

Anne-Laure Charles

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,330
citations

361045

20
h-index

360668

35
g-index

48
all docs

48
docs citations

48
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced-Reality Video Fluorescence. <i>Annals of Surgery</i> , 2014, 259, 700-707.	2.1	145
2	Tetrahydrocannabinol Induces Brain Mitochondrial Respiratory Chain Dysfunction and Increases Oxidative Stress: A Potential Mechanism Involved in Cannabis-Related Stroke. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	105
3	Mitochondria: An Organelle of Bacterial Origin Controlling Inflammation. <i>Frontiers in Immunology</i> , 2018, 9, 536.	2.2	100
4	Chronology of mitochondrial and cellular events during skeletal muscle ischemia-reperfusion. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C968-C982.	2.1	89
5	Reductive stress impairs myoblasts mitochondrial function and triggers mitochondrial hormesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1574-1585.	1.9	80
6	Mitochondria: Mitochondrial participation in ischemia-reperfusion injury in skeletal muscle. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 50, 101-105.	1.2	71
7	Sarcopenia and peripheral arterial disease: a systematic review. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 866-886.	2.9	58
8	HYPerspectral Enhanced Reality (HYPER): a physiology-based surgical guidance tool. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2020, 34, 1736-1744.	1.3	48
9	Remote and local ischemic preconditioning equivalently protects rat skeletal muscle mitochondrial function during experimental aortic cross-clamping. <i>Journal of Vascular Surgery</i> , 2012, 55, 497-505.e1.	0.6	45
10	Computer-assisted quantification and visualization of bowel perfusion using fluorescence-based enhanced reality in left-sided colonic resections. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021, 35, 4321-4331.	1.3	42
11	Muscles Susceptibility to Ischemia-Reperfusion Injuries Depends on Fiber Type Specific Antioxidant Level. <i>Frontiers in Physiology</i> , 2017, 8, 52.	1.3	40
12	Polyphenols prevent ageing-related impairment in skeletal muscle mitochondrial function through decreased reactive oxygen species production. <i>Experimental Physiology</i> , 2013, 98, 536-545.	0.9	39
13	Cyclosporine A normalizes mitochondrial coupling, reactive oxygen species production, and inflammation and partially restores skeletal muscle maximal oxidative capacity in experimental aortic cross-clamping. <i>Journal of Vascular Surgery</i> , 2013, 57, 1100-1108.e2.	0.6	37
14	Neutrophils recruited by leukotriene B4 induce features of plaque destabilization during endotoxaemia. <i>Cardiovascular Research</i> , 2018, 114, 1656-1666.	1.8	34
15	Oxidative stress precedes skeletal muscle mitochondrial dysfunction during experimental aortic cross-clamping but is not associated with early lung, heart, brain, liver, or kidney mitochondrial impairment. <i>Journal of Vascular Surgery</i> , 2014, 60, 1043-1051.e5.	0.6	30
16	Peripheral Blood Mononuclear Cells and Platelets Mitochondrial Dysfunction, Oxidative Stress, and Circulating mtDNA in Cardiovascular Diseases. <i>Journal of Clinical Medicine</i> , 2020, 9, 311.	1.0	29
17	Pretreatment with brain natriuretic peptide reduces skeletal muscle mitochondrial dysfunction and oxidative stress after ischemia-reperfusion. <i>Journal of Applied Physiology</i> , 2013, 114, 172-179.	1.2	28
18	The Rise of Mitochondria in Peripheral Arterial Disease Physiopathology: Experimental and Clinical Data. <i>Journal of Clinical Medicine</i> , 2019, 8, 2125.	1.0	27

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19	Diabetes Worsens Skeletal Muscle Mitochondrial Function, Oxidative Stress, and Apoptosis After Lower-Limb Ischemia-Reperfusion: Implication of the RISK and SAFE Pathways?. <i>Frontiers in Physiology</i> , 2018, 9, 579.	1.3	25
20	Metabolism-Guided Bowel Resection. <i>Surgical Innovation</i> , 2015, 22, 453-461.	0.4	20
21	Effects of cyclic nucleotide phosphodiesterases (PDEs) on mitochondrial skeletal muscle functions. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1883-1893.	2.4	20
22	Skeletal muscle ischemiaâ€“reperfusion injury and cyclosporine A in the aging rat. <i>Fundamental and Clinical Pharmacology</i> , 2016, 30, 216-225.	1.0	16
23	Mitochondrial Function in Peripheral Blood Mononuclear Cells (PBMC) Is Enhanced, Together with Increased Reactive Oxygen Species, in Severe Asthmatic Patients in Exacerbation. <i>Journal of Clinical Medicine</i> , 2019, 8, 1613.	1.0	16
24	Moderate Exercise Allows for shorter Recovery Time in Critical Limb Ischemia. <i>Frontiers in Physiology</i> , 2017, 8, 523.	1.3	15
25	N-Acetyl Cysteine Restores Limb Function, Improves Mitochondrial Respiration, and Reduces Oxidative Stress in a Murine Model of Critical Limb Ischaemia. <i>European Journal of Vascular and Endovascular Surgery</i> , 2018, 56, 730-738.	0.8	13
26	Digestive nâ€™ Lipid Oxidation, a Key Trigger of Vascular Dysfunction and Atherosclerosis in the Western Diet: Protective Effects of Apple Polyphenols. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2000487.	1.5	13
27	Aging Exacerbates Ischemia-Reperfusion-Induced Mitochondrial Respiration Impairment in Skeletal Muscle. <i>Antioxidants</i> , 2019, 8, 168.	2.2	11
28	Intraoperative Perfusion Assessment in Enhanced Reality Using Quantitative Optical Imaging: An Experimental Study in a Pancreatic Partial Ischemia Model. <i>Diagnostics</i> , 2021, 11, 93.	1.3	11
29	Mitochondrial function following downhill and/or uphill exercise training in rats. <i>Muscle and Nerve</i> , 2016, 54, 925-935.	1.0	10
30	Precision real-time evaluation of bowel perfusion: accuracy of confocal endomicroscopy assessment of stoma in a controlled hemorrhagic shock model. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2017, 31, 680-691.	1.3	10
31	Effect of nasal allergen challenge in allergic rhinitis on mitochondrial function of peripheral blood mononuclear cells. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 118, 367-369.	0.5	10
32	Beneficial Effect of Exercise on Cognitive Function during Peripheral Arterial Disease: Potential Involvement of Myokines and Microglial Anti-Inflammatory Phenotype Enhancement. <i>Journal of Clinical Medicine</i> , 2019, 8, 653.	1.0	10
33	Septic Shock Alters Mitochondrial Respiration of Lymphoid Cell-Lines and Human Peripheral Blood Mononuclear Cells: The Role of Plasma. <i>Shock</i> , 2019, 51, 97-104.	1.0	10
34	Pathophysiological Effects of Overactive STIM1 on Murine Muscle Function and Structure. <i>Cells</i> , 2021, 10, 1730.	1.8	10
35	Does Transcatheter Aortic Valve Replacement Modulate the Kinetic of Superoxide Anion Generation?. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 420-426.	2.5	9
36	New Insights into the Implication of Mitochondrial Dysfunction in Tissue, Peripheral Blood Mononuclear Cells, and Platelets during Lung Diseases. <i>Journal of Clinical Medicine</i> , 2020, 9, 1253.	1.0	9

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37	Critical Limb Ischaemia Exacerbates Mitochondrial Dysfunction in ApoE ^{-/-} Mice Compared with ApoE ^{+/+} Mice, but N-acetyl Cysteine still Confers Protection. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 58, 576-582.	0.8	8
38	Effects of a High Fat Meal Associated with Water, Juice, or Champagne Consumption on Endothelial Function and Markers of Oxidative Stress and Inflammation in Young, Healthy Subjects. <i>Journal of Clinical Medicine</i> , 2019, 8, 859.	1.0	8
39	Effect of the Phosphodiesterase 5 Inhibitor Sildenafil on Ischemia-Reperfusion-Induced Muscle Mitochondrial Dysfunction and Oxidative Stress. <i>Antioxidants</i> , 2019, 8, 93.	2.2	8
40	Pathophysiology of Heart Failure: A Role for Peripheral Blood Mononuclear Cells Mitochondrial Dysfunction?. <i>Journal of Clinical Medicine</i> , 2022, 11, 741.	1.0	6
41	Resolution of Inflammation after Skeletal Muscle Ischemia-Reperfusion Injury: A Focus on the Lipid Mediators Lipoxins, Resolvins, Protectins and Maresins. <i>Antioxidants</i> , 2022, 11, 1213.	2.2	4
42	Octanoic Acid-Enrichment Diet Improves Endurance Capacity and Reprograms Mitochondrial Biogenesis in Skeletal Muscle of Mice. <i>Nutrients</i> , 2022, 14, 2721.	1.7	4
43	Deleterious Effects of Remote Ischaemic Per-conditioning During Lower Limb Ischaemia-Reperfusion in Mice. <i>European Journal of Vascular and Endovascular Surgery</i> , 2021, 62, 953-959.	0.8	3
44	Impact of valve-less vs. standard insufflation on pneumoperitoneum volume, inflammation, and peritoneal physiology in a laparoscopic sigmoid resection experimental model. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2018, 32, 3215-3224.	1.3	2
45	Impaired Myocardial Mitochondrial Function in an Experimental Model of Anaphylactic Shock. <i>Biology</i> , 2022, 11, 730.	1.3	2
46	Hyperspectral Imaging Quantification of Mouse Limb Microcirculation Using an Ischemia Reperfusion Model with Phosphodiesterase 5 Inhibitor Preconditioning. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2020, 30, 942-947.	0.5	0
47	Prolonged Cold Ischemia Did Not Impair Mitochondrial Oxygen Consumption or Reactive Oxygen Species Production in Human Uterine Fundus and Horn Myometrium. <i>Oxygen</i> , 2022, 2, 12-21.	1.6	0
48	Beneficial Effects of Ketogenic Diet on Nonalcoholic Steatohepatitis in Obese Mice Model. , 2022, 12, .		0