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¹H, ¹³C, ¹⁵N NMR analysis of sildenafil base and citrate (Viagra) in solution, solid state and pharmaceutical dosage forms

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Journal of Pharmaceutical and Biomedical Analysis, 2005, 38, 865-70.

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#	Paper	IF	Citations
72	Solid-State Nuclear Magnetic Resonance of Pharmaceutical Formulations. 2000 , 1-18		2
71	Utility of Cyanoacetamides as Precursors to Pyrazolo[3,4-d]pyrimidin-4-ones, 2-Aryl-6-substituted 1,2,3-Triazolo[4,5-d]pyrimidines and Pyrazolo[1,5-a]pyrimidine-3-carboxamides. <i>Heterocycles</i> , 2007 , 71, 1951	0.8	24
70	Design and synthesis of single-nanoparticle optical biosensors for imaging and characterization of single receptor molecules on single living cells. <i>Analytical Chemistry</i> , 2007 , 79, 7708-18	7.8	90
69	Identification of Pharmaceutical Impurities. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007 , 30, 877-935	1.3	79
68	Solid-state NMR spectroscopy. <i>Nuclear Magnetic Resonance</i> , 196-243	3	0
67	Precision and sensitivity optimization of quantitative measurements in solid state NMR. <i>Journal of Magnetic Resonance</i> , 2007 , 188, 260-6	3	28
66	Pharmaceuticals and related drugs. <i>Analytical Chemistry</i> , 2007 , 79, 4275-93	7.8	18
65	Detection of counterfeit Viagra with Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 46, 303-9	3.5	92
64	Improved solid-state NMR quantifications of active principles in pharmaceutical formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 683-7	3.5	23
63	An LC method for the simultaneous screening of some common counterfeit and sub-standard antibiotics Validation and uncertainty estimation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 303-9	3.5	22
62	Bicyclic 5-6 Systems: Other Four Heteroatoms 2:2. 2008 , 599-659		4
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60	qNMR in Solid State. 2008 , 63-82		2
59	Solid-State Measurements of Drugs and Drug Formulations. 2008 , 201-231		5
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57	A method for improved quantification of ¹ H NMR signals under low-resolution conditions for solids. <i>Journal of Magnetic Resonance</i> , 2009 , 201, 1-6	3	21
56	Comparison and combination of spectroscopic techniques for the detection of counterfeit medicines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 445-53	3.5	98

55	Anticounterfeit protection of pharmaceutical products with spatial mapping of X-ray-detectable barcodes and logos. <i>Analytical Chemistry</i> , 2011 , 83, 7444-50	7.8	5
54	Identification of Thiosildenafil in a Health Supplement. <i>Natural Product Communications</i> , 2011 , 6, 1934-57	11.0	600
53	Synthesis and Characterization of Silica-Polymer Nanocomposites Functionalized with Piperazine for the Synthesis of Nitro Alcohols. <i>Catalysis Letters</i> , 2011 , 141, 1548-1556	2.8	12
52	Detection of counterfeit Viagra [®] by Raman microspectroscopy imaging and multivariate analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 56, 454-61	3.5	57
51	Mini Review: Determination of Sildenafil Citrate in Pharmaceutical Preparations. <i>Analytical Letters</i> , 2011 , 44, 2085-2093	2.2	4
50	¹ H NMR screening of pharmacologically active substances in weight-loss supplements being sold online. <i>Lebensmittelchemie</i> , 2012 , 66, 147-150	0	6
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48	The Modern Analytical Determination of Botanicals and Similar Novel Natural Products by the HPTLC Fingerprint Approach. <i>Studies in Natural Products Chemistry</i> , 2012 , 37, 217-258	1.5	11
47	Controlled Switching of Multicomponent Heterocyclizations of 5-Amino-N-arylpyrazole-4-carboxamides, 1,3-Cyclohexanediones, and Aldehydes. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 5515-5524	3.2	14
46	Application of ¹³ C CPMAS NMR for qualitative and quantitative characterization of carvedilol and its commercial formulations. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1763-72	3.9	18
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43	Analysis of herbal dietary supplements for sexual performance enhancement: first characterization of propoxyphenyl-thiohydroxyhomosildenafil and identification of sildenafil, thiosildenafil, phentolamine and tetrahydropalmatine as adulterants. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 63, 135-50	3.5	43
42	Recent developments in the chemistry of pyrazolo[4,3-c]quinolines. <i>Tetrahedron</i> , 2012 , 68, 1637-1667	2.4	33
41	Profiling counterfeit Cialis, Viagra and analogs by UPLC-MS. <i>Forensic Science International</i> , 2013 , 229, 13-20	2.6	23
40	A multivariate-based wavenumber selection method for classifying medicines into authentic or counterfeit classes. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 83, 209-14	3.5	23
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38	Sildenafil citrate monohydrate-cyclodextrin nanosuspension complexes for use in metered-dose inhalers. <i>International Journal of Pharmaceutics</i> , 2013 , 455, 248-58	6.5	23

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35	A sildenafil cocrystal based on acetylsalicylic acid exhibits an enhanced intrinsic dissolution rate. <i>CrystEngComm</i> , 2014 , 16, 32-35	3.3	47
34	Viagra [®] and Cialis [®] blister packaging fingerprinting using Fourier transform infrared spectroscopy (FTIR) allied with chemometric methods. <i>Analytical Methods</i> , 2014 , 6, 2722	3.2	4
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27	Selecting relevant Fourier transform infrared spectroscopy wavenumbers for clustering authentic and counterfeit drug samples. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014 , 54, 363-8	3.8	19
26	ATR-FTIR spectroscopy and chemometrics: An interesting tool to discriminate and characterize counterfeit medicines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 112, 181-9	3.5	48
25	An Expedient Approach for the Synthesis of Bioactive Pyrazole, Isoxazole and Benzodiazepine-Substituted Quinolin-2(1H)-one Derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2015 , 52, 1082-1092	1.9	4
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13	Rapid detection of six phosphodiesterase type 5 enzyme inhibitors in healthcare products using thin-layer chromatography and surface enhanced Raman spectroscopy combined with BP neural network. <i>Journal of Separation Science</i> , 2017 , 40, 2506-2514	3.4	14
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7	Applications of various analytical techniques in quality control of pharmaceutical excipients. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 157, 122-136	3.5	19
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5	Sildenafil 4.0-Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. <i>Pharmaceutics</i> , 2021 , 14,	5.2	5
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3	Green synthesis of acylhydrazides involving a heterocyclic moiety using terminal dihaloalkanes in organic salt media under solvent-free conditions. <i>Letters in Organic Chemistry</i> , 2022 , 19,	0.6	
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- 1 A Mechanochemical Route to Magnesium/Calcium Citrate Formation for Chrysotile/Asbestos Cement Correct Disposal as Agricultural Input.

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