

Kathleen Cantow

List of Publications by Year in descending order

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papers

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32
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Assessment of Renal Perfusion and Oxygenation by Invasive Probes: Basic Concepts. Methods in Molecular Biology, 2021, 2216, 89-107.	0.9	5
2	Monitoring Renal Hemodynamics and Oxygenation by Invasive Probes: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 327-347.	0.9	4
3	Subsegmentation of the Kidney in Experimental MR Images Using Morphology-Based Regions-of-Interest or Multiple-Layer Concentric Objects. Methods in Molecular Biology, 2021, 2216, 549-564.	0.9	1
4	Reversible (Patho)Physiologically Relevant Test Interventions: Rationale and Examples. Methods in Molecular Biology, 2021, 2216, 57-73.	0.9	2
5	Reliable kidney size determination by magnetic resonance imaging in pathophysiological settings. Acta Physiologica, 2021, 233, e13701.	3.8	7
6	Continuous diffusion spectrum computation for diffusion-weighted magnetic resonance imaging of the kidney tubule system. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3098-3119.	2.0	11
7	Probing renal blood volume with magnetic resonance imaging. Acta Physiologica, 2020, 228, e13435.	3.8	16
8	Imagine physiology without imaging. Acta Physiologica, 2020, 230, e13549.	3.8	4
9	Diffusion-weighted Renal MRI at 9.4â€Tesla Using RARE to Improve Anatomical Integrity. Scientific Reports, 2019, 9, 19723.	3.3	4
10	Towards depth-resolved characterization of hemodynamics and oxygenation in the rat kidney. , 2019, , .		1
11	Near infrared spectroscopy system for quantitative monitoring of renal hemodynamics and oxygenation in rats. , 2019, , .		0
12	Interpretation of functional renal MRI findings: Where physiology and imaging sciences need to talk across domains. Journal of Magnetic Resonance Imaging, 2018, 47, 1140-1141.	3.4	2
13	Reliable determination of tissue optical properties from spatially resolved reflectance. Proceedings of SPIE, 2017, , .	0.8	0
14	Low dose nitrite improves reoxygenation following renal ischemia in rats. Scientific Reports, 2017, 7, 14597.	3.3	12
15	Erroneous data on renal hemodynamics derived from DCEâ€MRI in rats. Journal of Magnetic Resonance Imaging, 2017, 46, 617-617.	3.4	1
16	Tissue optical properties from spatially resolved reflectance: calibration and in vivo application on rat kidney. Proceedings of SPIE, 2017, , .	0.8	2
17	Experimental MRI Monitoring of Renal Blood Volume Fraction Variations En Route to Renal Magnetic Resonance Oximetry. Tomography, 2017, 3, 188-200.	1.8	16
18	Acute effects of ferumoxytol on regulation of renal hemodynamics and oxygenation. Scientific Reports, 2016, 6, 29965.	3.3	12

#	ARTICLE	IF	CITATIONS
19	Assessment of Renal Hemodynamics and Oxygenation by Simultaneous Magnetic Resonance Imaging (MRI) and Quantitative Invasive Physiological Measurements. <i>Methods in Molecular Biology</i> , 2016, 1397, 129-154.	0.9	9
20	Characterization of hemodynamics and oxygenation in the renal cortex of rats. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
21	Monitoring hemodynamics and oxygenation of the kidney in rats by a combined near-infrared spectroscopy and invasive probe approach. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
22	Detailing renal hemodynamics and oxygenation in rats by a combined near-infrared spectroscopy and invasive probe approach. <i>Biomedical Optics Express</i> , 2015, 6, 309.	2.9	29
23	How bold is blood oxygenation levelâ€dependent (BOLD) magnetic resonance imaging of the kidney? Opportunities, challenges and future directions. <i>Acta Physiologica</i> , 2015, 213, 19-38.	3.8	100
24	Monitoring hemodynamics and oxygenation of the kidney in rats by a combined near-infrared spectroscopy and invasive probe approach. , 2015, , .		0
25	Iodinated contrast media cause direct tubular cell damage, leading to oxidative stress, low nitric oxide, and impairment of tubuloglomerular feedback. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F864-F872.	2.7	59
26	Detailing the Relation Between Renal T2* and Renal Tissue pO2 Using an Integrated Approach of Parametric Magnetic Resonance Imaging and Invasive Physiological Measurements. <i>Investigative Radiology</i> , 2014, 49, 547-560.	6.2	64
27	Low-Dose Nitrite Alleviates Early Effects of an X-ray Contrast Medium on Renal Hemodynamics and Oxygenation in Rats. <i>Investigative Radiology</i> , 2014, 49, 70-77.	6.2	21
28	Near-infrared spectroscopy of renal tissue in vivo. , 2013, , .		2
29	Linking nonâ€invasive parametric <scp>MRI</scp> with invasive physiological measurements (<scp>MR</scp>â€<scp>PHYSIOL</scp>): towards a hybrid and integrated approach for investigation of acute kidney injury in rats. <i>Acta Physiologica</i> , 2013, 207, 673-689.	3.8	35
30	Early effects of an xâ€ray contrast medium on renal T₂*/T₂ <scp>MRI</scp> as compared to shortâ€term hyperoxia, hypoxia and aortic occlusion in rats. <i>Acta Physiologica</i> , 2013, 208, 202-213.	3.8	29
31	High Temporal Resolution Parametric MRI Monitoring of the Initial Ischemia/Reperfusion Phase in Experimental Acute Kidney Injury. <i>PLoS ONE</i> , 2013, 8, e57411.	2.5	51
32	Proof of Principle. <i>Investigative Radiology</i> , 2012, 47, 240-246.	6.2	15