

Adelle C F Coster

List of Publications by Year in descending order

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58
papers

3,041
citations

279798

23
h-index

175258

52
g-index

59
all docs

59
docs citations

59
times ranked

4324
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerometry: providing an integrated, practical method for long-term, ambulatory monitoring of human movement. <i>Physiological Measurement</i> , 2004, 25, R1-R20.	2.1	694
2	Classification of basic daily movements using a triaxial accelerometer. <i>Medical and Biological Engineering and Computing</i> , 2004, 42, 679-687.	2.8	369
3	Detection of daily physical activities using a triaxial accelerometer. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 296-301.	2.8	205
4	Insulin Increases Cell Surface GLUT4 Levels by Dose Dependently Discharging GLUT4 into a Cell Surface Recycling Pathway. <i>Molecular and Cellular Biology</i> , 2004, 24, 6456-6466.	2.3	203
5	Impedance spectroscopy of interfaces, membranes and ultrastructures. <i>Bioelectrochemistry</i> , 1996, 40, 79-98.	1.0	180
6	Skeletal muscle and plasma lipidomic signatures of insulin resistance and overweight/obesity in humans. <i>Obesity</i> , 2016, 24, 908-916.	3.0	138
7	A pilot study of long-term monitoring of human movements in the home using accelerometry. <i>Journal of Telemedicine and Telecare</i> , 2004, 10, 144-151.	2.7	134
8	Selective Insulin Resistance in Adipocytes. <i>Journal of Biological Chemistry</i> , 2015, 290, 11337-11348.	3.4	85
9	Impaired Akt phosphorylation in insulin-resistant human muscle is accompanied by selective and heterogeneous downstream defects. <i>Diabetologia</i> , 2013, 56, 875-885.	6.3	81
10	Kinetic Evidence for Unique Regulation of GLUT4 Trafficking by Insulin and AMP-activated Protein Kinase Activators in L6 Myotubes. <i>Journal of Biological Chemistry</i> , 2010, 285, 1653-1660.	3.4	67
11	Insulin-regulated Glut4 Translocation. <i>Journal of Biological Chemistry</i> , 2014, 289, 17280-17298.	3.4	67
12	Regulation of glucose homeostasis and insulin action by ceramide acyl-chain length: A beneficial role for very long-chain sphingolipid species. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1828-1839.	2.4	66
13	Insulin Stimulates the Entry of GLUT4 into the Endosomal Recycling Pathway by a Quantal Mechanism. <i>Traffic</i> , 2004, 5, 763-771.	2.7	61
14	The impact of tropomyosins on actin filament assembly is isoform specific. <i>Bioarchitecture</i> , 2016, 6, 61-75.	1.5	49
15	Mathematical Modelling of the Interaction Between Cancer Cells and an Oncolytic Virus: Insights into the Effects of Treatment Protocols. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 1615-1629.	1.9	49
16	The effect of short-term overfeeding on serum lipids in healthy humans. <i>Obesity</i> , 2013, 21, E649-59.	3.0	48
17	Cluster Analysis of Insulin Action in Adipocytes Reveals a Key Role for Akt at the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2010, 285, 2245-2257.	3.4	45
18	Obesity and Insulin Resistance Are Inversely Associated with Serum and Adipose Tissue Carotenoid Concentrations in Adults. <i>Journal of Nutrition</i> , 2020, 150, 38-46.	2.9	45

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19	Dietary acid load, metabolic acidosis and insulin resistance – Lessons from cross-sectional and overfeeding studies in humans. <i>Clinical Nutrition</i> , 2016, 35, 1084-1090.	5.0	42
20	What starch grain is that? – A geometric morphometric approach to determining plant species origin. <i>Journal of Archaeological Science</i> , 2015, 58, 9-25.	2.4	36
21	Binding of transcription factor GabR to DNA requires recognition of DNA shape at a location distinct from its cognate binding site. <i>Nucleic Acids Research</i> , 2016, 44, 1411-1420.	14.5	35
22	Rab14 limits the sorting of Glut4 from endosomes into insulin-sensitive regulated secretory compartments in adipocytes. <i>Biochemical Journal</i> , 2016, 473, 1315-1327.	3.7	30
23	Association of muscle lipidomic profile with high-fat diet-induced insulin resistance across five mouse strains. <i>Scientific Reports</i> , 2017, 7, 13914.	3.3	26
24	Glycemic Effects and Safety of L-Glutamine Supplementation with or without Sitagliptin in Type 2 Diabetes Patients – A Randomized Study. <i>PLoS ONE</i> , 2014, 9, e113366.	2.5	21
25	Human-environment dynamics during the Holocene in the Australian Wet Tropics of NE Queensland: A starch and phytolith study. <i>Journal of Anthropological Archaeology</i> , 2016, 44, 216-234.	1.6	20
26	Glut4 Is Sorted from a Rab10 GTPase-independent Constitutive Recycling Pathway into a Highly Insulin-responsive Rab10 GTPase-dependent Sequestration Pathway after Adipocyte Differentiation. <i>Journal of Biological Chemistry</i> , 2016, 291, 773-789.	3.4	20
27	Enhancing oncolytic virotherapy: Observations from a Voronoi Cell-Based model. <i>Journal of Theoretical Biology</i> , 2020, 485, 110052.	1.7	20
28	Emergence of a Neolithic in highland New Guinea by 5000 to 4000 years ago. <i>Science Advances</i> , 2020, 6, eaay4573.	10.3	18
29	Ionic double layer of atomically flat gold formed on mica templates. <i>Electrochimica Acta</i> , 2009, 54, 3766-3774.	5.2	17
30	Hyperactivation of the Insulin Signaling Pathway Improves Intracellular Proteostasis by Coordinately Up-regulating the Proteostatic Machinery in Adipocytes. <i>Journal of Biological Chemistry</i> , 2016, 291, 25629-25640.	3.4	15
31	Phase Response of Model Sinoatrial Node Cells. <i>Annals of Biomedical Engineering</i> , 2003, 31, 271-283.	2.5	14
32	High-Throughput Analysis of the Dynamics of Recycling Cell Surface Proteins. <i>Methods in Molecular Biology</i> , 2008, 440, 129-146.	0.9	12
33	Muscling in on GLUT4 kinetics. <i>Communicative and Integrative Biology</i> , 2010, 3, 260-262.	1.4	11
34	Longitudinal Changes in Insulin Resistance in Normal Weight, Overweight and Obese Individuals. <i>Journal of Clinical Medicine</i> , 2019, 8, 623.	2.4	10
35	New Data from an Open Neolithic Site in Eastern Indonesia. <i>Asian Perspectives</i> , 2018, 57, 222-243.	0.1	9
36	Treating cancerous cells with viruses: insights from a minimal model for oncolytic virotherapy. <i>Letters in Biomathematics</i> , 2018, 5, S117-S136.	0.1	9

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37	Automatic identification of fusion events in TIRF microscopy image sequences. , 2009, , .		8
38	Effect of surface chemistry on tropomyosin binding to actin filaments on surfaces. Cytoskeleton, 2016, 73, 729-738.	2.0	8
39	Interactions of tropomyosin Tpm1.1 on a single actin filament: A method for extraction and processing of high resolution TIRF microscopy data. PLoS ONE, 2018, 13, e0208586.	2.5	8
40	Modelling heterogeneity in viral-tumour dynamics: The effects of gene-attenuation on viral characteristics. Journal of Theoretical Biology, 2018, 454, 41-52.	1.7	8
41	Irradiation impairs mitochondrial function and skeletal muscle oxidative capacity: significance for metabolic complications in cancer survivors. Metabolism: Clinical and Experimental, 2020, 103, 154025.	3.4	8
42	From insulin to Akt: Time delays and dominant processes. Journal of Theoretical Biology, 2020, 507, 110454.	1.7	8
43	Modelling combined virotherapy and immunotherapy: strengthening the antitumour immune response mediated by IL-12 and GM-CSF expression. Letters in Biomathematics, 2018, 5, S99-S116.	0.1	7
44	The Akt switch model: Is location sufficient?. Journal of Theoretical Biology, 2016, 398, 103-111.	1.7	6
45	Functional studies of flaked and ground stone artefacts reveal starchy tree nut and root exploitation in mid-Holocene highland New Guinea. Holocene, 2020, 30, 1360-1374.	1.7	6
46	Crosstalk in transition: the translocation of Akt. Journal of Mathematical Biology, 2019, 78, 919-942.	1.9	5
47	Holocene grinding stones at Madjedbebe reveal the processing of starchy plant taxa and animal tissue. Journal of Archaeological Science: Reports, 2021, 35, 102754.	0.5	5
48	Expectation and conditioning. Physica A: Statistical Mechanics and Its Applications, 2001, 290, 251-267.	2.6	4
49	Noise accelerates synchronization of coupled nonlinear oscillators. Physical Review E, 2006, 74, 041128.	2.1	2
50	Ancient starch analysis of grinding stones from Kokatha Country, South Australia. Journal of Archaeological Science: Reports, 2019, 23, 178-188.	0.5	2
51	Tropical Foodways and Exchange along the Coastal Margin of Northeastern New Guinea. Journal of Field Archaeology, 2020, 45, 498-511.	1.3	2
52	The Shape of Things to Come—Using Geometric and Morphometric Analyses to Identify Archaeological Starch Grains. Mathematics for Industry, 2018, , 1-6.	0.4	2
53	A receptor state space model of the insulin signalling system in glucose transport. Mathematical Medicine and Biology, 2015, 32, dqv003.	1.2	1
54	Modelling Cardiac Dynamics with Integral Pulse Frequency Modulated Units. , 2005, 2006, 933-5.		0

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55	The Effect of Gap Junction Conductance on Synchronisation of Sinoatrial Node Central Cells. , 2011, , .		0
56	Actin Tropomyosin Assembly Intermediates. Biophysical Journal, 2015, 108, 298a.	0.5	0
57	Models of Membrane-Mediated Processes: Cascades and Cycles in Insulin Action. , 2021, , 143-155.		0
58	The Synchronization of Sinoatrial Node Cells: The Transition from Centre to Periphery. , 2010, , .		0