

Charles S Johnson Jr

List of Publications by Year in descending order

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53
papers

2,830
citations

218677

26
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

1890
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion-ordered two-dimensional nuclear magnetic resonance spectroscopy. <i>Journal of the American Chemical Society</i> , 1992, 114, 3139-3141.	13.7	662
2	Resolution of discrete and continuous molecular size distributions by means of diffusion-ordered 2D NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 1993, 115, 4291-4299.	13.7	341
3	Chemical Rate Processes and Magnetic Resonance. <i>Advances in Magnetic and Optical Resonance</i> , 1965, , 33-102.	1.7	256
4	Analysis of mixtures based on molecular size and hydrophobicity by means of diffusion-ordered 2D NMR. <i>Analytical Chemistry</i> , 1994, 66, 211-215.	6.5	163
5	Chemical Exchange in Diffusion NMR Experiments. <i>Journal of the American Chemical Society</i> , 1998, 120, 9094-9095.	13.7	83
6	Diffusion ordered 2D NMR spectroscopy of phospholipid vesicles: determination of vesicle size distributions. <i>The Journal of Physical Chemistry</i> , 1993, 97, 9064-9072.	2.9	81
7	Theory of line widths and shifts in Electron spin resonance arising from spin exchange interactions. <i>Molecular Physics</i> , 1967, 12, 25-31.	1.7	74
8	Magnetic Resonance Studies of Hyperfine Interactions in the Anion Radicals of Stilbene and Related Molecules. <i>Journal of Chemical Physics</i> , 1965, 43, 3183-3192.	3.0	67
9	On the Calculation of Nuclear Magnetic Resonance Spectra for Coupled Nuclear Spins in Intramolecular Reactions. <i>Journal of Chemical Physics</i> , 1964, 41, 3277-3278.	3.0	57
10	The temperature dependence of quantum mechanical tunneling effects in the nmr spectrum of a methyl group. <i>Chemical Physics Letters</i> , 1973, 22, 430-432.	2.6	55
11	Photon correlation spectroscopy in strongly absorbing and concentrated samples with applications to unliganded hemoglobin. <i>The Journal of Physical Chemistry</i> , 1980, 84, 756-767.	2.9	55
12	Diffusion of Water in Liquid and Supercritical Carbon Dioxide: An NMR Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1-3.	2.5	50
13	High-resolution electrophoretic NMR. <i>Journal of the American Chemical Society</i> , 1988, 110, 3332-3333.	13.7	49
14	Nuclear Transverse Relaxation in Electron Transfer Reactions. <i>Journal of Chemical Physics</i> , 1963, 39, 2111-2114.	3.0	43
15	Observation of Quantum Mechanical Tunneling Effects in the NMR Line Shape for a Methyl Group. <i>Journal of Chemical Physics</i> , 1971, 55, 5823-5825.	3.0	43
16	Magnetic Resonance Line Shapes in Solids: The Rotating Three-Spin Group. <i>Journal of Chemical Physics</i> , 1970, 52, 6224-6231.	3.0	40
17	Mobility ordered 2D-NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 1992, 114, 776-777.	13.7	40
18	Electrophoretic Nuclear Magnetic Resonance. <i>Advances in Magnetic and Optical Resonance</i> , 1989, 13, 131-159.	1.7	40

#	ARTICLE	IF	CITATIONS
19	Lecithin Inverse Microemulsions for the Pulmonary Delivery of Polar Compounds Utilizing Dimethylether and Propane as Propellants. <i>Pharmaceutical Development and Technology</i> , 2000, 5, 219-230.	2.4	38
20	Diffraction from multiple gratings in holographic relaxation spectroscopy: application to bovine serum albumin labeled with benzospiropyran. <i>The Journal of Physical Chemistry</i> , 1984, 88, 4010-4015.	2.9	36
21	Raman studies of rotational and vibrational relaxation in liquid fluoroform. <i>Journal of Chemical Physics</i> , 1975, 63, 422-426.	3.0	35
22	Proton spin lattice relaxation studies of reorienting methyl groups in solids. <i>Journal of Chemical Physics</i> , 1974, 60, 137-146.	3.0	34
23	Monte Carlo Calculation of Magnetic Resonance Spectra for Spins in Motion. <i>Journal of Chemical Physics</i> , 1968, 48, 534-536.	3.0	31
24	Direct Distinction between Ions and Ion Pairs in Electron-Transfer Reactions by Means of Electron Spin Resonance. <i>Journal of the American Chemical Society</i> , 1966, 88, 2338-2339.	13.7	29
25	ESR Studies of Electron Transfer: trans-Stilbene System. <i>Journal of Chemical Physics</i> , 1967, 46, 2314-2316.	3.0	28
26	The wave vector dependence of diffusion coefficients in photon correlation spectroscopy of protein solutions. <i>Journal of Chemical Physics</i> , 1981, 74, 2717-2720.	3.0	28
27	ESR Spectrum and Barrier to Internal Rotation for the Stilbene Anion Radical. <i>Journal of Chemical Physics</i> , 1964, 41, 3272-3274.	3.0	27
28	Effects of Electron Transfer on High-Resolution NMR Spectra. <i>Journal of Chemical Physics</i> , 1964, 40, 1744-1750.	3.0	26
29	Simultaneous measurement of vesicle diffusion coefficients and trapping efficiencies by means of diffusion ordered 2D NMR spectroscopy. <i>Chemistry and Physics of Lipids</i> , 1994, 69, 175-178.	3.2	25
30	NMR and SANS Studies of Aggregation and Microemulsion Formation by Phosphorus Fluorosurfactants in Liquid and Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10261-10269.	2.6	25
31	NMR Studies of Water Transport and Proton Exchange in Water-in-Carbon Dioxide Microemulsions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1962-1968.	2.6	23
32	Experimental evidence that mutual and tracer diffusion coefficients for hemoglobin are not equal. <i>Journal of Chemical Physics</i> , 1980, 72, 4251-4253.	3.0	22
33	Diffusion of Block Copolymers in Liquid CO ₂ : Evidence of Self-Assembly from Pulsed Field Gradient NMR. <i>Journal of the American Chemical Society</i> , 1998, 120, 9390-9391.	13.7	22
34	Magnetic Resonance Line Shapes in Solids. II. Molecular Motion in Methyl Chloroform and Methyl Trichlorosilane. <i>Journal of Chemical Physics</i> , 1971, 55, 345-352.	3.0	19
35	Lecithin Microemulsions in Dimethyl Ether and Propane for the Generation of Pharmaceutical Aerosols Containing Polar Solutes. <i>Pharmaceutical Development and Technology</i> , 2002, 7, 273-288.	2.4	17
36	The effects of H ₁ inhomogeneity on T ₁ measurements. <i>Journal of Magnetic Resonance</i> , 1972, 7, 55-59.	0.5	15

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37	Errors in the Measurement of Electron Transfer Rates by Means of Electron Spin Resonance. Journal of Chemical Physics, 1969, 50, 4420-4424.	3.0	14
38	Intermediate resolution NMR spectra of solids by means of magnetic dilution. Chemical Physics Letters, 1970, 4, 585-586.	2.6	14
39	The effect of torsional vibrations on the minimum value of T1 for methyl protons in solids. Journal of Magnetic Resonance, 1976, 24, 63-70.	0.5	14
40	Tracer diffusion coefficients of oxyhemoglobin a and oxyhemoglobin s in blood cells as determined by pulsed field gradient NMR. Biophysical Chemistry, 1982, 16, 241-245.	2.8	13
41	Two-dimensional electrophoretic NMR for the measurement of mobilities and diffusion in mixtures. Journal of Magnetic Resonance, 1989, 81, 435-439.	0.5	11
42	Pulsed field gradient nmr determination of the temperature dependence of the tracer diffusion coefficient of hemoglobin. Biopolymers, 1982, 21, 2049-2054.	2.4	10
43	Tracer diffusion coefficients of proteins by means of holographic relaxation spectroscopy: Application to bovine serum albumin. Analytical Biochemistry, 1985, 146, 265-270.	2.4	10
44	Transport Ordered 2D-NMR Spectroscopy. , 1994, , 455-488.		10
45	Magnetic resonance line shapes in solids. III. Methyl group tunneling in low temperature glasses. Journal of Chemical Physics, 1974, 61, 1078-1081.	3.0	9
46	Stimulated echo electrophoretic NMR. Journal of Magnetic Resonance, 1989, 85, 181-185.	0.5	9
47	The determination of tracer diffusion coefficients for proteins by means of pulsed field gradient NMR with applications to hemoglobin. Journal of Magnetic Resonance, 1982, 48, 466-474.	0.5	8
48	Selective deuteration and the anomalous temperature dependence of proton spin-lattice relaxation in polycrystalline p-tert-butyltoluene. Journal of Chemical Physics, 1978, 69, 2882.	3.0	6
49	NMR line shapes for a tunneling two proton system: A model for the CH2D group. Journal of Chemical Physics, 1973, 59, 623-627.	3.0	5
50	Some comments on the calculation of NMR line shapes for exchanging AB spin systems. Journal of Magnetic Resonance, 1969, 1, 98-104.	0.5	4
51	Measurement of mobility distributions for vesicles by electrophoretic NMR. Journal of Magnetic Resonance, 1991, 91, 654-658.	0.5	4
52	Quantum mechanical tunneling in NMR: Effects of a potential barrier having sixfold symmetry on the spectrum of a methyl group. Journal of Chemical Physics, 1973, 59, 4478-4485.	3.0	3
53	Proton spin-lattice relaxation in polycrystalline CH3SiCl3, CH3GeCl3, and CH3SnCl3. Journal of Magnetic Resonance, 1977, 28, 377-381.	0.5	2