Neil Mackinnon

List of Publications by Year
in descending order

41	736	516710 16	552781 26
papers	citations	h-index	g-index

45	45	45	1223
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microfluidic Overhauser DNP chip for signal-enhanced compact NMR. Scientific Reports, 2021, 11, 4671.	3.3	16
2	Untuned broadband spiral micro-coils achieve sensitive multi-nuclear NMR TX/RX from microfluidic samples. Scientific Reports, 2021, 11, 7798.	3.3	8
3	Integrated impedance sensing of liquid sample plug flow enables automated high throughput NMR spectroscopy. Microsystems and Nanoengineering, 2021, 7, 30.	7.0	11
4	Realâ€Time NMR Monitoring of Spatially Segregated Enzymatic Reactions in Multilayered Hydrogel Assemblies**. Angewandte Chemie, 2021, 133, 19325-19331.	2.0	2
5	Realâ€Time NMR Monitoring of Spatially Segregated Enzymatic Reactions in Multilayered Hydrogel Assemblies**. Angewandte Chemie - International Edition, 2021, 60, 19176-19182.	13.8	4
6	Selective excitation enables encoding and measurement of multiple diffusion parameters in a single experiment. Magnetic Resonance, 2021, 2, 835-842.	1.9	2
7	An NMR-compatible microfluidic platform enabling in situ electrochemistry. Lab on A Chip, 2020, 20, 3202-3212.	6.0	12
8	A Nuclear Magnetic Resonance (NMR) Platform for Real-Time Metabolic Monitoring of Bioprocesses. Molecules, 2020, 25, 4675.	3.8	13
9	Efficient System Wide Metabolic Pathway Comparisons in Multiple Microbes Using Genome to KEGG Orthology (G2KO) Pipeline Tool. Interdisciplinary Sciences, Computational Life Sciences, 2020, 12, 311-322.	3.6	11
10	â€œSmall is beautifulâ€•in NMR. Journal of Magnetic Resonance, 2019, 306, 112-117.	2.1	21
11	Parahydrogen based NMR hyperpolarisation goes micro: an alveolus for small molecule chemosensing. Lab on A Chip, 2019, 19, 503-512.	6.0	36
12	Spatial and Temporal Control Over Multilayer Bioâ€Polymer Film Assembly and Composition. Macromolecular Bioscience, 2019, 19, 1800372.	4.1	6
13	NMR-Based Metabolomic Profiling of Urine: Evaluation for Application in Prostate Cancer Detection. Natural Product Communications, 2019, 14, 1934578X1984997.	0.5	7
14	Broadband and multi-resonant sensors for NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 2019, 112-113, 34-54.	7.5	10
15	Motion prediction enables simulated MR-imaging of freely moving model organisms. PLoS Computational Biology, 2019, 15, e1006997.	3.2	0
16	Automatic Adaptive Gain for Magnetic Resonance Sensitivity Enhancement. Analytical Chemistry, 2019, 91, 2376-2383.	6.5	4
17	Laser-induced hierarchical carbon patterns on polyimide substrates for flexible urea sensors. Npj Flexible Electronics, 2019, 3, .	10.7	87
18	3D Carbon Scaffolds for Neural Stem Cell Culture and Magnetic Resonance Imaging. Advanced Healthcare Materials, 2018, 7, 1700915.	7.6	19

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19	Fast prototyping of microtubes with embedded sensing elements made possible with an inkjet printing and rolling process. Journal of Micromechanics and Microengineering, 2018, 28, 025003.	2.6	12
20	Flexible Carbon-based Urea Sensor by Laser Induced Carbonisation of Polyimide. , 2018, , .		1
21	Nuclear Magnetic Resonance Microscopy for In Vivo Metabolomics, Digitally Twinned by Computational Systems Biology, Needs a Sensitivity Boost. Sensors and Materials, 2018, , 157.	0.5	4
22	Micro-NMR elucidates altered metabolites in the Parkinsonâ€™s disease-related catp-6 genotype of Caenorhabditis elegans. Metabolomics, 2017, 13, 1.	3.0	1
23	Heteronuclear Micro-Helmholtz Coil Facilitates Âµm-Range Spatial and Sub-Hz Spectral Resolution NMR of nL-Volume Samples on Customisable Microfluidic Chips. PLoS ONE, 2016, 11, e0146384.	2.5	49
24	Micro and nano patternable magnetic carbon. Journal of Applied Physics, 2016, 120, .	2.5	14
25	Advanced two-photon photolithography for patterning of transparent, electrically conductive ionic liquid-polymer nanostructures. Proceedings of SPIE, 2016, , .	0.8	0
26	Novel selective TOCSY method enables NMR spectral elucidation of metabolomic mixtures. Journal of Magnetic Resonance, 2016, 272, 147-157.	2.1	18
27	A microwave resonator integrated on a polymer microfluidic chip. Journal of Magnetic Resonance, 2016, 270, 169-175.	2.1	12
28	Photolithography: Two-Photon Nanolithography Enhances the Performance of an Ionic Liquid-Polymer Composite Sensor (Adv. Funct. Mater. 11/2015). Advanced Functional Materials, 2015, 25, 1682-1682.	14.9	2
29	Twoâ€Photon Nanolithography Enhances the Performance of an Ionic Liquidâ€“Polymer Composite Sensor. Advanced Functional Materials, 2015, 25, 1683-1693.	14.9	17
30	Novel ionic liquid - polymer composite and an approach for its patterning by conventional photolithography. , 2015, , .		1
31	MetaboID: A graphical user interface package for assignment of 1H NMR spectra of bodyfluids and tissues. Journal of Magnetic Resonance, 2013, 226, 93-99.	2.1	24
32	Androgen receptor activation results in metabolite signatures of an aggressive prostate cancer phenotype: an NMR-based metabonomics study. Metabolomics, 2012, 8, 1026-1036.	3.0	14
33	Metabolomic Signatures in Guinea Pigs Infected with Epidemic-Associated W-Beijing Strains of Mycobacterium tuberculosis. Journal of Proteome Research, 2012, 11, 4873-4884.	3.7	47
34	High-Resolution Structural Insights into Bone: A Solid-State NMR Relaxation Study Utilizing Paramagnetic Doping. Journal of Physical Chemistry B, 2012, 116, 11656-11661.	2.6	50
35	Delineating metabolic signatures of head and neck squamous cell carcinoma: Phospholipase A2, a potential therapeutic target. International Journal of Biochemistry and Cell Biology, 2012, 44, 1852-1861.	2.8	87
36	Variable Reference Alignment: An Improved Peak Alignment Protocol for NMR Spectral Data with Large Intersample Variation. Analytical Chemistry, 2012, 84, 5372-5379.	6.5	26

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37	Triggered Instability of Liposomes Bound to Hydrophobically Modified Coreâ^'Shell PNIPAM Hydrogel Beads. Langmuir, 2010, 26, 1081-1089.	3.5	28
38	Liposomeâ^'Hydrogel Bead Complexes Prepared via Biotinâ^'Avidin Conjugation. Langmuir, 2009, 25, 9413-9423.	3.5	20
39	Aluminum binding to phosphatidylcholine lipid bilayer membranes: aluminum exchange lifetimes from 31P NMR spectroscopy. Chemistry and Physics of Lipids, 2006, 139, 85-95.	3.2	13
40	Aluminum binding to phosphatidylcholine lipid bilayer membranes: 27Al and 31P NMR spectroscopic studies. Chemistry and Physics of Lipids, 2004, 132, 23-36.	3.2	21
41	Advanced Microfluidic Assays for Caenorhabditis elegans. , 0, , .		5