curable monomer in sheep. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 291-299.	1.6	14
104	A tunable delivery platform to provide local chemotherapy for pancreatic ductal adenocarcinoma. Biomaterials, 2016, 93, 71-82.	5.7	35
105	Atherosclerotic plaque behind the stent changes after bare-metal and drug-eluting stent implantation in humans: Implications for late stent failure?. Atherosclerosis, 2016, 252, 9-14.	0.4	10
106	Effects of Low Endothelial Shear Stress After Stent Implantation on Subsequent Neointimal Hyperplasia and Clinical Outcomes in Humans. Journal of the American Heart Association, 2016, 5, .	1.6	14
107	Elimination of Transcoarctation Pressure Gradients Has No Impact on Left Ventricular Function or Aortic Shear Stress After Intervention in Patients With Mild Coarctation. JACC: Cardiovascular Interventions, 2016, 9, 1953-1965.	1.1	31
108	Arterial Remodeling and Endothelial Shear Stress Exhibit Significant Longitudinal Heterogeneity Along the Length of Coronary Plaques. JACC: Cardiovascular Imaging, 2016, 9, 1007-1009.	2.3	15

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109	Anatomical and procedural determinants of catheter-based renal denervation. Cardiovascular Revascularization Medicine, 2016, 17, 474-479.	0.3	13
110	Drug deposition in coronary arteries with overlapping drug-eluting stents. Journal of Controlled Release, 2016, 238, 1-9.	4.8	27
111	Vascular Response to Experimental Stent Malapposition and Under-Expansion. Annals of Biomedical Engineering, 2016, 44, 2251-2260.	1.3	11
112	The Aryl Hydrocarbon Receptor is a Critical Regulator of Tissue Factor Stability and an Antithrombotic Target in Uremia. Journal of the American Society of Nephrology: JASN, 2016, 27, 189-201.	3.0	88
113	Coronary Artery Disease and Diabetes Mellitus. Heart Failure Clinics, 2016, 12, 117-133.	1.0	16
114	Comparison of the Absorbable Polymer Sirolimus-Eluting Stent (MiStent) to the Durable Polymer Everolimus-Eluting Stent (Xience) (from the DESSOLVE I/II and ISAR-TEST-4 Studies). American Journal of Cardiology, 2016, 117, 532-538.	0.7	17
115	Structural Mechanics Predictions Relating to Clinical Coronary Stent Fracture in a 5ÂYear Period in FDA MAUDE Database. Annals of Biomedical Engineering, 2016, 44, 391-403.	1.3	33
116	Arterial Stiffening in Perspective: Advances in Physical and Physiological Science Over Centuries:. American Journal of Hypertension, 2016, 29, 785-791.	1.0	14
117	Treatment with chondroitin sulfate to modulate inflammation and atherogenesis in obesity. Atherosclerosis, 2016, 245, 82-87.	0.4	41
118	Sustained Efficacy and Arterial Drug Retention by a Fast Drug Eluting Cross-Linked Fatty Acid Coronary Stent Coating. Annals of Biomedical Engineering, 2016, 44, 276-286.	1.3	14
119	Tracking of Drug Release and Material Fate for Naturally Derived Omega-3 Fatty Acid Biomaterials. Annals of Biomedical Engineering, 2016, 44, 782-792.	1.3	1
120	Constraining OCT with Knowledge of Device Design Enables High Accuracy Hemodynamic Assessment of Endovascular Implants. PLoS ONE, 2016, 11, e0149178.	1.1	16
121	Particulates from hydrophilic-coated guiding sheaths embolise to the brain. EuroIntervention, 2016, 11, 1435-1441.	1.4	16
122	The role of aortic compliance in determination of coarctation severity: Lumped parameter modeling, in vitro study and clinical evaluation. Journal of Biomechanics, 2015, 48, 4229-4237.	0.9	26
123	Dual Targeted Immunotherapy via In Vivo Delivery of Biohybrid RNAiâ€Peptide Nanoparticles to Tumorâ€Associated Macrophages and Cancer Cells. Advanced Functional Materials, 2015, 25, 4183-4194.	7.8	196
124	The Impact of Blood Rheology on Drug Transport in Stented Arteries: Steady Simulations. PLoS ONE, 2015, 10, e0128178.	1.1	24
125	Paracrine Regulation from Tissue Engineered Constructs. , 2015, , 169-184.		1
126	Intravascular fibrin molecular imaging improves the detection of unhealed stents assessed by optical coherence tomographyin vivo. European Heart Journal, 2015, 38, ehv677.	1.0	45

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127	Physical nanoscale conduit-mediated communication between tumour cells and the endothelium modulates endothelial phenotype. Nature Communications, 2015, 6, 8671.	5.8	65
128	Efficacy of a Device to Narrow the Coronary Sinus in Refractory Angina. New England Journal of Medicine, 2015, 372, 519-527.	13.9	205
129	How Do We Prevent the Vulnerable Atherosclerotic Plaque From Rupturing? Insights From In Vivo Assessments of Plaque, Vascular Remodeling, and Local Endothelial Shear Stress. Journal of Cardiovascular Pharmacology and Therapeutics, 2015, 20, 261-275.	1.0	32
130	Dabigatran and Rivaroxaban Use in Atrial Fibrillation Patients on Hemodialysis. Circulation, 2015, 131, 972-979.	1.6	271
131	William Heberden and reverse translation. Science Translational Medicine, 2015, 7, 287fs20.	5.8	3
132	Monocyte-endothelial cell interactions in the regulation of vascular sprouting and liver regeneration in mouse. Journal of Hepatology, 2015, 63, 917-925.	1.8	66
133	Arterial microanatomy determines the success of energy-based renal denervation in controlling hypertension. Science Translational Medicine, 2015, 7, 285ra65.	5.8	57
134	miRNAs in atherosclerotic plaque initiation, progression, and rupture. Trends in Molecular Medicine, 2015, 21, 307-318.	3.5	134
135	The c-Cbl Ubiquitin Ligase Regulates Nuclear Î²-Catenin and Angiogenesis by Its Tyrosine Phosphorylation Mediated through the Wnt Signaling Pathway. Journal of Biological Chemistry, 2015, 290, 12537-12546.	1.6	37
136	Enhancing physiologic simulations using supervised learning on coarse mesh solutions. Journal of the Royal Society Interface, 2015, 12, 20141073.	1.5	16
137	Regulation of dendrimer/dextran material performance by altered tissue microenvironment in inflammation and neoplasia. Science Translational Medicine, 2015, 7, 272ra11.	5.8	61
138	Vascular Dilation, Tachycardia, and Increased Inotropy Occur Sequentially with Increasing Epinephrine Dose Rate, Plasma and Myocardial Concentrations, and cAMP. Heart Lung and Circulation, 2015, 24, 912-918.	0.2	12
139	In vivo deformation of stented coronary vessel centerline with cardiac motion: Implications for angiography-OCT fusion. , 2015, , .		0
140	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting. JACC: Cardiovascular Interventions, 2015, 8, 1281-1296.	1.1	84
141	Target-responsive DNA/RNA nanomaterials for microRNA sensing and inhibition: The jack-of-all-trades in cancer nanotheranostics?. Advanced Drug Delivery Reviews, 2015, 81, 169-183.	6.6	63
142	Tenuous Tether. New England Journal of Medicine, 2015, 373, 2199-2201.	13.9	5
143	A Novel Algorithm to Quantify Coronary Remodeling Using Inferred Normal Dimensions. Arquivos Brasileiros De Cardiologia, 2015, 105, 390-8.	0.3	0
144	Abstract 18045: Mild Coarctation of the Aorta: To Touch or Not to Touch the Patient? Looking at Left Ventricular Function and Hemodynamics. Circulation, 2015, 132, .	1.6	0

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145	Endothelial Insights: The Florian Dialectic. Science Translational Medicine, 2014, 6, 239fs24.	5.8	0
146	Predicting response to endovascular therapies: Dissecting the roles of local lesion complexity, systemic comorbidity, and clinical uncertainty. Journal of Biomechanics, 2014, 47, 908-921.	0.9	23
147	Intravascular Ultrasound Guidance to Minimize the Use of Iodine Contrast in Percutaneous Coronary Intervention. JACC: Cardiovascular Interventions, 2014, 7, 1287-1293.	1.1	152
148	Methodological Standardization for theÂPre-Clinical Evaluation of RenalÂSympatheticÂDenervation. JACC: Cardiovascular Interventions, 2014, 7, 1184-1193.	1.1	57
149	Myocardial drug distribution generated from local epicardial application: Potential impact of cardiac capillary perfusion in a swine model using epinephrine. Journal of Controlled Release, 2014, 194, 257-265.	4.8	7
150	Catheter-Based Renal Denervation Is NoÂSimple Matter. Journal of the American College of Cardiology, 2014, 64, 644-646.	1.2	68
151	Innervation Patterns May Limit Response to Endovascular Renal Denervation. Journal of the American College of Cardiology, 2014, 64, 1079-1087.	1.2	110
152	Extent of flow recirculation governs expression of atherosclerotic and thrombotic biomarkers in arterial bifurcations. Cardiovascular Research, 2014, 103, 37-46.	1.8	50
153	Transapical Mitral Implantation of the Tiara Bioprosthesis. JACC: Cardiovascular Interventions, 2014, 7, 154-162.	1.1	39
154	Use of Pressure-volume Conductance Catheters in Real-time Cardiovascular Experimentation. Heart Lung and Circulation, 2014, 23, 1059-1069.	0.2	10
155	Coronary Artery Disease and Diabetes Mellitus. Cardiology Clinics, 2014, 32, 439-455.	0.9	135
156	Modifications of Microvascular EC Surface Modulate Phototoxicity of a Porphycene anti-ICAM-1 Immunoconjugate; Therapeutic Implications. Langmuir, 2013, 29, 9734-9743.	1.6	15
157	Synergistic effect of local endothelial shear stress and systemic hypercholesterolemia on coronary atherosclerotic plaque progression and composition in pigs. International Journal of Cardiology, 2013, 169, 394-401.	0.8	29
158	Impact of flow pulsatility on arterial drug distribution in stent-based therapy. Journal of Controlled Release, 2013, 168, 115-124.	4.8	44
159	High concentrations of drug in target tissues following local controlled release are utilized for both drug distribution and biologic effect: An example with epicardial inotropic drug delivery. Journal of Controlled Release, 2013, 171, 201-207.	4.8	17
160	Targeted anti-inflammatory systemic therapy for restenosis: The Biorest Liposomal Alendronate with Stenting sTudy (BLAST)â€”a double blind, randomized clinical trial. American Heart Journal, 2013, 165, 234-240.e1.	1.2	25
161	Dysfunctional endothelial cells directly stimulate cancer inflammation and metastasis. International Journal of Cancer, 2013, 133, 1334-1344.	2.3	94
162	The effect of substrate modulus on the growth and function of matrix-embedded endothelial cells. Biomaterials, 2013, 34, 677-684.	5.7	52

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163	Convective and Diffusive Transport in Drug Delivery. , 2013, , 573-606.		1
164	Cell matrix contact modifies endothelial major histocompatibility complex class II expression in high-glucose environment. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1592-H1599.	1.5	2
165	Mechanisms of Tissue Uptake and Retention in Zotarolimus-Coated Balloon Therapy. Circulation, 2013, 127, 2047-2055.	1.6	65
166	Uremic Serum and Solutes Increase Postâ€“Vascular Interventional Thrombotic Risk Through Altered Stability of Smooth Muscle Cell Tissue Factor. Circulation, 2013, 127, 365-376.	1.6	113
167	Aldehydeï£¿Amine Chemistry Enables Tissue Adhesive Materials to Respond to Physiologic Variation and Pathologic States. Israel Journal of Chemistry, 2013, 53, n/a-n/a.	1.0	1
168	Thin-Capped Atheromata With Reduced Collagen Content in Pigs Develop in Coronary Arterial Regions Exposed to Persistently Low Endothelial Shear Stress. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1494-1504.	1.1	81
169	Importance of Receptor-targeted Systems in the Battle Against Atherosclerosis. Current Pharmaceutical Design, 2013, 19, 5897-5903.	0.9	5
170	Endothelium exposed to atheroprone flow promotes monocyte transmigration and specification. FASEB Journal, 2013, 27, 379.4.	0.2	0
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