

Neil Mackinnon

List of Publications by Year in descending order

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41
papers

736
citations

516710

16
h-index

552781

26
g-index

45
all docs

45
docs citations

45
times ranked

1223
citing authors

#	ARTICLE	IF	CITATIONS
1	Delineating metabolic signatures of head and neck squamous cell carcinoma: Phospholipase A2, a potential therapeutic target. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1852-1861.	2.8	87
2	Laser-induced hierarchical carbon patterns on polyimide substrates for flexible urea sensors. <i>Npj Flexible Electronics</i> , 2019, 3, .	10.7	87
3	High-Resolution Structural Insights into Bone: A Solid-State NMR Relaxation Study Utilizing Paramagnetic Doping. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11656-11661.	2.6	50
4	Heteronuclear Micro-Helmholtz Coil Facilitates μm -Range Spatial and Sub-Hz Spectral Resolution NMR of nL-Volume Samples on Customisable Microfluidic Chips. <i>PLoS ONE</i> , 2016, 11, e0146384.	2.5	49
5	Metabolomic Signatures in Guinea Pigs Infected with Epidemic-Associated W-Beijing Strains of <i>Mycobacterium tuberculosis</i> . <i>Journal of Proteome Research</i> , 2012, 11, 4873-4884.	3.7	47
6	Parahydrogen based NMR hyperpolarisation goes micro: an alveolus for small molecule chemosensing. <i>Lab on A Chip</i> , 2019, 19, 503-512.	6.0	36
7	Triggered Instability of Liposomes Bound to Hydrophobically Modified Core-Shell PNIPAM Hydrogel Beads. <i>Langmuir</i> , 2010, 26, 1081-1089.	3.5	28
8	Variable Reference Alignment: An Improved Peak Alignment Protocol for NMR Spectral Data with Large Intersample Variation. <i>Analytical Chemistry</i> , 2012, 84, 5372-5379.	6.5	26
9	MetabolD: A graphical user interface package for assignment of ^1H NMR spectra of bodyfluids and tissues. <i>Journal of Magnetic Resonance</i> , 2013, 226, 93-99.	2.1	24
10	Aluminum binding to phosphatidylcholine lipid bilayer membranes: ^{27}Al and ^{31}P NMR spectroscopic studies. <i>Chemistry and Physics of Lipids</i> , 2004, 132, 23-36.	3.2	21
11	"Small is beautiful" in NMR. <i>Journal of Magnetic Resonance</i> , 2019, 306, 112-117.	2.1	21
12	Liposome-Hydrogel Bead Complexes Prepared via Biotin-Avidin Conjugation. <i>Langmuir</i> , 2009, 25, 9413-9423.	3.5	20
13	3D Carbon Scaffolds for Neural Stem Cell Culture and Magnetic Resonance Imaging. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700915.	7.6	19
14	Novel selective TOCSY method enables NMR spectral elucidation of metabolomic mixtures. <i>Journal of Magnetic Resonance</i> , 2016, 272, 147-157.	2.1	18
15	Two-Photon Nanolithography Enhances the Performance of an Ionic Liquid-Polymer Composite Sensor. <i>Advanced Functional Materials</i> , 2015, 25, 1683-1693.	14.9	17
16	Microfluidic Overhauser DNP chip for signal-enhanced compact NMR. <i>Scientific Reports</i> , 2021, 11, 4671.	3.3	16
17	Androgen receptor activation results in metabolite signatures of an aggressive prostate cancer phenotype: an NMR-based metabolomics study. <i>Metabolomics</i> , 2012, 8, 1026-1036.	3.0	14
18	Micro and nano patternable magnetic carbon. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	14

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19	Aluminum binding to phosphatidylcholine lipid bilayer membranes: aluminum exchange lifetimes from ³¹ P NMR spectroscopy. <i>Chemistry and Physics of Lipids</i> , 2006, 139, 85-95.	3.2	13
20	A Nuclear Magnetic Resonance (NMR) Platform for Real-Time Metabolic Monitoring of Bioprocesses. <i>Molecules</i> , 2020, 25, 4675.	3.8	13
21	A microwave resonator integrated on a polymer microfluidic chip. <i>Journal of Magnetic Resonance</i> , 2016, 270, 169-175.	2.1	12
22	Fast prototyping of microtubes with embedded sensing elements made possible with an inkjet printing and rolling process. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 025003.	2.6	12
23	An NMR-compatible microfluidic platform enabling <i>in situ</i> electrochemistry. <i>Lab on A Chip</i> , 2020, 20, 3202-3212.	6.0	12
24	Efficient System Wide Metabolic Pathway Comparisons in Multiple Microbes Using Genome to KEGG Orthology (G2KO) Pipeline Tool. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2020, 12, 311-322.	3.6	11
25	Integrated impedance sensing of liquid sample plug flow enables automated high throughput NMR spectroscopy. <i>Microsystems and Nanoengineering</i> , 2021, 7, 30.	7.0	11
26	Broadband and multi-resonant sensors for NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 112-113, 34-54.	7.5	10
27	Untuned broadband spiral micro-coils achieve sensitive multi-nuclear NMR TX/RX from microfluidic samples. <i>Scientific Reports</i> , 2021, 11, 7798.	3.3	8
28	NMR-Based Metabolomic Profiling of Urine: Evaluation for Application in Prostate Cancer Detection. <i>Natural Product Communications</i> , 2019, 14, 1934578X1984997.	0.5	7
29	Spatial and Temporal Control Over Multilayer Bio-Polymer Film Assembly and Composition. <i>Macromolecular Bioscience</i> , 2019, 19, 1800372.	4.1	6
30	Advanced Microfluidic Assays for <i>Caenorhabditis elegans</i> . , 0, , .		5
31	Automatic Adaptive Gain for Magnetic Resonance Sensitivity Enhancement. <i>Analytical Chemistry</i> , 2019, 91, 2376-2383.	6.5	4
32	Real-Time NMR Monitoring of Spatially Segregated Enzymatic Reactions in Multilayered Hydrogel Assemblies**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19176-19182.	13.8	4
33	Nuclear Magnetic Resonance Microscopy for In Vivo Metabolomics, Digitally Twinned by Computational Systems Biology, Needs a Sensitivity Boost. <i>Sensors and Materials</i> , 2018, , 157.	0.5	4
34	Photolithography: Two-Photon Nanolithography Enhances the Performance of an Ionic Liquid-Polymer Composite Sensor (<i>Adv. Funct. Mater.</i> 11/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1682-1682.	14.9	2
35	Real-Time NMR Monitoring of Spatially Segregated Enzymatic Reactions in Multilayered Hydrogel Assemblies**. <i>Angewandte Chemie</i> , 2021, 133, 19325-19331.	2.0	2
36	Selective excitation enables encoding and measurement of multiple diffusion parameters in a single experiment. <i>Magnetic Resonance</i> , 2021, 2, 835-842.	1.9	2

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37	Novel ionic liquid - polymer composite and an approach for its patterning by conventional photolithography. , 2015, , .		1
38	Micro-NMR elucidates altered metabolites in the Parkinsonâ€™s disease-related catp-6 genotype of Caenorhabditis elegans. Metabolomics, 2017, 13, 1.	3.0	1
39	Flexible Carbon-based Urea Sensor by Laser Induced Carbonisation of Polyimide. , 2018, , .		1
40	Advanced two-photon photolithography for patterning of transparent, electrically conductive ionic liquid-polymer nanostructures. Proceedings of SPIE, 2016, , .	0.8	0
41	Motion prediction enables simulated MR-imaging of freely moving model organisms. PLoS Computational Biology, 2019, 15, e1006997.	3.2	0