

# Jochem Struppe

## List of Publications by Year in descending order

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28  
papers

724  
citations

567281

15  
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552781

26  
g-index

32  
all docs

32  
docs citations

32  
times ranked

597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-state <sup>17</sup> O NMR study of $\beta$ -D-glucose: exploring new frontiers in isotopic labeling, sensitivity enhancement, and NMR crystallography. <i>Chemical Science</i> , 2022, 13, 2591-2603.	7.4	13
2	Imaging active site chemistry and protonation states: NMR crystallography of the tryptophan synthase $\beta$ -aminoacrylate intermediate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	18
3	Determination of accurate <sup>19</sup> F chemical shift tensors with R-symmetry recoupling at high MAS frequencies (60–100 kHz). <i>Journal of Magnetic Resonance</i> , 2022, 340, 107227.	2.1	5
4	Exploring the Applications of Carbon-Detected NMR in Living and Dead Organisms Using a <sup>13</sup> C-Optimized Comprehensive Multiphase NMR Probe. <i>Analytical Chemistry</i> , 2022, 94, 8756-8765.	6.5	8
5	Expanding current applications and permitting the analysis of larger intact samples by means of a 7 mm CPMAS NMR probe. <i>Analyst</i> , 2021, 146, 4461-4472.	3.5	6
6	Competing transfer pathways in direct and indirect dynamic nuclear polarization magic anglespinning nuclear magnetic resonance experiments on HIV-1 capsid assemblies: implications for sensitivity and resolution. <i>Magnetic Resonance</i> , 2021, 2, 239-249.	1.9	5
7	Fast <sup>19</sup> F Magic Angle Spinning NMR Crystallography for Structural Characterization of Fluorine-Containing Pharmaceutical Compounds. <i>Analytical Chemistry</i> , 2021, 93, 8210-8218.	6.5	9
8	Comprehensive Multiphase NMR Probehead with Reduced Radiofrequency Heating Improves the Analysis of Living Organisms and Heat-Sensitive Samples. <i>Analytical Chemistry</i> , 2021, 93, 10326-10333.	6.5	7
9	Fast <sup>19</sup> F Magic-Angle Spinning Nuclear Magnetic Resonance for the Structural Characterization of Active Pharmaceutical Ingredients in Blockbuster Drugs. <i>Analytical Chemistry</i> , 2021, 93, 13029-13037.	6.5	18
10	Racing toward Fast and Effective <sup>17</sup> O Isotopic Labeling and Nuclear Magnetic Resonance Spectroscopy of N-Formyl-MLF-OH and Associated Building Blocks. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11916-11926.	2.6	6
11	Sensitivity boosts by the CPMAS CryoProbe for challenging biological assemblies. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106680.	2.1	48
12	Ultrafast <sup>1</sup> H MAS NMR Crystallography for Natural Abundance Pharmaceutical Compounds. <i>Molecular Pharmaceutics</i> , 2020, 17, 674-682.	4.6	19
13	Comprehensive Multiphase NMR—A Powerful Tool to Understand and Monitor Molecular Processes during Biofuel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17551-17564.	6.7	10
14	Ex Vivo Comprehensive Multiphase NMR of whole organisms: A complementary tool to in Vivo NMR. <i>Analytica Chimica Acta: X</i> , 2020, 6, 100051.	1.0	16
15	Dynamic Nuclear Polarization Magic-Angle Spinning Nuclear Magnetic Resonance Combined with Molecular Dynamics Simulations Permits Detection of Order and Disorder in Viral Assemblies. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5048-5058.	2.6	31
16	<sup>19</sup> F Dynamic Nuclear Polarization at Fast Magic Angle Spinning for NMR of HIV-1 Capsid Protein Assemblies. <i>Journal of the American Chemical Society</i> , 2019, 141, 5681-5691.	13.7	48
17	Measurement of Accurate Interfluorine Distances in Crystalline Organic Solids: A High-Frequency Magic Angle Spinning NMR Approach. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10680-10690.	2.6	17
18	Determination of accurate backbone chemical shift tensors in microcrystalline proteins by integrating MAS NMR and QM/MM. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9543-9553.	2.8	9

#	ARTICLE	IF	CITATIONS
19	In Vivo Ultraslow MAS <sup>2</sup> H/ <sup>13</sup> C NMR Emphasizes Metabolites in Dynamic Flux. ACS Omega, 2018, 3, 17023-17035.	3.5	21
20	Fast Magic Angle Spinning <sup>19</sup> F NMR Spectroscopy of HIV-1 Capsid Protein Assemblies. Angewandte Chemie, 2018, 130, 16613-16617.	2.0	7
21	Fast Magic Angle Spinning <sup>19</sup> F NMR Spectroscopy of HIV-1 Capsid Protein Assemblies. Angewandte Chemie - International Edition, 2018, 57, 16375-16379.	13.8	50
22	<sup>19</sup> F Magic Angle Spinning NMR Spectroscopy and Density Functional Theory Calculations of Fluorosubstituted Tryptophans: Integrating Experiment and Theory for Accurate Determination of Chemical Shift Tensors. Journal of Physical Chemistry B, 2018, 122, 6148-6155.	2.6	25
23	Expanding the horizons for structural analysis of fully protonated protein assemblies by NMR spectroscopy at MAS frequencies above 100 kHz. Solid State Nuclear Magnetic Resonance, 2017, 87, 117-125.	2.3	88
24	Effective combined water and sideband suppression for low-speed tissue and in vivo MAS NMR. Analytical and Bioanalytical Chemistry, 2017, 409, 5043-5055.	3.7	37
25	Dynamic Nuclear Polarization Enhanced MAS NMR Spectroscopy for Structural Analysis of HIV-1 Protein Assemblies. Journal of Physical Chemistry B, 2016, 120, 329-339.	2.6	49
26	Characterisation of oil contaminated soils by comprehensive multiphase NMR spectroscopy. Environmental Chemistry, 2015, 12, 227.	1.5	16
27	Comprehensive Multiphase NMR Spectroscopy of Intact <sup>13</sup> C-Labeled Seeds. Journal of Agricultural and Food Chemistry, 2014, 62, 107-115.	5.2	38
28	Comprehensive multiphase NMR spectroscopy: Basic experimental approaches to differentiate phases in heterogeneous samples. Journal of Magnetic Resonance, 2012, 217, 61-76.	2.1	92