James S Hyde

List of Publications by Citations

257 papers	24,380 citations	60 h-index	153 g-index
263 ext. papers	27,030 ext. citations	3.7 avg, IF	6.43 L-index

#	Paper	IF	Citations
257	Functional connectivity in the motor cortex of resting human brain using echo-planar MRI. *Magnetic Resonance in Medicine*, **1995**, 34, 537-41	4.4	6922
256	Toward discovery science of human brain function. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4734-9	11.5	2183
255	Processing strategies for time-course data sets in functional MRI of the human brain. *Magnetic Resonance in Medicine*, **1993**, 30, 161-73	4.4	1484
254	Time course EPI of human brain function during task activation. *Magnetic Resonance in Medicine*, **1992**, 25, 390-7	4.4	1470
253	Software tools for analysis and visualization of fMRI data. *NMR in Biomedicine*, **1997**, 10, 171-8	4.4	542
252	Simultaneous assessment of flow and BOLD signals in resting-state functional connectivity maps. *NMR in Biomedicine*, **1997**, 10, 165-70	4.4	438
251	QUIPSS II with thin-slice TI1 periodic saturation: a method for improving accuracy of quantitative perfusion imaging using pulsed arterial spin labeling. *Magnetic Resonance in Medicine*, **1999**, 41, 1246-54	4.4	411
250	Rotational diffusion studied by passage saturation transfer electron paramagnetic resonance. *Journal of Chemical Physics*, **1976**, 65, 3006-3024	3.9	375
249	Characterization of continuously distributed cortical water diffusion rates with a stretched-exponential model. *Magnetic Resonance in Medicine*, **2003**, 50, 727-34	4.4	335
248	Spin-echo and gradient-echo EPI of human brain activation using BOLD contrast: a comparative study at 1.5 T. *NMR in Biomedicine*, **1994**, 7, 12-20	4.4	269
247	Hydrophobic barriers of lipid bilayer membranes formed by reduction of water penetration by alkyl chain unsaturation and cholesterol. *Biochemistry*, **1994**, 33, 7670-81	3.2	269
246	Reduction of physiological fluctuations in fMRI using digital filters. *Magnetic Resonance in Medicine*, **1996**, 35, 107-13	4.4	246
245	Real-time functional magnetic resonance imaging. *Magnetic Resonance in Medicine*, **1995**, 33, 230-6	4.4	234
244	Ligand ENDOR of Metal Complexes in Powders. *Journal of Chemical Physics*, **1970**, 52, 4633-4643	3.9	221
243	Functional MRI of brain activation induced by scanner acoustic noise. *Magnetic Resonance in Medicine*, **1998**, 39, 410-6	4.4	200
242	Diffusion weighted fMRI at 1.5 T. *Magnetic Resonance in Medicine*, **1996**, 35, 155-8	4.4	192
241	Broadening by strains of lines in the g-parallel region of Cu2+ EPR spectra. *Journal of Chemical Physics*, **1980**, 73, 3123-3131	3.9	179

240	Resting-state functional connectivity of the rat brain. *Magnetic Resonance in Medicine*, **2008**, 59, 1021-9	4.4	170
239	ENDOR of Free Radicals in Solution. *Journal of Chemical Physics*, **1965**, 43, 1806-1818	3.9	169
238	Theory of Saturation and Double Resonance Effects in ESR Spectra. III. rf Coherence and Line Shapes. *Journal of Chemical Physics*, **1967**, 47, 2762-2773	3.9	153
237	Very slowly tumbling spin labels: adiabatic rapid passage. *Chemical Physics Letters*, **1972**, 16, 568-572	2.5	149
236	ElectronElectron Double Resonance of Free Radicals in Solution. *Journal of Chemical Physics*, **1968**, 48, 4211-4226	3.9	148
235	Continuous and stopped flow EPR spectrometer based on a loop gap resonator. *Review of Scientific Instruments*, **1987**, 58, 1879-1886	1.7	143
234	Hypercapnia reversibly suppresses low-frequency fluctuations in the human motor cortex during rest using echo-planar MRI. *Journal of Cerebral Blood Flow and Metabolism*, **1997**, 17, 301-8	7.3	138
233	Endor [electron-nuclear double resonance] of methyl, matrix, and .alpha. protons in amorphous and polycrystalline matrixes. *The Journal of Physical Chemistry*, **1968**, 72, 4269-4276		138
232	High-resolution fMRI using multislice partial k-space GR-EPI with cubic voxels. *Magnetic Resonance in Medicine*, **2001**, 46, 114-25	4.4	135
231	Identification and characterization of cerebral cortical response to esophageal mucosal acid exposure and distention. *Gastroenterology*, **1998**, 115, 1353-62	13.3	126
230	Effect of alkyl chain unsaturation and cholesterol intercalation on oxygen transport in membranes: a pulse ESR spin labeling study. *Biochemistry*, **1991**, 30, 8578-90	3.2	122
229	A pulsed EPR spectrometer. *Review of Scientific Instruments*, **1974**, 45, 669-675	1.7	122
228	Spin-label studies on phosphatidylcholine-cholesterol membranes: effects of alkyl chain length and unsaturation in the fluid phase. *Biochimica Et Biophysica Acta - Biomembranes*, **1986**, 854, 307-17	3.8	121
227	Comparison of simultaneously measured perfusion and BOLD signal increases during brain activation with T(1)-based tissue identification. *Magnetic Resonance in Medicine*, **2000**, 44, 137-43	4.4	117
226	A dynamic analysis of changes in the nasolabial fold using magnetic resonance imaging: implications for facial rejuvenation and facial animation surgery. *Plastic and Reconstructive Surgery*, **1996**, 98, 622-36	2.7	111
225	A protocol for use of medetomidine anesthesia in rats for extended studies using task-induced BOLD contrast and resting-state functional connectivity. *NeuroImage*, **2009**, 46, 1137-47	7.9	107
224	Electron-Nuclear-Double-Resonance and Electron-Paramagnetic-Resonance Analysis of the Ytterbium-Fluorine Superhyperfine Interaction in CaF2: Yb3+. *Physical Review*, **1966**, 141, 259-274		104
223	Spatial correlations of laminar BOLD and CBV responses to rat whisker stimulation with neuronal activity localized by Fos expression. *Magnetic Resonance in Medicine*, **2004**, 52, 1060-8	4.4	102

222	Interhemispheric neuroplasticity following limb deafferentation detected by resting-state functional connectivity magnetic resonance imaging (fcMRI) and functional magnetic resonance imaging (fMRI). *NeuroImage*, **2010**, 49, 2467-78	7.9	101
221	Permeability of nitric oxide through lipid bilayer membranes. *Free Radical Research*, **1996**, 24, 343-9	4	97
220	Paramagnetic resonance in triplet naphthalene at liquid helium temperatures. *Molecular Physics*, **1963**, 6, 33-41	1.7	92
219	Pulse EPR detection of lipid exchange between protein-rich raft and bulk domains in the membrane: methodology development and its application to studies of influenza viral membrane. *Biophysical Journal*, **2001**, 80, 738-48	2.9	90
218	Spin-label saturation-transfer electron spin resonance detection of transient association of rhodopsin in reconstituted membranes. *Biochemistry*, **1982**, 21, 5978-83	3.2	90
217	The diffusion-concentration product of oxygen in lipid bilayers using the spin-label T1 method. *Biochimica Et Biophysica Acta - Biomembranes*, **1981**, 643, 283-291	3.8	87
216	Pulsed EPR spectrometer, II. *Review of Scientific Instruments*, **1975**, 46, 1522-1529	1.7	87
215	New EPR methods for the study of very slow motion: application to spin-labeled hemoglobin. *Annals of the New York Academy of Sciences*, **1973**, 222, 680-92	6.5	86
214	Single-shot half k-space high-resolution gradient-recalled EPI for fMRI at 3 Tesla. *Magnetic Resonance in Medicine*, **1998**, 40, 754-62	4.4	84
213	Cu2+ probe of metal-ion binding sites in melanin using electron paramagnetic resonance spectroscopy. I. Synthetic melanins. *Archives of Biochemistry and Biophysics*, **1980**, 202, 289-303	4.1	83
212	Molecular organization and dynamics in bacteriorhodopsin-rich reconstituted membranes: discrimination of lipid environments by the oxygen transport parameter using a pulse ESR spin-labeling technique. *Biochemistry*, **1994**, 33, 4947-52	3.2	82
211	Coil optimization for MRI by conjugate gradient descent. *Magnetic Resonance in Medicine*, **1991**, 21, 39-48	4.4	81
210	Molecular organization and dynamics of 1-palmitoyl-2-oleoylphosphatidylcholine bilayers containing a transmembrane alpha-helical peptide. *Biochemistry*, **1998**, 37, 3156-64	3.2	79
209	Murine in vivo L-band ESR spin-label oximetry with a loop-gap resonator. *Magnetic Resonance in Medicine*, **1986**, 3, 747-54	4.4	77
208	Water diffusion heterogeneity index in the human brain is insensitive to the orientation of applied magnetic field gradients. *Magnetic Resonance in Medicine*, **2006**, 56, 235-9	4.4	74
207	EPR Study of Tetracene Positive Ion. *Journal of Chemical Physics*, **1962**, 37, 368-378	3.9	74
206	Spin-Label Oximetry. *Biological Magnetic Resonance*, **1989**, 399-425	0.5	73
205	Gender differences in cortical representation of rectal distension in healthy humans. *American Journal of Physiology - Renal Physiology*, **2001**, 281, G1512-23	5.1	71

204	ENDOR of a Free Radical in Solution. *Journal of Chemical Physics*, **1964**, 40, 3117-3118	3.9	70
203	Microimmiscibility and three-dimensional dynamic structures of phosphatidylcholine-cholesterol membranes: translational diffusion of a copper complex in the membrane. *Biochemistry*, **1990**, 29, 7936-45	3.2	69
202	Cu2+ probe of metal-ion binding sites in melanin using electron paramagentic resonance spectroscopy. II. Natural melanin. *Archives of Biochemistry and Biophysics*, **1980**, 202, 304-13	4.1	69
201	Swallow-related cerebral cortical activity maps are not specific to deglutition. *American Journal of Physiology - Renal Physiology*, **2001**, 280, G531-8	5.1	68
200	Paramagnetism in melanins: pH dependence. *Archives of Biochemistry and Biophysics*, **1982**, 215, 100-6	4.1	65
199	An electron-electron double-resonance study of interactions between [14N]- and [15N]stearic acid spin-label pairs: lateral diffusion and vertical fluctuations in dimyristoylphosphatidylcholine. *Biochemistry*, **1984**, 23, 2293-9	3.2	64
198	Magnetic Resonance and Rapid Passage in Irradiated LiF. *Physical Review*, **1960**, 119, 1483-1492		64
197	Frequency-Swept Electron-Electron Double Resonance: DPPH in Liquid and Frozen Solution. *Journal of Chemical Physics*, **1969**, 51, 1404-1416	3.9	59
196	Three-dimensional dynamic structure of the liquid-ordered domain in lipid membranes as examined by pulse-EPR oxygen probing. *Biophysical Journal*, **2007**, 92, 1573-84	2.9	57
195	Q-band loop-gap resonator. *Review of Scientific Instruments*, **1986**, 57, 1095-1099	1.7	56
194	Simultaneous gradient-echo/spin-echo EPI of graded ischemia in human skeletal muscle. *Journal of Magnetic Resonance Imaging*, **1998**, 8, 1106-13	5.6	54
193	Direct evidence of nitrogen coupling in the copper(II) complex of bovine serum albumin by S-band electron spin resonance technique. *Journal of Inorganic Biochemistry*, **1985**, 25, 217-24	4.2	54
192	Intravoxel distribution of DWI decay rates reveals C6 glioma invasion in rat brain. *Magnetic Resonance in Medicine*, **2004**, 52, 994-1004	4.4	51
191	The quantitative measurement of rotational motion of the subfragment-1 region of myosin by saturation transfer epr spectroscopy. *Journal of Supramolecular Structure*, **1975**, 3, 376-90		51
190	Ligand ENDOR of Cu-8-Hydroxyquinolinate Substituted into Organic Single Crystals. *Journal of Chemical Physics*, **1969**, 50, 4532-4542	3.9	50
189	Oxygen permeability of thylakoid membranes: electron paramagnetic resonance spin labeling study. *Biochimica Et Biophysica Acta - Bioenergetics*, **1998**, 1365, 453-63	4.6	49
188	Ligand ENDOR of Cu-8-hydroxyquin-olinate Substituted into a Single Crystal and a Powder of Phthalimide. *Journal of Chemical Physics*, **1968**, 49, 2449-2451	3.9	49
187	Modeling of region-specific fMRI BOLD neurovascular response functions in rat brain reveals residual differences that correlate with the differences in regional evoked potentials. *NeuroImage*, **2008**, 41, 525-34	7.9	46

186	Characterization of the cerebral cortical representation of heartburn in GERD patients. *American Journal of Physiology - Renal Physiology*, **2004**, 286, G174-81	5.1	45
185	Molecular dynamics of 1-palmitoyl-2-oleoylphosphatidylcholine membranes containing transmembrane alpha-helical peptides with alternating leucine and alanine residues. *Biochemistry*, **2003**, 42, 3939-48	3.2	45
184	Spin-Label EPR T1 Values Using Saturation Recovery from 2 to 35 GHz *Journal of Physical Chemistry B*, **2004**, 108, 9524-9529	3.4	45
183	Binding and state of aggregation of spin-labeled cecropin AD in phospholipid bilayers: effects of surface charge and fatty acyl chain length. *Biochemistry*, **1994**, 33, 6691-9	3.2	45
182	Surface coil for MR imaging of the skin. *Magnetic Resonance in Medicine*, **1987**, 5, 456-61	4.4	45
181	Dispersion electron spin resonance with the loop-gap resonator. *Review of Scientific Instruments*, **1982**, 53, 1934-1937	1.7	45
180	Molecular and applied modulation effects in electron electron double resonance. IV. Stationary ELDOR of very slowly tumbling spin labels. *Journal of Chemical Physics*, **1975**, 62, 1655-1667	3.9	45
179	Contour-based registration technique to differentiate between task-activated and head motion-induced signal variations in fMRI. *Magnetic Resonance in Medicine*, **1997**, 38, 470-6	4.4	43
178	Echo-volume imaging. *Magnetic Resonance in Medicine*, **1994**, 32, 668-71	4.4	43
177	Quadrature detection surface coil. *Magnetic Resonance in Medicine*, **1987**, 4, 179-84	4.4	43
176	Pulsed eldor measurement of nitrogen T1 in spin labels. *Chemical Physics Letters*, **1984**, 110, 621-625	2.5	43
175	Electron-nuclear double resonance from flavin radicals in liquid and polycrystalline phase and conjugated to protein. *Biochimica Et Biophysica Acta - General Subjects*, **1969**, 192, 211-30	4	43
174	Dynamic and structural properties of polymerized phosphatidylcholine vesicle membranes. *Journal of the American Chemical Society*, **1983**, 105, 2975-2980	16.4	42
173	Temperature-dependent paramagnetism in melanin polymers. *Archives of Biochemistry and Biophysics*, **1980**, 199, 133-9	4.1	42
172	Conformational analysis of cyclopropyl groups attached to trigonal carbon in organic radicals. *Journal of the American Chemical Society*, **1969**, 91, 6666-6676	16.4	40
171	Membrane fluidity profiles as deduced by saturation-recovery EPR measurements of spin-lattice relaxation times of spin labels. *Journal of Magnetic Resonance*, **2011**, 212, 418-25	3	39
170	Saturation recovery EPR and ELDOR at W-band for spin labels. *Journal of Magnetic Resonance*, **2008** , 193, 297-304	3	39
169	Electron paramagnetic resonance detection by time-locked subsampling. *Review of Scientific Instruments*, **1998**, 69, 2622-2628	1.7	39

168	Saturation-transfer spectroscopy. *Methods in Enzymology*, **1978**, 49, 480-511	1.7	39
167	EPR relaxation of slowly moving flavin radicals: "anomalous" saturation. *Biochimica Et Biophysica Acta - General Subjects*, **1970**, 222, 688-92	4	39
166	Single-shot magnetic field mapping embedded in echo-planar time-course imaging. *Magnetic Resonance in Medicine*, **2003**, 50, 839-43	4.4	38
165	Counter rotating current local coils for high-resolution magnetic resonance imaging. *Magnetic Resonance in Medicine*, **1986**, 3, 590-603	4.4	37
164	ENDOR of biradicals. *Molecular Physics*, **1969**, 17, 457-471	1.7	37
163	Enhancing effects of flavored nutritive stimuli on cortical swallowing network activity. *American Journal of Physiology - Renal Physiology*, **2010**, 299, G422-9	5.1	36
162	Multipurpose EPR loop-gap resonator and cylindrical TE011 cavity for aqueous samples at 94 GHz. *Review of Scientific Instruments*, **2007**, 78, 034701	1.7	36
161	Concentration by centrifugation for gas exchange EPR oximetry measurements with loop-gap resonators. *Journal of Magnetic Resonance*, **2005**, 176, 244-8	3	36
160	Axially uniform resonant cavity modes for potential use in electron paramagnetic resonance spectroscopy. *Review of Scientific Instruments*, **2001**, 72, 4188-4200	1.7	36
159	A New Principle for Aqueous Sample Cells for EPR. *Review of Scientific Instruments*, **1972**, 43, 629-631	1.7	36
158	Dielectric microwave resonators in TE(011) cavities for electron paramagnetic resonance spectroscopy. *Review of Scientific Instruments*, **2008**, 79, 094702	1.7	35
157	Orientation and mobility of a copper square-planar complex in a lipid bilayer. *Journal of the American Chemical Society*, **1987**, 109, 46-52	16.4	35
156	Magnetic interactions between nitroxide free radicals and lanthanides or Cu2+ in liquids. *Journal of Chemical Physics*, **1978**, 68, 4439-4447	3.9	35
155	Saturation of the Magnetic Resonance Absorption in Dilute Inhomogeneously Broadened Systems. *Physical Review*, **1960**, 119, 1492-1495		35
154	The Spin-Probe-Spin-Label Method **1979**, 71-113		35
153	Strategies for block-design fMRI experiments during task-related motion of structures of the oral cavity. *NeuroImage*, **2006**, 29, 1260-71	7.9	34
152	Continuous wave multiquantum electron paramagnetic resonance spectroscopy. II. Spin-system generated intermodulation sidebands. *Journal of Chemical Physics*, **1991**, 94, 5907-5916	3.9	33
151	LOOP GAP RESONATORS **1989**, 277-305		33

150	Magnetic resonance imaging as an aid in the dynamic assessment of the velopharyngeal mechanism in children. *Plastic and Reconstructive Surgery*, **2008**, 122, 572-577	2.7	32
149	Multifrequency ESR with Fourier analysis of copper(II)-(histidine)n. 2. Mobile phase. *Inorganic Chemistry*, **1987**, 26, 801-805	5.1	32
148	Aggregation state of spin-labeled cecropin AD in solution. *Biochemistry*, **1993**, 32, 11895-902	3.2	31
147	Physiology of the Lower Eyelid Retractors. *Ophthalmic Plastic and Reconstructive Surgery*, **1994**, 10, 87-91	1.4	31
146	Continuous wave multi-quantum electron paramagnetic resonance spectroscopy. *Journal of Chemical Physics*, **1990**, 93, 3891-3898	3.9	31
145	Multifrequency ESR of copper(II)-(His)n (His = histidine). 1. Immobile phase. *Inorganic Chemistry*, **1986**, 25, 3006-3010	5.1	31
144	Powder ENDOR [electron nuclear double resonance] line shapes. Nuclear relaxation induced by motion of nearby electron spins. *The Journal of Physical Chemistry*, **1972**, 76, 2079-2087		31
143	Immobile- and mobile-phase ESR spectroscopy of copper complexes: studies on biologically interesting bis(thiosemicarbazonato)copper(II) chelates. *Inorganic Chemistry*, **1984**, 23, 3543-3548	5.1	30
142	Pulsed Electron-Electron Double Resonance in an S=12, I=12 System. *Physical Review Letters*, **1970**, 24, 672-674	7.4	30
141	Using spin-label W-band EPR to study membrane fluidity profiles in samples of small volume. *Journal of Magnetic Resonance*, **2013**, 226, 35-44	3	29
140	The Bruker lecture alternatives to field modulation in electron spin resonance spectroscopy. *Journal of the Chemical Society Faraday Transactions I*, **1989**, 85, 3901		29
139	Saturation recovery measurements of electron spin-lattice relaxation times of free radicals in solution. *Journal of Chemical Physics*, **1974**, 60, 1682-1683	3.9	29
138	Cerebral cortical representation of external anal sphincter contraction: effect of effort. *American Journal of Physiology - Renal Physiology*, **2004**, 286, G304-11	5.1	28
137	Continuous wave multiquantum electron paramagnetic resonance spectroscopy. III. Theory of intermodulation sidebands. *Journal of Chemical Physics*, **1993**, 98, 1786-1796	3.9	28
136	35-GHz (Q-band) saturation transfer electron paramagnetic resonance studies of rotational diffusion. *Biochemistry*, **1981**, 20, 2875-80	3.2	28
135	Electron paramagnetic resonance and electron-nuclear double resonance studies of phenoxyl radicals derived from substituted diphenylmethanes. *Journal of the American Chemical Society*, **1968**, 90, 4354-4361	16.4	28
134	Temporal evolution of the CBV-fMRI signal to rat whisker stimulation of variable duration and intensity: a linearity analysis. *NeuroImage*, **2005**, 26, 432-40	7.9	27
133	High resolution MR imaging of glomus tumor. *Journal of Computer Assisted Tomography*, **1987**, 11, 351-2	2.2	27

132	Electron-nuclear double resonance from flavin free radicals in NADPH dehydrogenase ("old yellow enzyme"). *Biochimica Et Biophysica Acta - Biomembranes*, **1968**, 167, 482-4	3.8	27
131	Detection of undistorted continuous wave (CW) electron paramagnetic resonance (EPR) spectra with non-adiabatic rapid sweep (NARS) of the magnetic field. *Journal of Magnetic Resonance*, **2011**, 211, 228-33	3	26
130	Refining the sensory and motor ratunculus of the rat upper extremity using fMRI and direct nerve stimulation. *Magnetic Resonance in Medicine*, **2007**, 58, 901-9	4.4	26
129	Bimodal loop-gap resonator. *Review of Scientific Instruments*, **1996**, 67, 1896-1904	1.7	26
128	Interactions of 14N:15N stearic acid spin-label pairs: effects of host lipid alkyl chain length and unsaturation. *Biochemistry*, **1987**, 26, 3850-5	3.2	26
127	Cavities with axially uniform fields for use in electron paramagnetic resonance. II. Free space generalization. *Review of Scientific Instruments*, **2002**, 73, 3027-3037	1.7	25
126	Noise correlation. *Magnetic Resonance in Medicine*, **1991**, 20, 36-47	4.4	25
125	Electron paramagnetic resonance Q-band bridge with GaAs field-effect transistor signal amplifier and low-noise Gunn diode oscillator. *Review of Scientific Instruments*, **1991**, 62, 2969-2975	1.7	25
124	Cross-correlation: an fMRI signal-processing strategy. *NeuroImage*, **2012**, 62, 848-51	7.9	24
123	W-band frequency-swept EPR. *Journal of Magnetic Resonance*, **2010**, 205, 93-101	3	24
122	Uniform radio frequency fields in loop-gap resonators for EPR spectroscopy. *Applied Magnetic Resonance*, **2007**, 31, 573-589	0.8	24
121	Spin-Label Saturation-Recovery Electron Spin Resonance Measurements of Oxygen Transport in Membranes*. *Zeitschrift Fur Physikalische Chemie*, **1987**, 153, 57-65	3.1	24
120	Molecular and applied modulation effects in electron electron double resonance. V. Passage effects in high resolution frequency and field swept ELDOR. *Journal of Chemical Physics*, **1975**, 62, 4332-4342	3.9	24
119	Aqueous flat-cells perpendicular to the electric field for use in electron paramagnetic resonance spectroscopy, II: design. *Journal of Magnetic Resonance*, **2005**, 172, 333-41	3	23
118	Q-band ESR studies on the origin of magnetic anisotropy in tetrahalogenated semiquinones. *Journal of Chemical Physics*, **1985**, 83, 6121-6127	3.9	23
117	Aqueous flat cells perpendicular to the electric field for use in electron paramagnetic resonance spectroscopy. *Journal of Magnetic Resonance*, **2003**, 165, 137-52	3	22
116	Localization of the cortical response to smiling using new imaging paradigms with functional magnetic resonance imaging. *Plastic and Reconstructive Surgery*, **2001**, 108, 1136-44	2.7	22
115	Planar-pair local coils for high-resolution magnetic resonance imaging, particularly of the temporomandibular joint. *Medical Physics*, **1986**, 13, 1-7	4.4	22

114	Elevation of copper nuclear quadrupole coupling in thio complexes by completion of the coordination sphere. *The Journal of Physical Chemistry*, **1983**, 87, 2509-2512		22
113	Frequency-Swept ElectronElectron Double Resonance: Separation of Overlapping Spectra in Irradiated Malonic Acid. *Journal of Chemical Physics*, **1968**, 48, 3824-3825	3.9	22
112	Microwave frequency modulation in CW EPR at W-band using a loop-gap resonator. *Journal of Magnetic Resonance*, **2007**, 185, 259-63	3	21
111	Multiquantum EPR spectroscopy of spin-labeled arrestin K267C at 35 GHz. *Biophysical Journal*, **2005**, 88, 3641-7	2.9	21
110	General method for adjusting the quality factor of EPR resonators. *Review of Scientific Instruments*, **1995**, 66, 4857-4865	1.7	21
109	Proton ENDOR [electron nuclear double resonance] of .gamma.-irradiated Y-type zeolites. *The Journal of Physical Chemistry*, **1972**, 76, 2087-2097		21
108	Use of high observing power in electron spin resonance saturation-recovery experiments in spin-labeled membranes. *Journal of Chemical Physics*, **1989**, 91, 6029-6035	3.9	20
107	Doubly tuned local coils for MRI and MRS at 1.5 T. *Magnetic Resonance in Medicine*, **1988**, 6, 253-64	4.4	20
106	EPR automatic frequency control circuit with field effect transistor (FET) microwave amplification. *Review of Scientific Instruments*, **1988**, 59, 1352-1356	1.7	20
105	Comparative electron-nuclear double resonance study of two flavoproteins. *FEBS Journal*, **1970**, 17, 539-43		20
104	Observation of Conformational Isomers by Electron Nuclear Double Resonance. *Journal of the American Chemical Society*, **1966**, 88, 4763-4764	16.4	20
103	Spin-label saturation-recovery EPR at W-band: applications to eye lens lipid membranes. *Journal of Magnetic Resonance*, **2011**, 212, 86-94	3	19
102	Multishot partial-k-space EPI for high-resolution fMRI demonstrated in a rat whisker barrel stimulation model at 3T. *Magnetic Resonance in Medicine*, **2003**, 50, 1215-22	4.4	19
101	Artifacts in functional magnetic resonance imaging from gaseous oxygen. *Journal of Magnetic Resonance Imaging*, **1995**, 5, 443-5	5.6	19
100	A proton relaxation enhancement investigation of the binding of fatty acid spin labels to human serum albumin. *Magnetic Resonance in Medicine*, **1986**, 3, 699-706	4.4	19
99	Study of molecular motions in liquids by electron spin relaxation: Halogenated p-semiquinone anions in alcohols. *Journal of Chemical Physics*, **1986**, 85, 6705-6712	3.9	19
98	Endor analysis of the triphenylphenoxyl radical. *The Journal of Physical Chemistry*, **1967**, 71, 68-73		19
97	Multifrequency ESR of Copper Biophysical Applications. *Biological Magnetic Resonance*, **1993**, 103-150	0.5	19

96	Cavities with axially uniform fields for use in electron paramagnetic resonance. III. Re-entrant geometries. *Review of Scientific Instruments*, **2002**, 73, 4003-4009	1.7	18
95	High-order coils as transmitters for NMR imaging. *Magnetic Resonance in Medicine*, **1986**, 3, 55-62	4.4	18
94	Inter-spin distance determination using L-band (1-2 GHz) non-adiabatic rapid sweep electron paramagnetic resonance (NARS EPR). *Journal of Magnetic Resonance*, **2012**, 221, 51-6	3	17
93	Coupling of Waveguide and Resonator by Inductive and Capacitive Irises for EPR Spectroscopy. *Applied Magnetic Resonance*, **2009**, 35, 285-318	0.8	17
92	A general purpose multiquantum electron paramagnetic resonance spectrometer. *Review of Scientific Instruments*, **1995**, 66, 4516-4528	1.7	17
91	Transhemispheric cortical plasticity following contralateral C7 nerve transfer: a rat functional magnetic resonance imaging survival study. *Journal of Hand Surgery*, **2013**, 38, 478-87	2.6	16
90	Pulse saturation recovery, pulse ELDOR, and free induction decay electron paramagnetic resonance detection using time-locked subsampling. *Review of Scientific Instruments*, **2001**, 72, 1837	1.7	16
89	Evulsion of the retina associated with optic nerve evulsion. *American Journal of Ophthalmology*, **1987**, 104, 5-9	4.9	16
88	Combined endor [electron-nuclear double resonance] and electron paramagnetic resonance techniques in a study of some low-symmetry triphenylmethyl derivatives. *The Journal of Physical Chemistry*, **1968**, 72, 4276-4284		15
87	Moving difference (MDIFF) non-adiabatic rapid sweep (NARS) EPR of copper(II). *Journal of Magnetic Resonance*, **2013**, 236, 15-25	3	14
86	Two-axis acceleration of functional connectivity magnetic resonance imaging by parallel excitation of phase-tagged slices and half k-space acceleration. *Brain Connectivity*, **2011**, 1, 81-90	2.7	14
85	Reproducibility of swallow-induced cortical BOLD positive and negative fMRI activity. *American Journal of Physiology - Renal Physiology*, **2012**, 303, G600-9	5.1	14
84	Depth dependence of the perturbing effect of placing a bulky group (oxazolidine ring spin labels) in the membrane on the membrane phase transition. *Biochimica Et Biophysica Acta - Biomembranes*, **1996**, 1278, 68-72	3.8	14
83	A microwave resonator for limiting depth sensitivity for electron paramagnetic resonance spectroscopy of surfaces. *Review of Scientific Instruments*, **2014**, 85, 104707	1.7	13
82	EPR of Cu2+ prion protein constructs at 2 GHz using the g(perpendicular) region to characterize nitrogen ligation. *Biophysical Journal*, **2009**, 96, 3354-62	2.9	13
81	Assessment of the ESR spectra of copper 3-ethoxy-2-oxobutyraldehyde bis(thiosemicarbazonate) complexes CuKTSM2. *Inorganic Chemistry*, **1987**, 26, 3945-3949	5.1	13
80	Spin-Hamiltonian input parameters in the EPR analysis of liquid phase copper complexes. *Journal of Chemical Physics*, **1984**, 81, 4849-4857	3.9	13
79	A Modulation Scheme for Powder ENDOR. *Review of Scientific Instruments*, **1970**, 41, 1598-1600	1.7	13

78	Double Quantum Transitions in Gas-Phase Electron Resonance. *Journal of Chemical Physics*, **1967**, 47, 4859-4860	3.9	13
77	Spin-label W-band EPR with seven-loop-six-gap resonator: Application to lens membranes derived from eyes of a single donor. *Applied Magnetic Resonance*, **2014**, 45, 1343-1358	0.8	12
76	The effect of magnetization transfer on functional MRI signals. *Magnetic Resonance in Medicine*, **1997**, 38, 187-92	4.4	12
75	Microwave leakage from field modulation slots in TE011 electron paramagnetic resonance cavities. *Review of Scientific Instruments*, **2005**, 76, 014702	1.7	12
74	Continuous wave multiquantum electron paramagnetic resonance spectroscopy. IV. Multiquantum electron–nuclear double resonance. *Journal of Chemical Physics*, **1993**, 99, 4975-4985	3.9	12
73	Simultaneous image acquisition from the head (or body) coil and a surface coil. *Magnetic Resonance in Medicine*, **1988**, 6, 235-9	4.4	12
72	Saturation recovery EPR spin-labeling method for quantification of lipids in biological membrane domains. *Applied Magnetic Resonance*, **2017**, 48, 1355-1373	0.8	11
71	Functional connectivity in rat brain at 200 μm resolution. *Brain Connectivity*, **2014**, 4, 470-80	2.7	11
70	Electron spin–lattice relaxation times of melanin. *Journal of Chemical Physics*, **1978**, 69, 1945-1948	3.9	11
69	SATURATION RECOVERY **1998**, 607-618		10
68	Gordon coupler for K-band EPR loop gap resonator. *Review of Scientific Instruments*, **1989**, 60, 389-391	1.7	10
67	Phase noise reduction of a 19 GHz veractor-tuned Gunn oscillator for electron paramagnetic resonance spectroscopy. *Review of Scientific Instruments*, **1990**, 61, 2248-2250	1.7	10
66	L-band parallel mode epr. measurement of quadrupole coupling through direct observation of secondary transitions. *Chemical Physics Letters*, **1986**, 124, 295-298	2.5	10
65	Electron-electron double resonance measurements on xanthine oxidase. *Biochimica Et Biophysica Acta - Biomembranes*, **1975**, 377, 205-10	3.8	10
64	Membranes. *Advances in Experimental Medicine and Biology*, **1998**, 399-408	3.6	10
63	Early evaluation of nerve regeneration after nerve injury and repair using functional connectivity MRI. *Neurorehabilitation and Neural Repair*, **2014**, 28, 707-15	4.7	9
62	Probehead with interchangeable loop-gap resonators and rf coils for multifrequency EPR/ENDOR. *Review of Scientific Instruments*, **1994**, 65, 63-67	1.7	9
61	MRI surface-coil pair with strong inductive coupling. *Review of Scientific Instruments*, **2016**, 87, 124704	1.7	9

60	Electron-Electron Double Resonance. *Biological Magnetic Resonance*, **1989**, 305-307	0.5	9
59	Rutile dielectric loop-gap resonator for X-band EPR spectroscopy of small aqueous samples. *Journal of Magnetic Resonance*, **2019**, 307, 106585	3	8
58	Restoring susceptibility induced MRI signal loss in rat brain at 9.4 T: A step towards whole brain functional connectivity imaging. *PLoS ONE*, **2015**, 10, e0119450	3.7	8
57	Cortical plasticity induced by different degrees of peripheral nerve injuries: a rat functional magnetic resonance imaging study under 9.4 Tesla. *Journal of Brachial Plexus and Peripheral Nerve Injury*, **2013**, 8, 4	1.5	8
56	High spatial resolution increases the specificity of block-design BOLD fMRI studies of overt vowel production. *NeuroImage*, **2008**, 41, 389-97	7.9	8
55	Cortical brain mapping of peripheral nerves using functional magnetic resonance imaging in a rodent model. *Journal of Reconstructive Microsurgery*, **2008**, 24, 551-7	2.5	8
54	Measurements of tissue T1 spin-lattice relaxation time and discrimination of large draining veins using transient EPI data sets in BOLD-weighted fMRI acquisitions. *NeuroImage*, **2006**, 32, 603-15	7.9	8
53	Momentum-weighted conjugate gradient descent algorithm for gradient coil optimization. *Magnetic Resonance in Medicine*, **2004**, 51, 158-64	4.4	8
52	Anterior segment high resolution MRI: aqueous humor dynamics observed using contrast agents. *Experimental Eye Research*, **1992**, 54, 145-8	3.7	8
51	Chapter 2 Electron spin resonance. *New Comprehensive Biochemistry*, **1985**, 69-148		8
50	Characterization of the distribution of spin-lattice relaxation rates of lipid spin labels in fiber cell plasma membranes of eye lenses with a stretched-exponential function. *Applied Magnetic Resonance*, **2019**, 50, 903-918	0.8	7
49	X-band low phase noise Gunn diode oscillator for EPR spectroscopy. *Review of Scientific Instruments* , **1992**, 63, 4010-4011	1.7	7
48	ESR parameters for cupric bleomycin in the mobilized state. *Journal of Biomolecular Structure and Dynamics*, **1984**, 2, 469-80	3.6	7
47	Interaction between low-affinity cupric ion and human methemoglobin. *Journal of Inorganic Biochemistry*, **1984**, 21, 125-36	4.2	7
46	Determination of the ESR Parameter B0 for the Isopropyl Group. *Journal of Chemical Physics*, **1971**, 54, 1834-1834	3.9	7
45	Extruded dielectric sample tubes of complex cross section for EPR signal enhancement of aqueous samples. *Journal of Magnetic Resonance*, **2017**, 277, 45-51	3	6
44	Spin-labeled small unilamellar vesicles with the -sensitive saturation-recovery EPR display as an oxygen sensitive analyte for measurement of cellular respiration. *Applied Magnetic Resonance*, **2015**, 46, 885-895	0.8	6
43	Spin-label CW microwave power saturation and rapid passage with triangular non-adiabatic rapid sweep (NARS) and adiabatic rapid passage (ARP) EPR spectroscopy. *Journal of Magnetic Resonance*, **2015**, 255, 68-76	3	6

42	Uniform field loop-gap resonator and rectangular TE for aqueous sample EPR at 94GHz. *Journal of Magnetic Resonance*, **2017**, 282, 129-135	3	6
41	EPR UNIFORM FIELD SIGNAL ENHANCEMENT BY DIELECTRIC TUBES IN CAVITIES. *Applied Magnetic Resonance*, **2017**, 48, 1185-1204	0.8	6
40	Electron paramagnetic resonance field-modulation eddy-current analysis of silver-plated graphite resonators. *Review of Scientific Instruments*, **2005**, 76, 094702	1.7	6
39	MULTIQUANTUM EPR **1998**, 741-757		6
38	Piezoelectric-controlled tuning capacitor for surface coils. *Magnetic Resonance in Medicine*, **1989**, 12, 50-5	4.4	6
37	The sectorial loop-gap resonator for 31P NMR of the adult human liver at 1.5 T with surface tissue suppression. *Magnetic Resonance in Medicine*, **1986**, 3, 76-89	4.4	6
36	1.5 T in vivo 31P NMR spectroscopy of the human liver using a sectorial resonator. *Magnetic Resonance in Medicine*, **1986**, 3, 135-9	4.4	6
35	ENDOR in Irradiated Adipic Acid Crystals at +25° and −80°C. *Journal of Chemical Physics*, **1965**, 42, 791-792	3.9	6
34	Broadband W-band Rapid Frequency Sweep Considerations for Fourier Transform EPR. *Cell Biochemistry and Biophysics*, **2017**, 75, 259-273	3.2	6
33	Electron Paramagnetic Resonance **1995**, 365-402		6
32	C7 nerve root sensory distribution in peripheral nerves: a bold functional magnetic resonance imaging investigation at 9.4 T. *Muscle and Nerve*, **2014**, 49, 40-6	3.4	5
31	EPR at work: Part 1. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2006**, 28A, 1-25	0.6	5
30	EPR AT VARIAN: 1954-1974 **1998**, 695-716		5
29	A complication in prescan strategy when using surface coils. *Magnetic Resonance in Medicine*, **1987**, 5, 318-22	4.4	5
28	Uniform Field Resonators for EPR Spectroscopy: A Review. *Cell Biochemistry and Biophysics*, **2019**, 77, 3-14	3.2	4
27	Direct radiofrequency phase control in MRI by digital waveform playback at the Larmor frequency. *Magnetic Resonance in Medicine*, **2014**, 71, 846-52	4.4	4
26	Long-term vascular access ports as a means of sedative administration in a rodent fMRI survival model. *Journal of Neuroscience Methods*, **2011**, 200, 106-12	3	4
25	Hyperfine selectivity using multiquantum electron–nuclear–electron triple resonance. *Journal of Chemical Physics*, **1996**, 104, 9644-9646	3.9	4

24	Noise correlation exists for independent rf coils. *Magnetic Resonance in Medicine*, **1992**, 25, 408	4.4	4
23	SPIN-PROBE□SPIN-LABEL INVESTIGATIONS OF MODEL MEMBRANES **1978**, 1253-1261		4
22	Multifrequency EPR: Experimental Considerations **2011**, 229-294		3
21	ELDOR SPECTROSCOPY **1998**, 577-586		3
20	Hyperbolic-cosine waveguide tapers and oversize rectangular waveguide for reduced broadband insertion loss in W-band electron paramagnetic resonance spectroscopy. II. Broadband characterization. *Review of Scientific Instruments*, **2016**, 87, 034704	1.7	3
19	A Model Study for Transport of Metallo-Drugs within Lipid Bilayers **1987**, 493-500		3
18	Axially uniform magnetic field-modulation excitation for electron paramagnetic resonance in rectangular and cylindrical cavities by slot cutting. *Journal of Magnetic Resonance*, **2017**, 274, 115-124	3	2
17	Separation of parallel encoded complex-valued slices (SPECS) from a single complex-valued aliased coil image. *Magnetic Resonance Imaging*, **2016**, 34, 359-69	3.3	2
16	A versatile Q-band electron paramagnetic resonance spectrometer **2004**,		2
15	Simultaneous assessment of flow and BOLD signals in resting-state functional connectivity maps **1997**, 10, 165		2
14	QUIPSS II with thin-slice TI1 periodic saturation: A method for improving accuracy of quantitative perfusion imaging using pulsed arterial spin labeling **1999**, 41, 1246		2
13	Comparison of simultaneously measured perfusion and BOLD signal increases during brain activation with T1-based tissue identification **2000**, 44, 137		2
12	Refining the sensory and motor ratunculus of the rodent upper extremity: evaluation of the C7 nerve root using fMRI and direct nerve stimulation. *Hand*, **2011**, 6, 194-201	1.4	1
11	Digit tapping model of functional activation in the rat somatosensory cortex. *Journal of Neuroscience Methods*, **2006**, 157, 48-53	3	1
10	Surface and Other Local Coils for In Vivo Studies **2007**,		1
9	Oriented Self-Association of Copper(II) Tetraphenylporphine in Liquid-Crystalline Lipid Bilayer Membranes:□An EPR Study. *Journal of the American Chemical Society*, **1999**, 121, 4054-4059	16.4	1
8	ELECTRON-NUCLEAR DOUBLE RESONANCE (ENDOR) FROM RANDOMLY ORIENTED BIOMOLECULES **1971**, 125-134		1
7	Dispersion EPR: Considerations for Low-Frequency Experiments.. *Applied Magnetic Resonance*, **2022** , 53, 193-206	0.8	1

6	BOLD fMRI AND fcMRI in the Pediatric Brachial Plexus Injury Population. *Plastic and Reconstructive Surgery*, **2014**, 134, 153-154	2.7
5	Autobiography of James S. Hyde. *Applied Magnetic Resonance*, **2017**, 48, 1103-1147	0.8
4	EPR at work: Part 2. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2006**, 28A, 26-50	0.6
3	EPR at work: Part 3. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2006**, 28A, 51-75	0.6
2	EPR at work: Part 4. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2006**, 28A, 76-100	0.6
1	Gordon Coupler with Inductive or Capacitive Iris for Small EPR Resonators for Aqueous Samples. *Applied Magnetic Resonance*,1	0.8