

# 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	Metabolomic signatures for the longitudinal reduction of muscle strength over 10 years. <i>Skeletal Muscle</i> , 2022, 12, 4.	4.2	3
2	Restricting Branched-Chain Amino Acids within a High-Fat Diet Prevents Obesity. <i>Metabolites</i> , 2022, 12, 334.	2.9	14
3	Endotypes of primary osteoarthritis identified by plasma metabolomics analysis. <i>Rheumatology</i> , 2021, 60, 2735-2744.	1.9	21
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Metabolomics Signature for Nonresponders 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
12	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
13	Systematic investigation of the relationships of trimethylamine <i>N</i> -oxide and carnitine with obesity in both humans and rodents. <i>Food and Function</i> , 2020, 11, 7707-7716.	4.6	17
14	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
15	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
16	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
17	Autoverification of test results in the core clinical laboratory. <i>Clinical Biochemistry</i> , 2019, 73, 11-25.	1.9	24
18	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

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19	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
20	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
21	Differential metabolomics networks analysis of menopausal status. <i>PLoS ONE</i> , 2019, 14, e0222353.	2.5	10
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	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
24	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
25	Delta Checks in the clinical laboratory. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 75-97.	6.1	39
26	Autoverification process improvement by Six Sigma approach: Clinical chemistry & immunoassay. <i>Clinical Biochemistry</i> , 2018, 55, 42-48.	1.9	20
27	Metabolomics of osteoarthritis: emerging novel markers and their potential clinical utility. <i>Rheumatology</i> , 2018, 57, 2087-2095.	1.9	35
28	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
29	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
30	On the path to evidence-based reporting of serum protein electrophoresis patterns in the absence of a discernible monoclonal protein – A critical review of literature and practice suggestions. <i>Clinical Biochemistry</i> , 2018, 51, 29-37.	1.9	12
31	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
32	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
33	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
34	A classification modeling approach for determining metabolite signatures in osteoarthritis. <i>PLoS ONE</i> , 2018, 13, e0199618.	2.5	16
35	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
36	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

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37	Hyperglycemia-related advanced glycation end-products is associated with the altered phosphatidylcholine metabolism in osteoarthritis patients with diabetes. PLoS ONE, 2017, 12, e0184105.	2.5	34
38	METABOLOMICS DIFFERENTIAL CORRELATION NETWORK ANALYSIS OF OSTEOARTHRITIS. , 2016, , .		13
39	Serum metabolic biomarkers distinguish metabolically healthy peripherally obese from unhealthy centrally obese individuals. Nutrition and Metabolism, 2016, 13, 33.	3.0	55
40	Dietary methyl donors affect in vivo methionine partitioning between transmethylation and protein synthesis in the neonatal piglet. Amino Acids, 2016, 48, 2821-2830.	2.7	12
41	Restriction of dietary methyl donors limits methionine availability and affects the partitioning of dietary methionine for creatine and phosphatidylcholine synthesis in the neonatal piglet. Journal of Nutritional Biochemistry, 2016, 35, 81-86.	4.2	23
42	Metabolomic analysis of human synovial fluid and plasma reveals that phosphatidylcholine metabolism is associated with both osteoarthritis and diabetes mellitus. Metabolomics, 2016, 12, 1.	3.0	37
43	Transference of CALIPER pediatric reference intervals to biochemical assays on the Roche cobas 6000 and the Roche Modular P. Clinical Biochemistry, 2016, 49, 139-149.	1.9	24
44	Higher Dietary Choline and Betaine Intakes Are Associated with Better Body Composition in the Adult Population of Newfoundland, Canada. PLoS ONE, 2016, 11, e0155403.	2.5	60
45	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. Practical Laboratory Medicine, 2015, 2, 29-36.	1.3	2
46	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. Rapid Communications in Mass Spectrometry, 2015, 29, 1717-1732.	1.5	2
47	Loss of CD24 in Mice Leads to Metabolic Dysfunctions and a Reduction in White Adipocyte Tissue. PLoS ONE, 2015, 10, e0141966.	2.5	19
48	CLSI-based transference of CALIPER pediatric reference intervals to Beckman Coulter AU biochemical assays. Clinical Biochemistry, 2015, 48, 1151-1159.	1.9	23
49	Relationship Between Blood Plasma and Synovial Fluid Metabolite Concentrations in Patients with Osteoarthritis. Journal of Rheumatology, 2015, 42, 859-865.	2.0	45
50	CLSI-based transference of the CALIPER database of pediatric reference intervals to Beckman Coulter DxC biochemical assays. Clinical Biochemistry, 2015, 48, 870-880.	1.9	21
51	The Association of Serum Total Peptide YY (PYY) with Obesity and Body Fat Measures in the CODING Study. PLoS ONE, 2014, 9, e95235.	2.5	20
52	Classification of osteoarthritis phenotypes by metabolomics analysis. BMJ Open, 2014, 4, e006286.	1.9	90
53	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. Journal of Mass Spectrometry, 2014, 49, 1223-1233.	1.6	6
54	Cardiac Biomarkers and Health-Related Quality of Life in New Hemodialysis Patients without Symptomatic Cardiac Disease. Canadian Journal of Kidney Health and Disease, 2014, 1, 16.	1.1	9

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55	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
56	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
57	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
58	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
59	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
60	Food Addiction: Its Prevalence and Significant Association with Obesity in the General Population. <i>PLoS ONE</i> , 2013, 8, e74832.	2.5	255
61	Short-Term Overfeeding Increases Circulating Adiponectin Independent of Obesity Status. <i>PLoS ONE</i> , 2013, 8, e74215.	2.5	17
62	High Dietary Magnesium Intake Is Associated with Low Insulin Resistance in the Newfoundland Population. <i>PLoS ONE</i> , 2013, 8, e58278.	2.5	59
63	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
64	Closing the anion gap: Contribution of d-lactate to diabetic ketoacidosis. <i>Clinica Chimica Acta</i> , 2011, 412, 286-291.	1.1	49
65	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
66	Increased plasma methylglyoxal level, inflammation, and vascular endothelial dysfunction in diabetic nephropathy. <i>Clinical Biochemistry</i> , 2011, 44, 307-311.	1.9	119
67	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
68	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
69	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
70	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
71	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
72	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

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73	A Case of Fatal Aconitine Poisoning by Monkshood Ingestion*. Journal of Forensic Sciences, 2008, 53, 491-494.	1.6	73
74	Relationship between serum magnesium values, lipids and anthropometric risk factors. Atherosclerosis, 2008, 196, 413-419.	0.8	55
75	Serum visfatin concentrations are positively correlated with serum triacylglycerols and down-regulated by overfeeding in healthy young men. American Journal of Clinical Nutrition, 2007, 85, 399-404.	4.7	81
76	Serum retinol-binding protein 4 concentrations in response to short-term overfeeding in normal-weight, overweight, and obese men. American Journal of Clinical Nutrition, 2007, 86, 1310-1315.	4.7	28
77	Plasma protein advanced glycation end products, carboxymethyl cysteine, and carboxyethyl cysteine, are elevated and related to nephropathy in patients with diabetes. Molecular and Cellular Biochemistry, 2007, 302, 35-42.	3.1	83
78	Plasma methylglyoxal and glyoxal are elevated and related to early membrane alteration in young, complication-free patients with Type 1 diabetes. Molecular and Cellular Biochemistry, 2007, 305, 123-131.	3.1	115
79	Relationship between serum butyrylcholinesterase and the metabolic syndrome. Clinical Biochemistry, 2005, 38, 799-805.	1.9	83
80	Gender Dependent Association of Thrombospondin-4 A387P Polymorphism With Myocardial Infarction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, e183-4.	2.4	23
81	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. Blood, 2003, 101, 3037-3041.	1.4	67
82	An extremely low prevalence of factor V Leiden, FIIIG20210A and FXIIIV34L in Taiwan Chinese population. Thrombosis and Haemostasis, 2002, 87, 1081-2.	3.4	3
83	Evaluation of the accuracy of enzymatically determined carrier status for Krabbe disease by DNA-based testing. Clinical Biochemistry, 2000, 33, 217-220.	1.9	5
84	Changes in serum carbohydrate-deficient transferrin and gammaglutamyl transferase after moderate wine consumption in healthy males. , 1998, 12, 92-97.		16
85	An automated enzymatic method on the Roche COBAS MIRATM S for monitoring phenylalanine in dried blood spots of patients with phenylketonuria. Clinical Biochemistry, 1996, 29, 133-138.	1.9	13