

# Ronald D Macfarlane

## List of Publications by Year in descending order

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73  
papers

2,158  
citations

236925

25  
h-index

233421

45  
g-index

73  
all docs

73  
docs citations

73  
times ranked

991  
citing authors

#	ARTICLE	IF	CITATIONS
1	252Cf-Plasma Desorption Mass Spectrometry. <i>Mass Spectrometry Reviews</i> , 1985, 4, 421-460.	5.4	325
2	Particle-induced desorption mass spectrometry of large involatile biomolecules: surface chemistry in the high-energy short-time domain. <i>Accounts of Chemical Research</i> , 1982, 15, 268-275.	15.6	129
3	Natural Alpha Radioactivity in Medium-Heavy Elements. <i>Physical Review</i> , 1961, 121, 1758-1769.	2.7	122
4	Observation of a fully protected oligonucleotide dimer at m/z 12637 by californium-252 plasma desorption mass spectrometry. <i>Journal of the American Chemical Society</i> , 1981, 103, 1609-1610.	13.7	98
5	Kijanamicin. 2. Structure and absolute stereochemistry of kijanamicin. <i>Journal of the American Chemical Society</i> , 1981, 103, 3940-3943.	13.7	76
6	Alpha-Decay Properties of Some Francium Isotopes Near the 126-Neutron Closed Shell. <i>Physical Review</i> , 1964, 133, B1373-B1380.	2.7	73
7	Mass spectral study of polymorphism of the apolipoproteins of very low density lipoprotein. <i>Journal of Lipid Research</i> , 1999, 40, 543-555.	4.2	72
8	Kijanamicin. Part 3. Structure and absolute stereochemistry of kijanamicin. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1983, , 1497.	0.9	66
9	Alpha Decay Properties of some Holmium Isotopes near the 82-Neutron Closed Shell. <i>Physical Review</i> , 1963, 130, 1491-1498.	2.7	61
10	Alpha-Decay Properties of Some Lutetium and Hafnium Isotopes Near the 82-Neutron Closed Shell. <i>Physical Review</i> , 1965, 137, B1448-B1452.	2.7	51
11	Alpha decay properties of some terbium and dysprosium isotopes near the 82-neutron closed shell. <i>Nuclear Physics (journal)</i> , 1964, 53, 449-456.	1.9	49
12	Alpha decay of the 221Th and 222Th decay chains. <i>Nuclear Physics A</i> , 1970, 149, 641-646.	1.5	49
13	Alpha-Decay Properties of Some Thulium and Ytterbium Isotopes Near the 82-Neutron Closed Shell. <i>Physical Review</i> , 1964, 136, B941-B947.	2.7	48
14	High-energy fragmentation of chlorophyll a and its fully deuterated analog by californium-252 plasma desorption mass spectrometry. <i>Journal of the American Chemical Society</i> , 1981, 103, 6775-6778.	13.7	47
15	Alpha-Decay Properties of Some Erbium Isotopes near the 82-Neutron Closed Shell. <i>Physical Review</i> , 1963, 131, 2176-2181.	2.7	39
16	Electronegative LDLs from familial hypercholesterolemic patients are physicochemically heterogeneous but uniformly proapoptotic. <i>Journal of Lipid Research</i> , 2007, 48, 177-184.	4.2	39
17	Alpha-Emitting Isomeric State of Tb149. <i>Physical Review</i> , 1962, 126, 274-276.	2.7	35
18	Development of a lipoprotein profile using capillary electrophoresis and mass spectrometry. <i>Electrophoresis</i> , 1997, 18, 1796-1806.	2.4	35

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19	Effect of sterol carrier protein-2 gene ablation on HDL-mediated cholesterol efflux from cultured primary mouse hepatocytes. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, G244-G254.	3.4	32
20	The use of a stationary cationic surfactant as a selective matrix in <sup>252</sup> Cf-plasma desorption mass spectrometry. <i>Journal of the American Chemical Society</i> , 1986, 108, 2132-2139.	13.7	31
21	Overexpression of sterol carrier protein-2 differentially alters hepatic cholesterol accumulation in cholesterol-fed mice. <i>Journal of Lipid Research</i> , 2009, 50, 1429-1447.	4.2	30
22	Alpha Decay of the Isomers of <sup>214</sup> Fr. <i>Physical Review</i> , 1968, 174, 1494-1499.	2.7	28
23	Alpha-Decay Studies of the N=127 Isotones <sup>214</sup> Fr, <sup>215</sup> Ra, and <sup>216</sup> Ac. <i>Physical Review C</i> , 1970, 2, 2309-2318.	2.9	28
24	Characterization of lipoprotein a by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1995, 717, 33-39.	3.7	28
25	A novel mass spectrometric procedure to rapidly determine the partial structure of heparin fragments. <i>Biochemical and Biophysical Research Communications</i> , 1986, 139, 18-24.	2.1	26
26	Mass spectrometric study of ion adsorption on poly(ethylene terephthalate) and polypropylene surfaces. <i>Analytical Chemistry</i> , 1986, 58, 1091-1097.	6.5	23
27	<sup>252</sup> Californium plasma desorption mass spectrometry. <i>Biological Mass Spectrometry</i> , 1981, 8, 449-453.	0.5	22
28	Characterization and Quantitation of the Apoproteins of High-Density Lipoprotein by Capillary Electrophoresis. <i>Analytical Biochemistry</i> , 1996, 243, 100-109.	2.4	22
29	Fast C18 solid-phase desalting/delipidation of the human serum apolipoproteins for matrix-assisted laser desorption ionization and electrospray ionization mass spectrometric analysis. <i>Journal of Chromatography A</i> , 1999, 840, 183-193.	3.7	22
30	A Large High-Density Lipoprotein Enriched in Apolipoprotein C-I. <i>JAMA - Journal of the American Medical Association</i> , 2005, 293, 1891-9.	7.4	22
31	Novel lipoprotein density profiling in healthy dogs of various breeds, healthy miniature schnauzers, and miniature schnauzers with hyperlipidemia. <i>BMC Veterinary Research</i> , 2013, 9, 47.	1.9	22
32	Characterization and quantitation of apolipoprotein B-100 by capillary electrophoresis. <i>Journal of Lipid Research</i> , 1998, 39, 205-217.	4.2	22
33	Metal Ion Complexes of EDTA: A Solute System for Density Gradient Ultracentrifugation Analysis of Lipoproteins. <i>Analytical Chemistry</i> , 2005, 77, 200-207.	6.5	21
34	Metal Ion Complexes of EDTA as Solutes for Density Gradient Ultracentrifugation: Influence of Metal Ions. <i>Analytical Chemistry</i> , 2005, 77, 7054-7061.	6.5	21
35	Anomalous Beta-Alpha Anisotropy in the Decay of <sup>20</sup> Na. <i>Physical Review Letters</i> , 1970, 25, 170-172.	7.8	20
36	Small molecules as substrates for adsorption/desorption in <sup>252</sup> CF plasma desorption mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 29-32.	2.8	19

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37	Characterization of Single-Isomer, Heptasulfated $\beta$ -Cyclodextrins by Electrospray Ionization Mass Spectrometry and Indirect UV Detection Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1998, 70, 3042-3045.	6.5	18
38	The Effect of Viewing Order of Macroscopic and Particulate Visualizations on Students's™ Particulate Explanations. <i>Journal of Chemical Education</i> , 2012, 89, 979-987.	2.3	17
39	Analysis of High-Density Lipoprotein Apolipoproteins Recovered from Specific Immobilized pH Gradient Gel pIDomains by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 3823-3830.	6.5	16
40	Evaluation of Plasma Cholesterol, Triglyceride, and Lipid Density Profiles in Captive Monk Parakeets ( <i>Myiopsitta monachus</i> ). <i>Journal of Exotic Pet Medicine</i> , 2014, 23, 71-78.	0.4	16
41	[11] Principles of californium-252 plasma desorption mass spectrometry applied to protein analysis. <i>Methods in Enzymology</i> , 1990, 193, 263-280.	1.0	14
42	Novel truncated isoforms of constitutive serum amyloid A detected by MALDI mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 352-356.	2.1	14
43	Characterization of a uranium-rich organic material obtained from a South Texas lignite. <i>Fuel</i> , 1982, 61, 853-858.	6.4	13
44	Derivatization to enhance sequence-specific fragmentation of peptides and proteins. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 126, 123-136.	1.8	13
45	Heterogeneity of bacterial antigenic lipooligosaccharides determined by californium-252 plasma desorption mass spectrometry. <i>Biological Mass Spectrometry</i> , 1986, 13, 273-276.	0.5	12
46	Developing High Performance Lipoprotein Density Profiling for Use in Clinical Studies Relating to Cardiovascular Disease. <i>Analytical Chemistry</i> , 2011, 83, 8524-8530.	6.5	12
47	Techniques for the Study of Short-Lived Nuclei. <i>Pure and Applied Physics</i> , 1974, 40, 243-286.	0.2	12
48	Beta-delayed $\beta^{\pm}$ -emission from $^{24}\text{Al}$ and $^{24m}\text{Al}$ . <i>Nuclear Physics A</i> , 1971, 178, 69-75.	1.5	11
49	A new method for electrostatic ion deflection. <i>Journal of the American Society for Mass Spectrometry</i> , 1990, 1, 28-36.	2.8	11
50	Fragmentation Analysis of Bradykinin by $^{252}\text{Cf}$ -Plasma Desorption Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1991, 2, 379-386.	2.8	10
51	UC/MALDI-MS analysis of HDL; evidence for density-dependent post-translational modifications. <i>International Journal of Mass Spectrometry</i> , 2007, 268, 227-233.	1.5	10
52	Human HDL containing a novel apoC-I isoform induces smooth muscle cell apoptosis. <i>Cardiovascular Research</i> , 2013, 98, 83-93.	3.8	10
53	Natural Occurrence of Samarium-146. <i>Nature</i> , 1960, 188, 1180-1181.	27.8	9
54	A pulsed ion deflection system for background reduction in $^{252}\text{CF}$ -plasma desorption mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1992, 3, 706-715.	2.8	9

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55	252Cf-plasma desorption mass spectrometry – A historical perspective. <i>Biological Mass Spectrometry</i> , 1993, 22, 677-680.	0.5	9
56	Mobilization of ectopic yolk in <i>Gallus domesticus</i> : a novel reverse lipid transport process. <i>Journal of Experimental Biology</i> , 2013, 216, 1949-58.	1.7	9
57	Californium-252 plasma-desorption mass spectrometry of polymethylenediamine-linked enkephalin peptides. <i>Analytical Chemistry</i> , 1985, 57, 1616-1621.	6.5	8
58	Study of the charge-remote fragmentation of bradykinin using 252Cf-plasma desorption mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 111, 55-75.	1.8	8
59	Charge density profiling of circulating human low-density lipoprotein particles by capillary zone electrophoresis. <i>Electrophoresis</i> , 2004, 25, 2985-2995.	2.4	7
60	Characterization of $\{M_8[S_2CC(CN)_2]_6\}^{4-}$ , where M=CuI and AgI, homocubane clusters by -plasma desorption mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 222, 493-501.	1.5	6
61	Remnant Lipoprotein Density Profiling by CsBiEDTA Density Gradient Ultracentrifugation. <i>Analytical Chemistry</i> , 2006, 78, 680-685.	6.5	6
62	Glucose glass films: A matrix for mass spectrometry that mimics aqueous solution behavior. <i>Journal of Mass Spectrometry</i> , 1995, 30, 1041-1048.	1.6	5
63	252Cf-Plasma desorption mass spectrometry using polymer surfaces. <i>TrAC - Trends in Analytical Chemistry</i> , 1988, 7, 179-183.	11.4	4
64	Method for Lipoprotein(a) Density Profiling by BiEDTA Differential Density Lipoprotein Ultracentrifugation. <i>Analytical Chemistry</i> , 2006, 78, 438-444.	6.5	4
65	High Energy Heavy-Ion Induced Desorption (Review). <i>Springer Series in Chemical Physics</i> , 1983, , 32-46.	0.2	4
66	Characterization of high nuclearity close-packed anionic platinum carbonyl clusters by 252Cf plasma desorption mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1993, 126, 197-210.	1.8	3
67	The synthesis of two monosubstituted <i>meso</i> -tetraphenylporphine sulfonates. <i>Journal of Heterocyclic Chemistry</i> , 1986, 23, 1565-1570.	2.6	2
68	Analysis of a stacked-triangular platinum carbonyl cluster dianion, $[Pt_3(CO)_6]^{3-}$ by 252Cf-Plasma Desorption Mass Spectrometry. <i>Journal of Cluster Science</i> , 1993, 4, 453-470.	3.3	2
69	Serum Apolipoproteins. , 1999, 27, 99-108.		1
70	Plasma Desorption Ionization in Mass Spectrometry. , 1999, , 1848-1857.		0
71	A Perspective on the History of 252Cf-Plasma Desorption Mass Spectrometry. , 2016, , 113-118.		0
72	Plasma Desorption Ionization Using 252 Cf in Mass Spectrometry. , 2017, , 667-675.		0

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73	Plasma Desorption Ionization Using $^{252}\text{Cf}$ in Mass Spectrometry*, 1999, , 2195-2203.		0