

# Edward W Randell

## List of Publications by Year in descending order

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85  
papers

3,027  
citations

159585

30  
h-index

175258

52  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical validation of cutoff target ranges in newborn screening of metabolic disorders by tandem mass spectrometry: A worldwide collaborative project. <i>Genetics in Medicine</i> , 2011, 13, 230-254.	2.4	308
2	Food Addiction: Its Prevalence and Significant Association with Obesity in the General Population. <i>PLoS ONE</i> , 2013, 8, e74832.	2.5	255
3	Left Ventricular Hypertrophy in New Hemodialysis Patients without Symptomatic Cardiac Disease. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2010, 5, 805-813.	4.5	125
4	Increased plasma methylglyoxal level, inflammation, and vascular endothelial dysfunction in diabetic nephropathy. <i>Clinical Biochemistry</i> , 2011, 44, 307-311.	1.9	119
5	Plasma methylglyoxal and glyoxal are elevated and related to early membrane alteration in young, complication-free patients with Type 1 diabetes. <i>Molecular and Cellular Biochemistry</i> , 2007, 305, 123-131.	3.1	115
6	CLSI-based transference of the CALIPER database of pediatric reference intervals from Abbott to Beckman, Ortho, Roche and Siemens Clinical Chemistry Assays: Direct validation using reference samples from the CALIPER cohort. <i>Clinical Biochemistry</i> , 2013, 46, 1197-1219.	1.9	90
7	Classification of osteoarthritis phenotypes by metabolomics analysis. <i>BMJ Open</i> , 2014, 4, e006286.	1.9	90
8	Relationship between serum butyrylcholinesterase and the metabolic syndrome. <i>Clinical Biochemistry</i> , 2005, 38, 799-805.	1.9	83
9	Plasma protein advanced glycation end products, carboxymethyl cysteine, and carboxyethyl cysteine, are elevated and related to nephropathy in patients with diabetes. <i>Molecular and Cellular Biochemistry</i> , 2007, 302, 35-42.	3.1	83
10	Serum visfatin concentrations are positively correlated with serum triacylglycerols and down-regulated by overfeeding in healthy young men. <i>American Journal of Clinical Nutrition</i> , 2007, 85, 399-404.	4.7	81
11	A Case of Fatal Aconitine Poisoning by Monkshood Ingestion*. <i>Journal of Forensic Sciences</i> , 2008, 53, 491-494.	1.6	73
12	Combined carrier status of prothrombin 20210A and factor XIII-A Leu34 alleles as a strong risk factor for myocardial infarction: evidence of a gene-gene interaction. <i>Blood</i> , 2003, 101, 3037-3041.	1.4	67
13	Vitamin D insufficiency common in newborns, children and pregnant women living in Newfoundland and Labrador, Canada. <i>Maternal and Child Nutrition</i> , 2009, 5, 186-191.	3.0	60
14	Higher Dietary Choline and Betaine Intakes Are Associated with Better Body Composition in the Adult Population of Newfoundland, Canada. <i>PLoS ONE</i> , 2016, 11, e0155403.	2.5	60
15	High Dietary Magnesium Intake Is Associated with Low Insulin Resistance in the Newfoundland Population. <i>PLoS ONE</i> , 2013, 8, e58278.	2.5	59
16	Relationship between serum magnesium values, lipids and anthropometric risk factors. <i>Atherosclerosis</i> , 2008, 196, 413-419.	0.8	55
17	Serum metabolic biomarkers distinguish metabolically healthy peripherally obese from unhealthy centrally obese individuals. <i>Nutrition and Metabolism</i> , 2016, 13, 33.	3.0	55
18	Effect of different phosphatidylcholines on high fat diet-induced insulin resistance in mice. <i>Food and Function</i> , 2021, 12, 1516-1528.	4.6	54

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19	Closing the anion gap: Contribution of d-lactate to diabetic ketoacidosis. <i>Clinica Chimica Acta</i> , 2011, 412, 286-291.	1.1	49
20	An isotope-dilution, GC-MS assay for formate and its application to human and animal metabolism. <i>Amino Acids</i> , 2014, 46, 1885-1891.	2.7	47
21	Relationship Between Blood Plasma and Synovial Fluid Metabolite Concentrations in Patients with Osteoarthritis. <i>Journal of Rheumatology</i> , 2015, 42, 859-865.	2.0	45
22	Unfavorable Associations Between Serum Trimethylamine N-Oxide and L-Carnitine Levels With Components of Metabolic Syndrome in the Newfoundland Population. <i>Frontiers in Endocrinology</i> , 2019, 10, 168.	3.5	39
23	Delta Checks in the clinical laboratory. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 75-97.	6.1	39
24	Metabolomic analysis of human synovial fluid and plasma reveals that phosphatidylcholine metabolism is associated with both osteoarthritis and diabetes mellitus. <i>Metabolomics</i> , 2016, 12, 1.	3.0	37
25	Plasma advanced glycation endproduct, methylglyoxal-derived hydroimidazolone is elevated in young, complication-free patients with Type 1 diabetes. <i>Clinical Biochemistry</i> , 2009, 42, 562-569.	1.9	35
26	Absolute quantification method and validation of airborne snow crab allergen tropomyosin using tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2010, 681, 49-55.	5.4	35
27	Metabolomics of osteoarthritis: emerging novel markers and their potential clinical utility. <i>Rheumatology</i> , 2018, 57, 2087-2095.	1.9	35
28	Activation of The Phosphatidylcholine to Lysophosphatidylcholine Pathway Is Associated with Osteoarthritis Knee Cartilage Volume Loss Over Time. <i>Scientific Reports</i> , 2019, 9, 9648.	3.3	34
29	Hyperglycemia-related advanced glycation end-products is associated with the altered phosphatidylcholine metabolism in osteoarthritis patients with diabetes. <i>PLoS ONE</i> , 2017, 12, e0184105.	2.5	34
30	Higher serum choline and betaine levels are associated with better body composition in male but not female population. <i>PLoS ONE</i> , 2018, 13, e0193114.	2.5	34
31	Cardiac troponin testing in the acute care setting: Ordering, reporting, and high sensitivity assays—An update from the Canadian society of clinical chemists (CSCC). <i>Clinical Biochemistry</i> , 2011, 44, 1273-1277.	1.9	30
32	Serum retinol-binding protein 4 concentrations in response to short-term overfeeding in normal-weight, overweight, and obese men. <i>American Journal of Clinical Nutrition</i> , 2007, 86, 1310-1315.	4.7	28
33	Serum peptide YY in response to short-term overfeeding in young men. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 741-747.	4.7	27
34	Transference of CALIPER pediatric reference intervals to biochemical assays on the Roche cobas 6000 and the Roche Modular P. <i>Clinical Biochemistry</i> , 2016, 49, 139-149.	1.9	24
35	Autoverification of test results in the core clinical laboratory. <i>Clinical Biochemistry</i> , 2019, 73, 11-25.	1.9	24
36	Gender Dependent Association of Thrombospondin-4 A387P Polymorphism With Myocardial Infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, e183-4.	2.4	23

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37	CLSI-based transference of CALIPER pediatric reference intervals to Beckman Coulter AU biochemical assays. <i>Clinical Biochemistry</i> , 2015, 48, 1151-1159.	1.9	23
38	Restriction of dietary methyl donors limits methionine availability and affects the partitioning of dietary methionine for creatine and phosphatidylcholine synthesis in the neonatal piglet. <i>Journal of Nutritional Biochemistry</i> , 2016, 35, 81-86.	4.2	23
39	Metabolomics Signature for Non-Responders to Total Joint Replacement Surgery in Primary Osteoarthritis Patients: The Newfoundland Osteoarthritis Study. <i>Journal of Orthopaedic Research</i> , 2020, 38, 793-802.	2.3	23
40	CLSI-based transference of the CALIPER database of pediatric reference intervals to Beckman Coulter DxC biochemical assays. <i>Clinical Biochemistry</i> , 2015, 48, 870-880.	1.9	21
41	Endotypes of primary osteoarthritis identified by plasma metabolomics analysis. <i>Rheumatology</i> , 2021, 60, 2735-2744.	1.9	21
42	The Association of Serum Total Peptide YY (PYY) with Obesity and Body Fat Measures in the CODING Study. <i>PLoS ONE</i> , 2014, 9, e95235.	2.5	20
43	Autoverification process improvement by Six Sigma approach: Clinical chemistry & immunoassay. <i>Clinical Biochemistry</i> , 2018, 55, 42-48.	1.9	20
44	Pre-operative and post-operative changes in CRP and other biomarkers sensitive to inflammatory status in patients with severe obesity undergoing laparoscopic sleeve gastrectomy. <i>Clinical Biochemistry</i> , 2018, 52, 13-19.	1.9	20
45	Loss of CD24 in Mice Leads to Metabolic Dysfunctions and a Reduction in White Adipocyte Tissue. <i>PLoS ONE</i> , 2015, 10, e0141966.	2.5	19
46	Short-Term Overfeeding Increases Circulating Adiponectin Independent of Obesity Status. <i>PLoS ONE</i> , 2013, 8, e74215.	2.5	17
47	Canadian society of clinical chemists (CSCC) interim consensus guidance for testing and reporting of SARS-CoV-2 serology. <i>Clinical Biochemistry</i> , 2020, 86, 1-7.	1.9	17
48	Systematic investigation of the relationships of trimethylamine N-oxide and L-carnitine with obesity in both humans and rodents. <i>Food and Function</i> , 2020, 11, 7707-7716.	4.6	17
49	Metabolomic analysis coupled with extreme phenotype sampling identified that lysophosphatidylcholines are associated with multisite musculoskeletal pain. <i>Pain</i> , 2021, 162, 600-608.	4.2	17
50	Changes in serum carbohydrate-deficient transferrin and gamma-glutamyl transferase after moderate wine consumption in healthy males. <i>Alcoholism: Clinical and Experimental Research</i> , 1998, 22, 92-97.		16
51	A classification modeling approach for determining metabolite signatures in osteoarthritis. <i>PLoS ONE</i> , 2018, 13, e0199618.	2.5	16
52	Effect of Temperature and Time on Fecal Hemoglobin Stability in 5 Fecal Immunochemical Test Methods and One Guaiac Method. <i>Archives of Pathology and Laboratory Medicine</i> , 2018, 142, 75-82.	2.5	15
53	Preoperative and Postoperative Assessments of Biochemical Parameters in Patients with Severe Obesity Undergoing Laparoscopic Sleeve Gastrectomy. <i>Obesity Surgery</i> , 2018, 28, 2261-2271.	2.1	14
54	Restricting Branched-Chain Amino Acids within a High-Fat Diet Prevents Obesity. <i>Metabolites</i> , 2022, 12, 334.	2.9	14

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55	An automated enzymatic method on the Roche COBAS MIRATM S for monitoring phenylalanine in dried blood spots of patients with phenylketonuria. <i>Clinical Biochemistry</i> , 1996, 29, 133-138.	1.9	13
56	d-Lactate: A Novel Contributor to Metabolic Acidosis and High Anion Gap in Diabetic Ketoacidosis. <i>Clinical Chemistry</i> , 2013, 59, 1406-1407.	3.2	13
57	METABOLOMICS DIFFERENTIAL CORRELATION NETWORK ANALYSIS OF OSTEOARTHRITIS. , 2016, , .		13
58	Cobalamin Deficiency Results in Increased Production of Formate Secondary to Decreased Mitochondrial Oxidation of One-Carbon Units in Rats. <i>Journal of Nutrition</i> , 2018, 148, 358-363.	2.9	13
59	Serum lysophosphatidylcholines to phosphatidylcholines ratio is associated with symptomatic responders to symptomatic drugs in knee osteoarthritis patients. <i>Arthritis Research and Therapy</i> , 2019, 21, 224.	3.5	13
60	Dietary methyl donors affect in vivo methionine partitioning between transmethylation and protein synthesis in the neonatal piglet. <i>Amino Acids</i> , 2016, 48, 2821-2830.	2.7	12
61	On the path to evidence-based reporting of serum protein electrophoresis patterns in the absence of a discernible monoclonal protein â€” A critical review of literature and practice suggestions. <i>Clinical Biochemistry</i> , 2018, 51, 29-37.	1.9	12
62	Baseline urinary KIM-1 concentration in detecting acute kidney injury should be interpreted with patient pre-existing nephropathy. <i>Practical Laboratory Medicine</i> , 2019, 15, e00118.	1.3	12
63	Differential correlation network analysis identified novel metabolomics signatures for non-responders to total joint replacement in primary osteoarthritis patients. <i>Metabolomics</i> , 2020, 16, 61.	3.0	12
64	Fructose and moderately high dietary salt-induced hypertension: prevention by a combination of N-acetylcysteine and l-arginine. <i>Molecular and Cellular Biochemistry</i> , 2010, 337, 9-16.	3.1	10
65	Differential metabolomics networks analysis of menopausal status. <i>PLoS ONE</i> , 2019, 14, e0222353.	2.5	10
66	Phenylalanine Is a Novel Marker for Radiographic Knee Osteoarthritis Progression: The MOST Study. <i>Journal of Rheumatology</i> , 2021, 48, 123-128.	2.0	10
67	Association Between Epidemiological Factors and Nonresponders to Total Joint Replacement Surgery in Primary Osteoarthritis Patients. <i>Journal of Arthroplasty</i> , 2021, 36, 1502-1510.e5.	3.1	10
68	Cardiac Biomarkers and Health-Related Quality of Life in New Hemodialysis Patients without Symptomatic Cardiac Disease. <i>Canadian Journal of Kidney Health and Disease</i> , 2014, 1, 16.	1.1	9
69	Strategy for 90% autoverification of clinical chemistry and immunoassay test results using six sigma process improvement. <i>Data in Brief</i> , 2018, 18, 1740-1749.	1.0	9
70	Betaine or folate can equally furnish remethylation to methionine and increase transmethylation in methionine-restricted neonates. <i>Journal of Nutritional Biochemistry</i> , 2018, 59, 129-135.	4.2	9
71	Low serum choline and high serum betaine levels are associated with favorable components of metabolic syndrome in Newfoundland population. <i>Journal of Diabetes and Its Complications</i> , 2019, 33, 107398.	2.3	9
72	Evaluation of Hemo Techt NS-Plus system for use in a province-wide colorectal cancer screening program. <i>Clinical Biochemistry</i> , 2013, 46, 365-368.	1.9	7

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73	User competency is still a major factor affecting analytical performance of glucose meters in patient service. <i>Clinical Biochemistry</i> , 2019, 63, 66-71.	1.9	7
74	Direct targeted glycation of the free sulfhydryl group of cysteine residue (Cys34) of BSA. Mapping of the glycation sites of the anti-tumor Thomsen-Friedenreich neoglycoconjugate vaccine prepared by Michael addition reaction. <i>Journal of Mass Spectrometry</i> , 2014, 49, 1223-1233.	1.6	6
75	Evaluation of the accuracy of enzymatically determined carrier status for Krabbe disease by DNA-based testing. <i>Clinical Biochemistry</i> , 2000, 33, 217-220.	1.9	5
76	Metabolomics analysis of human plasma metabolites reveals the age- and sex-specific associations. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2020, 43, 185-194.	1.0	5
77	Su1216 Effect of Temperature, Time and Freeze/Thaw Cycles on the Stability of Fecal Hemoglobin Using Five Commercial Fecal Immunochemical Test (FIT) Methods and One Guaiac Method. <i>Gastroenterology</i> , 2014, 146, S-404.	1.3	4
78	Sphingomyelin is involved in multisite musculoskeletal pain: evidence from metabolomic analysis in 2 independent cohorts. <i>Pain</i> , 2021, 162, 1876-1881.	4.2	4
79	Canadian Society of Clinical Chemists (CSCC) consensus guidance for testing, selection and quality management of SARS-CoV-2 point-of-care tests. <i>Clinical Biochemistry</i> , 2021, 95, 1-12.	1.9	3
80	Metabolomic signatures for the longitudinal reduction of muscle strength over 10 years. <i>Skeletal Muscle</i> , 2022, 12, 4.	4.2	3
81	An extremely low prevalence of factor V Leiden, FIIIG20210A and FXIIIV34L in Taiwan Chinese population. <i>Thrombosis and Haemostasis</i> , 2002, 87, 1081-2.	3.4	3
82	Evaluation of the analytical performance of the novel NS-Prime system and examination of temperature stability of fecal transferrin compared with fecal hemoglobin as biomarkers in a colon cancer screening program. <i>Practical Laboratory Medicine</i> , 2015, 2, 29-36.	1.3	2
83	The <i>in situ</i> gas-phase formation of a C-glycoside ion obtained during electrospray ionization tandem mass spectrometry. A unique intramolecular mechanism involving an ion-molecule reaction. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1717-1732.	1.5	2
84	The effect of laboratory requisition modification, audit and feedback with academic detailing or both on utilization of blood urea testing in family practice in Newfoundland, Canada. <i>Clinical Biochemistry</i> , 2020, 83, 21-27.	1.9	2
85	Task-Oriented Circuit Training as an Alternative to Ergometer-Type Aerobic Exercise Training after Stroke. <i>Journal of Clinical Medicine</i> , 2021, 10, 2423.	2.4	1