

# Alexandre Samouilov

## List of Publications by Year in descending order

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38  
papers

2,023  
citations

430874

18  
h-index

315739

38  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme-independent formation of nitric oxide in biological tissues. <i>Nature Medicine</i> , 1995, 1, 804-809.	30.7	727
2	A Nonpeptidyl Mimic of Superoxide Dismutase with Therapeutic Activity in Rats. <i>Science</i> , 1999, 286, 304-306.	12.6	494
3	Heme proteins mediate the conversion of nitrite to nitric oxide in the vascular wall. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H499-H508.	3.2	96
4	In vivo monitoring of pH, redox status, and glutathione using LaBand EPR for assessment of therapeutic effectiveness in solid tumors. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1827-1836.	3.0	81
5	In Vivo EPR Imaging of the Distribution and Metabolism of Nitroxide Radicals in Human Skin. <i>Journal of Magnetic Resonance</i> , 2001, 148, 155-164.	2.1	72
6	In vivo imaging of free radicals: Applications from mouse to man. <i>Molecular and Cellular Biochemistry</i> , 2002, 234/235, 359-367.	3.1	57
7	<i>In Vivo</i> Proton-Electron Double-Resonance Imaging of Extracellular Tumor pH Using an Advanced Nitroxide Probe. <i>Analytical Chemistry</i> , 2014, 86, 1045-1052.	6.5	50
8	Spatial mapping of nitric oxide generation in the ischemic heart using electron paramagnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 212-218.	3.0	49
9	Development of a hybrid EPR/NMR coimaging system. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 156-166.	3.0	36
10	A Bridged Loop-Gap S-Band Surface Resonator for Topical EPR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 2001, 151, 124-128.	2.1	27
11	A Tunable Reentrant Resonator with Transverse Orientation of Electric Field for <i>In Vivo</i> EPR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 1999, 137, 373-378.	2.1	23
12	Variable Field Proton-Electron Double-Resonance Imaging: Application to pH mapping of aqueous samples. <i>Journal of Magnetic Resonance</i> , 2010, 202, 267-273.	2.1	22
13	Reply to "Enzymatic/non-enzymatic formation of nitric oxide". <i>Nature Medicine</i> , 1995, 1, 1103-1104.	30.7	21
14	Kinetic analysis-based quantitation of free radical generation in EPR spin trapping. <i>Analytical Biochemistry</i> , 2004, 334, 145-154.	2.4	21
15	Compressed sensing of spatial electron paramagnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 893-901.	3.0	20
16	Modified Alderman-Grant resonator with high-power stability for proton electron double resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 654-659.	3.0	19
17	Variable radio frequency proton-electron double-resonance imaging: Application to pH mapping of aqueous samples. <i>Journal of Magnetic Resonance</i> , 2011, 209, 227-232.	2.1	19
18	Cytoglobin has potent superoxide dismutase function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19

#	ARTICLE	IF	CITATIONS
19	Single loop multi-gap resonator for whole body EPR imaging of mice at 1.2GHz. Journal of Magnetic Resonance, 2007, 188, 68-73.	2.1	18
20	Dual frequency resonator for 1.2GHz EPR/16.2MHz NMR co-imaging. Journal of Magnetic Resonance, 2010, 205, 1-8.	2.1	14
21	Fast gated EPR imaging of the beating heart: Spatiotemporally resolved 3D imaging of free radical distribution during the cardiac cycle. Magnetic Resonance in Medicine, 2013, 69, 594-601.	3.0	13
22	In vivo imaging of free radicals: applications from mouse to man. Molecular and Cellular Biochemistry, 2002, 234-235, 359-67.	3.1	13
23	Segmented surface coil resonator for in vivo EPR applications at 1.1GHz. Journal of Magnetic Resonance, 2009, 198, 8-14.	2.1	12
24	Poly-arginine conjugated triarylmethyl radical as intracellular spin label. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1742-1744.	2.2	10
25	[42] Analytical implications of iron dithiocarbamates for measurement of nitric oxide. Methods in Enzymology, 2002, 352, 506-522.	1.0	9
26	A novel variable field system for field-cycled dynamic nuclear polarization spectroscopy. Journal of Magnetic Resonance, 2010, 205, 202-208.	2.1	9
27	Standard-based method for proton-enhanced electron double resonance imaging of oxygen. Journal of Magnetic Resonance, 2011, 212, 197-203.	2.1	9
28	Proton-Electron Double-Resonance Imaging of pH Using Phosphonated Trityl Probe. Applied Magnetic Resonance, 2014, 45, 817-826.	1.2	9
29	Development of a fast-scan EPR imaging system for highly accelerated free radical imaging. Magnetic Resonance in Medicine, 2019, 82, 842-853.	3.0	9
30	High fidelity triangular sweep of the magnetic field for millisecond scan EPR imaging. Journal of Magnetic Resonance, 2021, 329, 107024.	2.1	8
31	Accelerated dynamic EPR imaging using fast acquisition and compressive recovery. Journal of Magnetic Resonance, 2016, 273, 105-112.	2.1	7
32	Algebraic reconstruction of 3D spatial EPR images from high numbers of noisy projections: An improved image reconstruction technique for high resolution fast scan EPR imaging. Journal of Magnetic Resonance, 2020, 319, 106812.	2.1	7
33	Trityl radicals in perfluorocarbon emulsions as stable, sensitive, and biocompatible oximetry probes. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5685-5688.	2.2	6
34	Development of an L-band resonator optimized for fast scan EPR imaging of the mouse head. Magnetic Resonance in Medicine, 2021, 86, 2316-2327.	3.0	5
35	Uniform spinning sampling gradient electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 71, 893-900.	3.0	4
36	Whole body electronic cigarette exposure system for efficient evaluation of diverse inhalation conditions and products. Inhalation Toxicology, 2020, 32, 477-486.	1.6	4

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37	Pathways of Microcirculatory Endothelial Dysfunction in Obstructive Sleep Apnea: A Comprehensive <i>Ex Vivo</i> Evaluation in Human Tissue. <i>American Journal of Hypertension</i> , 2022, 35, 347-355.	2.0	3
38	Evaluation of Fast Scan EPR for High-Resolution Imaging Using Nitroxide Radical Probes at 1.2 GHz. <i>Applied Magnetic Resonance</i> , 2022, 53, 233.	1.2	1