

# Jason W Sidabras

## List of Publications by Year in descending order

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40  
papers

599  
citations

567281

15  
h-index

642732

23  
g-index

42  
all docs

42  
docs citations

42  
times ranked

526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Saturation recovery EPR and ELDOR at W-band for spin labels. <i>Journal of Magnetic Resonance</i> , 2008, 193, 297-304.	2.1	44
2	Electron Paramagnetic Resonance Dosimetry for a Large-Scale Radiation Incident. <i>Health Physics</i> , 2012, 103, 255-267.	0.5	43
3	Dielectric microwave resonators in TE011 cavities for electron paramagnetic resonance spectroscopy. <i>Review of Scientific Instruments</i> , 2008, 79, 094702.	1.3	39
4	Multipurpose EPR loop-gap resonator and cylindrical TE011 cavity for aqueous samples at 94GHz. <i>Review of Scientific Instruments</i> , 2007, 78, 034701.	1.3	38
5	Detection of undistorted continuous wave (CW) electron paramagnetic resonance (EPR) spectra with non-adiabatic rapid sweep (NARS) of the magnetic field. <i>Journal of Magnetic Resonance</i> , 2011, 211, 228-233.	2.1	30
6	Aqueous flat-cells perpendicular to the electric field for use in electron paramagnetic resonance spectroscopy, II: design. <i>Journal of Magnetic Resonance</i> , 2005, 172, 333-341.	2.1	26
7	Uniform radio frequency fields in loop-gap resonators for EPR spectroscopy. <i>Applied Magnetic Resonance</i> , 2007, 31, 573-589.	1.2	25
8	Development and validation of an ex vivo electron paramagnetic resonance fingernail biodosimetric method. <i>Radiation Protection Dosimetry</i> , 2014, 159, 172-181.	0.8	25
9	Advances towards using finger/toenail dosimetry to triage a large population after potential exposure to ionizing radiation. <i>Radiation Measurements</i> , 2011, 46, 882-887.	1.4	24
10	Microwave frequency modulation in CW EPR at W-band using a loop-gap resonator. <i>Journal of Magnetic Resonance</i> , 2007, 185, 259-263.	2.1	22
11	SURFACE LOOP RESONATOR DESIGN FOR IN VIVO EPR TOOTH DOSIMETRY USING FINITE ELEMENT ANALYSIS. <i>Health Physics</i> , 2010, 98, 339-344.	0.5	22
12	Extending electron paramagnetic resonance to nanoliter volume protein single crystals using a self-resonant microhelix. <i>Science Advances</i> , 2019, 5, eaay1394.	10.3	21
13	Developments in Biodosimetry Methods for Triage With a Focus on X-band Electron Paramagnetic Resonance In Vivo Fingernail Dosimetry. <i>Health Physics</i> , 2018, 115, 140-150.	0.5	19
14	Coupling of waveguide and resonator by inductive and capacitive irises for EPR spectroscopy. <i>Applied Magnetic Resonance</i> , 2009, 35, 285-318.	1.2	18
15	Spin-label W-band EPR with Seven-Loop-Six-Gap Resonator: Application to Lens Membranes Derived from Eyes of a Single Donor. <i>Applied Magnetic Resonance</i> , 2014, 45, 1343-1358.	1.2	17
16	Photobleaching of pheomelanin increases its phototoxic potential: Physicochemical studies of synthetic pheomelanin subjected to aerobic photolysis. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 359-372.	3.3	16
17	EPR of Cu <sup>2+</sup> Prion Protein Constructs at 2 GHz Using the g <sub>  </sub> Region to Characterize Nitrogen Ligation. <i>Biophysical Journal</i> , 2009, 96, 3354-3362.	0.5	15
18	Moving difference (MDIFF) non-adiabatic rapid sweep (NARS) EPR of copper(II). <i>Journal of Magnetic Resonance</i> , 2013, 236, 15-25.	2.1	15

#	ARTICLE	IF	CITATIONS
19	A microwave resonator for limiting depth sensitivity for electron paramagnetic resonance spectroscopy of surfaces. <i>Review of Scientific Instruments</i> , 2014, 85, 104707.	1.3	15
20	Restoring Susceptibility Induced MRI Signal Loss in Rat Brain at 9.4 T: A Step towards Whole Brain Functional Connectivity Imaging. <i>PLoS ONE</i> , 2015, 10, e0119450.	2.5	15
21	POSSIBLE NATURE OF THE RADIATION-INDUCED SIGNAL IN NAILS: HIGH-FIELD EPR, CONFIRMING CHEMICAL SYNTHESIS, AND QUANTUM CHEMICAL CALCULATIONS. <i>Radiation Protection Dosimetry</i> , 2016, 172, 112-120.	0.8	14
22	MRI surface-coil pair with strong inductive coupling. <i>Review of Scientific Instruments</i> , 2016, 87, 124704.	1.3	12
23	Rutile dielectric loop-gap resonator for X-band EPR spectroscopy of small aqueous samples. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106585.	2.1	10
24	Dielectric-Backed Aperture Resonators for X-Band <i>in vivo</i> EPR Nail Dosimetry. <i>Radiation Protection Dosimetry</i> , 2016, 172, 121-126.	0.8	9
25	Hyperbolic-cosine waveguide tapers and oversize rectangular waveguide for reduced broadband insertion loss in W-band electron paramagnetic resonance spectroscopy. <i>Review of Scientific Instruments</i> , 2011, 82, 074704.	1.3	8
26	Extruded dielectric sample tubes of complex cross section for EPR signal enhancement of aqueous samples. <i>Journal of Magnetic Resonance</i> , 2017, 277, 45-51.	2.1	8
27	Uniform field loop-gap resonator and rectangular TE U02 for aqueous sample EPR at 94 GHz. <i>Journal of Magnetic Resonance</i> , 2017, 282, 129-135.	2.1	8
28	Uniform Field Resonators for EPR Spectroscopy: A Review. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 3-14.	1.8	7
29	Electron paramagnetic resonance field-modulation eddy-current analysis of silver-plated graphite resonators. <i>Review of Scientific Instruments</i> , 2005, 76, 094702.	1.3	6
30	Broadband W-band Rapid Frequency Sweep Considerations for Fourier Transform EPR. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 259-273.	1.8	6
31	Hyperbolic-cosine waveguide tapers and oversize rectangular waveguide for reduced broadband insertion loss in W-band electron paramagnetic resonance spectroscopy. II. Broadband characterization. <i>Review of Scientific Instruments</i> , 2016, 87, 034704.	1.3	3
32	Meta-metallic coils and resonators: Methods for high Q-value resonant geometries. <i>Review of Scientific Instruments</i> , 2016, 87, 084703.	1.3	3
33	Dielectric-Backed Aperture Resonators for X-band Depth-Limited <i>In Vivo</i> EPR Nail Dosimetry. <i>Applied Magnetic Resonance</i> , 2020, 51, 1093-1101.	1.2	3
34	Dispersion EPR: Considerations for Low-Frequency Experiments. <i>Applied Magnetic Resonance</i> , 2022, 53, 193-206.	1.2	3
35	Axially uniform magnetic field-modulation excitation for electron paramagnetic resonance in rectangular and cylindrical cavities by slot cutting. <i>Journal of Magnetic Resonance</i> , 2017, 274, 115-124.	2.1	2
36	Uniform Field Re-entrant Cylindrical TE U Cavity for Pulse Electron Paramagnetic Resonance Spectroscopy at Q-band. <i>Applied Magnetic Resonance</i> , 2017, 48, 1301-1314.	1.2	2

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37	Milliwatt three- and four-pulse double electron electron resonance for protein structure determination. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12528-12540.	2.8	2
38	Structural Dynamics Of Myosin'S Light Chain Domain In A Pre-power Stroke Conformation. <i>Biophysical Journal</i> , 2009, 96, 310a.	0.5	0
39	Measuring Protein Conformational Exchange Rates with Pressure-Jump Site Directed Spin Labeling EPR Spectroscopy. <i>Biophysical Journal</i> , 2012, 102, 405a-406a.	0.5	0
40	Spin-Labeled Uni-Lamellar Vesicles as an Oxygen Sensitive Analyte for Measurement of Cellular Respiration using Rat Dopaminergic Neuronal Cells. <i>Biophysical Journal</i> , 2015, 108, 615a.	0.5	0