

Boris Epel

List of PR Articles by Year in descending order

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66

PR articles

1,844

PR citations

217746

24

PR h-index

236523

41

g-index

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documents

2343

doc citations

211771

26

h-index

1769

citing authors

#	ARTICLE	IF	PR CITATIONS
1	Nondestructive, longitudinal, 3D oxygen imaging of cells in a multi-well plate using pulse electron paramagnetic resonance imaging. <i>npj Imaging</i> , 2024, 2, .	2.3	6
2	Amniotic growth factors enhanced human preadipocyte cell viability and differentiation under hypoxia. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 2146-2156.	3.5	11
3	<i>In Vivo</i> Partial Oxygen Pressure Assessment in Subcutaneous and Intraperitoneal Sites Using Imaging of Solid Oxygen Probe. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 264-271.	2.5	15
4	The optimal ¹⁸ F-fluoromisonidazole PET threshold to define tumor hypoxia in preclinical squamous cell carcinomas using pO ₂ electron paramagnetic resonance imaging as reference truth. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 4014-4024.	5.6	13
5	720 MHz Pulse EPR Imager with Arbitrary Waveform Generator-Based Bridge and Direct Sampling. <i>Applied Magnetic Resonance</i> , 2021, 52, 1031-1040.	0.9	1
6	Improving Tumor Hypoxia Location in ¹⁸ F-Misonidazole PET Contrast-enhanced MRI Using Quantitative Electron Paramagnetic Oxygen Pressure Images. <i>Radiology Imaging Cancer</i> , 2021, 3, e200104. with Dynamic Resonance Partial	3.5	10
7	An inverse-breathing encapsulation system for cell delivery. <i>Science Advances</i> , 2021, 7, .	11.0	61
8	Small Animal IMRT Using 3D-Printed Compensators. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 551-565.	1.6	15
9	A balanced total-variation-Chambolle-Pock algorithm for EPR imaging. <i>Journal of Magnetic Resonance</i> , 2021, 328, 107009.	1.6	12
10	EPR Oxygen Imaging Workflow with MATLAB Image Registration Toolbox. <i>Applied Magnetic Resonance</i> , 2021, 52, 1311-1319.	0.9	8
11	A bioinspired scaffold for rapid oxygenation of cell encapsulation systems. <i>Nature Communications</i> , 2021, 12, .	13.9	66
12	A Doubly Constrained TV Algorithm for Image Reconstruction. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	1.0	3
13	Merging Preclinical EPR Tomography with other Imaging Techniques. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 187-196.	2.0	10
14	Modular imaging system: Rapid scan EPR at 800 MHz. <i>Journal of Magnetic Resonance</i> , 2019, 305, 94-103.	1.6	22
15	Highly sensitive electron paramagnetic resonance nanoradicals for quantitative intracellular tumor oxymetric images. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 2963-2971.	5.8	11
16	Oxygen-Guided Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 977-984.	1.6	92
17	Single-dose radiotherapy disables tumor cell homologous recombination via ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , 2019, 129, 786-801.	10.7	64
18	Three novel accurate pixel-driven projection methods for 2D CT and 3D EPR imaging. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 83-102.	0.7	15

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19	Noninvasive Absolute Electron Paramagnetic Resonance Oxygen Imaging for the Assessment of Tissue Graft Oxygenation. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 14-19.	2.5	19
20	Optimization-based image reconstruction from sparsely sampled data in electron paramagnetic resonance imaging. <i>Journal of Magnetic Resonance</i> , 2018, 294, 24-34.	1.6	25
21	Investigation of the preconditioner-parameter in the preconditioned Chambolle-Pock algorithm applied to optimization-based image reconstruction. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 435-448.	0.7	2
22	Imaging thiol redox status in murine tumors in vivo with rapid-scan electron paramagnetic resonance. <i>Journal of Magnetic Resonance</i> , 2017, 276, 31-36.	1.6	54
23	In vivo preclinical cancer and tissue engineering applications of absolute oxygen imaging using pulse EPR. <i>Journal of Magnetic Resonance</i> , 2017, 280, 149-157.	1.6	49
24	Rapid-scan EPR imaging. <i>Journal of Magnetic Resonance</i> , 2017, 280, 140-148.	1.6	39
25	Triarylmethyl Radical: EPR Signal to Noise at Frequencies between 250 MHz and 1.5 GHz and Dependence of Relaxation on Radical and Salt Concentration and on Frequency. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 923-937.	2.7	7
26	Spin Lattice Relaxation EPR pO ₂ Images May Direct the Location of Radiation Tumor Boosts to Enhance Tumor Cure. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 295-298.	2.0	18
27	A Pulse EPR 25 mT Magnetometer with 10 ppm Resolution. <i>Applied Magnetic Resonance</i> , 2017, 48, 805-811.	0.9	9
28	Resonators for In Vivo Imaging: Practical Experience. <i>Applied Magnetic Resonance</i> , 2017, 48, 1227-1247.	0.9	14
29	250 MHz passive Q-modulator for reflection resonators. <i>Concepts in Magnetic Resonance Part B</i> , 2017, 47B, .	0.6	1
30	Investigating the Distribution of Stable Paramagnetic Species in an Apple Seed Using X-Band EPR and EPR Imaging. <i>Journal of Oleo Science</i> , 2017, 66, 315-319.	1.8	16
31	Decoupling of excitation and receive coils in pulsed magnetic resonance using sinusoidal magnetic field modulation. <i>Journal of Magnetic Resonance</i> , 2016, 272, 91-99.	1.6	3
32	Fast dynamic electron paramagnetic resonance (EPR) oxygen imaging using low-rank tensors. <i>Journal of Magnetic Resonance</i> , 2016, 270, 176-182.	1.6	23
33	Implementation of GPU-accelerated back projection for EPR imaging. <i>Journal of X-Ray Science and Technology</i> , 2015, 23, 423-433.	0.7	2
34	Maximally spaced projection sequencing in electron paramagnetic resonance imaging. <i>Concepts in Magnetic Resonance Part B</i> , 2015, 45, 33-45.	0.6	18
35	Real-time image reconstruction for pulse EPR oxygen imaging using a GPU and lookup table parameter fitting. <i>Concepts in Magnetic Resonance Part B</i> , 2015, 45, 46-57.	0.6	5
36	3D pulse EPR imaging from sparse-view projections via constrained, total variation minimization. <i>Journal of Magnetic Resonance</i> , 2015, 258, 49-57.	1.6	26

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37	Comparison of pulse sequences for R1-based electron paramagnetic resonance oxygen imaging. Journal of Magnetic Resonance, 2015, 254, 56-61.	1.6	21
38	Principal component analysis enhances $\langle \text{SNR} \rangle$ for dynamic electron paramagnetic resonance oxygen imaging of cycling hypoxia in vivo. Magnetic Resonance in Medicine, 2014, 71, 440-450.	2.8	28
39	Comparison of parabolic filtration methods for 3D filtered back projection in pulsed EPR imaging. Journal of Magnetic Resonance, 2014, 248, 42-53.	1.6	16
40	Absolute oxygen R_{1e} imaging in vivo with pulse electron paramagnetic resonance. Magnetic Resonance in Medicine, 2014, 72, 362-368.	2.8	97
41	Locations of radical species in black pepper seeds investigated by CW EPR and 9GHz EPR imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 342-346.	4.3	24
42	Orthogonal resonators for pulse in vivo electron paramagnetic imaging at 250MHz. Journal of Magnetic Resonance, 2014, 240, 45-51.	1.6	14
43	EPR Oxygen Images Predict Tumor Control by a 50% Tumor Control Radiation Dose. Cancer Research, 2013, 73, 5328-5335.	0.6	61
44	A 9 GHz EPR Imager for Thin Materials: Application to Surface Detection. Journal of Oleo Science, 2012, 61, 451-456.	1.8	13
45	Electronic Structure of a Weakly Antiferromagnetically Coupled $\text{Mn}^{\text{II}}\text{Mn}^{\text{III}}$ Model Relevant to Manganese Proteins: A Combined EPR, ^{55}Mn -ENDOR, and DFT Study. Inorganic Chemistry, 2011, 50, 8238-8251.	4.6	57
46	Comparison of 250 MHz electron spin echo and continuous wave oxygen EPR imaging methods for <i>in vivo</i> applications. Medical Physics, 2011, 38, 2045-2052.	3.2	52
47	Retractable loop-gap resonators for electron paramagnetic resonance imaging with in situ irradiation capabilities. Concepts in Magnetic Resonance Part B, 2011, 39B, 167-172.	0.6	7
48	Frequency bandwidth extension by use of multiple Zeeman field offsets for electron spin-echo EPR oxygen imaging of large objects. Medical Physics, 2011, 38, 3062-3068.	3.2	4
49	SU-E-I-159: Delaunay Triangulation for Angular Interpolation and Single Stage Reconstruction of EPRI. Medical Physics, 2011, 38, 3432-3433.	3.2	0
50	Electron paramagnetic resonance oxygen imaging of a rabbit tumor using localized spin probe delivery. Medical Physics, 2010, 37, 2553-2559.	3.2	47
51	Multiple-stepped Zeeman field offset method applied in acquiring enhanced resolution spin-echo electron paramagnetic resonance images. Medical Physics, 2010, 37, 5412-5420.	3.2	5
52	Where It^{TM} s at Really Matters: In Situ In Vivo Vascular Endothelial Growth Factor Spatially Correlates with Electron Paramagnetic Resonance pO_2 Images in Tumors of Living Mice. Molecular Imaging and Biology, 2010, 13, 1107-1113.	2.2	25
53	A passive dual-circulator based transmit/receive switch for use with reflection resonators in pulse electron paramagnetic resonance. Concepts in Magnetic Resonance Part B, 2009, 35B, 133-138.	0.6	15
54	Electronic Structure of the Quinone Radical Anion $\text{A}^{\cdot-}$ of Photosystem I Investigated by Advanced Pulse EPR and ENDOR Techniques. Journal of Physical Chemistry B, 2009, 113, 10367-10379.	2.7	45

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55	Investigation of the Stationary and Transient A 1 $\dot{\text{A}}$ Radical in Trp $\dot{\text{A}}$ Phe Mutants of Photosystem I. Applied Magnetic Resonance, 2009, 38, 187-203.	0.9	7
56	A versatile high speed 250 MHz pulse imager for biomedical applications. Concepts in Magnetic Resonance Part B, 2008, 33B, 163-176.	0.6	71
57	Electronic Structure of the Mn ₄ O _x Ca Cluster in the S ₀ and S ₂ States of the Oxygen-Evolving Complex of Photosystem II Based on Pulse ⁵⁵ Mn-ENDOR and EPR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 13421-13435.	15.0	240
58	Phylloquinone and Related Radical Anions Studied by Pulse Electron Nuclear Double Resonance Spectroscopy at 34 GHz and Density Functional Theory. Journal of Physical Chemistry B, 2006, 110, 11549-11560.	2.7	34
59	Spectrometer manager: A versatile control software for pulse EPR spectrometers. Concepts in Magnetic Resonance Part B, 2005, 26B, 36-45.	0.6	92
60	Multifrequency EPR analysis of the dimanganese cluster of the putative sulfate thiohydrolase SoxB of Paracoccus pantotrophus. Journal of Biological Inorganic Chemistry, 2005, 10, 636-642.	2.5	40
61	Pulse EPR, ⁵⁵ Mn-ENDOR and ELDOR-detected NMR of the S ₂ -state of the oxygen evolving complex in Photosystem II. Photosynthesis Research, 2005, 84, 347-353.	3.5	38
62	⁵⁵ Mn Pulse ENDOR at 34 GHz of the S ₀ and S ₂ States of the Oxygen-Evolving Complex in Photosystem II. Journal of the American Chemical Society, 2005, 127, 2392-2393.	15.0	176
63	Axial Solvent Coordination in α -Base-Off-Cob(II)alamin and Related Co(II)-Corrinates Revealed by 2D-EPR. Journal of the American Chemical Society, 2003, 125, 5915-5927.	15.0	63
64	Electron-Mediating CuA Centers in Proteins: A Comparative High Field ¹ H ENDOR Study. Journal of the American Chemical Society, 2002, 124, 8152-8162.	15.0	36
65	Pulsed EPR/ENDOR Characterization of Perturbations of the CuA Center Ground State by Axial Methionine Ligand Mutations. Journal of the American Chemical Society, 2001, 123, 5325-5336.	15.0	37
66	Structure of Copper(II)-Histidine Based Complexes in Frozen Aqueous Solutions As Determined from High-Field Pulsed Electron Nuclear Double Resonance. Inorganic Chemistry, 2001, 40, 781-787.	4.6	64