Kim Van der Heiden

List of Publications by Year
in descending order

40	2,048	279701	330025
papers	citations	23 h-index	37 g-index

41	41	41	3397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Activation of Nrf2 in Endothelial Cells Protects Arteries From Exhibiting a Proinflammatory State. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1851-1857.	1.1	216
2	Role of nuclear factor Î¤B in cardiovascular health and disease. Clinical Science, 2010, 118, 593-605.	1.8	211
3	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
4	Endothelial primary cilia in areas of disturbed flow are at the base of atherosclerosis. Atherosclerosis, 2008, 196, 542-550.	0.4	150
5	Monocilia on chicken embryonic endocardium in low shear stress areas. Developmental Dynamics, 2006, 235, 19-28.	0.8	124
6	TWIST1 Integrates Endothelial Responses to Flow in Vascular Dysfunction and Atherosclerosis. Circulation Research, 2016, 119, 450-462.	2.0	115
7	Disturbed Blood Flow Induces RelA Expression via c-Jun N-Terminal Kinase 1. Circulation Research, 2011, 108, 950-959.	2.0	105
8	The effects of stenting on shear stress: relevance to endothelial injury and repair. Cardiovascular Research, 2013, 99, 269-275.	1.8	103
9	The Role of Shear Stress on ET-1, KLF2, and NOS-3 Expression in the Developing Cardiovascular System of Chicken Embryos in a Venous Ligation Model. Physiology, 2007, 22, 380-389.	1.6	90
10	Primary cilia as biomechanical sensors in regulating endothelial function. Differentiation, 2012, 83, S56-S61.	1.0	67
11	Multidirectional wall shear stress promotes advanced coronary plaque development: comparing five shear stress metrics. Cardiovascular Research, 2020, 116, 1136-1146.	1.8	66
12	c-Jun N-Terminal Kinase Primes Endothelial Cells at Atheroprone Sites for Apoptosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 546-553.	1.1	61
13	Calcifications in atherosclerotic plaques and impact on plaque biomechanics. Journal of Biomechanics, 2019, 87, 1-12.	0.9	61
14	Tgfî²/Alk5 signaling is required for shear stress induced klf2 expression in embryonic endothelial cells. Developmental Dynamics, 2011, 240, 1670-1680.	0.8	55
15	Fluid Shear Stress and Inner Curvature Remodeling of the Embryonic Heart. Choosing the Right Lane!. Scientific World Journal, The, 2008, 8, 212-222.	0.8	53
16	Deciphering the Endothelial Shear Stress Sensor. Circulation, 2008, 117, 1124-1126.	1.6	46
17	Animal models of surgically manipulated flow velocities to study shear stress-induced atherosclerosis. Atherosclerosis, 2015, 241, 100-110.	0.4	41
18	Atherosclerotic Plaque Destabilization in Mice: A Comparative Study. PLoS ONE, 2015, 10, e0141019.	1.1	31

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19	Contemporary rationale for non-invasive imaging of adverse coronary plaque features to identify the vulnerable patient:Âa Position Paper from the European Society of Cardiology Working Group on Atherosclerosis and Vascular Biology and the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2020, 21, 1177-1183.	0.5	29
20	Lipid signature of advanced human carotid atherosclerosis assessed by mass spectrometry imaging. Journal of Lipid Research, 2021, 62, 100020.	2.0	27
21	Folate Receptorâ€"Targeted Single-Photon Emission Computed Tomography/Computed Tomography to Detect Activated Macrophages in Atherosclerosis: Can It Distinguish Vulnerable from Stable Atherosclerotic Plaques?. Molecular Imaging, 2014, 13, 7290.2013.00061.	0.7	26
22	Animal models for plaque rupture: a biomechanical assessment. Thrombosis and Haemostasis, 2016, 115, 501-508.	1.8	25
23	Role for Primary Cilia as Flow Detectors in the Cardiovascular System. International Review of Cell and Molecular Biology, 2011, 290, 87-119.	1.6	24
24	Data Processing Pipeline for Lipid Profiling of Carotid Atherosclerotic Plaque with Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2019, 30, 1790-1800.	1.2	22
25	Heart rate reduction with ivabradine promotes shear stress-dependent anti-inflammatory mechanisms in arteries. Thrombosis and Haemostasis, 2016, 116, 181-190.	1.8	20
26	Variation in Coronary Atherosclerosis Severity Related to a Distinct LDL (Low-Density Lipoprotein) Profile. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2338-2352.	1.1	19
27	Imaging of atherosclerosis, targeting LFA-1 on inflammatory cells with 111In-DANBIRT. Journal of Nuclear Cardiology, 2019, 26, 1697-1704.	1.4	16
28	Contrast-enhanced micro-CT imaging in murine carotid arteries: a new protocol for computing wall shear stress. BioMedical Engineering OnLine, 2016, 15, 156.	1.3	13
29	Imaging inflammation in atherosclerotic plaques, targeting SST2 with [111In]In-DOTA-JR11. Journal of Nuclear Cardiology, 2021, 28, 2506-2513.	1.4	12
30	A mouse model of humanized liver shows a human-like lipid profile, but does not form atherosclerotic plaque after western type diet. Biochemical and Biophysical Research Communications, 2020, 524, 510-515.	1.0	9
31	Micro Spectroscopic Photoacoustic (Î¼sPA) imaging of advanced carotid atherosclerosis. Photoacoustics, 2021, 22, 100261.	4.4	9
32	Autoradiographical assessment of inflammation-targeting radioligands for atherosclerosis imaging: potential for plaque phenotype identification. EJNMMI Research, 2021, 11, 27.	1.1	7
33	Imaging of inflammatory cellular protagonists in human atherosclerosis: a dual-isotope SPECT approach. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2856-2865.	3.3	5
34	Biomechanics in vascular biology and cardiovascular disease. Thrombosis and Haemostasis, 2016, 115, 465-466.	1.8	4
35	Should ethnicity be included in cardiovascular risk stratification?. Netherlands Heart Journal, 2015, 23, 42-43.	0.3	3
36	An MRI-based method to register patient-specific wall shear stress data to histology. PLoS ONE, 2019, 14, e0217271.	1.1	3

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37	Nuclear Imaging of Post-infarction Inflammation in Ischemic Cardiac Diseases - New Radiotracers for Potential Clinical Applications. Current Radiopharmaceuticals, 2021, 14, 184-208.	0.3	2
38	Targeting Inflammatory Protagonists with Nuclear Imaging: A Novel Dual-Radiotracer Approach. Journal of Cardiovascular Computed Tomography, 2019, 13, S24.	0.7	0
39	Primary cilia as biosensors for blood flow: lessons from cardiovascular development. FASEB Journal, 2006, 20, A409.	0.2	0
40	Endothelial mechanosensing by primary cilia. FASEB Journal, 2009, 23, 828.3.	0.2	0