Elazer R Edelman

List of Publications by Year in Descending Order

329 papers	17,340 citations	69 h-index	122 g-index
352 ext. papers	19,362 ext. citations	9.1 avg, IF	6.63 L-index

#	Paper	IF	Citations
329	Remote Speech Analysis in the Evaluation of Hospitalized Patients With Acute Decompensated Heart Failure.. *JACC: Heart Failure*, **2022**, 10, 41-49	7.9	3
328	Morphometric analysis of the human common hepatic artery reveals a rich and accessible target for sympathetic liver denervation.. *Scientific Reports*, **2022**, 12, 1413	4.9	
327	Impact and implications of mixed plaque class in automated characterization of complex atherosclerotic lesions.. *Computerized Medical Imaging and Graphics*, **2022**, 97, 102051	7.6	1
326	Accelerated neutral atom beam (ANAB) modified polyethylene for decreased wear and reduced bacteria colonization: An in vitro study.. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2022** , 102540	6	0
325	An inverse method for mechanical characterization of heterogeneous diseased arteries using intravascular imaging. *Scientific Reports*, **2021**, 11, 22540	4.9	2
324	Effect of anatomical variation on extracorporeal membrane oxygenation circulatory support: A computational study.. *Computers in Biology and Medicine*, **2021**, 141, 105178	7	1
323	Acute Stent-Induced Endothelial Denudation: Biomechanical Predictors of Vascular Injury. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 733605	5.4	0
322	A Computational Fluid Dynamics Study of the Extracorporeal Membrane Oxygenation-Failing Heart Circulation. *ASAIO Journal*, **2021**, 67, 276-283	3.6	5
321	Novel Lesional Transcriptional Signature Separates Atherosclerosis With and Without Diabetes in Yorkshire Swine and Humans. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 1487-1503	9.4	1
320	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	6.9	5
319	Orphan nuclear receptor COUP-TFII enhances myofibroblast glycolysis leading to kidney fibrosis. *EMBO Reports*, **2021**, 22, e51169	6.5	3
318	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	3.7	4
317	Understanding TAVR device expansion as it relates to morphology of the bicuspid aortic valve: A simulation study. *PLoS ONE*, **2021**, 16, e0251579	3.7	3
316	Vascular Lesion-Specific Drug Delivery Systems: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2021**, 77, 2413-2431	15.1	4
315	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	2.3	1
314	Three dimensional reconstruction of coronary artery stents from optical coherence tomography: experimental validation and clinical feasibility. *Scientific Reports*, **2021**, 11, 12252	4.9	2
313	Simulation of Fluid-Structure Interaction in Extracorporeal Membrane Oxygenation Circulatory Support Systems. *Journal of Cardiovascular Translational Research*, **2021**, 1	3.3	1

312	Artificial intelligence to generate medical images: augmenting the cardiologist visual clinical workflow. *European Heart Journal Digital Health*, **2021**, 2, 539-544	2.3	0
311	Improving Automated Tissue Characterization in Optical Coherence Tomography by Melding Attenuation Compensation with Deep Learning **2021**,		1
310	A Scalable Approach to Determine Intracardiac Pressure From Mechanical Circulatory Support Device Signals. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 905-913	5	1
309	Nickel-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	4.1	5
308	Multimodal Loading Environment Predicts Bioresorbable Vascular Scaffolds' Durability. *Annals of Biomedical Engineering*, **2021**, 49, 1298-1307	4.7	2
307	Non-invasive estimation of relative pressure for intracardiac flows using virtual work-energy. *Medical Image Analysis*, **2021**, 68, 101948	15.4	6
306	Endovascular drug-delivery and drug-elution systems **2021**, 595-631		3
305	1 25-Dihydroxyvitamin D Encapsulated in Nanoparticles Prevents Venous Neointimal Hyperplasia and Stenosis in Porcine Arteriovenous Fistulas. *Journal of the American Society of Nephrology: JASN*, **2021**,	12.7	5
304	In Vitro Validation of a Novel Image-Based Inverse Method for Mechanical Characterization of Vessels **2021**,		1
303	Noninvasive quantification of cerebrovascular pressure changes using 4D Flow MRI. *Magnetic Resonance in Medicine*, **2021**, 86, 3096-3110	4.4	5
302	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	4.1	3
301	Hysteretic device characteristics indicate cardiac contractile state for guiding mechanical circulatory support device use.. *Intensive Care Medicine Experimental*, **2021**, 9, 62	3.7	
300	Dynamic Modulation of Device-Arterial Coupling to Determine Cardiac Output and Vascular Resistance. *Annals of Biomedical Engineering*, **2020**, 48, 2333-2342	4.7	1
299	Mortality and Paclitaxel-Coated Devices: An Individual Patient Data Meta-Analysis. *Circulation*, **2020** , 141, 1859-1869	16.7	66
298	Tenofovir prodrugs potently inhibit Epstein-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	11.5	7
297	Impact of concomitant vasoactive treatment and mechanical left ventricular unloading in a porcine model of profound cardiogenic shock. *Critical Care*, **2020**, 24, 95	10.8	9
296	Mixed Valvular Disease Following Transcatheter Aortic Valve Replacement: Quantification and Systematic Differentiation Using Clinical Measurements and Image-Based Patient-Specific In Silico Modeling. *Journal of the American Heart Association*, **2020**, 9, e015063	6	14
295	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	7.5	8

294	A geometrically adaptable heart valve replacement. *Science Translational Medicine*, **2020**, 12,	17.5	18
293	: Intravascular Devices with a Higher Risk of Polymer Emboli: The Need for Particulate Generation Testing. *Biomedical Instrumentation and Technology*, **2020**, 54, 37-43	0.4	0
292	Balloon-based drug coating delivery to the artery wall is dictated by coating micro-morphology and angioplasty pressure gradients. *Biomaterials*, **2020**, 260, 120337	15.6	6
291	Randomized trials of invasive cardiovascular interventions that include a placebo control: a systematic review and meta-analysis. *European Heart Journal*, **2020**, 41, 2556-2569	9.5	7
290	Paclitaxel Drug-Coated Balloon Angioplasty Suppresses Progression and Inflammation of Experimental Atherosclerosis in Rabbits. *JACC Basic To Translational Science*, **2020**, 5, 685-695	8.7	7
289	Case 30-2020: A 54-Year-Old Man with Sudden Cardiac Arrest. *New England Journal of Medicine*, **2020**, 383, 1263-1275	59.2	10
288	Ventricular stroke work and vascular impedance refine the characterization of patients with aortic stenosis. *Science Translational Medicine*, **2019**, 11,	17.5	14
287	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	9.5	70
286	Hemodynamic consequences of a multilayer flow modulator in aortic dissection. *Medical and Biological Engineering and Computing*, **2019**, 57, 1861-1874	3.1	5
285	Single-Cell Analysis of the Normal Mouse Aorta Reveals Functionally Distinct Endothelial Cell Populations. *Circulation*, **2019**, 140, 147-163	16.7	104
284	Leveraging Device-Arterial Coupling to Determine Cardiac and Vascular State. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 2800-2808	5	4
283	In vivo and in vitro evaluation of a biodegradable magnesium vascular stent designed by shape optimization strategy. *Biomaterials*, **2019**, 221, 119414	15.6	39
282	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	11.7	19
281	Procedural and Anatomical Determinants of Multielectrode Renal Denervation Efficacy. *Hypertension*, **2019**, 74, 546-554	8.5	15
280	Osterix-mCherry Expression Allows for Early Bone Detection in a Calvarial Defect Model. *Advanced Biology*, **2019**, 3, e1900184	3.5	1
279	A deep learning approach to classify atherosclerosis using intracoronary optical coherence tomography **2019**,		11
278	Assessment of the Angiogenic Potential of 2-Deoxy-D-Ribose Using a Novel 3D Dynamic Model in Comparison With Established Assays. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 451	5.8	13
277	Twenty-Four-Hour Ex Vivo Perfusion with Acellular Solution Enables Successful Replantation of Porcine Forelimbs. *Plastic and Reconstructive Surgery*, **2019**, 144, 608e-618e	2.7	6

276	Subendothelial matrix components influence endothelial cell apoptosis in vitro. *American Journal of Physiology - Cell Physiology*, **2019**, 316, C210-C222	5.4	4
275	Position Paper Computational Cardiology. *IEEE Journal of Biomedical and Health Informatics*, **2019**, 23, 4-11	7.2	10
274	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	11.7	14
273	Fracture in drug-eluting stents increases focal intimal hyperplasia in the atherosclerosed rabbit iliac artery. *Catheterization and Cardiovascular Interventions*, **2019**, 93, 278-285	2.7	5
272	Anatomical and procedural determinants of ambulatory blood pressure lowering following catheter-based renal denervation using radiofrequency. *Cardiovascular Revascularization Medicine*, **2018**, 19, 845-851	1.6	8
271	Could antiretrovirals be treating EBV in MS? A case report. *Multiple Sclerosis and Related Disorders*, **2018**, 22, 19-21	4	13
270	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	11.5	31
269	Mechanical circulatory support device-heart hysteretic interaction can predict left ventricular end diastolic pressure. *Science Translational Medicine*, **2018**, 10,	17.5	8
268	Vascular Tissue Engineering: Progress, Challenges, and Clinical Promise. *Cell Stem Cell*, **2018**, 22, 340-354	18	185
267	Quantification of thrombus formation in malapposed coronary stents deployed in vitro through imaging analysis. *Journal of Biomechanics*, **2018**, 71, 296-301	2.9	5
266	Optimized Computer-Aided Segmentation and Three-Dimensional Reconstruction Using Intracoronary Optical Coherence Tomography. *IEEE Journal of Biomedical and Health Informatics*, **2018**, 22, 1168-1176	7.2	16
265	Rapamycin activates TGF receptor independently of its ligand: implications for endothelial dysfunction. *Clinical Science*, **2018**, 132, 437-447	6.5	9
264	Defining drug and target protein distributions after stent-based drug release: Durable versus deployable coatings. *Journal of Controlled Release*, **2018**, 274, 102-108	11.7	9
263	Topographic Pattern of Valve Calcification: A New Determinant of Disease Severity in Aortic Valve Stenosis. *JACC: Cardiovascular Imaging*, **2018**, 11, 1032-1035	8.4	1
262	Optimizing Glutaraldehyde-Fixed Tissue Heart Valves with Chondroitin Sulfate Hydrogel for Endothelialization and Shielding against Deterioration. *Biomacromolecules*, **2018**, 19, 1234-1244	6.9	36
261	B'reshith. *Journal of Controlled Release*, **2018**, 285, 252-257	11.7	
260	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	5.2	12
259	Graphene-Dendrimer Nanostars for Targeted Macrophage Overexpression of Metalloproteinase 9 and Hepatic Fibrosis Precision Therapy. *Nano Letters*, **2018**, 18, 5839-5845	11.5	20

258	Chondroitin Sulphate Attenuates Atherosclerosis in ApoE Knockout Mice Involving Cellular Regulation of the Inflammatory Response. *Thrombosis and Haemostasis*, **2018**, 118, 1329-1339	7	16
257	Sex differences in the outcomes of stent implantation in mini-swine model. *PLoS ONE*, **2018**, 13, e0192034	3.7	7
256	Polymeric endovascular strut and lumen detection algorithm for intracoronary optical coherence tomography images. *Journal of Biomedical Optics*, **2018**, 23, 1-14	3.5	14
255	3D matrix-embedding inhibits cycloheximide-mediated sensitization to TNF-alpha-induced apoptosis of human endothelial cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1085-1096	4.4	2
254	Vessel centerline reconstruction from non-isocentric and non-orthogonal paired monoplane angiographic images. *International Journal of Cardiovascular Imaging*, **2018**, 34, 673-682	2.5	3
253	Effect of working environment and procedural strategies on mechanical performance of bioresorbable vascular scaffolds. *Acta Biomaterialia*, **2018**, 82, 34-43	10.8	14
252	Implantation of healthy matrix-embedded endothelial cells rescues dysfunctional endothelium and ischaemic tissue in liver engraftment. *Gut*, **2017**, 66, 1297-1305	19.2	4
251	Hydrogel Nanocomposites with Independently Tunable Rheology and Mechanics. *ACS Nano*, **2017**, 11, 2598-2610	16.7	46
250	Biocompatibility, bone healing, and safety evaluation in rabbits with an IlluminOss bone stabilization system. *Journal of Orthopaedic Research*, **2017**, 35, 2181-2190	3.8	7
249	Stents: Biomechanics, Biomaterials, and Insights from Computational Modeling. *Annals of Biomedical Engineering*, **2017**, 45, 853-872	4.7	40
248	Engagement of the medical-technology sector with society. *Science Translational Medicine*, **2017**, 9,	17.5	3
247	Application of Arterial Hemodynamics to Clinical Practice: A Testament to Medical Science in London. *Artery Research*, **2017**, 18, 81-86	2.2	2
246	Estimating the internal elastic membrane cross-sectional area of coronary arteries autonomously using optical coherence tomography images **2017**,		4
245	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	0.7	5
244	Calcified plaque modification alters local drug delivery in the treatment of peripheral atherosclerosis. *Journal of Controlled Release*, **2017**, 264, 203-210	11.7	52
243	Randomized Comparison of Ridaforolimus- and Zotarolimus-Eluting Coronary Stents in Patients With Coronary Artery Disease: Primary Results From the BIONICS Trial (BioNIR Ridaforolimus-Eluting Coronary Stent System in Coronary Stenosis). *Circulation*, **2017**, 136, 1304-1314	16.7	32
242	Targeting STUB1-tissue factor axis normalizes hyperthrombotic uremic phenotype without increasing bleeding risk. *Science Translational Medicine*, **2017**, 9,	17.5	31
241	De la investigaci□ no cl□ica a los ensayos y registros cl□icos: retos y oportunidades en la investigaci□ biom□ica. *Revista Espanola De Cardiologia*, **2017**, 70, 1121-1133	1.5	14

240	Pulsatility and high shear stress deteriorate barrier phenotype in brain microvascular endothelium. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 2614-2625	7.3	49
239	assessment of the effects of material on stent deployment. *Proceedings-- IEEE International Symposium on Bioinformatics and Bioengineering*, **2017**, 2017, 462-467	1	3
238	Automated Segmentation of Bioresorbable Vascular Scaffold Struts in Intracoronary Optical Coherence Tomography Images. *International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering*, **2017**, 2017, 297-302		1
237	Intravascular fibrin molecular imaging improves the detection of unhealed stents assessed by optical coherence tomography in vivo. *European Heart Journal*, **2017**, 38, 447-455	9.5	37
236	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	3.1	2
235	Matrix-Embedded Endothelial Cells Attain a Progenitor-Like Phenotype. *Advanced Biology*, **2017**, 1, 1700057	3.7	3
234	Arterial Remodeling and Endothelial Shear Stress Exhibit Significant Longitudinal Heterogeneity Along the Length of Coronary Plaques. *JACC: Cardiovascular Imaging*, **2016**, 9, 1007-9	8.4	7
233	Anatomical and procedural determinants of catheter-based renal denervation. *Cardiovascular Revascularization Medicine*, **2016**, 17, 474-479	1.6	12
232	Drug deposition in coronary arteries with overlapping drug-eluting stents. *Journal of Controlled Release*, **2016**, 238, 1-9	11.7	22
231	Vascular Response to Experimental Stent Malapposition and Under-Expansion. *Annals of Biomedical Engineering*, **2016**, 44, 2251-60	4.7	11
230	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	12.7	75
229	Coronary Artery Disease and Diabetes Mellitus. *Heart Failure Clinics*, **2016**, 12, 117-33	3.3	12
228	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	3	14
227	Structural Mechanics Predictions Relating to Clinical Coronary Stent Fracture in a 5 Year Period in FDA MAUDE Database. *Annals of Biomedical Engineering*, **2016**, 44, 391-403	4.7	26
226	Arterial Stiffening in Perspective: Advances in Physical and Physiological Science Over Centuries. *American Journal of Hypertension*, **2016**, 29, 785-91	2.3	11
225	Treatment with chondroitin sulfate to modulate inflammation and atherogenesis in obesity. *Atherosclerosis*, **2016**, 245, 82-7	3.1	34
224	Sustained Efficacy and Arterial Drug Retention by a Fast Drug Eluting Cross-Linked Fatty Acid Coronary Stent Coating. *Annals of Biomedical Engineering*, **2016**, 44, 276-86	4.7	12
223	Tracking of Drug Release and Material Fate for Naturally Derived Omega-3 Fatty Acid Biomaterials. *Annals of Biomedical Engineering*, **2016**, 44, 782-92	4.7	0

222	Constraining OCT with Knowledge of Device Design Enables High Accuracy Hemodynamic Assessment of Endovascular Implants. *PLoS ONE*, **2016**, 11, e0149178	3.7	13
221	Particulates from hydrophilic-coated guiding sheaths embolise to the brain. *EuroIntervention*, **2016**, 11, 1435-41	3.1	12
220	Evaluation of an intramedullary bone stabilization system using a light-curable monomer in sheep. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 291-9	3.5	8
219	A tunable delivery platform to provide local chemotherapy for pancreatic ductal adenocarcinoma. *Biomaterials*, **2016**, 93, 71-82	15.6	27
218	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	3.1	7
217	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,	6	13
216	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, 1953-65	5	20
215	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, 261-75	2.6	22
214	Dabigatran and rivaroxaban use in atrial fibrillation patients on hemodialysis. *Circulation*, **2015**, 131, 972-9	16.7	204
213	William Heberden and reverse translation. *Science Translational Medicine*, **2015**, 7, 287fs20	17.5	2
212	Monocyte-endothelial cell interactions in the regulation of vascular sprouting and liver regeneration in mouse. *Journal of Hepatology*, **2015**, 63, 917-25	13.4	52
211	Arterial microanatomy determines the success of energy-based renal denervation in controlling hypertension. *Science Translational Medicine*, **2015**, 7, 285ra65	17.5	46
210	miRNAs in atherosclerotic plaque initiation, progression, and rupture. *Trends in Molecular Medicine*, **2015**, 21, 307-18	11.5	107
209	The c-Cbl ubiquitin ligase regulates nuclear β-catenin and angiogenesis by its tyrosine phosphorylation mediated through the Wnt signaling pathway. *Journal of Biological Chemistry*, **2015**, 290, 12537-46	5.4	28
208	Enhancing physiologic simulations using supervised learning on coarse mesh solutions. *Journal of the Royal Society Interface*, **2015**, 12, 20141073	4.1	13
207	Regulation of dendrimer/dextran material performance by altered tissue microenvironment in inflammation and neoplasia. *Science Translational Medicine*, **2015**, 7, 272ra11	17.5	49
206	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, 912-8	1.8	12
205	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting: Expert Review Document on Techniques and Clinical Implementation. *JACC: Cardiovascular Interventions*, **2015**, 8, 1281-1296	5	65

204	Target-responsive DNA/RNA nanomaterials for microRNA sensing and inhibition: the jack-of-all-trades in cancer nanotheranostics?. *Advanced Drug Delivery Reviews*, **2015**, 81, 169-83	18.5	58
203	The role of aortic compliance in determination of coarctation severity: Lumped parameter modeling, in vitro study and clinical evaluation. *Journal of Biomechanics*, **2015**, 48, 4229-37	2.9	17
202	Dual targeted immunotherapy via delivery of biohybrid RNAi-peptide nanoparticles to tumour-associated macrophages and cancer cells. *Advanced Functional Materials*, **2015**, 25, 4183-4194	15.6	153
201	The Impact of Blood Rheology on Drug Transport in Stented Arteries: Steady Simulations. *PLoS ONE* , **2015**, 10, e0128178	3.7	15
200	Paracrine Regulation from Tissue Engineered Constructs **2015**, 169-184		
199	Physical nanoscale conduit-mediated communication between tumour cells and the endothelium modulates endothelial phenotype. *Nature Communications*, **2015**, 6, 8671	17.4	47
198	Efficacy of a device to narrow the coronary sinus in refractory angina. *New England Journal of Medicine*, **2015**, 372, 519-27	59.2	138
197	Tenuous Tether. *New England Journal of Medicine*, **2015**, 373, 2199-201	59.2	4
196	A Novel Algorithm to Quantify Coronary Remodeling Using Inferred Normal Dimensions. *Arquivos Brasileiros De Cardiologia*, **2015**, 105, 390-8	1.2	
195	Predicting response to endovascular therapies: dissecting the roles of local lesion complexity, systemic comorbidity, and clinical uncertainty. *Journal of Biomechanics*, **2014**, 47, 908-21	2.9	23
194	Intravascular ultrasound guidance to minimize the use of iodine contrast in percutaneous coronary intervention: the MOZART (Minimizing cOntrast utiliZation With IVUS Guidance in coRonary angioplasTy) randomized controlled trial. *JACC: Cardiovascular Interventions*, **2014**, 7, 1287-93	5	99
193	Methodological standardization for the pre-clinical evaluation of renal sympathetic denervation. *JACC: Cardiovascular Interventions*, **2014**, 7, 1184-93	5	46
192	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, 257-65	11.7	6
191	Innervation patterns may limit response to endovascular renal denervation. *Journal of the American College of Cardiology*, **2014**, 64, 1079-87	15.1	91
190	Extent of flow recirculation governs expression of atherosclerotic and thrombotic biomarkers in arterial bifurcations. *Cardiovascular Research*, **2014**, 103, 37-46	9.9	40
189	Transapical mitral implantation of the Tiara bioprosthesis: pre-clinical results. *JACC: Cardiovascular Interventions*, **2014**, 7, 154-162	5	35
188	Use of pressure-volume conductance catheters in real-time cardiovascular experimentation. *Heart Lung and Circulation*, **2014**, 23, 1059-69	1.8	6
187	Coronary artery disease and diabetes mellitus. *Cardiology Clinics*, **2014**, 32, 439-55	2.5	92

186	Endothelial insights: the Florian dialectic. *Science Translational Medicine*, **2014**, 6, 239fs24	17.5	
185	Modifications of microvascular EC surface modulate phototoxicity of a porphycene anti-ICAM-1 immunoconjugate; therapeutic implications. *Langmuir*, **2013**, 29, 9734-43	4	10
184	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	3.2	28
183	Impact of flow pulsatility on arterial drug distribution in stent-based therapy. *Journal of Controlled Release*, **2013**, 168, 115-24	11.7	38
182	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, 201-7	11.7	16
181	Targeted anti-inflammatory systemic therapy for restenosis: the Biorest Liposomal Alendronate with Stenting sTudy (BLAST)-a double blind, randomized clinical trial. *American Heart Journal*, **2013**, 165, 234-40.e1	4.9	21
180	Dysfunctional endothelial cells directly stimulate cancer inflammation and metastasis. *International Journal of Cancer*, **2013**, 133, 1334-44	7.5	72
179	The effect of substrate modulus on the growth and function of matrix-embedded endothelial cells. *Biomaterials*, **2013**, 34, 677-84	15.6	46
178	Convective and Diffusive Transport in Drug Delivery **2013**, 573-606		1
177	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, H1592-9	5.2	2
176	Mechanisms of tissue uptake and retention in zotarolimus-coated balloon therapy. *Circulation*, **2013**, 127, 2047-55	16.7	53
175	Uremic serum and solutes increase post-vascular interventional thrombotic risk through altered stability of smooth muscle cell tissue factor. *Circulation*, **2013**, 127, 365-76	16.7	96
174	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, 1494-504	9.4	67
173	Importance of receptor-targeted systems in the battle against atherosclerosis. *Current Pharmaceutical Design*, **2013**, 19, 5897-903	3.3	4
172	Endothelium exposed to atheroprone flow promotes monocyte transmigration and specification. *FASEB Journal*, **2013**, 27, 379.4	0.9	
171	Engineered arterial models to correlate blood flow to tissue biological response. *Annals of the New York Academy of Sciences*, **2012**, 1254, 51-6	6.5	5
170	Stent elution rate determines drug deposition and receptor-mediated effects. *Journal of Controlled Release*, **2012**, 161, 918-26	11.7	79
169	Ultrasound-guided percutaneous delivery of tissue-engineered endothelial cells to the adventitia of stented arteries controls the response to vascular injury in a porcine model. *Journal of Vascular Surgery*, **2012**, 56, 1078-88	3.5	8

168	Natural tissue microenvironmental conditions modulate adhesive material performance. *Langmuir*, **2012**, 28, 15402-9	4	27
167	The role of scaffold microarchitecture in engineering endothelial cell immunomodulation. *Biomaterials*, **2012**, 33, 7019-27	15.6	31
166	Role of CABG in the management of obstructive coronary arterial disease in patients with diabetes mellitus. *Current Opinion in Pharmacology*, **2012**, 12, 134-41	5.1	4
165	Heparanase regulates thrombosis in vascular injury and stent-induced flow disturbance. *Journal of the American College of Cardiology*, **2012**, 59, 1551-60	15.1	49
164	Enhanced drug delivery capabilities from stents coated with absorbable polymer and crystalline drug. *Journal of Controlled Release*, **2012**, 162, 561-7	11.7	59
163	Assessment of material by-product fate from bioresorbable vascular scaffolds. *Annals of Biomedical Engineering*, **2012**, 40, 955-65	4.7	17
162	Clinician-investigators as translational bioscientists: shaping a seamless identity. *Science Translational Medicine*, **2012**, 4, 135fs14	17.5	5
161	Syndecan-4 proteoliposomes enhance fibroblast growth factor-2 (FGF-2)-induced proliferation, migration, and neovascularization of ischemic muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 1679-84	11.5	69
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