

Assistâ€™Prof Krzysztof Kazimierczuk

List of Publications by Year in descending order

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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	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
2	Enhanced Nuclear Magnetic Resonance Spectroscopy with Isotropic Mixing as a Pseudodimension. <i>Analytical Chemistry</i> , 2022, 94, 9114-9121.	3.2	2
3	Temperature as an Extra Dimension in Multidimensional Protein NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 1753-1767.	1.7	9
4	Benefits of time-resolved nonuniform sampling in reaction monitoring: The case of azide-Michael addition of benzylamine and acrylamide. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 213-220.	1.1	8
5	Applications of alternative sampling methods. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 199-200.	1.1	1
6	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
7	Variable-temperature NMR spectroscopy for metabolite identification in biological materials. <i>RSC Advances</i> , 2021, 11, 35321-35325.	1.7	7
8	Clustered sparsity and Poisson-gap sampling. <i>Journal of Biomolecular NMR</i> , 2021, 75, 401-416.	1.6	11
9	NUScon: a community-driven platform for quantitative evaluation of nonuniform sampling in NMR. <i>Magnetic Resonance</i> , 2021, 2, 843-861.	0.8	7
10	Fast time-resolved NMR with non-uniform sampling. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 116, 40-55.	3.9	60
11	Resolution enhancement in NMR spectra by deconvolution with compressed sensing reconstruction. <i>Chemical Communications</i> , 2020, 56, 14585-14588.	2.2	13
12	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
13	Enhancing benchtop NMR spectroscopy by means of sample shifting. <i>Analyst</i> , 2020, 145, 7406-7411.	1.7	3
14	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
15	Toward the synthesis, fluorination and application of "graphyne. <i>RSC Advances</i> , 2020, 10, 40019-40029.	1.7	8
16	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. <i>PLoS Computational Biology</i> , 2020, 16, e1007904.	1.5	13
17	Enhancing Compression Level for More Efficient Compressed Sensing and Other Lessons from NMR Spectroscopy. <i>Sensors</i> , 2020, 20, 1325.	2.1	9
18	Blue-Shift Hydrogen Bonds in Silyltriptycene Derivatives: Antibonding σ^* Orbitals of the Si-C Bond as Effective Acceptors of Electron Density. <i>ChemPhysChem</i> , 2020, 21, 540-545.	1.0	1

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19	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
20	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.		0
21	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.		0
22	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.		0
23	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.		0
24	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.		0
25	Restriction of S-adenosylmethionine conformational freedom by knotted protein binding sites. , 2020, 16, e1007904.		0
26	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
27	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
28	Accelerated acquisition in pure-shift spectra based on prior knowledge from ¹ H NMR. <i>Chemical Communications</i> , 2019, 55, 9563-9566.	2.2	11
29	Monitoring Hydrogenation Reactions using Benchtop 2D NMR with Extraordinary Sensitivity and Spectral Resolution. <i>ChemistryOpen</i> , 2019, 8, 196-200.	0.9	27
30	TRENDS™ Software for reaction monitoring with time-resolved non-uniform sampling. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 4-12.	1.1	22
31	SCoT: Swept coherence transfer for quantitative heteronuclear 2D NMR. <i>Journal of Magnetic Resonance</i> , 2018, 294, 1-6.	1.2	9
32	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
33	Quick, sensitive serial NMR experiments with Radon transform. <i>Journal of Magnetic Resonance</i> , 2017, 282, 114-118.	1.2	16
34	Pitfalls in compressed sensing reconstruction and how to avoid them. <i>Journal of Biomolecular NMR</i> , 2017, 68, 79-98.	1.6	49
35	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
36	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

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37	Alternative data processing techniques for serial ¹ H NMR experiments. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2017, 46A, .	0.2	11
38	Amino acid recognition for automatic resonance assignment of intrinsically disordered proteins. Journal of Biomolecular NMR, 2016, 64, 239-253.	1.6	12
39	Extended ACquisition Time (EXACT) NMR – A Case for ² Burst ² Non-Uniform Sampling. ChemPhysChem, 2016, 17, 2799-2803.	1.0	21
40	Artifacts in time-resolved NUS: A case study of NOE build-up curves from 2D NOESY. Journal of Magnetic Resonance, 2016, 265, 108-116.	1.2	16
41	Monitoring polydispersity by NMR diffusometry with tailored norm regularisation and moving-frame processing. Analyst, The, 2016, 141, 1745-1752.	1.7	37
42	Fast acquisition of multidimensional NMR spectra of solids and mesophases using alternative sampling methods. Magnetic Resonance in Chemistry, 2015, 53, 927-939.	1.1	11
43	Non-uniform sampling: post-Fourier era of NMR data collection and processing. Magnetic Resonance in Chemistry, 2015, 53, 921-926.	1.1	107
44	Modified OMP Algorithm for Exponentially Decaying Signals. Sensors, 2015, 15, 234-247.	2.1	9
45	Analysis of Complex Reacting Mixtures by Time-Resolved 2D NMR. Analytical Chemistry, 2015, 87, 1337-1343.	3.2	38
46	Accelerating Diffusion-Ordered NMR Spectroscopy by Joint Sparse Sampling of Diffusion and Time Dimensions. Angewandte Chemie - International Edition, 2014, 53, 6464-6467.	7.2	27
47	Two-Dimensional NMR Spectroscopy with Temperature-Sweep. ChemPhysChem, 2014, 15, 2217-2220.	1.0	21
48	Criteria for sensitivity enhancement by compressed sensing: practical application to anisotropic NAD 2D-NMR spectroscopy. Analyst, The, 2014, 139, 2702.	1.7	28
49	A method for joint sparse sampling of time and gradient domains in diffusion-ordered NMR spectroscopy. , 2013, , .		2
50	Study of near-symmetric cyclodextrins by compressed sensing 2D NMR. Magnetic Resonance in Chemistry, 2013, 51, 110-115.	1.1	17
51	¹ H, ¹³ C, and ¹⁵ N chemical shifts assignments for human endothelial monocyte-activating polypeptide EMAP II. Biomolecular NMR Assignments, 2013, 7, 25-29.	0.4	5
52	High-Dimensional NMR Spectra for Structural Studies of Biomolecules. ChemPhysChem, 2013, 14, 3015-3025.	1.0	31
53	Iterative Thresholding Algorithm for Multiexponential Decay Applied to PGSE NMR Data. Analytical Chemistry, 2013, 85, 1828-1833.	3.2	63
54	Initial DNA Interactions of the Binuclear Threading Intercalator [Ru(^{1,4} -bipyridine) ₂] ²⁺ : An NMR Study with [d(CGCGAATTCGCG)] ₂ . Chemistry - A European Journal, 2013, 19, 5401-5410.	1.7	24

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55	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
56	Generalized Fourier Transform for Non-Uniform Sampled Data. <i>Topics in Current Chemistry</i> , 2011, 316, 79-124.	4.0	27
57	Accelerated NMR Spectroscopy by Using Compressed Sensing. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5556-5559.	7.2	470
58	Non-uniform frequency domain for optimal exploitation of non-uniform sampling. <i>Journal of Magnetic Resonance</i> , 2010, 205, 286-292.	1.2	86
59	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
60	Random sampling in multidimensional NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2010, 57, 420-434.	3.9	97
61	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
62	Narrow peaks and high dimensionalities: Exploiting the advantages of random sampling. <i>Journal of Magnetic Resonance</i> , 2009, 197, 219-228.	1.2	75
63	Optimization of random time domain sampling in multidimensional NMR. <i>Journal of Magnetic Resonance</i> , 2008, 192, 123-130.	1.2	94
64	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
65	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
66	Progress in structural studies of proteins by NMR spectroscopy. <i>Polimery</i> , 2007, 52, 736-744.	0.4	1
67	Two-dimensional Fourier transform of arbitrarily sampled NMR data sets. <i>Journal of Magnetic Resonance</i> , 2006, 179, 323-328.	1.2	135
68	Random sampling of evolution time space and Fourier transform processing. <i>Journal of Biomolecular NMR</i> , 2006, 36, 157-168.	1.6	101
69	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
70	Sweeping Apparatus for Polarisation Enhancement (SWAPE) in benchtop nuclear magnetic resonance spectroscopy. <i>Spectroscopy Europe</i> , 0, , 14.	0.0	0
71	Design of a D _{3h} -symmetry prismatic tris-(ferrocene-1,1'-diyl) molecular cage bearing boronate ester linkages. <i>Dalton Transactions</i> , 0, , .	1.6	1