

Assoc Prof Dr Katja Petzold

List of Publications by Citations

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34
papers

976
citations

15
h-index

31
g-index

45
ext. papers

1,195
ext. citations

10.4
avg, IF

4.23
L-index

#	Paper	IF	Citations
34	Visualizing transient Watson-Crick-like mispairs in DNA and RNA duplexes. <i>Nature</i> , 2015 , 519, 315-20	50.4	175
33	Visualizing transient low-populated structures of RNA. <i>Nature</i> , 2012 , 491, 724-8	50.4	154
32	Biochemical and functional characterization of Helicobacter pylori vesicles. <i>Molecular Microbiology</i> , 2010 , 77, 1539-55	4.1	132
31	Secondary structure determination of conserved SARS-CoV-2 RNA elements by NMR spectroscopy. <i>Nucleic Acids Research</i> , 2020 , 48, 12415-12435	20.1	58
30	EASY ROESY: reliable cross-peak integration in adiabatic symmetrized ROESY. <i>Chemistry - A European Journal</i> , 2009 , 15, 585-8	4.8	54
29	A guide to large-scale RNA sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 3239-3252	4.2	36
28	Synthesis and structural studies of pentacycloundecane-based HIV-1 PR inhibitors: a hybrid 2D NMR and docking/QM/MM/MD approach. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 3976-85	6.8	32
27	Pentacycloundecane-based inhibitors of wild-type C-South African HIV-protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2274-7	2.9	31
26	Comprehensive analysis of NMR data using advanced line shape fitting. <i>Journal of Biomolecular NMR</i> , 2017 , 69, 93-99	3	30
25	RNA Dynamics by NMR Spectroscopy. <i>ChemBioChem</i> , 2019 , 20, 2685-2710	3.8	27
24	Novel tetrahydroisoquinoline based organocatalysts for asymmetric Diels-Alder reactions: insight into the catalytic mode using ROESY NMR and DFT studies. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 2859-2867		27
23	Observing an Antisense Drug Complex in Intact Human Cells by in-Cell NMR Spectroscopy. <i>ChemBioChem</i> , 2019 , 20, 2474-2478	3.8	24
22	Base-pair conformational switch modulates miR-34a targeting of Sirt1 mRNA. <i>Nature</i> , 2020 , 583, 139-144	50.4	22
21	Modulating RNA Alignment Using Directional Dynamic Kinks: Application in Determining an Atomic-Resolution Ensemble for a Hairpin using NMR Residual Dipolar Couplings. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12954-65	16.4	21
20	Synthesis, 2D-NMR and molecular modelling studies of pentacycloundecane lactam-peptides and peptoids as potential HIV-1 wild type C-SA protease inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 78-88	5.6	16
19	Conserved nucleotides in an RNA essential for hepatitis B virus replication show distinct mobility patterns. <i>Nucleic Acids Research</i> , 2007 , 35, 6854-61	20.1	15
18	Efficient Detection of Structure and Dynamics in Unlabeled RNAs: The SELOPE Approach. <i>Chemistry - A European Journal</i> , 2018 , 24, 6067-6070	4.8	14

17	Synthesis, screening and computational investigation of pentacycloundecane-peptoids as potent CSA-HIV PR inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2012 , 57, 459-67	6.8	14
16	Semiconstant-time P,H-COSY NMR: analysis of complex mixtures of phospholipids originating from <i>Helicobacter pylori</i> . <i>Journal of the American Chemical Society</i> , 2009 , 131, 14150-1	16.4	14
15	Capturing Excited States in the Fast-Intermediate Exchange Limit in Biological Systems Using ¹ H NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15869-15872	16.4	13
14	Pentacycloundecane-diol-based HIV-1 protease inhibitors: biological screening, 2D NMR, and molecular simulation studies. <i>ChemMedChem</i> , 2012 , 7, 1009-19	3.7	13
13	Folding of spectrin α SH3 domain in the presence of spectrin repeats. <i>Cellular and Molecular Biology Letters</i> , 2005 , 10, 595-612	8.1	10
12	A robust and versatile method for production and purification of large-scale RNA samples for structural biology. <i>Rna</i> , 2020 , 26, 1023-1037	5.8	7
11	Synthesis and NMR elucidation of homoisoflavanone analogues. <i>Structural Chemistry</i> , 2011 , 22, 161-166	1.8	6
10	A two-dimensional replica-exchange molecular dynamics method for simulating RNA folding using sparse experimental restraints. <i>Methods</i> , 2019 , 162-163, 96-107	4.6	5
9	One-Pot Production of RNA in High Yield and Purity Through Cleaving Tandem Transcripts. <i>Molecules</i> , 2020 , 25,	4.8	5
8	Folding of the α 1-spectrin SH3 domain under physiological salt conditions. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 474, 39-47	4.1	5
7	Capturing Excited States in the Fast-Intermediate Exchange Limit in Biological Systems Using ¹ H NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 16101-16104	3.6	5
6	H, C and N chemical shift assignment of the stem-loop 5a from the 5'UTR of SARS-CoV-2. <i>Biomolecular NMR Assignments</i> , 2021 , 15, 203-211	0.7	5
5	Production of Structured RNA Fragments by In Vitro Transcription and HPLC Purification. <i>Current Protocols</i> , 2021 , 1, e159		1
4	Practical Aspects of Sample Preparation and Setup of ¹ H R1 ρ Relaxation Dispersion Experiments of RNA. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
3	Investigation and folding pattern of L-ido and D-gluco peptides by EASY ROESY NMR and X-ray. <i>RSC Advances</i> , 2013 , 3, 23355	3.7	
2	Inside Cover: Pentacycloundecane-diol-Based HIV-1 Protease Inhibitors: Biological Screening, 2D NMR, and Molecular Simulation Studies (ChemMedChem 6/2012). <i>ChemMedChem</i> , 2012 , 7, 938-938	3.7	
1	Mutate-and-chemical-shift-fingerprint (MCSF) to characterize excited states in RNA using NMR spectroscopy. <i>Nature Protocols</i> , 2021 , 16, 5146-5170	18.8	