

Kenton P Arkill

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

838
citations

16
h-index

28
g-index

46
ext. papers

1,003
ext. citations

4.9
avg, IF

4
L-index

#	Paper	IF	Citations
42	Solute transport in the deep and calcified zones of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2008 , 16, 708-14	6.2	115
41	Vascular Endothelial Growth Factor-A165b Is Protective and Restores Endothelial Glycocalyx in Diabetic Nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2015 , 26, 1889-904	12.7	93
40	Sialic acids regulate microvessel permeability, revealed by novel in vivo studies of endothelial glycocalyx structure and function. <i>Journal of Physiology</i> , 2017 , 595, 5015-5035	3.9	67
39	Similar endothelial glycocalyx structures in microvessels from a range of mammalian tissues: evidence for a common filtering mechanism?. <i>Biophysical Journal</i> , 2011 , 101, 1046-56	2.9	67
38	Transformations of citrate and Tween coated silver nanoparticles reacted with Na β . <i>Science of the Total Environment</i> , 2015 , 502, 344-53	10.2	52
37	Resolution of the three dimensional structure of components of the glomerular filtration barrier. <i>BMC Nephrology</i> , 2014 , 15, 24	2.7	42
36	Origin of parietal podocytes in atubular glomeruli mapped by lineage tracing. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 129-41	12.7	36
35	3D reconstruction of the glycocalyx structure in mammalian capillaries using electron tomography. <i>Microcirculation</i> , 2012 , 19, 343-51	2.9	35
34	Modeling flow in collecting lymphatic vessels: one-dimensional flow through a series of contractile elements. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H305-13	5.2	34
33	Fabrication and atomic structure of size-selected, layered MoS ₂ clusters for catalysis. <i>Nanoscale</i> , 2014 , 6, 12463-9	7.7	33
32	The structure and mechanical properties of collecting lymphatic vessels: an investigation using multimodal nonlinear microscopy. <i>Journal of Anatomy</i> , 2010 , 216, 547-55	2.9	33
31	Local microvascular leakage promotes trafficking of activated neutrophils to remote organs. <i>Journal of Clinical Investigation</i> , 2020 , 130, 2301-2318	15.9	31
30	Cerium oxide nanoparticles induce oxidative stress in the sediment-dwelling amphipod <i>Corophium volutator</i> . <i>Nanotoxicology</i> , 2016 , 10, 480-7	5.3	23
29	Cartilage collagen matrix reorientation and displacement in response to surface loading. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 031008	2.1	23
28	Characterisation of mineralisation of bone and cartilage: X-ray diffraction and Ca and Sr KIX-ray fluorescence microscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 263, 1-6	1.2	22
27	Fatty acid transport in articular cartilage. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 456, 71-8	4.1	18
26	A High Resolution Study of Dynamic Changes of CeO and CeO Nanoparticles in Complex Environmental Media. <i>Environmental Science & Technology</i> , 2017 , 51, 8010-8016	10.3	16

25	Novel hemodynamic structures in the human glomerulus. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 315, F1370-F1384	4.3	13
24	Structural assessment of SARS-CoV2 accessory protein ORF7a predicts LFA-1 and Mac-1 binding potential. <i>Bioscience Reports</i> , 2021 , 41,	4.1	11
23	Optical micro-spectroscopy of single metallic nanoparticles: quantitative extinction and transient resonant four-wave mixing. <i>Faraday Discussions</i> , 2015 , 184, 305-20	3.6	9
22	The Revised Starling Principle and Its Relevance to Perioperative Fluid Management 2016 , 31-74		7
21	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. <i>Journal of Lipid Research</i> , 2019 , 60, 1880-1891	6.3	7
20	Prediction of the enhanced insulin absorption across a triple co-cultured intestinal model using mucus penetrating PLGA nanoparticles. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119516	6.5	5
19	Using size-selected gold clusters on graphene oxide films to aid cryo-transmission electron tomography alignment. <i>Scientific Reports</i> , 2015 , 5, 9234	4.9	5
18	Direct detection and measurement of wall shear stress using a filamentous bio-nanoparticle. <i>Nano Research</i> , 2015 , 8, 3307-3315	10	4
17	Non-invasive measurement of retinal permeability in a diabetic rat model. <i>Microcirculation</i> , 2020 , 27, e12623	2.9	4
16	Acute depletion of diacylglycerol from the -Golgi affects localized nuclear envelope morphology during mitosis. <i>Journal of Lipid Research</i> , 2018 , 59, 1402-1413	6.3	4
15	Model-based image analysis of a tethered Brownian fibre for shear stress sensing. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	4
14	The Functions of Endothelial Glycocalyx and Their Effects on Patient Outcomes During the Perioperative Period. A Review of Current Methods to Evaluate Structure-Function Relations in the Glycocalyx in Both Basic Research and Clinical Settings 2016 , 75-116		3
13	Microvasculature, blood flow and tissue structure at the subchondral plate using an X-ray fluorescence technique. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007 , 271, 771-775	1.5	3
12	The Functions of Endothelial Glycocalyx and Their Effects on Patient Outcomes During the Perioperative Period: A Review of Current Methods to Evaluate Structure-Function Relations in the Glycocalyx in Both Basic Research and Clinical Settings 2020 , 75-118		3
11	A new view of macula densa cell microanatomy. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 320, F492-F504	4.3	3
10	Dye Aggregate-Mediated Self-Assembly of Bacteriophage Bioconjugates. <i>Bioconjugate Chemistry</i> , 2018 , 29, 3705-3714	6.3	3
9	A novel approach to identifying merging/splitting events in time-lapse microscopy 2016 ,		2
8	Quantitative biological measurement in Transmission Electron Tomography. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012019	0.3	2

7	Transcriptomic analysis of cardiomyocyte extracellular vesicles in hypertrophic cardiomyopathy reveals differential snoRNA cargo. <i>Stem Cells and Development</i> , 2021 ,	4.4	2
6	Endothelial glycocalyx is damaged in diabetic cardiomyopathy: angiotensin 1 restores glycocalyx and improves diastolic function in mice.. <i>Diabetologia</i> , 2022 , 65, 879	10.3	2
5	Mathematical model to determine the effect of a sub-glycocalyx space. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	1
4	A Reinterpretation of Evidence for the Endothelial Glycocalyx Filtration Structure. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 734661	5.7	0
3	Noninvasive Measurement of Retinal Microvascular Permeability During Loss of Endothelial Quiescence.. <i>Methods in Molecular Biology</i> , 2022 , 2441, 135-156	1.4	
2	Transmission Electron Microscopy of Endothelium.. <i>Methods in Molecular Biology</i> , 2022 , 2441, 95-103	1.4	
1	Simultaneous Determination of Microvascular Endothelial Glycocalyx Structure and Albumin Flux in vivo. <i>FASEB Journal</i> , 2015 , 29, LB552	0.9	