# Douglas J Morrison

List of Publications by Year
in descending order



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|---|---|---|---|
| 92 papers | 8,307 citations | 172207 29 h-index | 74018 75 g-index |
| 94 all docs | 94 docs citations | 94 times ranked | 11246 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Formation of short chain fatty acids by the gut microbiota and their impact on human metabolism. Gut Microbes, 2016, 7, 189-200. | 4.3 | 2,214 |
| 2 | The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. Nature Communications, 2014, 5, 3611. | 5.8 | 1,129 |
| 3 | Effects of targeted delivery of propionate to the human colon on appetite regulation, body weight maintenance and adiposity in overweight adults. Gut, 2015, 64, 1744-1754. | 6.1 | 950 |
| 4 | Human metabolism and elimination of the anthocyanin, cyanidin-3-glucoside: a 13C-tracer study. American Journal of Clinical Nutrition, 2013, 97, 995-1003. | 2.2 | 487 |
| 5 | The role of short chain fatty acids in appetite regulation and energy homeostasis. International Journal of Obesity, 2015, 39, 1331-1338. | 1.6 | 468 |
| 6 | Role of Gut Microbiota-Generated Short-Chain Fatty Acids in Metabolic and Cardiovascular Health. Current Nutrition Reports, 2018, 7, 198-206. | 2.1 | 425 |
| 7 | Dietary supplementation with inulin-propionate ester or inulin improves insulin sensitivity in adults with overweight and obesity with distinct effects on the gut microbiota, plasma metabolome and systemic inflammatory responses: a randomised cross-over trial. Gut, 2019, 68, 1430-1438. | 6.1 | 235 |
| 8 | Control of appetite and energy intake by SCFA: what are the potential underlying mechanisms?. Proceedings of the Nutrition Society, 2015, 74, 328-336. | 0.4 | 216 |
| 9 | The dietâ€derived short chain fatty acid propionate improves betaâ€cell function in humans and stimulates insulin secretion from human islets in vitro. Diabetes, Obesity and Metabolism, 2017, 19, 257-265. | 2.2 | 186 |
| 10 | Specific substrate-driven changes in human faecal microbiota composition contrast with functional redundancy in short-chain fatty acid production. ISME Journal, 2018, 12, 610-622. | 4.4 | 173 |
| 11 | Increased colonic propionate reduces anticipatory reward responses in the human striatum to high-energy foods. American Journal of Clinical Nutrition, 2016, 104, 5-14. | 2.2 | 145 |
| 12 | Oesophageal and gastric intestinal-type adenocarcinomas show the same male predominance due to a 17 year delayed development in females. Gut, 2009, 58, 16-23. | 6.1 | 130 |
| 13 | Butyrate production from oligofructose fermentation by the human faecal flora: what is the contribution of extracellular acetate and lactate?. British Journal of Nutrition, 2006, 96, 570-7. | 1.2 | 125 |
| 14 | Polyphenols and health: Interactions between fibre, plant polyphenols and the gut microbiota. Nutrition Bulletin, 2017, 42, 356-360. | 0.8 | 106 |
| 15 | Acute oral sodium propionate supplementation raises resting energy expenditure and lipid oxidation in fasted humans. Diabetes, Obesity and Metabolism, 2018, 20, 1034-1039. | 2.2 | 80 |
| 16 | The effects of dietary supplementation with inulin and inulinâ€propionate ester on hepatic steatosis in adults with nonâ€alcoholic fatty liver disease. Diabetes, Obesity and Metabolism, 2019, 21, 372-376. | 2.2 | 73 |
| 17 | Discrimination of Wild and Cultured European Sea Bass (Dicentrarchus labrax) Using Chemical and Isotopic Analyses. Journal of Agricultural and Food Chemistry, 2007, 55, 5934-5941. | 2.4 | 70 |
| 18 | 13C natural abundance in the British diet: implications for13C breath tests. Rapid Communications in Mass Spectrometry, 2000, 14, 1321-1324. | 0.7 | 65 |

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|---|---|---|---|
| 19 | Mycoprotein as a possible alternative source of dietary protein to support muscle and metabolic health. Nutrition Reviews, 2020, 78, 486-497. | 2.6 | 49 |
| 20 | Propionic Acid Promotes the Virulent Phenotype of Crohnâ€™s Disease-Associated Adherent-Invasive Escherichia coli. Cell Reports, 2020, 30, 2297-2305.e5. | 2.9 | 42 |
| 21 | Authenticating Production Origin of Gilthead Sea Bream (Sparus aurata) by Chemical and Isotopic Fingerprinting. Lipids, 2007, 42, 537-545. | 0.7 | 41 |
| 22 | Impact of Glycosidic Bond Configuration on Short Chain Fatty Acid Production from Model Fermentable Carbohydrates by the Human Gut Microbiota. Nutrients, 2017, 9, 26. | 1.7 | 38 |
| 23 | Randomised clinical study: inulin shortâ€chain fatty acid esters for targeted delivery of shortâ€chain fatty acids to the human colon. Alimentary Pharmacology and Therapeutics, 2016, 44, 662-672. | 1.9 | 37 |
| 24 | A natural mutation in Pisum sativum L. (pea) alters starch assembly and improves glucose homeostasis in humans. Nature Food, 2020, 1, 693-704. | 6.2 | 37 |
| 25 | A streamlined approach to the analysis of volatile fatty acids and its application to the measurement of whole-body flux. Rapid Communications in Mass Spectrometry, 2004, 18, 2593-2600. | 0.7 | 36 |
| 26 | Carbohydrate dose influences liver and muscle glycogen oxidation and performance during prolonged exercise. Physiological Reports, 2018, 6, e13555. | 0.7 | 36 |
| 27 | Dietary fibers inhibit obesity in mice, but host responses in the cecum and liver appear unrelated to fiber-specific changes in cecal bacterial taxonomic composition. Scientific Reports, 2018, 8, 15566. | 1.6 | 34 |
| 28 | Use of the 13C-octanoic acid breath test for assessment of solid-phase gastric emptying in dogs. American Journal of Veterinary Research, 2001, 62, 1939-1944. | 0.3 | 32 |
| 29 | Strong anionâ€exchange liquid chromatography coupled with isotope ratio mass spectrometry using a Liquiface interface. Rapid Communications in Mass Spectrometry, 2010, 24, 1755-1762. | 0.7 | 32 |
| 30 | Modeling 13C Breath Curves to Determine Site and Extent of Starch Digestion and Fermentation in Infants. Journal of Pediatric Gastroenterology and Nutrition, 2002, 34, 158-164. | 0.9 | 27 |
| 31 | Strong anion exchange liquid chromatographic separation of protein amino acids for natural 13 C-abundance determination by isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 429-435. | 0.7 | 26 |
| 32 | Gastrointestinal handling of glycosyl [13C]ureides. European Journal of Clinical Nutrition, 2003, 57, 1017-1024. | 1.3 | 25 |
| 33 | Effects of Inulin Propionate Ester Incorporated into Palatable Food Products on Appetite and Resting Energy Expenditure: A Randomised Crossover Study. Nutrients, 2019, 11, 861. | 1.7 | 25 |
| 34 | Short Chain Fatty Acid Production from Mycoprotein and Mycoprotein Fibre in an In Vitro Fermentation Model. Nutrients, 2019, 11, 800. | 1.7 | 25 |
| 35 | Dietary Fibres Differentially Impact on the Production of Phenolic Acids from Rutin in an In Vitro Fermentation Model of the Human Gut Microbiota. Nutrients, 2020, 12, 1577. | 1.7 | 23 |
| 36 | A comparison of substrate oxidation during prolonged exercise in men at terrestrial altitude and normobaric normoxia following the coingestion of<sup>13</sup>C glucose and<sup>13</sup>C fructose. Physiological Reports, 2017, 5, e13101. | 0.7 | 22 |

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|---|---|---|---|
| 37 | Impact of the source of fermentable carbohydrate on SCFA production by human gut microbiota inÂvitro - a systematic scoping review and secondary analysis. Critical Reviews in Food Science and Nutrition, 2021, 61, 3892-3903. | 5.4 | 22 |
| 38 | Surface preparation for Schottky metal - 4H-SiC contacts formed on plasma-etched SiC. Semiconductor Science and Technology, 2000, 15, 1107-1114. | 1.0 | 20 |
| 39 | Assessment of the rate of solidâ€phase gastric emptying in ponies by means of the <sup>13</sup>Câ€octanoic acid breath test: a preliminary study. Equine Veterinary Journal, 2001, 33, 197-203. | 0.9 | 19 |
| 40 | Kinetics of transient hiatus hernia during transient lower esophageal sphincter relaxations and swallows in healthy subjects. Neurogastroenterology and Motility, 2012, 24, 990. | 1.6 | 19 |
| 41 | What Is the Role of the Metabolic Activity of the Gut Microbiota in Inflammatory Bowel Disease? Probing for Answers With Stable Isotopes. Journal of Pediatric Gastroenterology and Nutrition, 2008, 46, 486-495. | 0.9 | 18 |
| 42 | Liver and muscle glycogen oxidation and performance with dose variation of glucoseâ€“fructose ingestion during prolonged (3 h) exercise. European Journal of Applied Physiology, 2019, 119, 1157-1169. | 1.2 | 18 |
| 43 | The13C-octanoic acid breath test for detection of effects of meal composition on the rate of solid-phase gastric emptying in ponies. Research in Veterinary Science, 2001, 71, 81-83. | 0.9 | 17 |
| 44 | Use of Stable Isotopes To Measure the Metabolic Activity of the Human Intestinal Microbiota. Applied and Environmental Microbiology, 2011, 77, 8009-8014. | 1.4 | 17 |
| 45 | Preexercise Galactose and Glucose Ingestion on Fuel Use during Exercise. Medicine and Science in Sports and Exercise, 2012, 44, 1958-1967. | 0.2 | 16 |
| 46 | Low temperature annealing of 4Hâ€“SiC Schottky diode edge terminations formed by 30 keV Ar+ implantation. Journal of Applied Physics, 2000, 87, 3973-3977. | 1.1 | 15 |
| 47 | Vertebrate nutrition in a deep-sea hydrothermal vent ecosystem: Fatty acid and stable isotope evidence. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1718-1726. | 0.6 | 15 |
| 48 | Quantitation of plasma <sup>13</sup>Câ€galactose and <sup>13</sup>Câ€glucose during exercise by liquid chromatography/isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 2484-2488. | 0.7 | 15 |
| 49 | The effect of L-rhamnose on intestinal transit time, short chain fatty acids and appetite regulation: a pilot human study using combined <sup>13</sup> CO <sub>2</sub> /H <sub>2</sub> breath tests. Journal of Breath Research, 2018, 12, 046006. | 1.5 | 15 |
| 50 | Glucose and Fructose Hydrogel Enhances Running Performance, Exogenous Carbohydrate Oxidation, and Gastrointestinal Tolerance. Medicine and Science in Sports and Exercise, 2022, 54, 129-140. | 0.2 | 15 |
| 51 | Modifying gut integrity and microbiome in children with severe acute malnutrition using legume-based feeds (MIMBLE): A pilot trial. Cell Reports Medicine, 2021, 2, 100280. | 3.3 | 14 |
| 52 | Fuel Use during Exercise at Altitude in Women with Glucoseâ€“Fructose Ingestion. Medicine and Science in Sports and Exercise, 2019, 51, 2586-2594. | 0.2 | 13 |
| 53 | Reconstructing bulk isotope ratios from compound-specific isotope ratios. Rapid Communications in Mass Spectrometry, 2010, 24, 1799-1804. | 0.7 | 12 |
| 54 | Slow Strain Rate Testing for Hydrogen Embrittlement Susceptibility of Alloy 718 in Substitute Ocean Water. Journal of Materials Engineering and Performance, 2017, 26, 2337-2345. | 1.2 | 12 |

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|---|---|---|---|
| 55 | Understanding the role of the gut in undernutrition: what can technology tell us?. Gut, 2021, 70, 1580-1594. | 6.1 | 12 |
| 56 | Lactose [13C]Ureide as a marker for colonic fermentation and the deconvolution of a complex 13CO2 breath test curve. Biochemical Society Transactions, 1998, 26, S184-S184. | 1.6 | 11 |
| 57 | Rapid quality control analysis of13C-enriched substrate synthesis by isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2001, 15, 1279-1282. | 0.7 | 11 |
| 58 | Stable Isotope Techniques for the Assessment of Host and Microbiota Response During Gastrointestinal Dysfunction. Journal of Pediatric Gastroenterology and Nutrition, 2017, 64, 8-14. | 0.9 | 11 |
| 59 | Moderate intensity exercise training combined with inulin-propionate ester supplementation increases whole body resting fat oxidation in overweight women. Metabolism: Clinical and Experimental, 2020, 104, 154043. | 1.5 | 10 |
| 60 | Measurement of urinary total13C and13C urea by isotope ratio mass spectrometry after administration of lactose [13C]-Ureide. , 1999, 13, 1252-1256. | | 8 |
| 61 | Dietary fibre in health and disease. Nutrition Bulletin, 2003, 28, 69-72. | 0.8 | 8 |
| 62 | Influence of cyclic deformation on surface microstructure and hardness of ion-implanted nickel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 1633-1646. | 1.4 | 7 |
| 63 | Inulin propionate ester increases satiety and decreases appetite but does not affect gastric emptying in healthy humans. Proceedings of the Nutrition Society, 2014, 73, . | 0.4 | 7 |
| 64 | Optimising gut colonisation resistance against Clostridium difficile infection. European Journal of Clinical Microbiology and Infectious Diseases, 2015, 34, 2161-2166. | 1.3 | 7 |
| 65 | Drivers of Clostridioides difficile hypervirulent ribotype 027 spore germination, vegetative cell growth and toxin production inÂvitro. Clinical Microbiology and Infection, 2020, 26, 941.e1-941.e7. | 2.8 | 7 |
| 66 | Measurement of oro-cecal transit time in young children using lactose [13C] ureide requires further validation. Journal of Pediatric Gastroenterology and Nutrition, 2002, 34, 570-571. | 0.9 | 7 |
| 67 | Identifying crop variants with high resistant starch content to maintain healthy glucose homeostasis. Nutrition Bulletin, 2016, 41, 372-377. | 0.8 | 6 |
| 68 | Production of<sup>13</sup>C Labelled Pea Flour for Use in Human Digestion and Fermentation Studies. Isotopes in Environmental and Health Studies, 2002, 38, 139-147. | 0.5 | 4 |
| 69 | Effects of elevating colonic propionate on liver fat content in overweight adults with non-alcoholic fatty liver disease: a pilot study. Proceedings of the Nutrition Society, 2015, 74, . | 0.4 | 4 |
| 70 | Carbohydrate Supplementation and the Influence of Breakfast on Fuel Use in Hypoxia. Medicine and Science in Sports and Exercise, 2021, 53, 785-795. | 0.2 | 3 |
| 71 | Optimisation, validation and field applicability of a 13C-sucrose breath test to assess intestinal function in environmental enteropathy among children in resource poor settings: study protocol for a prospective study in Bangladesh, India, Kenya, Jamaica, Peru and Zambia. BMJ Open, 2020, 10, e035841. | 0.8 | 2 |
| 72 | COMPUTER SIMULATION AS A TEACHING AID IN PHARMACY MANAGEMENTâ€“PART 2. STOCK CONTROL. Journal of Clinical Pharmacy and Therapeutics, 1987, 12, 261-265. | 0.7 | 1 |

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|---|---|---|---|
| 73 | Targeted delivery of propionate to the human colon prevents body weight and intra-abdominal adipose tissue gain in overweight adults. Proceedings of the Nutrition Society, 2014, 73, . | 0.4 | 1 |
| 74 | Targeted delivery of propionate to the colon stimulates the release of anorectic gut hormones and suppresses appetite in humans. Proceedings of the Nutrition Society, 2014, 73, . | 0.4 | 1 |
| 75 | A novel dietary strategy to increase colonic propionate production in humans and improve appetite regulation and bodyweight management. Nutrition Bulletin, 2015, 40, 227-230. | 0.8 | 1 |
| 76 | PRODUCTION OF 13 C LABELLED PEA FLOUR FOR USE IN HUMAN DIGESTION AND FERMENTATION STUDIES. Isotopes in Environmental and Health Studies, 2002, 38, 139-147. | 0.5 | 1 |
| 77 | COMPUTER SIMULATION AS A TEACHING AID IN PHARMACY MANAGEMENTâ€“PART 1: PRINCIPLES OF ACCOUNTING. Journal of Clinical Pharmacy and Therapeutics, 1987, 12, 187-192. | 0.7 | 0 |
| 78 | S2059 A 17-Year Delay of Development of Intestinal Type Adenocarcinoma in Females Explains Male Predominance of Upper Gastrointestinal Cancer. Gastroenterology, 2008, 134, A-306-A-307. | 0.6 | 0 |
| 79 | Mo1983 Detection of Gut Microbiota in Preterm Infants in the First Month of Life Using Transient Temperature Gel Electrophoresis. Gastroenterology, 2012, 142, S-713. | 0.6 | 0 |
| 80 | Mo2067 Stool Calprotectin Levels in Preterm Infants With and Without Necrotising Enterocolitis. Gastroenterology, 2012, 142, S-732. | 0.6 | 0 |
| 81 | Mo1984 Stool Secretory IgA Levels in Preterm Infants With and Without Necrotising Enterocolitis. Gastroenterology, 2012, 142, S-714. | 0.6 | 0 |
| 82 | Tu1196 Partial Hiatus Herniation Occurs in Asymptomatic Individuals With Central Obesity or With Abdominal Belt Compression. Gastroenterology, 2013, 144, S-787-S-788. | 0.6 | 0 |
| 83 | Standardisation of units for short chain fatty acid production from in vitro fermentation systems. Proceedings of the Nutrition Society, 2014, 73, . | 0.4 | 0 |
| 84 | Developing the concept of dietary estimation of fermentable carbohydrate (FC). Proceedings of the Nutrition Society, 2015, 74, . | 0.4 | 0 |
| 85 | Molecular determinants of short chain fatty acid production: influence of glycosidic bond configuration. Proceedings of the Nutrition Society, 2015, 74, . | 0.4 | 0 |
| 86 | Acute dietary saturated fat intake can suppress the inflammatory response in human circulating foamy monocytes. Atherosclerosis, 2017, 263, e116. | 0.4 | 0 |
| 87 | Alterations in Exogenous Carbohydrate, Liver and Muscle Glycogen Oxidation with Different Doses of Glucose and Fructose ingestion during Prolonged Cycling. Medicine and Science in Sports and Exercise, 2017, 49, 189. | 0.2 | 0 |
| 88 | The effect of L-rhamnose on gastrointestinal transit rates, short chain fatty acids and appetite regulation. Proceedings of the Nutrition Society, 2018, 77, . | 0.4 | 0 |
| 89 | A pilot study to evaluate the effect of increased colonic propionate on glucose homeostasis during a hypocaloric diet. Proceedings of the Nutrition Society, 2019, 78, . | 0.4 | 0 |
| 90 | BS30â€…Outlining the human monocyte inflammatory cytokine response to dietary fat intake. , 2019, , . | | 0 |

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| 91 | Feasibility of testing the medium-term impact of inulin on phenolic acids bioavailability in healthy overweight individuals. Proceedings of the Nutrition Society, 2020, 79, . | 0.4 | 0 |
| 92 | Optimising the carbon 13 sucrose breath test for the assessment of environmental enteric dysfunction. Proceedings of the Nutrition Society, 2020, 79, . | 0.4 | 0 |