

# Brian J Goodfellow

## List of Publications by Year in descending order

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88  
papers

3,107  
citations

147801

31  
h-index

168389

53  
g-index

90  
all docs

90  
docs citations

90  
times ranked

4214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Signatures of Lung Cancer in Biofluids: NMR-Based Metabonomics of Urine. <i>Journal of Proteome Research</i> , 2011, 10, 221-230.	3.7	205
2	A fourier transform IR study of the gelation of amylose and amylopectin. <i>Biopolymers</i> , 1990, 30, 1183-1189.	2.4	181
3	Metabolic Signatures of Lung Cancer in Biofluids: NMR-Based Metabonomics of Blood Plasma. <i>Journal of Proteome Research</i> , 2011, 10, 4314-4324.	3.7	154
4	Metabolic Biomarkers of Prenatal Disorders: An Exploratory NMR Metabonomics Study of Second Trimester Maternal Urine and Blood Plasma. <i>Journal of Proteome Research</i> , 2011, 10, 3732-3742.	3.7	144
5	Metabolic Profiling of Human Lung Cancer Tissue by <sup>1</sup> H High Resolution Magic Angle Spinning (HRMAS) NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2010, 9, 319-332.	3.7	136
6	High-Resolution NMR and Diffusion-Ordered Spectroscopy of Port Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 3736-3743.	5.2	114
7	In Situ Synthesis of Magnetite Nanoparticles in Carrageenan Gels. <i>Biomacromolecules</i> , 2007, 8, 2350-2357.	5.4	107
8	Morphology and miscibility of chitosan/soy protein blended membranes. <i>Carbohydrate Polymers</i> , 2007, 70, 25-31.	10.2	107
9	Impact of Prenatal Disorders on the Metabolic Profile of Second Trimester Amniotic Fluid: A Nuclear Magnetic Resonance Metabonomic Study. <i>Journal of Proteome Research</i> , 2010, 9, 6016-6024.	3.7	94
10	UPLC-MS metabolic profiling of second trimester amniotic fluid and maternal urine and comparison with NMR spectral profiling for the identification of pregnancy disorder biomarkers. <i>Molecular BioSystems</i> , 2012, 8, 1243.	2.9	94
11	Comparison of fourier transform mid infrared spectroscopy and near infrared reflectance spectroscopy with differential scanning calorimetry for the study of the staling of bread. <i>Journal of the Science of Food and Agriculture</i> , 1991, 54, 471-483.	3.5	79
12	NMR metabolomics of human lung tumours reveals distinct metabolic signatures for adenocarcinoma and squamous cell carcinoma. <i>Carcinogenesis</i> , 2015, 36, 68-75.	2.8	75
13	Following Healthy Pregnancy by NMR Metabolomics of Plasma and Correlation to Urine. <i>Journal of Proteome Research</i> , 2015, 14, 1263-1274.	3.7	72
14	Second Trimester Maternal Urine for the Diagnosis of Trisomy 21 and Prediction of Poor Pregnancy Outcomes. <i>Journal of Proteome Research</i> , 2013, 12, 2946-2957.	3.7	68
15	<sup>1</sup> H NMR Based Metabonomics of Human Amniotic Fluid for the Metabolic Characterization of Fetus Malformations. <i>Journal of Proteome Research</i> , 2009, 8, 4144-4150.	3.7	62
16	Lipolysis in probiotic and synbiotic cheese: The influence of probiotic bacteria, prebiotic compounds and ripening time on free fatty acid profiles. <i>Food Chemistry</i> , 2012, 131, 1414-1421.	8.2	62
17	Isolation and structural characterization of polysaccharides dissolved in <i>Eucalyptus globulus</i> kraft black liquors. <i>Carbohydrate Polymers</i> , 2005, 60, 77-85.	10.2	61
18	Metabolic Profiling of Potential Probiotic or Synbiotic Cheeses by Nuclear Magnetic Resonance (NMR) Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4955-4961.	5.2	51

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19	Following Healthy Pregnancy by Nuclear Magnetic Resonance (NMR) Metabolic Profiling of Human Urine. <i>Journal of Proteome Research</i> , 2013, 12, 969-979.	3.7	50
20	Metabolite Profiling of Human Amniotic Fluid by Hyphenated Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2008, 80, 6085-6092.	6.5	46
21	Synthesis and structural characterisation of new Ru(II)[12]aneS4 complexes with polypyridylic and related ligands. <i>New Journal of Chemistry</i> , 1999, 23, 1015-1025.	2.8	45
22	Biofunctionalized magnetic hydrogel nanospheres of magnetite and $\hat{\text{I}}^{\text{e}}$ -carrageenan. <i>Nanotechnology</i> , 2009, 20, 355602.	2.6	45
23	Enzymatic isolation and structural characterisation of polymeric suberin of cork from <i>Quercus suber</i> L. <i>International Journal of Biological Macromolecules</i> , 2001, 28, 107-119.	7.5	43
24	Phenylactic acid but not tropic acid is an intermediate in the biosynthesis of tropane alkaloids in <i>Datura</i> and <i>Brugmansia</i> transformed root cultures. <i>Planta</i> , 1994, 194, 86.	3.2	41
25	Structural characterisation of new Ru(II)[9]aneS3 polypyridylic complexes. <i>Dalton Transactions RSC</i> , 2000, , 4422-4431.	2.3	40
26	Exploratory applications of diffusion ordered spectroscopy to liquid foods: an aid towards spectral assignment. <i>Analytica Chimica Acta</i> , 2004, 506, 215-223.	5.4	39
27	Effects of magnetite nanoparticles on the thermorheological properties of carrageenan hydrogels. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 205-211.	9.4	37
28	Potential of NMR Spectroscopy for the Study of Human Amniotic Fluid. <i>Analytical Chemistry</i> , 2007, 79, 8367-8375.	6.5	35
29	Fourier transform infrared spectroscopy for the study of food biopolymers. <i>Food Hydrocolloids</i> , 1988, 2, 169-178.	10.7	34
30	Metabolic characterisation of plasma in juveniles with glycogen storage disease type 1a (GSD1a) by high-resolution $^1\text{H}$ NMR spectroscopy. <i>NMR in Biomedicine</i> , 2007, 20, 401-412.	2.8	34
31	Can nuclear magnetic resonance (NMR) spectroscopy reveal different metabolic signatures for lung tumours?. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2010, 457, 715-725.	2.8	34
32	A variable-temperature Fourier-transform infrared study of gelation in $\hat{\text{I}}^{\text{1-}}$ - and $\hat{\text{I}}^{\text{e}}$ -carrageenans. <i>Macromolecules</i> , 1989, 22, 1636-1642.	4.8	30
33	Structural characterisation of Ru(II) [9]aneS3 polypyridyl complexes by NMR spectroscopy and single crystal X-ray diffraction. <i>Polyhedron</i> , 1997, 16, 393-401.	2.2	29
34	Characterization of Mango Juice by High-Resolution NMR, Hyphenated NMR, and Diffusion-Ordered Spectroscopy. <i>Spectroscopy Letters</i> , 2005, 38, 319-342.	1.0	29
35	The First Structure from the SOUL/HBP Family of Heme-binding Proteins, Murine P22HBP. <i>Journal of Biological Chemistry</i> , 2006, 281, 31553-31561.	3.4	26
36	Rheological behavior of thermoreversible $\hat{\text{I}}^{\text{e}}$ -carrageenan/nanosilica gels. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 575-581.	9.4	26

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37	Mid-infrared (MIR) metabolic fingerprinting of amniotic fluid: A possible avenue for early diagnosis of prenatal disorders?. <i>Analytica Chimica Acta</i> , 2013, 764, 24-31.	5.4	26
38	The solution structure and heme binding of the presequence of murine 5-aminolevulinate synthase. <i>FEBS Letters</i> , 2001, 505, 325-331.	2.8	25
39	The solution structure of a [3Fe-4S] ferredoxin: oxidised ferredoxin II from <i>Desulfovibrio gigas</i> . <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 421-430.	2.6	23
40	NMR determination of the global structure of the <sup>113</sup> Cd derivative of desulfiredoxin: Investigation of the hydrogen bonding pattern at the metal center. <i>Protein Science</i> , 1998, 7, 928-937.	7.6	21
41	The Potential of Metabolomics in the Diagnosis of Thyroid Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5272.	4.1	21
42	How Alkali-Metal Cations Affect the Inclusion of Decanoic Acid in $\beta$ -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14590-14597.	2.6	20
43	FTIR spectroscopy in biomedical research: how to get the most out of its potential. <i>Applied Spectroscopy Reviews</i> , 2021, 56, 869-907.	6.7	20
44	An NMR and single-crystal X-ray diffraction structural study of RuII [12]aneS4 polypyridyl complexes. <i>Polyhedron</i> , 1997, 16, 3293-3304.	2.2	19
45	Câ€“Hâ€“O Hydrogen bonding in 4-phenyl-benzaldehyde: A comprehensive crystallographic, spectroscopic and computational study. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3027.	2.8	19
46	Epitope Mapping Studies of Broad Specificity Monoclonal Antibodies to Cereal Prolamins. <i>Journal of Cereal Science</i> , 1999, 29, 117-128.	3.7	18
47	Ageing and Proteins: What Does Proteostasis Have to Do with Age?. <i>Current Molecular Medicine</i> , 2018, 18, 178-189.	1.3	18
48	Interaction of Ruthenium(II)-dipyridophenazine Complexes with CT-DNA: Effects of the Polythioether Ancillary Ligands. <i>Metal-Based Drugs</i> , 2001, 8, 125-136.	3.8	17
49	Metal complexes of dipyridine hexaaza macrocycles. Structural differences between 18- and 20-membered macrocycles on complexation. <i>Dalton Transactions RSC</i> , 2002, , 3539.	2.3	17
50	An NMR structural study of nickel-substituted rubredoxin. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 409-420.	2.6	17
51	The use of <sup>113</sup> Cd NMR chemical shifts as a structural probe in tetrathiolate metalloproteins. <i>Inorganica Chimica Acta</i> , 1998, 273, 279-287.	2.4	16
52	Monitoring plasma protein aggregation during aging using conformation-specific antibodies and FTIR spectroscopy. <i>Clinica Chimica Acta</i> , 2020, 502, 25-33.	1.1	16
53	The Yeast PNC1 Longevity Gene Is Up-Regulated by mRNA Mistranslation. <i>PLoS ONE</i> , 2009, 4, e5212.	2.5	15
54	The solution structure of desulfiredoxin, a simple iron-sulfur protein. <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 341-354.	2.6	13

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55	Characterization and differentiation of ruthenium(II) complexes with 1,4,7-trithiacyclononane and nitrogen heterocycles by electrospray mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2001, 36, 529-537.	1.6	13
56	Structural characterisation and DFT studies of [Cr(cyclam)(O-dmso)Cl] <sub>2</sub> <sup>+</sup> : a new precursor complex towards potential DNA intercalators. <i>Inorganica Chimica Acta</i> , 2003, 356, 335-342.	2.4	12
57	Identification of cell-surface mannans in a virulent <i>Helicobacter pylori</i> strain. <i>Carbohydrate Research</i> , 2010, 345, 830-838.	2.3	11
58	Metal complexes of a dipyridine octaazamacrocyclic: stability constants, structural and modelling studies. <i>Dalton Transactions</i> , 2003, , 3172-3183.	3.3	10
59	How Inorganic Anions Affect the Inclusion of Hexanoic and Decanoic Acid in $\beta$ -Cyclodextrin. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10044-10049.	2.5	10
60	Properties of a new 4-imidazolyl derivative of a 14-membered tetraazamacrocyclic chelating agent. <i>Dalton Transactions</i> , 2007, , 4536.	3.3	10
61	Zinc-substituted <i>Desulfovibrio gigas</i> desulforedoxins: Resolving subunit degeneracy with nonsymmetric pseudocontact shifts. <i>Protein Science</i> , 2009, 11, 2464-2470.	7.6	10
62	Detection of muconic acid type structures in oxidised lignins using 2D NMR spectroscopy 10th EWLP, Stockholm, Sweden, August 25-28, 2008. <i>Holzforschung</i> , 2009, 63, .	1.9	10
63	Tetrapyrrole binding affinity of the murine and human p22HBP heme-binding proteins. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 29, 396-405.	2.4	10
64	Can Biofluids Metabolic Profiling Help to Improve Healthcare during Pregnancy?. <i>Spectroscopy</i> , 2012, 27, 515-523.	0.8	10
65	Analysis, Design and Engineering of Simple Iron-Sulfur Proteins: Tales from Rubredoxin and Desulforedoxin. <i>Comments on Inorganic Chemistry</i> , 1996, 19, 47-66.	5.2	9
66	Nmr Structural Studies Of Iron-Sulfur Proteins. <i>Annual Reports on NMR Spectroscopy</i> , 1999, 37, 119-177.	1.5	9
67	The SOUL family of heme-binding proteins: Structure and function 15 years later. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214189.	18.8	9
68	The First Structure from the SOUL/HBP Family of Heme-binding Proteins, Murine P22HBP. <i>Journal of Biological Chemistry</i> , 2006, 281, 31553-31561.	3.4	9
69	Chiral recognition by cyclodextrins: the interaction of naringin with $\beta$ -cyclodextrin. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 1803-1807.	0.9	8
70	Competition between the Hydrated Fluoride Anion and Hexanoic Acid for Inclusion in $\beta$ -Cyclodextrin: An 1H-NMR Study in Aqueous Solution. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2006, 54, 35-40.	1.6	8
71	Inclusion complexes of 2-phenoxyethanol and alkoxyethanols in cyclodextrins: an 1H NMR study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 151-156.	1.6	8
72	NMR metabolic composition profiling of high pressure pasteurized milk preserved by hyperbaric storage at room temperature. <i>Food Control</i> , 2022, 134, 108660.	5.5	7

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73	NMR Metabolomics Assessment of Osteogenic Differentiation of Adipose-Tissue-Derived Mesenchymal Stem Cells. <i>Journal of Proteome Research</i> , 2022, 21, 654-670.	3.7	7
74	Use of rapid scan correlation nuclear magnetic resonance spectroscopy as a quantitative analytical method. <i>Analyst</i> , 1993, 118, 73.	3.5	6
75	Exocyclic coordination of the 1,3-fluorenyl, 1,3-cyclopenta[def]phenanthrenyl and 1,3,8,9-dihydrocyclopenta[def]phenanthrenyl anions: X-ray crystal structures, NMR fluxionality and theoretical studies. <i>New Journal of Chemistry</i> , 2002, 26, 1552-1558.	2.8	6
76	Endo- and Exometabolome Crosstalk in Mesenchymal Stem Cells Undergoing Osteogenic Differentiation. <i>Cells</i> , 2022, 11, 1257.	4.1	6
77	Rapid scan correlation NMR spectroscopy for food analysis. <i>Food Chemistry</i> , 1993, 48, 307-312.	8.2	5
78	The 3Fe containing ferredoxin from <i>Desulfovibrio gigas</i> : an NMR characterization of the oxidised and intermediate states. <i>Coordination Chemistry Reviews</i> , 1999, 190-192, 871-881.	18.8	5
79	A fast MAS 1H NMR study of amino acids and proteins. <i>Journal of Molecular Structure</i> , 2002, 602-603, 357-366.	3.6	5
80	1H, 15N and 13C Resonance Assignments of the Heme-binding Protein Murine p22HBP. <i>Journal of Biomolecular NMR</i> , 2005, 32, 338-338.	2.8	5
81	FTIR Spectroscopy as a Tool to Study Age-Related Changes in Cardiac and Skeletal Muscle of Female C57BL/6J Mice. <i>Molecules</i> , 2021, 26, 6410.	3.8	5
82	Preliminary structural characterization of human SOUL, a haem-binding protein. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 723-726.	0.7	3
83	The Long-Term Culture of Human Fibroblasts Reveals a Spectroscopic Signature of Senescence. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5830.	4.1	3
84	The role of NAD metabolism in neuronal differentiation. <i>Neurochemistry International</i> , 2022, 159, 105402.	3.8	3
85	<i>Desulfovibrio gigas</i> ferredoxin II: redox structural modulation of the [3Fe-4S] cluster. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 307-315.	2.6	2
86	Binding and Transport Properties of a Benzo[ <i>b</i> ]thiophene-Based Mono(thio)urea Library. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	2
87	NMR solution structures of two mutants of desulforedoxin. <i>Journal of Inorganic Biochemistry</i> , 2003, 93, 100-108.	3.5	1
88	NMR metabonomic study of lung cancer: metabolic profiling of tissues. <i>BMC Proceedings</i> , 2010, 4, .	1.6	0