

# Assistâ€™Prof Krzysztof Kazimierczuk

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,294  
citations

257101

24  
h-index

223531

46  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1728  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Accelerated NMR Spectroscopy by Using Compressed Sensing. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5556-5559.   | 7.2 | 470       |
| 2  | Two-dimensional Fourier transform of arbitrarily sampled NMR data sets. <i>Journal of Magnetic Resonance</i> , 2006, 179, 323-328.  | 1.2 | 135       |
| 3  | Non-uniform sampling: post-Fourier era of NMR data collection and processing. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 921-926.   | 1.1 | 107       |
| 4  | Random sampling of evolution time space and Fourier transform processing. <i>Journal of Biomolecular NMR</i> , 2006, 36, 157-168.   | 1.6 | 101       |
| 5  | Strategy for complete NMR assignment of disordered proteins with highly repetitive sequences based on resolution-enhanced 5D experiments. <i>Journal of Biomolecular NMR</i> , 2010, 48, 169-177. | 1.6 | 99        |
| 6  | Random sampling in multidimensional NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2010, 57, 420-434.   | 3.9 | 97        |
| 7  | Optimization of random time domain sampling in multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2008, 192, 123-130.   | 1.2 | 94        |
| 8  | Non-uniform frequency domain for optimal exploitation of non-uniform sampling. <i>Journal of Magnetic Resonance</i> , 2010, 205, 286-292.   | 1.2 | 86        |
| 9  | Narrow peaks and high dimensionalities: Exploiting the advantages of random sampling. <i>Journal of Magnetic Resonance</i> , 2009, 197, 219-228.  | 1.2 | 75        |
| 10 | Lineshapes and artifacts in Multidimensional Fourier Transform of arbitrary sampled NMR data sets. <i>Journal of Magnetic Resonance</i> , 2007, 188, 344-356.                                     | 1.2 | 70        |
| 11 | Iterative Thresholding Algorithm for Multiexponential Decay Applied to PGSE NMR Data. <i>Analytical Chemistry</i> , 2013, 85, 1828-1833.  | 3.2 | 63        |
| 12 | Fast time-resolved NMR with non-uniform sampling. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 116, 40-55.  | 3.9 | 60        |
| 13 | A comparison of convex and non-convex compressed sensing applied to multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2012, 223, 1-10.   | 1.2 | 51        |
| 14 | Pitfalls in compressed sensing reconstruction and how to avoid them. <i>Journal of Biomolecular NMR</i> , 2017, 68, 79-98.  | 1.6 | 49        |
| 15 | Analysis of Complex Reacting Mixtures by Time-Resolved 2D NMR. <i>Analytical Chemistry</i> , 2015, 87, 1337-1343.   | 3.2 | 38        |
| 16 | Monitoring polydispersity by NMR diffusometry with tailored norm regularisation and moving-frame processing. <i>Analyst</i> , 2016, 141, 1745-1752.   | 1.7 | 37        |
| 17 | A set of 4D NMR experiments of enhanced resolution for easy resonance assignment in proteins. <i>Journal of Magnetic Resonance</i> , 2010, 202, 109-116.  | 1.2 | 32        |
| 18 | High-Dimensional NMR Spectra for Structural Studies of Biomolecules. <i>ChemPhysChem</i> , 2013, 14, 3015-3025.   | 1.0 | 31        |

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|----|--|-----|-----------|
| 19 | Criteria for sensitivity enhancement by compressed sensing: practical application to anisotropic NAD 2D-NMR spectroscopy. <i>Analyst</i> , The, 2014, 139, 2702.   | 1.7 | 28        |
| 20 | Generalized Fourier Transform for Non-Uniform Sampled Data. <i>Topics in Current Chemistry</i> , 2011, 316, 79-124.  | 4.0 | 27        |
| 21 | Accelerating Diffusion-Ordered NMR Spectroscopy by Joint Sparse Sampling of Diffusion and Time Dimensions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6464-6467.   | 7.2 | 27        |
| 22 | Monitoring Hydrogenation Reactions using Benchtop 2D NMR with Extraordinary Sensitivity and Spectral Resolution. <i>ChemistryOpen</i> , 2019, 8, 196-200.  | 0.9 | 27        |
| 23 | Determination of Spin-Spin Couplings from Ultrahigh Resolution 3D NMR Spectra Obtained by Optimized Random Sampling and Multidimensional Fourier Transformation. <i>Journal of the American Chemical Society</i> , 2008, 130, 5404-5405. | 6.6 | 24        |
| 24 | Initial DNA Interactions of the Binuclear Threading Intercalator $[Ru(bppz)_4]^{2+}$ : An NMR Study with $[d(CGCGAATTCGCG)]_2$ . <i>Chemistry - A European Journal</i> , 2013, 19, 5401-5410.  | 1.7 | 24        |
| 25 | Fast 2D NMR Spectroscopy for In vivo Monitoring of Bacterial Metabolism in Complex Mixtures. <i>Frontiers in Microbiology</i> , 2017, 8, 1306.   | 1.5 | 23        |
| 26 | TRENDS Software for reaction monitoring with time-resolved non-uniform sampling. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 4-12.  | 1.1 | 22        |
| 27 | Two-Dimensional NMR Spectroscopy with Temperature Sweep. <i>ChemPhysChem</i> , 2014, 15, 2217-2220.  | 1.0 | 21        |
| 28 | EXTENDED ACQUISITION TIME (EXACT) NMR: A CASE FOR BURST NON-UNIFORM SAMPLING. <i>ChemPhysChem</i> , 2016, 17, 2799-2803.   | 1.0 | 21        |
| 29 | Joint non-uniform sampling of all incremented time delays for quicker acquisition in protein relaxation studies. <i>Journal of Biomolecular NMR</i> , 2017, 68, 155-161.   | 1.6 | 19        |
| 30 | Study of near-symmetric cyclodextrins by compressed sensing 2D NMR. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 110-115.  | 1.1 | 17        |
| 31 | Efficient compensation of low-frequency magnetic field disturbances in NMR with fluxgate sensors. <i>Journal of Magnetic Resonance</i> , 2005, 174, 287-291.   | 1.2 | 16        |
| 32 | Artifacts in time-resolved NUS: A case study of NOE build-up curves from 2D NOESY. <i>Journal of Magnetic Resonance</i> , 2016, 265, 108-116.  | 1.2 | 16        |
| 33 | Enabling Fast Pseudo-2D NMR Spectral Acquisition for Broadband Homonuclear Decoupling: The EXACT NMR Approach. <i>ChemPhysChem</i> , 2017, 18, 2081-2087.  | 1.0 | 16        |
| 34 | Quick, sensitive serial NMR experiments with Radon transform. <i>Journal of Magnetic Resonance</i> , 2017, 282, 114-118.   | 1.2 | 16        |
| 35 | Resolution enhancement in NMR spectra by deconvolution with compressed sensing reconstruction. <i>Chemical Communications</i> , 2020, 56, 14585-14588.   | 2.2 | 13        |
| 36 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. <i>PLoS Computational Biology</i> , 2020, 16, e1007904.   | 1.5 | 13        |

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|----|---|-----|-----------|
| 37 | Amino acid recognition for automatic resonance assignment of intrinsically disordered proteins. <i>Journal of Biomolecular NMR</i> , 2016, 64, 239-253.   | 1.6 | 12        |
| 38 | Fast acquisition of multidimensional NMR spectra of solids and mesophases using alternative sampling methods. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 927-939.                             | 1.1 | 11        |
| 39 | Alternative data processing techniques for serial <sup>1</sup> H NMR experiments. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2017, 46A, .                        | 0.2 | 11        |
| 40 | Accelerated acquisition in pure-shift spectra based on prior knowledge from <sup>1</sup> H NMR. <i>Chemical Communications</i> , 2019, 55, 9563-9566.   | 2.2 | 11        |
| 41 | Clustered sparsity and Poisson-gap sampling. <i>Journal of Biomolecular NMR</i> , 2021, 75, 401-416.  | 1.6 | 11        |
| 42 | Quick temperature-sweep pure-shift NMR: the case of solvent effects in atorvastatin. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19209-19215.  | 1.3 | 10        |
| 43 | Nonstationary Two-Dimensional Nuclear Magnetic Resonance: A Method for Studying Reaction Mechanisms in Situ. <i>Analytical Chemistry</i> , 2019, 91, 11306-11315.                                     | 3.2 | 10        |
| 44 | Modified OMP Algorithm for Exponentially Decaying Signals. <i>Sensors</i> , 2015, 15, 234-247.  | 2.1 | 9         |
| 45 | SCoT: Swept coherence transfer for quantitative heteronuclear 2D NMR. <i>Journal of Magnetic Resonance</i> , 2018, 294, 1-6.  | 1.2 | 9         |
| 46 | Enhancing Compression Level for More Efficient Compressed Sensing and Other Lessons from NMR Spectroscopy. <i>Sensors</i> , 2020, 20, 1325.   | 2.1 | 9         |
| 47 | Temperature as an Extra Dimension in Multidimensional Protein NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 1753-1767.  | 1.7 | 9         |
| 48 | Toward the synthesis, fluorination and application of N-graphyne. <i>RSC Advances</i> , 2020, 10, 40019-40029.  | 1.7 | 8         |
| 49 | Benefits of time-resolved nonuniform sampling in reaction monitoring: The case of aza-Michael addition of benzylamine and acrylamide. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 213-220.     | 1.1 | 8         |
| 50 | Development of a universal conductive platform for anchoring photo- and electroactive proteins using organometallic terpyridine molecular wires. <i>Nanoscale</i> , 2021, 13, 9773-9787.              | 2.8 | 7         |
| 51 | Variable-temperature NMR spectroscopy for metabolite identification in biological materials. <i>RSC Advances</i> , 2021, 11, 35321-35325.   | 1.7 | 7         |
| 52 | NUScon: a community-driven platform for quantitative evaluation of nonuniform sampling in NMR. <i>Magnetic Resonance</i> , 2021, 2, 843-861.  | 0.8 | 7         |
| 53 | <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N chemical shifts assignments for human endothelial monocyte-activating polypeptide EMAP II. <i>Biomolecular NMR Assignments</i> , 2013, 7, 25-29. | 0.4 | 5         |
| 54 | Non-Stationary Complementary Non-Uniform Sampling (NOSCO NUS) for Fast Acquisition of Serial 2D NMR Titration Data. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23496-23499.         | 7.2 | 4         |

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|----|---|-----|-----------|
| 55 | A novel high-dimensional NMR experiment for resolving protein backbone dihedral angle ambiguities. <i>Journal of Biomolecular NMR</i> , 2020, 74, 257-265.  | 1.6 | 4         |
| 56 | Enhancing benchtop NMR spectroscopy by means of sample shifting. <i>Analyst, The</i> , 2020, 145, 7406-7411.  | 1.7 | 3         |
| 57 | A method for joint sparse sampling of time and gradient domains in diffusion-ordered NMR spectroscopy. , 2013, , .  |     | 2         |
| 58 | Non-stationary Complementary Non-uniform Sampling (NOSCO NUS) for Fast Acquisition of Serial 2D NMR Titration Data. <i>Angewandte Chemie</i> , 2020, 132, 23702-23705.  | 1.6 | 2         |
| 59 | Diazonium-Based Covalent Molecular Wiring of Single-Layer Graphene Leads to Enhanced Unidirectional Photocurrent Generation through the p-doping Effect. <i>Chemistry of Materials</i> , 2022, 34, 3744-3758. | 3.2 | 2         |
| 60 | Enhanced Nuclear Magnetic Resonance Spectroscopy with Isotropic Mixing as a Pseudodimension. <i>Analytical Chemistry</i> , 2022, 94, 9114-9121.   | 3.2 | 2         |
| 61 | Blue-shift Hydrogen Bonds in Silyltriptycene Derivatives: Antibonding $\sigma^*$ Orbitals of the Si-C Bond as Effective Acceptors of Electron Density. <i>ChemPhysChem</i> , 2020, 21, 540-545.               | 1.0 | 1         |
| 62 | Applications of alternative sampling methods. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 199-200.   | 1.1 | 1         |
| 63 | Progress in structural studies of proteins by NMR spectroscopy. <i>Polimery</i> , 2007, 52, 736-744.  | 0.4 | 1         |
| 64 | Design of a D <sub>3h</sub> -symmetry prismatic tris-(ferrocene-1,1'-diyl) molecular cage bearing boronate ester linkages. <i>Dalton Transactions</i> , 0, , .  | 1.6 | 1         |
| 65 | Sweeping Apparatus for Polarisation Enhancement (SWAPE) in benchtop nuclear magnetic resonance spectroscopy. <i>Spectroscopy Europe</i> , 0, , 14.  | 0.0 | 0         |
| 66 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.  |     | 0         |
| 67 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.  |     | 0         |
| 68 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.  |     | 0         |
| 69 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.  |     | 0         |
| 70 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.  |     | 0         |
| 71 | Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.  |     | 0         |