

David A Keire

List of Publications by Year in descending order

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120
papers

2,922
citations

147726

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214721

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121
all docs

121
docs citations

121
times ranked

2885
citing authors

#	ARTICLE	IF	CITATIONS
1	International Regulatory Collaboration on the Analysis of Nitrosamines in Metformin-Containing Medicines. AAPS Journal, 2022, 24, 56.	2.2	15
2	Minor N-Glycan Mapping of Monoclonal Antibody Therapeutics Using Middle-Down NMR Spectroscopy. Molecular Pharmaceutics, 2021, 18, 441-450.	2.3	9
3	A Real-Time NMR Method for Measurement of In Vitro Aggregation Kinetics Of Degarelix Drug Products. AAPS PharmSciTech, 2021, 22, 73.	1.5	2
4	In Vitro Analysis of N-Nitrosodimethylamine (NDMA) Formation From Ranitidine Under Simulated Gastrointestinal Conditions. JAMA Network Open, 2021, 4, e2118253.	2.8	14
5	NMR Spectroscopy for Protein Higher Order Structure Similarity Assessment in Formulated Drug Products. Molecules, 2021, 26, 4251.	1.7	11
6	Effect of Oral Ranitidine on Urinary Excretion of N-Nitrosodimethylamine (NDMA). JAMA - Journal of the American Medical Association, 2021, 326, 240.	3.8	21
7	Risk of N-Nitrosodimethylamine (NMDA) Formation With Ranitidine. JAMA - Journal of the American Medical Association, 2021, 326, 2077.	3.8	2
8	One- and two-dimensional NMR techniques. , 2020, , 375-430.		0
9	Raman mapping of fentanyl transdermal delivery systems with off-label modifications. Analyst, The, 2020, 145, 953-962.	1.7	7
10	Eliminating Spiked Bovine Spongiform Encephalopathy Agent Activity from Heparin. Emerging Infectious Diseases, 2020, 26, 2478-2480.	2.0	4
11	Processing bovine intestinal mucosa to active heparin removes spiked BSE agent. Biologicals, 2020, 67, 56-61.	0.5	4
12	Sedimentation Velocity Analytical Ultracentrifugation Analysis of Marketed Rituximab Drug Product Size Distribution. Pharmaceutical Research, 2020, 37, 238.	1.7	1
13	An NMR Protocol for In Vitro Paclitaxel Release from an Albumin-Bound Nanoparticle Formulation. AAPS PharmSciTech, 2020, 21, 136.	1.5	6
14	Multiplexed Comparative Analysis of Intact Glycopeptides Using Electron-Transfer Dissociation and Synchronous Precursor Selection Based Triple-Stage Mass Spectrometry. Analytical Chemistry, 2020, 92, 7547-7555.	3.2	11
15	An NMR-Based Similarity Metric for Higher Order Structure Quality Assessment Among U.S. Marketed Insulin Therapeutics. Journal of Pharmaceutical Sciences, 2020, 109, 1519-1528.	1.6	16
16	Assessment of risk of variant creutzfeldtâ€”jakob disease (vCJD) from use of bovine heparin. Pharmacoepidemiology and Drug Safety, 2020, 29, 575-581.	0.9	3
17	A Cautionary Tale: Quantitative LC-HRMS Analytical Procedures for the Analysis of N-Nitrosodimethylamine in Metformin. AAPS Journal, 2020, 22, 89.	2.2	41
18	Editorial: Heparin and Related Polysaccharides. Frontiers in Medicine, 2020, 7, 211.	1.2	1

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19	1D and 2D-HSQC NMR: Two Methods to Distinguish and Characterize Heparin From Different Animal and Tissue Sources. <i>Frontiers in Medicine</i> , 2019, 6, 142.	1.2	14
20	Screening of Polysorbate-80 Composition by High Resolution Mass Spectrometry with Rapid H/D Exchange. <i>Analytical Chemistry</i> , 2019, 91, 14649-14656.	3.2	15
21	Particle Size Distribution Analysis of OTC Aerosol or Powder Drug Products With Potential for Inadvertent Inhalation Exposure to Consumers. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1506-1511.	1.6	2
22	Analytical Tools for Physicochemical Characterization and Fingerprinting. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2019, , 91-113.	0.2	1
23	The impact of standard accelerated stability conditions on antibody higher order structure as assessed by mass spectrometry. <i>MAbs</i> , 2019, 11, 930-941.	2.6	17
24	An in vitro approach for evaluating the oral abuse deterrence of solid oral extended-release opioids with properties intended to deter abuse via chewing. <i>International Journal of Pharmaceutics</i> , 2019, 561, 305-313.	2.6	5
25	Manufacturing Heparin with Equivalent Chemical Composition from Different Animal Sources. <i>Thrombosis and Haemostasis</i> , 2019, 119, 688-688.	1.8	4
26	Enabling adoption of 2D-NMR for the higher order structure assessment of monoclonal antibody therapeutics. <i>MAbs</i> , 2019, 11, 94-105.	2.6	67
27	A Simple and Noninvasive DOSY NMR Method for Droplet Size Measurement of Intact Oil-in-Water Emulsion Drug Products. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 815-820.	1.6	15
28	Effects of Dissolution Medium pH and Simulated Gastrointestinal Contraction on Drug Release From Nifedipine Extended-Release Tablets*. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1189-1194.	1.6	12
29	Application of Ultra-Centrifugation and Bench-Top ¹⁹ F NMR for Measuring Drug Phase Partitioning for the Ophthalmic Oil-in-Water Emulsion Products. <i>AAPS PharmSciTech</i> , 2018, 19, 1647-1651.	1.5	10
30	Chemometric Methods to Quantify 1D and 2D NMR Spectral Differences Among Similar Protein Therapeutics. <i>AAPS PharmSciTech</i> , 2018, 19, 1011-1019.	1.5	20
31	Development of methods for data quantitation of spiked salmon host cell DNA in protamine sulfate by qPCR. <i>Data in Brief</i> , 2018, 21, 644-652.	0.5	0
32	A General LC-MS/MS Method for Monitoring Potential β -Lactam Contamination in Drugs and Drug-Manufacturing Surfaces. <i>AAPS Journal</i> , 2018, 20, 70.	2.2	4
33	Novel Immunoassay for Complement Activation by PF4/Heparin Complexes. <i>Thrombosis and Haemostasis</i> , 2018, 118, 1484-1487.	1.8	7
34	Comparative Evaluation of U.S. Brand and Generic Intravenous Sodium Ferric Gluconate Complex in Sucrose Injection: Physicochemical Characterization. <i>Nanomaterials</i> , 2018, 8, 25.	1.9	15
35	Rational Selection, Criticality Assessment, and Tiering of Quality Attributes and Test Methods for Analytical Similarity Evaluation of Biosimilars. <i>AAPS Journal</i> , 2018, 20, 68.	2.2	34
36	Quantitation of residual host cell DNA in protaminesulfate drug product by qPCR. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 160, 238-243.	1.4	3

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37	Chemical Structure and Composition of Major Glycans Covalently Linked to Therapeutic Monoclonal Antibodies by Middle-Down Nuclear Magnetic Resonance. <i>Analytical Chemistry</i> , 2018, 90, 11016-11024.	3.2	28
38	A Heparin Purification Process Removes Spiked Transmissible Spongiform Encephalopathy Agent. <i>AAPS Journal</i> , 2017, 19, 765-771.	2.2	17
39	A LC-MS All-in-One Workflow for Site-Specific Location, Identification and Quantification of N-/O-Glycosylation in Human Chorionic Gonadotropin Drug Products. <i>AAPS Journal</i> , 2017, 19, 846-855.	2.2	16
40	InÂVitro Evaluation of Nasogastric Tube Delivery Performance of Esomeprazole Magnesium Delayed-Release Capsules. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1859-1864.	1.6	11
41	Application of 2D-NMR with room temperature NMR probes for the assessment of the higher order structure of filgrastim. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 141, 229-233.	1.4	14
42	Heparin and homogeneous model heparin oligosaccharides form distinct complexes with protamine: Light scattering and zeta potential analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 140, 113-121.	1.4	12
43	Qualification of HSQC methods for quantitative composition of heparin and low molecular weight heparins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 136, 92-105.	1.4	48
44	PF4-HIT antibody (KKO) complexes activate broad innate immune and inflammatory responses. <i>Thrombosis Research</i> , 2017, 159, 39-47.	0.8	14
45	Comparison of NMR and Dynamic Light Scattering for Measuring Diffusion Coefficients of Formulated Insulin: Implications for Particle Size Distribution Measurements in Drug Products. <i>AAPS Journal</i> , 2017, 19, 1760-1766.	2.2	45
46	A Retrospective Evaluation of the Use of Mass Spectrometry in FDA Biologics License Applications. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 786-794.	1.2	92
47	Combining NMR Spectroscopy and Chemometrics to Monitor Structural Features of Crude Heparin Molecules. <i>Molecules</i> , 2017, 22, 1146.	1.7	26
48	Ghost-Pill-Buster: A Case Study of Intact Levetiracetam Extended-Release Tablets after Dissolution Testing. <i>CNS Drugs</i> , 2016, 30, 455-460.	2.7	9
49	The US regulatory and pharmacopeia response to the global heparin contamination crisis. <i>Nature Biotechnology</i> , 2016, 34, 625-630.	9.4	93
50	Simple NMR methods for evaluating higher order structures of monoclonal antibody therapeutics with quinary structure. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 128, 398-407.	1.4	46
51	Precision and robustness of 2D-NMR for structure assessment of filgrastim biosimilars. <i>Nature Biotechnology</i> , 2016, 34, 139-141.	9.4	62
52	Modern analytics for naturally derived complex drug substances: NMR and MS tests for protamine sulfate from chum salmon. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 749-759.	1.9	18
53	Modern analytics for synthetically derived complex drug substances: NMR, AFFFâ€™MALS, and MS tests for glatiramer acetate. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8647-8659.	1.9	22
54	Synthesis and detection of N-sulfonated oversulfated chondroitin sulfate in marketplace heparin. <i>Analytical Biochemistry</i> , 2015, 490, 52-54.	1.1	5

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55	NMR profiling of biomolecules at natural abundance using 2D ^1H - ^{15}N and ^1H - ^{13}C multiplicity-separated (MS) HSQC spectra. <i>Journal of Magnetic Resonance</i> , 2015, 251, 65-70.	1.2	22
56	One- and Two-Dimensional NMR Techniques for Biopharmaceuticals. , 2015, , 341-383.		2
57	Chemoenzymatic synthesis and structural characterization of 2-O-sulfated glucuronic acid-containing heparan sulfate hexasaccharides. <i>Glycobiology</i> , 2014, 24, 681-692.	1.3	29
58	Analytical techniques and bioactivity assays to compare the structure and function of filgrastim (granulocyte-colony stimulating factor) therapeutics from different manufacturers. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6559-6567.	1.9	23
59	Characterization of currently marketed heparin products: Key tests for LMWH quality assurance. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 85, 99-107.	1.4	30
60	Analyses of marketplace tacrolimus drug product quality: Bioactivity, NMR and LC-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 85, 108-117.	1.4	11
61	Structural comparison of two anti-CD20 monoclonal antibody drug products using middle-down mass spectrometry. <i>Analyst</i> , The, 2013, 138, 3058.	1.7	49
62	Characterization of currently marketed heparin products: composition analysis by 2D-NMR. <i>Analytical Methods</i> , 2013, 5, 2984.	1.3	40
63	High-Throughput Differentiation of Heparin from Other Glycosaminoglycans by Pyrolysis Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 7405-7412.	3.2	18
64	Physicochemical Characterization of Complex Drug Substances: Evaluation of Structural Similarities and Differences of Protamine Sulfate from Various Sources. <i>AAPS Journal</i> , 2012, 14, 619-626.	2.2	24
65	Characterization of currently marketed heparin products: Adverse event relevant bioassays. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 67-68, 28-35.	1.4	7
66	Characterization of currently marketed heparin products: Analysis of heparin digests by RPIP-UHPLC-QTOF-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 67-68, 42-50.	1.4	40
67	Detection of native chondroitin sulfate impurities in heparin sodium with a colorimetric micro-plate based assay. <i>Analytical Methods</i> , 2012, 4, 1488.	1.3	8
68	Sensitive Detection of Oversulfated Chondroitin Sulfate in Heparin Sodium or Crude Heparin with a Colorimetric Microplate Based Assay. <i>Analytical Chemistry</i> , 2011, 83, 3422-3430.	3.2	38
69	Class Modeling Analysis of Heparin ^1H NMR Spectral Data Using the Soft Independent Modeling of Class Analogy and Unequal Class Modeling Techniques. <i>Analytical Chemistry</i> , 2011, 83, 1030-1039.	3.2	22
70	Detection of Possible Economically Motivated Adulterants in Heparin Sodium and Low Molecular Weight Heparins with a Colorimetric Microplate Based Assay. <i>Analytical Chemistry</i> , 2011, 83, 7102-7108.	3.2	25
71	Effects of glycine-extended and serine13-phosphorylated forms of peptide YY on food intake in rats. <i>Peptides</i> , 2011, 32, 770-775.	1.2	4
72	Characterization of currently marketed heparin products: key tests for quality assurance. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 581-591.	1.9	38

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73	Determination of galactosamine impurities in heparin samples by multivariate regression analysis of their 1H NMR spectra. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 635-649.	1.9	24
74	Identification of heparin samples that contain impurities or contaminants by chemometric pattern recognition analysis of proton NMR spectral data. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 939-955.	1.9	26
75	Characterization of currently marketed heparin products: analysis of molecular weight and heparinase-I digest patterns. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2445-2454.	1.9	33
76	Combining 1H NMR spectroscopy and chemometrics to identify heparin samples that may possess dermatan sulfate (DS) impurities or oversulfated chondroitin sulfate (OSCS) contaminants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 54, 1020-1029.	1.4	23
77	Analysis of crude heparin by 1H NMR, capillary electrophoresis, and strong-anion-exchange-HPLC for contamination by over sulfated chondroitin sulfate. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 921-926.	1.4	61
78	PYY(1-36) is the major form of PYY in rat distal small intestine: Quantification using high-resolution mass spectrometry. <i>Regulatory Peptides</i> , 2010, 165, 151-157.	1.9	10
79	Assay of possible economically motivated additives or native impurities levels in heparin by 1H NMR, SAX-HPLC, and anticoagulation time approaches. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 656-664.	1.4	38
80	Bradykinin forming capacity of oversulfated chondroitin sulfate contaminated heparin in vitro. <i>Biomaterials</i> , 2010, 31, 5741-5748.	5.7	31
81	Characterization of Currently Marketed Heparin Products: Reversed-Phase Ion-Pairing Liquid Chromatography Mass Spectrometry of Heparin Digests. <i>Analytical Chemistry</i> , 2010, 82, 9865-9870.	3.2	45
82	The RAPID Method for Blood Processing Yields New Insight in Plasma Concentrations and Molecular Forms of Circulating Gut Peptides. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 4116-4116.	1.8	1
83	The RAPID Method for Blood Processing Yields New Insight in Plasma Concentrations and Molecular Forms of Circulating Gut Peptides. <i>Endocrinology</i> , 2009, 150, 5113-5118.	1.4	81
84	The RAPID Method for Blood Processing Yields New Insight in Plasma Concentrations and Molecular Forms of Circulating Gut Peptides. <i>Endocrine Reviews</i> , 2009, 30, 749-749.	8.9	0
85	A new endogenous form of PYY isolated from canine ileum: Gly-extended PYY(1-36). <i>Regulatory Peptides</i> , 2008, 151, 61-70.	1.9	6
86	The Micelle-Associated 3D Structures of Boc-Y(SO ₃)-Nle-G-W-Nle-D-2-phenylethylester (JMV-180) and CCK-8(s) Share Conformational Elements of a Calculated CCK1 Receptor-Bound Model. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 3742-3754.	2.9	4
87	The Lipid-Associated 3D Structure of SPA, a Broad-Spectrum Neuropeptide Antagonist with Anticancer Properties. <i>Biophysical Journal</i> , 2006, 91, 4478-4489.	0.2	6
88	Crucial role of position 40 for interactions of CCK-58 revealed by sequence of cat CCK-58. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 819-825.	1.0	4
89	Sequence Variation Outside the "Active" Region of Dog and Rabbit Cholecystokinin-58 Results in Bioactivity Differences. <i>Pancreas</i> , 2006, 32, 306-313.	0.5	7
90	Daily, intermittent intravenous infusion of peptide YY(3-36) reduces daily food intake and adiposity in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R298-R305.	0.9	94

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91	Peripheral Cholecystokinin. , 2006, , 1013-1022.		0
92	Water and enzyme secretion are tightly coupled in pancreatic secretion stimulated by food or CCK-58 but not by CCK-8. American Journal of Physiology - Renal Physiology, 2005, 288, G866-G879.	1.6	34
93	Differential bile-pancreatic secretory effects of CCK-58 and CCK-8. American Journal of Physiology - Renal Physiology, 2004, 286, G395-G402.	1.6	24
94	Identification of nonsulfated cholecystokinin-58 in canine intestinal extracts and its biological properties. American Journal of Physiology - Renal Physiology, 2004, 287, G326-G333.	1.6	18
95	Synthesis of biologically active canine CCK-58. Regulatory Peptides, 2003, 113, 71-77.	1.9	12
96	Rat progastrin processing yields peptides with altered potency at the CCK-B receptor. Regulatory Peptides, 2003, 113, 115-124.	1.9	8
97	CCK-58 is the only detectable endocrine form of cholecystokinin in rat. American Journal of Physiology - Renal Physiology, 2003, 285, G255-G265.	1.6	70
98	Receptor Subtypes: Species Variations in Secretin Affect Potency for Pancreatic but Not Gastric Secretion. Pancreas, 2003, 26, 300-305.	0.5	2
99	Differences in Receptor Binding and Stability to Enzymatic Digestion Between CCK-8 and CCK-58. Pancreas, 2002, 25, e50-e55.	0.5	25
100	Vinyl Sulfone Bifunctional Derivatives of DOTA Allow Sulfhydryl- or Amino-Directed Coupling to Antibodies. Conjugates Retain Immunoreactivity and Have Similar Biodistributions. Bioconjugate Chemistry, 2002, 13, 110-115.	1.8	26
101	NMR evidence for different conformations of the bioactive region of rat CCK-8 and CCK-58. Biochemical and Biophysical Research Communications, 2002, 293, 1014-1020.	1.0	21
102	Structure and receptor binding of PYY analogs. Peptides, 2002, 23, 305-321.	1.2	110
103	Chelators for Radioimmunotherapy: I. NMR and Ab Initio Calculation Studies on 1,4,7,10-Tetra(carboxyethyl)-1,4,7,10-tetraazacyclododecane (DO4Pr) and 1,4,7-Tris(carboxymethyl)-10-(carboxyethyl)-1,4,7,10-tetraazacyclododecane (DO3A1Pr). Inorganic Chemistry, 2001, 40, 4310-4318.	1.9	36
104	Diethyl Phthalate, a Chemotactic Factor Secreted by Helicobacter pylori. Journal of Biological Chemistry, 2001, 276, 48847-48853.	1.6	20
105	Primary structures of PYY, [Pro ³⁴]PYY, and PYY-(36) confer different conformations and receptor selectivity. American Journal of Physiology - Renal Physiology, 2000, 279, G126-G131.	1.6	102
106	Solution Structure of Monomeric Peptide YY Supports the Functional Significance of the PP-Fold,. Biochemistry, 2000, 39, 9935-9942.	1.2	42
107	NMR Studies of the Metal-Loading Kinetics and Acid-Base Chemistry of DOTA and Butylamide-DOTA. Bioconjugate Chemistry, 1999, 10, 454-463.	1.8	24
108	Mechanism and Energetics for Complexation of 90Y with 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic Acid (DOTA), a Model for Cancer Radioimmunotherapy. Journal of the American Chemical Society, 1999, 121, 6142-6151.	6.6	73

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109	Identical Primary Sequence but Different Conformations of the Bioactive Regions of Canine CCK-8 and CCK-58. <i>Biochemical and Biophysical Research Communications</i> , 1999, 266, 400-404.	1.0	16
110	The orientation and dynamics of substance P in lipid environments. <i>Protein Science</i> , 1998, 7, 2438-2450.	3.1	15
111	The interaction of \hat{I}^2 -amyloid protein fragment (12-28) with lipid environments. <i>Protein Science</i> , 1997, 6, 666-675.	3.1	49
112	The conformation of substance P in lipid environments. <i>Biophysical Journal</i> , 1996, 70, 1716-1727.	0.2	57
113	Oxidation/reduction chemistry of thiol groups in biological molecules.. <i>Journal of Inorganic Biochemistry</i> , 1993, 51, 27.	1.5	1
114	Nuclear magnetic resonance studies of the binding of captopril and penicillamine by serum albumin. <i>Biochemical Pharmacology</i> , 1993, 46, 1059-1069.	2.0	24
115	Phosphorus-31 nuclear magnetic resonance spectra and dissociation constants of lac repressor headpiece.cntdot.duplex operator complexes: The importance of phosphate ester backbone flexibility in protein-DNA recognition. <i>Biochemistry</i> , 1993, 32, 6863-6874.	1.2	27
116	Microscopic protonation equilibria and solution conformations of coenzyme A and coenzyme A disulfides. <i>Journal of Organic Chemistry</i> , 1992, 57, 4427-4431.	1.7	24
117	Kinetics and equilibria of thiol/disulfide interchange reactions of selected biological thiols and related molecules with oxidized glutathione. <i>Journal of Organic Chemistry</i> , 1992, 57, 123-127.	1.7	127
118	Characterization of symmetrical and unsymmetrical thiol-disulfide interchange reactions by one-and two-dimensional magnetization transfer NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1992, 30, 746-753.	1.1	4
119	Nuclear magnetic resonance studies of thiol/disulfide chemistry. <i>Bioorganic Chemistry</i> , 1989, 17, 257-267.	2.0	10
120	Multiphase Drug Distribution and Exchange in Oil-in-Water Nanoemulsion Revealed by High-Resolution ^{19}F qNMR. <i>Molecular Pharmaceutics</i> , 0, , .	2.3	2