

# Peter Stilbs

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10519133/publications.pdf>

Version: 2024-02-01

100  
papers

5,864  
citations

87723

38  
h-index

74018

75  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3153  
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR Studies of Polymer-Surfactant Systems. , 2020, , 239-266.		2
2	2. Basic concepts. , 2019, , 30-99.		0
3	6. Data preparation, evaluation and presentation. , 2019, , 195-249.		0
4	8. Electrophoretic NMR (eNMR). , 2019, , 266-302.		0
5	5. Nonobvious pitfalls and other potentially confusing elements in PGSE studies. , 2019, , 175-194.		0
6	Historical: early multi-component FT-CPGSE NMR self-diffusion measurements – some personal reflections. Magnetic Resonance in Chemistry, 2017, 55, 386-394.	1.1	7
7	Diffusion Studied Using NMR Spectroscopy. , 2017, , 409-414.		0
8	The First Study of Cartilage by Magnetic Resonance. Cartilage, 2016, 7, 293-297.	1.4	1
9	Binding of Monovalent and Multivalent Metal Cations to Polyethylene Oxide in Methanol Probed by Electrophoretic and Diffusion NMR. Journal of Physical Chemistry B, 2016, 120, 10358-10366.	1.2	25
10	Ion association in aqueous and non-aqueous solutions probed by diffusion and electrophoretic NMR. Physical Chemistry Chemical Physics, 2015, 17, 3402-3408.	1.3	35
11	Steady state effects in a two-pulse diffusion-weighted sequence. Journal of Chemical Physics, 2015, 142, 154201.	1.2	7
12	Automated CORE, RECORD, and GRECORD processing of multi-component PGSE NMR diffusometry data. European Biophysics Journal, 2013, 42, 25-32.	1.2	19
13	Chemiluminescence of phthalhydrazide derivatives in organized media: Interactions with surfactants and cyclodextrins. Journal of Luminescence, 2011, 131, 662-668.	1.5	6
14	RECORD processing – A robust pathway to component-resolved HR-PGSE NMR diffusometry. Journal of Magnetic Resonance, 2010, 207, 332-336.	1.2	19
15	Spectral deconvolution of NMR cross polarization data sets. Solid State Nuclear Magnetic Resonance, 2009, 35, 208-213.	1.5	5
16	Ion Pairing in Ethanol/Water Solution Probed by Electrophoretic and Diffusion NMR. Journal of the American Chemical Society, 2009, 131, 13900-13901.	6.6	29
17	Sensitive and robust electrophoretic NMR: Instrumentation and experiments. Journal of Magnetic Resonance, 2008, 192, 69-77.	1.2	45
18	Molecular Complexation and Binding Studied by Electrophoretic NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 7550-7551.	6.6	14

#	ARTICLE	IF	CITATIONS
19	A PGSE diffusion and electrophoretic NMR study of Cs <sup>+</sup> and Na <sup>+</sup> dynamics in aqueous crown ether systems. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 152-156.	1.1	14
20	Mixed Micelles of Fluorinated and Hydrogenated Surfactants. <i>Journal of the American Chemical Society</i> , 2006, 128, 6704-6712.	6.6	54
21	Mixed Adsorption of Fluorinated and Hydrogenated Surfactants. <i>Langmuir</i> , 2006, 22, 7969-7974.	1.6	12
22	Micellar Kinetics of a Fluorosurfactant through Stopped-Flow NMR. <i>Langmuir</i> , 2006, 22, 2002-2004.	1.6	6
23	Electrophoretic NMR. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 3-6.	3.4	24
24	On experimental aspects of electrophoretic NMR. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2004, 22A, 61-68.	0.2	37
25	NMR studies of surfactants. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2004, 23A, 121-135.	0.2	144
26	Component-Resolved Diffusion in Multicomponent Mixtures. A Case Study of High-Field PGSE NMR Self-Diffusion Measurements in Asphaltene/Naphthenic Acid/Solvent Systems. <i>Energy &amp; Fuels</i> , 2004, 18, 531-538.	2.5	12
27	Surfactant/Nonionic Polymer Interaction. A NMR Diffusometry and NMR Electrophoretic Investigation. <i>Langmuir</i> , 2004, 20, 1138-1143.	1.6	70
28	On the Self-Assembly of Monoolein in Mixtures of Water and a Polar Aprotic Solvent. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2311-2318.	1.2	26
29	Electrophoretic Nuclear Magnetic Resonance (ENMR) A New Tool for Studying Counterion Binding in Mixed Surfactant Systems. <i>Langmuir</i> , 2003, 19, 8605-8607.	1.6	17
30	Characterization Mesoscale Structure and Phenomena in Fluids Using NMR. <i>ACS Symposium Series</i> , 2003, , 27-43.	0.5	1
31	Amphiphilic Polymer Gel Electrolytes. 4. Ion Transport and Dynamics As Studied by Multinuclear Pulsed Field Gradient Spin-Echo NMR. <i>Macromolecules</i> , 2002, 35, 5097-5104.	2.2	16
32	PGSE-WATERGATE, a new tool for NMR diffusion-based studies of ligand-macromolecule binding. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, 391-395.	1.1	75
33	NMR self diffusion measurements of the Monooleoylglycerol/Poly ethylene glycol/water L3 phase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 26, 21-29.	2.5	15
34	Heat-Set Bovine Serum Albumin <sup>22</sup> Sodium Dodecyl Sulfate Gels Studied by Fluorescence Probe Methods, NMR, and Light Scattering. <i>Langmuir</i> , 2001, 17, 3208-3215.	1.6	65
35	Macroscopic Background Gradient and Radiation Damping Effects on High-Field PGSE NMR Diffusion Measurements. <i>Journal of Magnetic Resonance</i> , 2001, 150, 49-56.	1.2	52
36	Diffusion Studied Using NMR Spectroscopy. , 1999, , 369-375.		1

#	ARTICLE	IF	CITATIONS
37	Diffusion Studied Using NMR Spectroscopy*. , 1999, , 423-428.		1
38	Component Separation in NMR Imaging and Multidimensional Spectroscopy through Global Least-Squares Analysis, Based on Prior Knowledge. Journal of Magnetic Resonance, 1998, 135, 236-241.	1.2	26
39	Using End-Confined Chains To Model End-Absorbing, Triblock Copolymers:Â 2. Numerical Approachâ€. Macromolecules, 1998, 31, 9033-9043.	2.2	18
40	Molecular motion and solvation of benzene in water, carbon tetrachloride, carbon disulfide and benzene: A combined molecular dynamics simulation and nuclear magnetic resonance study. Journal of Chemical Physics, 1998, 108, 455-468.	1.2	62
41	NMR â€œdiffusion-diffractionâ€•of water revealing alignment of erythrocytes in a magnetic field and their dimensions and membrane transport characteristics. Magnetic Resonance in Medicine, 1997, 37, 637-643.	1.9	134
42	Global leastâ€squares analysis of large, correlated spectral data sets and application to chemical kinetics and timeâ€resolved fluorescence. Review of Scientific Instruments, 1996, 67, 4380-4386.	0.6	61
43	Water Self-Diffusion in Aqueous Associative Polymer Solutions. The Journal of Physical Chemistry, 1996, 100, 6691-6697.	2.9	9
44	1H NMR Self-Diffusion and Multifield 2H Spin Relaxation Study of Model Associative Polymer and Sodium Dodecyl Sulfate Aggregation in Aqueous Solution. The Journal of Physical Chemistry, 1994, 98, 6359-6367.	2.9	65
45	NMR studies of complex surfactant systems. Progress in Nuclear Magnetic Resonance Spectroscopy, 1994, 26, 445-482.	3.9	310
46	Analysis of mixtures based on molecular size and hydrophobicity by means of diffusion-ordered 2D NMR. Analytical Chemistry, 1994, 66, 211-215.	3.2	163
47	Molecular Mobility and Order of Didodecyldimethylammonium Chloride Adsorbed on Silica Particles from 2H Nuclear Spin Relaxation. Langmuir, 1994, 10, 890-898.	1.6	12
48	A hydrogen-2 NMR study of two cationic surfactants adsorbed on silica particles. Langmuir, 1993, 9, 2024-2034.	1.6	48
49	Chain conformation of ionic surfactants adsorbed on solid surfaces from carbon-13 NMR chemical shifts. Langmuir, 1993, 9, 1678-1683.	1.6	46
50	Localized interaction of the polyamine methylspermidine with double-helical DNA as monitored by proton NMR self-diffusion measurements. Biochemistry, 1993, 32, 961-967.	1.2	20
51	Associative thickeners: NMR self-diffusion and rheology studies of aqueous solutions of hydrophobically modified poly(oxyethylene) polymers. The Journal of Physical Chemistry, 1993, 97, 8336-8342.	2.9	83
52	Aggregation of poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide) triblock copolymers in the presence of sodium dodecyl sulfate in aqueous solution. The Journal of Physical Chemistry, 1991, 95, 5677-5684.	2.9	185
53	Aggregation in tetraalkylammonium dodecanoate systems. Colloids and Surfaces, 1991, 59, 387-397.	0.9	34
54	An NMR investigation of adsorbed 2H-labeled surfactants at the solid/water interface. Journal of Colloid and Interface Science, 1991, 143, 586-588.	5.0	26

#	ARTICLE	IF	CITATIONS
55	Molecular dynamics and NMR study of methane-water systems. <i>Molecular Physics</i> , 1991, 74, 747-764.	0.8	65
56	Orientational order and dynamics of a micellarly-associated organic counterion. <i>The Journal of Physical Chemistry</i> , 1989, 93, 1448-1451.	2.9	18
57	NMR study of organic counterion binding and micellization of decylammonium dicarboxylate surfactants. <i>The Journal of Physical Chemistry</i> , 1989, 93, 6458-6463.	2.9	18
58	Microstructure and Molecular Dynamics of Surfactant Solutions: an Overview of NMR Self-Diffusion and Relaxation Studies. , 1989, , 1-24.		5
59	Comment on the paper, "Solubilization of heptanols and 1,2-alkanediols in aqueous solution of sodium dodecyl sulfate". <i>Journal of Colloid and Interface Science</i> , 1988, 122, 593-596.	5.0	4
60	Organic counterion binding to micelles. Effects of counterion structure on micellar aggregation and counterion binding and location. <i>The Journal of Physical Chemistry</i> , 1987, 91, 113-116.	2.9	61
61	Fourier transform pulsed-gradient spin-echo studies of molecular diffusion. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1987, 19, 1-45.	3.9	1,328
62	<sup>1</sup> H, <sup>7</sup> Li and <sup>133</sup> Cs multicomponent self-diffusion NMR study on ion binding of Li <sup>+</sup> and Cs <sup>+</sup> to nucleotides and aggregation of nucleotides in aqueous solution. <i>Biophysical Chemistry</i> , 1986, 24, 61-69.	1.5	1
63	Counterion self-diffusion in aqueous solutions of poly(acrylic acid) and poly(methacrylic acid). <i>The Journal of Physical Chemistry</i> , 1985, 89, 2425-2428.	2.9	13
64	Concentration and molecular weight dependence of counterion self-diffusion in aqueous poly(acrylic acid) solution. <i>The Journal of Physical Chemistry</i> , 1985, 89, 3502-3505.	2.9	11
65	NMR relaxation in isotropic surfactant systems. A deuterium, carbon-13, and nitrogen-14 NMR study of the micellar (L1) and cubic (I1) phases in the dodecyltrimethylammonium chloride water system. <i>The Journal of Physical Chemistry</i> , 1985, 89, 3693-3701.	2.9	106
66	A multicomponent self-diffusion NMR study of aggregation of nucleotides, nucleosides, nucleic acid bases and some derivatives in aqueous solution with divalent metal ions added. <i>Biophysical Chemistry</i> , 1985, 22, 65-75.	1.5	25
67	Nucleotide aggregation in aqueous solution. <i>Biophysical Chemistry</i> , 1985, 21, 145-156.	1.5	43
68	Solubilization in sodium perfluorooctanoate micelles: A multicomponent self-diffusion study. <i>Journal of Colloid and Interface Science</i> , 1985, 103, 332-336.	5.0	33
69	The proton-deuteron isotope effect on micellar solubilization: A multicomponent self-diffusion investigation. <i>Journal of Colloid and Interface Science</i> , 1985, 104, 489-499.	5.0	28
70	Counterion self diffusion in polystyrenesulfonate solutions. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1985, 6, 163-168.	1.1	10
71	Migration and self-diffusion of divalent counterions in micellar solutions containing mainly monovalent counterions. <i>The Journal of Physical Chemistry</i> , 1985, 89, 2666-2671.	2.9	12
72	A comparative study of organic counterion binding to micelles with the Fourier transform NMR self-diffusion technique. <i>The Journal of Physical Chemistry</i> , 1985, 89, 4868-4873.	2.9	60

#	ARTICLE	IF	CITATIONS
73	Macroscopic counterion diffusion in solutions of cylindrical polyelectrolytes. The Journal of Physical Chemistry, 1985, 89, 3385-3391.	2.9	54
74	The composition of mixed micelles of fluorocarbon and hydrocarbon surfactants as derived from nuclear magnetic resonance self-diffusion measurements. The Journal of Physical Chemistry, 1984, 88, 4410-4414.	2.9	80
75	Micellar dynamics and organization. A multifold carbon-13 NMR spin-lattice relaxation and {proton} carbon-13 nuclear Overhauser effect study. The Journal of Physical Chemistry, 1984, 88, 1655-1662.	2.9	80
76	Aerosol OT aggregation in water and hydrocarbon solution from NMR self-diffusion measurements. Journal of Colloid and Interface Science, 1984, 99, 290-293.	5.0	46
77	Self-diffusion of small molecules in cellulose gels using FT-pulsed field gradient NMR. Journal of Applied Polymer Science, 1984, 29, 823-827.	1.3	19
78	Vesicle membrane-water partition coefficients determined from Fourier transform pulsed-gradient spin-echo NMR based self-diffusion data. Application to anesthetic binding in tetracaine-phosphatidylcholine-water systems. Chemistry and Physics of Lipids, 1984, 35, 309-314.	1.5	24
79	Micelle formation of anionic and cationic surfactants from Fourier transform proton and lithium-7 nuclear magnetic resonance and tracer self-diffusion studies. The Journal of Physical Chemistry, 1984, 88, 5048-5057.	2.9	167
80	Phase diagrams and self-diffusion behavior in ionic microemulsion systems containing different cosurfactants. The Journal of Physical Chemistry, 1984, 88, 5420-5425.	2.9	40
81	Friction coefficients in self-diffusion, velocity sedimentation, and mutual diffusion for poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over	1.0	29
82	Substrate binding to cyclodextrins in aqueous solution: A multicomponent self-diffusion study. Journal of Inclusion Phenomena, 1983, 1, 159-167.	0.6	83
83	Self-diffusion of poly(ethylene oxide) in aqueous dextran solutions measured using FT-pulsed field gradient n.m.r.. Polymer, 1983, 24, 188-192.	1.8	26
84	Effect of alcohol cosurfactant length on microemulsion structure. Journal of Colloid and Interface Science, 1983, 95, 583-585.	5.0	100
85	A comparative study of micellar solubilization for combinations of surfactants and solubilizes using the fourier transform pulsed-gradient spin-echo NMR multicomponent self-diffusion technique. Journal of Colloid and Interface Science, 1983, 94, 463-469.	5.0	97
86	Fourier transform carbon-13 relaxation and self-diffusion studies of microemulsions. Faraday Discussions of the Chemical Society, 1983, 76, 317-329.	2.2	38
87	Fourier-transform nuclear magnetic resonance measurements of self-diffusion in the 1,1,2,2-tetrabromoethane + n-alkylbenzene system. Comment on approximate hydrodynamic models for the interpretation of diffusion data. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 1351.	1.0	3
88	Micellar fluidity. A deuterium nuclear magnetic resonance spin relaxation study of the anisotropic reorientation of solubilized trans-Decalin-d18. The Journal of Physical Chemistry, 1983, 87, 4762-4769.	2.9	23
89	Size and shape of nonionic amphiphile (C12E6) micelles in dilute aqueous solutions as derived from quasielastic and intensity light scattering, sedimentation, and pulsed-field-gradient nuclear magnetic resonance self-diffusion data. The Journal of Physical Chemistry, 1983, 87, 4548-4553.	2.9	131
90	On the solution conformation of poly(ethylene oxide). An FT-pulsed field gradient n.m.r. self-diffusion study. Polymer, 1982, 23, 1780-1784.	1.8	18

#	ARTICLE	IF	CITATIONS
91	Micellar breakdown by short-chain alcohols. A multicomponent FT-PGSE-NMR self-diffusion study. <i>Journal of Colloid and Interface Science</i> , 1982, 89, 547-554.	5.0	85
92	Fourier transform NMR pulsed-gradient spin-echo (FT-PGSE) self-diffusion measurements of solubilization equilibria in SDS solutions. <i>Journal of Colloid and Interface Science</i> , 1982, 87, 385-394.	5.0	260
93	FT NMR self-diffusion for the study of counterion binding in polyelectrolyte solutions. <i>Journal of Magnetic Resonance</i> , 1982, 48, 132-137.	0.5	6
94	Determination of organic counterion binding to micelles through Fourier transform NMR self-diffusion measurements. <i>The Journal of Physical Chemistry</i> , 1981, 85, 2587-2589.	2.9	92
95	Solubilization equilibria determined through fourier transform NMR self-diffusion measurements. <i>Journal of Colloid and Interface Science</i> , 1981, 80, 608-610.	5.0	40
96	Fourier transform nmr self-diffusion and microemulsion structure. <i>Journal of Colloid and Interface Science</i> , 1981, 83, 569-582.	5.0	170
97	Dynamics of macromolecular chains. <sup>13</sup> C spin relaxation study of short-chain polystyrenes in deuterio-chloroform solution. <i>Polymer</i> , 1981, 22, 321-326.	1.8	7
98	Molecular self-diffusion coefficients in Fourier transform nuclear magnetic resonance spectrometric analysis of complex mixtures. <i>Analytical Chemistry</i> , 1981, 53, 2135-2137.	3.2	114
99	Counterion binding in surfactant systems. Electron spin relaxation of the vanadyl ion. <i>Journal of Colloid and Interface Science</i> , 1977, 60, 232-241.	5.0	16
100	Counterion mobility in micellar solutions from electron spin relaxation. <i>Journal of Colloid and Interface Science</i> , 1974, 46, 177-179.	5.0	14