Jean-Baptiste Michel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Regulation and impact of cardiac lymphangiogenesis in pressure-overload-induced heart failure. Cardiovascular Research, 2023, 119, 492-505.	3.8	10
2	The VWF/LRP4/αVβ3-axis represents a novel pathway regulating proliferation of human vascular smooth muscle cells. Cardiovascular Research, 2022, 118, 622-637.	3.8	22
3	Vascular smooth muscle cell dysfunction: role in arterial stiffening and cardiovascular disease. , 2022, , 341-357.		0
4	Neuroimmune cardiovascular interfaces control atherosclerosis. Nature, 2022, 605, 152-159.	27.8	86
5	Evaluation of Different Turbulent Combustion Models Based on Tabulated Chemistry Using DNS of Heterogeneous Mixtures Under Multi-injection Diesel Engine-Relevant Conditions. Flow, Turbulence and Combustion, 2021, 107, 479-515.	2.6	1
6	Pathogenic variants in THSD4, encoding the ADAMTS-like 6 protein, predispose to inherited thoracic aortic aneurysm. Genetics in Medicine, 2021, 23, 111-122.	2.4	25
7	From organic and inorganic phosphates to valvular and vascular calcifications. Cardiovascular Research, 2021, 117, 2016-2029.	3.8	35
8	Oral microbiota and atherothrombotic carotid plaque vulnerability in periodontitis patients. A crossâ€sectional study. Journal of Periodontal Research, 2021, 56, 339-350.	2.7	13
9	lgG Anti-High Density Lipoprotein Antibodies Are Elevated in Abdominal Aortic Aneurysm and Associated with Lipid Profile and Clinical Features. Journal of Clinical Medicine, 2020, 9, 67.	2.4	12
10	Red Blood Cells and Hemoglobin in Human Atherosclerosis and Related Arterial Diseases. International Journal of Molecular Sciences, 2020, 21, 6756.	4.1	39
11	Innovative application of nested PCR for detection of <i>Porphyromonas gingivalis</i> in human highly calcified atherothrombotic plaques. Journal of Oral Microbiology, 2020, 12, 1742523.	2.7	6
12	Phylogenic Determinants of Cardiovascular Frailty, Focus on Hemodynamics and Arterial Smooth Muscle Cells. Physiological Reviews, 2020, 100, 1779-1837.	28.8	19
13	Persistence of Intraluminal Thrombus Makes Saccular Aneurysm More Biologically Active than Fusiform in an Experimental Rat Model. Journal of Vascular Research, 2020, 57, 164-176.	1.4	6
14	Periodontitis and cardiovascular diseases: Consensus report. Journal of Clinical Periodontology, 2020, 47, 268-288.	4.9	636
15	A major role of TWEAK/Fn14 axis as a therapeutic target for post-angioplasty restenosis. EBioMedicine, 2019, 46, 274-289.	6.1	21
16	Acute ischemic stroke thrombi have an outer shell that impairs fibrinolysis. Neurology, 2019, 93, e1686-e1698.	1.1	84
17	Role of Biomechanical Stress in the Pathology of the Aorta. , 2019, , 163-180.		2
18	APOA1 oxidation is associated to dysfunctional high-density lipoproteins in human abdominal aortic aneurysm. EBioMedicine, 2019, 43, 43-53.	6.1	40

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19	Relationship of Iron Deposition toÂCalcium Deposition in HumanÂAorticÂValve Leaflets. Journal of the American College of Cardiology, 2019, 73, 1043-1054.	2.8	47
20	Neurologic Complications of Infective Endocarditis. Critical Care Medicine, 2019, 47, e685-e692.	0.9	6
21	Can Periodontitis Influence the Progression of Abdominal Aortic Aneurysm? A Systematic Review. Angiology, 2019, 70, 479-491.	1.8	21
22	Thrombus Neutrophil Extracellular Traps Content Impair tPA-Induced Thrombolysis in Acute Ischemic Stroke. Stroke, 2018, 49, 754-757.	2.0	232
23	From genetics to response to injury: vascular smooth muscle cells in aneurysms and dissections of the ascending aorta. Cardiovascular Research, 2018, 114, 578-589.	3.8	114
24	Clearance of plasmin–PN-1 complexes by vascular smooth muscle cells in human aneurysm of the ascending aorta. Cardiovascular Pathology, 2018, 32, 15-25.	1.6	9
25	Amino-Fucoidan as a Vector for rtPA-Induced Fibrinolysis in Experimental Thrombotic Events. Thrombosis and Haemostasis, 2018, 118, 042-053.	3.4	12
26	Roles of PAD4 and NETosis in Experimental Atherosclerosis and Arterial Injury. Circulation Research, 2018, 123, 33-42.	4.5	205
27	Exploring antibody-dependent adaptive immunity against aortic extracellular matrix components in experimental aortic aneurysms. Journal of Vascular Surgery, 2018, 68, 60S-71S.e3.	1.1	18
28	Combustion and soot modelling of a high-pressure and high-temperature Dodecane spray. International Journal of Engine Research, 2018, 19, 434-448.	2.3	19
29	Abdominal aortic aneurysms. Nature Reviews Disease Primers, 2018, 4, 34.	30.5	312
30	Internal Bleeding. JACC Basic To Translational Science, 2018, 3, 481-484.	4.1	11
31	Neutrophils recruited by leukotriene B4 induce features of plaque destabilization during endotoxaemia. Cardiovascular Research, 2018, 114, 1656-1666.	3.8	34
32	Translational Relevance and Recent Advances of Animal Models of Abdominal Aortic Aneurysm. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 401-410.	2.4	130
33	Exacerbation of Thromboinflammation by Hyperglycemia Precipitates Cerebral Infarct Growth and Hemorrhagic Transformation. Stroke, 2017, 48, 1932-1940.	2.0	96
34	Free DNA precipitates calcium phosphate apatite crystals in the arterial wall inÂvivo. Atherosclerosis, 2017, 259, 60-67.	0.8	40
35	Evaluation of different turbulent combustion models based on tabulated chemistry using DNS of heterogeneous mixtures. Combustion Theory and Modelling, 2017, 21, 440-465.	1.9	5
36	Peristrut microhemorrhages: a possible cause of in-stent neoatherosclerosis?. Cardiovascular Pathology, 2017, 26, 30-38.	1.6	11

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37	High-density lipoprotein therapy inhibits Porphyromonas gingivalis-induced abdominal aortic aneurysm progression. Thrombosis and Haemostasis, 2016, 115, 789-799.	3.4	10
38	An Innovative Approach Combining Adaptive Mesh Refinement, the ECFM3Z Turbulent Combustion Model, and the TKI Tabulated Auto-Ignition Model for Diesel Engine CFD Simulations. , 2016, , .		7
39	A Two-Dimensional Tabulated Flamelet Combustion Model for Furnace Applications. Flow, Turbulence and Combustion, 2016, 97, 631-662.	2.6	6
40	Multimodality imaging assessment of the deleterious role of the intraluminal thrombus on the growth of abdominal aortic aneurysm in a rat model. European Radiology, 2016, 26, 2378-2386.	4.5	21
41	Elastase inhibitor AZD9668 treatment prevented progression of experimental abdominal aortic aneurysms. Journal of Vascular Surgery, 2016, 63, 486-492.e1.	1.1	16
42	Control of the T Follicular Helper–Germinal Center B-Cell Axis by CD8 ⁺ Regulatory T Cells Limits Atherosclerosis and Tertiary Lymphoid Organ Development. Circulation, 2015, 131, 560-570.	1.6	130
43	A simplified CMC approach based on tabulated reaction rates applied to a lifted methane–air jet flame. Proceedings of the Combustion Institute, 2015, 35, 1393-1399.	3.9	5
44	Ultrasmall superparamagnetic iron oxide nanoparticles coated with fucoidan for molecular MRI of intraluminal thrombus. Nanomedicine, 2015, 10, 73-87.	3.3	80
45	Sectional soot model coupled to tabulated chemistry for Diesel RANS simulations. Combustion and Flame, 2015, 162, 3081-3099.	5.2	44
46	Thrombi and Neutrophils. Circulation Research, 2015, 116, 1107-1108.	4.5	9
47	Alteplase Reduces Downstream Microvascular Thrombosis and Improves the Benefit of Large Artery Recanalization in Stroke. Stroke, 2015, 46, 3241-3248.	2.0	153
48	Hemoglobin induces monocyte recruitment and CD163-macrophage polarization in abdominal aortic aneurysm. International Journal of Cardiology, 2015, 201, 66-78.	1.7	22
49	(Tissue PET) Vascular metabolic imaging and peripheral plasma biomarkers in the evolution of chronic aortic dissections. European Heart Journal Cardiovascular Imaging, 2015, 16, 626-633.	1.2	33
50	Reply. Journal of Vascular Surgery, 2015, 62, 1386-1387.	1.1	0
51	From tissue iron retention to low systemic haemoglobin levels, new pathophysiological biomarkers of human abdominal aortic aneurysm. Thrombosis and Haemostasis, 2014, 112, 87-95.	3.4	30
52	Periodontal bacteria in human carotid atherothrombosis as a potential trigger for neutrophil activation. Atherosclerosis, 2014, 236, 448-455.	0.8	66
53	A tabulated diffusion flame model applied to diesel engine simulations. International Journal of Engine Research, 2014, 15, 346-369.	2.3	18
54	Labelâ€free proteomic analysis of red blood cell membrane fractions from abdominal aortic aneurysm patients. Proteomics - Clinical Applications, 2014, 8, 626-630.	1.6	11

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55	Large Eddy Simulations of a Small-Scale Flameless Combustor by Means of Diluted Homogeneous Reactors. Flow, Turbulence and Combustion, 2014, 93, 305-347.	2.6	12
56	Pathology of human plaque vulnerability: Mechanisms and consequences of intraplaque haemorrhages. Atherosclerosis, 2014, 234, 311-319.	0.8	135
57	Angiogenesis and remodelling in human thoracic aortic aneurysms. Cardiovascular Research, 2014, 104, 147-159.	3.8	60
58	Deciphering the Stromal and Hematopoietic Cell Network of the Adventitia from Non-Aneurysmal and Aneurysmal Human Aorta. PLoS ONE, 2014, 9, e89983.	2.5	47
59	Autologous mesenchymal stem cell endografting in experimental cerebrovascular aneurysms. Neuroradiology, 2013, 55, 741-749.	2.2	14
60	Impaired high-density lipoprotein anti-oxidant capacity in human abdominal aortic aneurysm. Cardiovascular Research, 2013, 100, 307-315.	3.8	38
61	Regarding "A multilayer stent in the aorta may not seal the aneurysm, thereby leading to rupture― Journal of Vascular Surgery, 2013, 57, 605.	1.1	5
62	Biomechanical factors in the biology of aortic wall and aortic valve diseases. Cardiovascular Research, 2013, 99, 232-241.	3.8	195
63	Proteomic Analysis of Intraluminal Thrombus Highlights Complement Activation in Human Abdominal Aortic Aneurysms. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2013-2020.	2.4	50
64	Modifications of Chromatin Dynamics Control Smad2 Pathway Activation in Aneurysmal Smooth Muscle Cells. Circulation Research, 2013, 113, 881-890.	4.5	38
65	Smad2-Dependent Protease Nexin-1 Overexpression Differentiates Chronic Aneurysms From Acute Dissections of Human Ascending Aorta. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2222-2232.	2.4	32
66	Predominant Role of Host Proteases in Myocardial Damage Associated with Infectious Endocarditis Induced by Enterococcus faecalis in a Rat Model. Infection and Immunity, 2013, 81, 1721-1729.	2.2	20
67	¹⁸ F-FDG Uptake Assessed by PET/CT in Abdominal Aortic Aneurysms Is Associated with Cellular and Molecular Alterations Prefacing Wall Deterioration and Rupture. Journal of Nuclear Medicine, 2013, 54, 1740-1747.	5.0	104
68	New Insights Into Aortic Diseases. Aorta, 2013, 1, 23-39.	0.5	7
69	Evaluation of Different Tabulation Techniques Dedicated to the Prediction of the Combustion and Pollutants Emissions on a Diesel Engine with 3D CFD. , 2013, , .		6
70	In vitro and in vivo evidence for the role of elastase shedding of CD163 in human atherothrombosis. European Heart Journal, 2012, 33, 252-263.	2.2	46
71	From intraplaque haemorrhages to plaque vulnerability. Journal of Cardiovascular Medicine, 2012, 13, 628-634.	1.5	42
72	Increased plasma levels of NGAL, a marker of neutrophil activation, in patients with abdominal aortic aneurysm. Atherosclerosis, 2012, 220, 552-556.	0.8	52

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73	Comparison of 18F-fluoro-deoxy-glucose, 18F-fluoro-methyl-choline, and 18F-DPA714 for positron-emission tomography imaging of leukocyte accumulation in the aortic wall of experimental abdominal aneurysms. Journal of Vascular Surgery, 2012, 56, 765-773.	1.1	27
74	Emerging role of serpinE2/protease nexin-1 in hemostasis and vascular biology. Blood, 2012, 119, 2452-2457.	1.4	88
75	The vascular smooth muscle cell in arterial pathology: a cell that can take on multiple roles. Cardiovascular Research, 2012, 95, 194-204.	3.8	573
76	Erythrocytes, leukocytes and platelets as a source of oxidative stress in chronic vascular diseases: Detoxifying mechanisms and potential therapeutic options. Thrombosis and Haemostasis, 2012, 108, 435-442.	3.4	58
77	Metabolites Secreted by Human Atherothrombotic Aneurysms Revealed through a Metabolomic Approach. Journal of Proteome Research, 2011, 10, 1374-1382.	3.7	31
78	Initiation of Angiogenesis in Atherosclerosis: Smooth Muscle Cells as Mediators of the Angiogenic Response to Atheroma Formation. Trends in Cardiovascular Medicine, 2011, 21, 183-187.	4.9	41
79	On the use of a tabulation approach to model auto-ignition during flame propagation in SI engines. Applied Energy, 2011, 88, 4968-4979.	10.1	59
80	NO Relaxation Approach (NORA) to predict thermal NO in combustion chambers. Combustion and Flame, 2011, 158, 1480-1490.	5.2	26
81	A new LES model coupling flame surface density and tabulated kinetics approaches to investigate knock and pre-ignition in piston engines. Proceedings of the Combustion Institute, 2011, 33, 3105-3114.	3.9	34
82	ldentification of Peroxiredoxin-1 as a Novel Biomarker of Abdominal Aortic Aneurysm. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 935-943.	2.4	75
83	Proteomic Analysis of Polymorphonuclear Neutrophils Identifies Catalase as a Novel Biomarker of Abdominal Aortic Aneurysm: Potential Implication of Oxidative Stress in Abdominal Aortic Aneurysm Progression. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 3011-3019.	2.4	71
84	Diagnostic and therapeutic strategies for small abdominal aortic aneurysms. Nature Reviews Cardiology, 2011, 8, 338-347.	13.7	63
85	Epigenetic control of vascular smooth muscle cells in Marfan and non-Marfan thoracic aortic antic aneurysms. Cardiovascular Research, 2011, 89, 446-456.	3.8	95
86	Novel aspects of the pathogenesis of aneurysms of the abdominal aorta in humans. Cardiovascular Research, 2011, 90, 18-27.	3.8	294
87	Radiolabeled Fucoidan as a P-Selectin Targeting Agent for In Vivo Imaging of Platelet-Rich Thrombus and Endothelial Activation. Journal of Nuclear Medicine, 2011, 52, 1433-1440.	5.0	109
88	The translational science of Marfan syndrome. Heart, 2011, 97, 1206-1214.	2.9	62
89	Intraplaque haemorrhages as the trigger of plaque vulnerability. European Heart Journal, 2011, 32, 1977-1985.	2.2	298
90	Early Atheroma-Derived Agonists of Peroxisome Proliferator–Activated Receptor-γ Trigger Intramedial Angiogenesis in a Smooth Muscle Cell–Dependent Manner. Circulation Research, 2011, 109, 1003-1014.	4.5	46

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91	Porphyromonas gingivalis Participates in Pathogenesis of Human Abdominal Aortic Aneurysm by Neutrophil Activation. Proof of Concept in Rats. PLoS ONE, 2011, 6, e18679.	2.5	125
92	On the formulation of species reaction rates in the context of multi-species CFD codes using complex chemistry tabulation techniques. Combustion and Flame, 2010, 157, 701-714.	5.2	23
93	Plasmin induces apoptosis of aortic valvular myofibroblasts. Journal of Pathology, 2010, 221, 37-48.	4.5	28
94	Fibrinolytic activity is associated with presence of cystic medial degeneration in aneurysms of the ascending aorta. Histopathology, 2010, 57, 917-932.	2.9	36
95	Hemorphin 7 Reflects Hemoglobin Proteolysis in Abdominal Aortic Aneurysm. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 269-275.	2.4	32
96	Peripheral Artery Disease Is Associated With a High CD163/TWEAK Plasma Ratio. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1253-1262.	2.4	67
97	Immaturity of microvessels in haemorrhagic plaques is associated with proteolytic degradation of angiogenic factors. Cardiovascular Research, 2010, 85, 184-193.	3.8	34
98	MR Imaging of Iron Phagocytosis in Intraluminal Thrombi of Abdominal Aortic Aneurysms in Humans. Radiology, 2010, 254, 973-981.	7.3	56
99	HDL antielastase activity prevents smooth muscle cell anoikis, a potential new antiatherogenic property. FASEB Journal, 2009, 23, 3129-3139.	0.5	86
100	Differential inflammatory activity across human abdominal aortic aneurysms reveals neutrophilderived leukotriene B4 as a major chemotactic factor released from the intraluminal thrombus. FASEB Journal, 2009, 23, 1376-1383.	0.5	100
101	Mediators of neutrophil recruitment in human abdominal aortic aneurysms. Cardiovascular Research, 2009, 82, 532-541.	3.8	104
102	Comparison of Differing Formulations of the PCM Model by their Application to the Simulation of an Auto-igniting H 2/air Jet. Flow, Turbulence and Combustion, 2009, 83, 33-60.	2.6	22
103	Using the tabulated diffusion flamelet model ADF-PCM to simulate a lifted methane–air jet flame. Combustion and Flame, 2009, 156, 1318-1331.	5.2	69
104	Syndromic and nonâ€syndromic aneurysms of the human ascending aorta share activation of the Smad2 pathway. Journal of Pathology, 2009, 218, 131-142.	4.5	162
105	Effect of blocking platelet activation with AZD6140 on development of abdominal aortic aneurysm in a rat aneurysmal model. Journal of Vascular Surgery, 2009, 49, 719-727.	1.1	68
106	Modeling ignition and chemical structure of partially premixed turbulent flames using tabulated chemistry. Combustion and Flame, 2008, 152, 80-99.	5.2	59
107	Plasma Concentration of Heat Shock Protein 27 and Risk of Cardiovascular Disease: A Prospective, Nested Case-Control Study. Clinical Chemistry, 2008, 54, 139-146.	3.2	38
108	Drug interactions modulate the potential for evolution of resistance. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14918-14923.	7.1	176

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109	Macrophages and Platelets Are the Major Source of Protease Nexin-1 in Human Atherosclerotic Plaque. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1844-1850.	2.4	43
110	Topological Determinants and Consequences of Adventitial Responses to Arterial Wall Injury. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1259-1268.	2.4	176
111	Involvement of intraplaque hemorrhage in atherothrombosis evolution via neutrophil protease enrichment. Journal of Leukocyte Biology, 2007, 82, 1420-1429.	3.3	137
112	Topology of protease activities reflects atherothrombotic plaque complexity. Atherosclerosis, 2007, 191, 1-10.	0.8	32
113	Low plasma levels of HSP70 in patients with carotid atherosclerosis are associated with increased levels of proteolytic markers of neutrophil activation. Atherosclerosis, 2007, 194, 334-341.	0.8	54
114	Proteomics in atherothrombosis: a future perspective. Expert Review of Proteomics, 2007, 4, 249-260.	3.0	13
115	The Oral Cavity and Age: A Site of Chronic Inflammation?. PLoS ONE, 2007, 2, e1351.	2.5	24
116	Renewal of Mural Thrombus Releases Plasma Markers and Is Involved in Aortic Abdominal Aneurysm Evolution. American Journal of Pathology, 2006, 168, 1022-1030.	3.8	148
117	Lymphoid neogenesis in chronic rejection: the murderer is in the house. Current Opinion in Immunology, 2006, 18, 576-579.	5.5	58
118	Biological Significance of Decreased HSP27 in Human Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1337-1343.	2.4	89
119	^{99m} Tc-Annexin-V Functional Imaging of Luminal Thrombus Activity in Abdominal Aortic Aneurysms. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2153-2159.	2.4	58
120	Lymphoid neogenesis in chronic rejection: Evidence for a local humoral alloimmune response. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14723-14728.	7.1	227
121	Protease Nexin-1 Inhibits Plasminogen Activation-induced Apoptosis of Adherent Cells. Journal of Biological Chemistry, 2004, 279, 10346-10356.	3.4	90
122	Protease nexin-1: A cellular serpin down-regulated by thrombin in rat aortic smooth muscle cells. Journal of Cellular Physiology, 2004, 201, 138-145.	4.1	29
123	Identification by a Differential Proteomic Approach of Heat Shock Protein 27 as a Potential Marker of Atherosclerosis. Circulation, 2004, 110, 2216-2219.	1.6	214
124	Role of Leukocyte Elastase in Preventing Cellular Re-Colonization of the Mural Thrombus. American Journal of Pathology, 2004, 164, 2077-2087.	3.8	121
125	Pericellular plasmin induces smooth muscle cell anoikis. FASEB Journal, 2003, 17, 1301-1303.	0.5	97
126	The Serpin Protease-Nexin 1 Is Present in Rat Aortic Smooth Muscle Cells and Is Upregulated inl-NAME Hypertensive Rats. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 142-147.	2.4	45

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127	Pharmacological Potentiation of Natriuretic Peptide Limits Polymorphonuclear Neutrophil-Vascular Cell Interactions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1824-1831.	2.4	55
128	Involvement of the Mural Thrombus as a Site of Protease Release and Activation in Human Aortic Aneurysms. American Journal of Pathology, 2002, 161, 1701-1710.	3.8	285
129	Contrasting Outcomes of Atheroma Evolution. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1389-1392.	2.4	35
130	Effects of Glutaraldehyde on Experimental Arterial Iso- and Allografts in Rats. Journal of Surgical Research, 1993, 54, 61-69.	1.6	19
131	On the Effects of EGR on Spark-Ignited Gasoline Combustion at High Load. SAE International Journal of Engines, 0, 7, 1808-1823.	0.4	69