

Fred S Apple

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109 papers	6,172 citations	41 h-index	77 g-index
120 ext. papers	7,226 ext. citations	6.2 avg, IF	5.77 L-index

#	Paper	IF	Citations
109	Implementation of High-Sensitivity and Point-of-Care Cardiac Troponin Assays into Practice: Some Different Thoughts. <i>Clinical Chemistry</i> , 2021 , 67, 70-78	5.5	5
108	Independent and combined effects of biotin and hemolysis on high-sensitivity cardiac troponin assays. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021 , 59, 1431-1443	5.9	4
107	High-Sensitivity Cardiac Troponin on Presentation to Rule Out Myocardial Infarction: A Stepped-Wedge Cluster Randomized Controlled Trial. <i>Circulation</i> , 2021 , 143, 2214-2224	16.7	14
106	Biomarker Testing Considerations in the Evaluation and Management of Patients With Heart Failure: Perspectives From the International Federation of Clinical Chemistry and Laboratory Medicine Committee. <i>Journal of Cardiac Failure</i> , 2021 , 27, 1456-1461	3.3	0
105	Cardiac Troponin Testing in Patients with COVID-19: A Strategy for Testing and Reporting Results. <i>Clinical Chemistry</i> , 2021 , 67, 107-113	5.5	14
104	Biomarkers in Cardiovascular Disease: Utility in Diagnosis, Risk Assessment, and Therapy. <i>Clinical Chemistry</i> , 2021 , 67, 1-3	5.5	0
103	Laboratory findings in a child with SARS-CoV-2 (COVID-19) multisystem inflammatory syndrome. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021 , 59, e259-e261	5.9	1
102	Cardiac Troponin Thresholds and Kinetics to Differentiate Myocardial Injury and Myocardial Infarction. <i>Circulation</i> , 2021 , 144, 528-538	16.7	5
101	The utility of risk scores when evaluating for acute myocardial infarction using high-sensitivity cardiac troponin I. <i>American Heart Journal</i> , 2020 , 227, 1-8	4.9	3
100	Comparison of 0/3-Hour Rapid Rule-Out Strategies Using High-Sensitivity Cardiac Troponin I in a US Emergency Department. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2020 , 13, e006565	5.8	3
99	Upper reference limits and percent measurable concentrations using a universal sample bank for high sensitivity cardiac troponin I using a point-of-care assay. <i>Clinical Biochemistry</i> , 2020 , 83, 89-91	3.5	1
98	High-sensitivity cardiac troponin assays for cardiovascular risk stratification in the general population. <i>European Heart Journal</i> , 2020 , 41, 4050-4056	9.5	40
97	Sex-Specific 99th Percentile Upper Reference Limits for High Sensitivity Cardiac Troponin Assays Derived Using a Universal Sample Bank. <i>Clinical Chemistry</i> , 2020 , 66, 434-444	5.5	32
96	Lot-to-Lot Variation for Commercial High-Sensitivity Cardiac Troponin: Can We Realistically Report Down to the Assay's Limit of Detection?. <i>Clinical Chemistry</i> , 2020 , 66, 1146-1149	5.5	3
95	Biomarkers Enhance Discrimination and Prognosis of Type 2 Myocardial Infarction. <i>Circulation</i> , 2020 , 142, 1532-1544	16.7	14
94	High-Sensitivity Cardiac Troponin and the Universal Definition of Myocardial Infarction. <i>Circulation</i> , 2020 , 141, 161-171	16.7	61
93	Machine Learning to Predict the Likelihood of Acute Myocardial Infarction. <i>Circulation</i> , 2019 ,	16.7	52

92	Myocardial Infarction Risk Stratification With a Single Measurement of High-Sensitivity Troponin I. <i>Journal of the American College of Cardiology</i> , 2019 , 74, 271-282	15.1	49
91	Clinical use of cardiac troponin for acute cardiac care and emerging opportunities in the outpatient setting. <i>Minerva Medica</i> , 2019 , 110, 139-156	2.2	4
90	Cardiac troponin and natriuretic peptide analytical interferences from hemolysis and biotin: educational aids from the IFCC Committee on Cardiac Biomarkers (IFCC C-CB). <i>Clinical Chemistry and Laboratory Medicine</i> , 2019 , 57, 633-640	5.9	27
89	Clinical Laboratory Practice Recommendations for the Use of Cardiac Troponin in Acute Coronary Syndrome: Expert Opinion from the Academy of the American Association for Clinical Chemistry and the Task Force on Clinical Applications of Cardiac Bio-Markers of the International Federation of Clinical Chemistry and Laboratory Medicine. <i>Clinical Chemistry</i> , 2018 , 64, 645-655	5.5	211
88	High-sensitivity troponin in the evaluation of patients with suspected acute coronary syndrome: a stepped-wedge, cluster-randomised controlled trial. <i>Lancet, The</i> , 2018 , 392, 919-928	4.0	144
87	Heroin-related Deaths from the Hennepin County Medical Examiner's Office from 2004 Through 2015. <i>Journal of Forensic Sciences</i> , 2018 , 63, 191-194	1.8	5
86	Multicenter assessment of a hemoglobin A1c point-of-care device for diagnosis of diabetes mellitus. <i>Clinical Biochemistry</i> , 2018 , 61, 18-22	3.5	5
85	Endurance Exercise Training Attenuates Natriuretic Peptide Release During Maximal Effort Exercise: Biochemical Correlates of the "Athlete's Heart". <i>Journal of Applied Physiology</i> , 2018 ,	3.7	2
84	Searching for a BNP standard: Glycosylated proBNP as a common calibrator enables improved comparability of commercial BNP immunoassays. <i>Clinical Biochemistry</i> , 2017 , 50, 181-185	3.5	12
83	Single High-Sensitivity Cardiac Troponin I to Rule Out Acute Myocardial Infarction. <i>American Journal of Medicine</i> , 2017 , 130, 1076-1083.e1	2.4	36
82	Cardiac Troponin Assays: Guide to Understanding Analytical Characteristics and Their Impact on Clinical Care. <i>Clinical Chemistry</i> , 2017 , 63, 73-81	5.5	202
81	Best Practices for Monitoring Cardiac Troponin in Detecting Myocardial Injury. <i>Clinical Chemistry</i> , 2017 , 63, 37-44	5.5	7
80	Specificity of B-Type Natriuretic Peptide Assays: Cross-Reactivity with Different BNP, NT-proBNP, and proBNP Peptides. <i>Clinical Chemistry</i> , 2017 , 63, 351-358	5.5	45
79	Creation of a Universal Sample Bank for Determining the 99th Percentile for Cardiac Troponin Assays. <i>Journal of Applied Laboratory Medicine</i> , 2017 , 1, 711-719	2	15
78	Sex-specific 99th percentiles derived from the AACC Universal Sample Bank for the Roche Gen 5 cTnT assay: Comorbidities and statistical methods influence derivation of reference limits. <i>Clinical Biochemistry</i> , 2017 , 50, 1073-1077	3.5	24
77	Type 1 and 2 Myocardial Infarction and Myocardial Injury: Clinical Transition to High-Sensitivity Cardiac Troponin I. <i>American Journal of Medicine</i> , 2017 , 130, 1431-1439.e4	2.4	62
76	The new face of heroin. <i>American Journal of Emergency Medicine</i> , 2017 , 35, 1978-1979	2.9	4
75	Commentary. <i>Clinical Chemistry</i> , 2017 , 63, 1573-1574	5.5	

74	Association of High-Sensitivity Cardiac Troponin I Concentration With Cardiac Outcomes in Patients With Suspected Acute Coronary Syndrome. <i>JAMA - Journal of the American Medical Association</i> , 2017 , 318, 1913-1924	27.4	117
73	Diagnostic Performance of High Sensitivity Compared with Contemporary Cardiac Troponin I for the Diagnosis of Acute Myocardial Infarction. <i>Clinical Chemistry</i> , 2017 , 63, 1594-1604	5.5	31
72	Patient selection for high sensitivity cardiac troponin testing and diagnosis of myocardial infarction: prospective cohort study. <i>BMJ, The</i> , 2017 , 359, j4788	5.9	60
71	Serial sampling of copeptin levels improves diagnosis and risk stratification in patients presenting with chest pain: results from the CHOPIN trial. <i>Emergency Medicine Journal</i> , 2016 , 33, 23-9	1.5	8
70	The applied statistical approach highly influences the 99th percentile of cardiac troponin I. <i>Clinical Biochemistry</i> , 2016 , 49, 1109-1112	3.5	45
69	Incidence of Undetectable, Measurable, and Increased Cardiac Troponin I Concentrations Above the 99th Percentile Using a High-Sensitivity vs a Contemporary Assay in Patients Presenting to the Emergency Department. <i>Clinical Chemistry</i> , 2016 , 62, 1115-9	5.5	26
68	Urine Creatinine Concentrations in Drug Monitoring Participants and Hospitalized Patients. <i>Journal of Analytical Toxicology</i> , 2016 , 40, 659-662	2.9	6
67	Effectiveness of practices for improving the diagnostic accuracy of Non ST Elevation Myocardial Infarction in the Emergency Department: A Laboratory Medicine Best Practices Systematic review. <i>Clinical Biochemistry</i> , 2015 , 48, 204-12	3.5	17
66	Multiple biomarkers including cardiac troponins T and I measured by high-sensitivity assays, as predictors of long-term mortality in patients with chronic renal failure who underwent dialysis. <i>American Journal of Cardiology</i> , 2015 , 115, 1601-6	3	15
65	Diagnosis of type 1 and type 2 myocardial infarction using a high-sensitivity cardiac troponin I assay with sex-specific 99th percentiles based on the third universal definition of myocardial infarction classification system. <i>Clinical Chemistry</i> , 2015 , 61, 657-63	5.5	55
64	High-sensitivity cardiac troponin I at presentation in patients with suspected acute coronary syndrome: a cohort study. <i>Lancet, The</i> , 2015 , 386, 2481-8	40	293
63	3: Comparison of Point-of-Care and Central Laboratory Methods for the Measurement of Cardiac Troponin I in Patients With Suspected Acute Myocardial Infarction. <i>American Journal of Clinical Pathology</i> , 2015 , 143, A002-A002	1.9	1
62	High sensitivity cardiac troponin and the under-diagnosis of myocardial infarction in women: prospective cohort study. <i>BMJ, The</i> , 2015 , 350, g7873	5.9	256
61	Type 2 myocardial infarction. Potential hazards of nomenclature systems: user discretion advised. <i>International Journal of Cardiology</i> , 2015 , 179, 373-4	3.2	9
60	Electronic medical record-based performance improvement project to document and reduce excessive cardiac troponin testing. <i>Clinical Chemistry</i> , 2015 , 61, 498-504	5.5	11
59	Improving the 510(k) FDA process for cardiac troponin assays: in search of common ground. <i>Clinical Chemistry</i> , 2014 , 60, 1273-5	5.5	14
58	Men are different than women: it's true for cardiac troponin too. <i>Clinical Biochemistry</i> , 2014 , 47, 867-8	3.5	10
57	Cardiac troponin changes to distinguish type 1 and type 2 myocardial infarction and 180-day mortality risk. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2014 , 3, 317-25	4.3	65

56	Copeptin helps in the early detection of patients with acute myocardial infarction: primary results of the CHOPIN trial (Copeptin Helps in the early detection Of Patients with acute myocardial INfarction). <i>Journal of the American College of Cardiology</i> , 2013 , 62, 150-160	15.1	127
55	The state of cardiac troponin assays: looking bright and moving in the right direction. <i>Clinical Chemistry</i> , 2013 , 59, 1014-6	5.5	19
54	Delta changes for optimizing clinical specificity and 60-day risk of adverse events in patients presenting with symptoms suggestive of acute coronary syndrome utilizing the ADVIA Centaur TnI-Ultra assay. <i>Clinical Biochemistry</i> , 2012 , 45, 711-3	3.5	26
53	Analytical characteristics of high-sensitivity cardiac troponin assays. <i>Clinical Chemistry</i> , 2012 , 58, 54-61	5.5	611
52	Impact of biomarkers, proteomics, and genomics in cardiovascular disease. <i>Clinical Chemistry</i> , 2012 , 58, 1-2	5.5	9
51	Counterpoint: Standardization of cardiac troponin I assays will not occur in my lifetime. <i>Clinical Chemistry</i> , 2012 , 58, 169-71	5.5	53
50	Increased cardiac troponin I as measured by a high-sensitivity assay is associated with high odds of cardiovascular death: the Minnesota Heart Survey. <i>Clinical Chemistry</i> , 2012 , 58, 930-5	5.5	49
49	The challenges and concerns companies face pertaining to the US Food and Drug Administration 510(k) process for cardiac biomarkers. <i>Clinical Chemistry</i> , 2012 , 58, 31-8	5.5	4
48	High-sensitivity cardiac troponin for screening large populations of healthy people: is there risk?. <i>Clinical Chemistry</i> , 2011 , 57, 537-9	5.5	19
47	Myeloperoxidase improves risk stratification in patients with ischemia and normal cardiac troponin I concentrations. <i>Clinical Chemistry</i> , 2011 , 57, 603-8	5.5	19
46	Assessment of the multiple-biomarker approach for diagnosis of myocardial infarction in patients presenting with symptoms suggestive of acute coronary syndrome. <i>Clinical Chemistry</i> , 2009 , 55, 93-100	5.5	54
45	Use of the bioMérieux VIDAS troponin I ultra assay for the diagnosis of myocardial infarction and detection of adverse events in patients presenting with symptoms suggestive of acute coronary syndrome. <i>Clinica Chimica Acta</i> , 2008 , 390, 72-5	6.2	19
44	Use of the Centaur TnI-Ultra assay for detection of myocardial infarction and adverse events in patients presenting with symptoms suggestive of acute coronary syndrome. <i>Clinical Chemistry</i> , 2008 , 54, 723-8	5.5	134
43	National Academy of Clinical Biochemistry and IFCC Committee for Standardization of Markers of Cardiac Damage Laboratory Medicine Practice Guidelines: analytical issues for biomarkers of heart failure. <i>Clinical Biochemistry</i> , 2008 , 41, 222-6	3.5	19
42	Multiple biomarker use for detection of adverse events in patients presenting with symptoms suggestive of acute coronary syndrome. <i>Clinical Chemistry</i> , 2007 , 53, 874-81	5.5	81
41	National Academy of Clinical Biochemistry and IFCC Committee for Standardization of Markers of Cardiac Damage Laboratory Medicine Practice Guidelines: Analytical issues for biochemical markers of acute coronary syndromes. <i>Circulation</i> , 2007 , 115, e352-5	16.7	171
40	National Academy of Clinical Biochemistry and IFCC Committee for Standardization of Markers of Cardiac Damage Laboratory Medicine practice guidelines: Analytical issues for biomarkers of heart failure. <i>Circulation</i> , 2007 , 116, e95-8	16.7	68
39	Clinical biomarkers of cardiac injury: cardiac troponins and natriuretic peptides. <i>Toxicologic Pathology</i> , 2006 , 34, 91-3	2.1	2

38	Decreased patient charges following implementation of point-of-care cardiac troponin monitoring in acute coronary syndrome patients in a community hospital cardiology unit. <i>Clinica Chimica Acta</i> , 2006 , 370, 191-5	6.2	54
37	Biochemical Markers of Cardiac Injury in Normal, Surviving Septic, or Nonsurviving Septic Neonatal Foals. <i>Journal of Veterinary Internal Medicine</i> , 2005 , 19, 577-580	3.1	51
36	The diagnostic utility of cardiac biomarkers in detecting myocardial infarction. <i>Clinical Cornerstone</i> , 2005 , 7 Suppl 1, S25-30		14
35	Clinical and analytical review of ischemia-modified albumin measured by the albumin cobalt binding test. <i>Advances in Clinical Chemistry</i> , 2005 , 39, 1-10	5.8	19
34	Future biomarkers for detection of ischemia and risk stratification in acute coronary syndrome. <i>Clinical Chemistry</i> , 2005 , 51, 810-24	5.5	34 ⁰
33	Quality specifications for B-type natriuretic peptide assays. <i>Clinical Chemistry</i> , 2005 , 51, 486-93	5.5	161
32	Neopterin: Still a Forgotten Biomarker. <i>Clinical Chemistry</i> , 2005 , 51, 1903-1903	5.5	3
31	Multi-biomarker risk stratification of N-terminal pro-B-type natriuretic peptide, high-sensitivity C-reactive protein, and cardiac troponin T and I in end-stage renal disease for all-cause death. <i>Clinical Chemistry</i> , 2004 , 50, 2279-85	5.5	175
30	Analytical issues for cardiac troponin. <i>Progress in Cardiovascular Diseases</i> , 2004 , 47, 189-95	8.5	10
29	Diagnostic and prognostic value of cardiac troponin I assays in patients admitted with symptoms suggestive of acute coronary syndrome. <i>Archives of Pathology and Laboratory Medicine</i> , 2004 , 128, 430-4 ⁵		10
28	Predictive value of cardiac troponin I and T for subsequent death in end-stage renal disease. <i>Circulation</i> , 2002 , 106, 2941-5	16.7	412
27	Assessment of the Diagnostic Accuracy of the TDx-FLM II to Predict Fetal Lung Maturity. <i>Clinical Chemistry</i> , 2002 , 48, 761-765	5.5	20
26	Release Characteristics of Cardiac Biomarkers and Ischemia-modified Albumin as Measured by the Albumin Cobalt-binding Test after a Marathon Race. <i>Clinical Chemistry</i> , 2002 , 48, 1097-1100	5.5	129
25	Multicenter Evaluation of an Automated Assay for Troponin I. <i>Clinical Chemistry</i> , 2002 , 48, 869-876	5.5	96
24	False-Positive Lysergic Acid Diethylamide Immunoassay Screen Associated with Fentanyl Medication. <i>Clinical Chemistry</i> , 2002 , 48, 205-206	5.5	14
23	Cardiac troponin: redefining the detection of myocardial infarction. <i>American Clinical Laboratory</i> , 2002 , 21, 32-4		1
22	Release characteristics of cardiac biomarkers and ischemia-modified albumin as measured by the albumin cobalt-binding test after a marathon race. <i>Clinical Chemistry</i> , 2002 , 48, 1097-100	5.5	27
21	Cardiac troponin assays: analytical issues and clinical reference range cutpoints. <i>Cardiovascular Toxicology</i> , 2001 , 1, 93-8	3.4	16

20	Analysis of the Albumin Cobalt Binding (ACB) test as an adjunct to cardiac troponin I for the early detection of acute myocardial infarction. <i>Cardiovascular Toxicology</i> , 2001 , 1, 147-51	3-4	47
19	Tricyclic antidepressant fatality: postmortem tissue concentrations. <i>Journal of Toxicology: Clinical Toxicology</i> , 2001 , 39, 649-50		4
18	Myocardial Infarction Redefined: Role of Cardiac Troponin Testing. <i>Clinical Chemistry</i> , 2001 , 47, 377-379	5-5	124
17	Cardiac Troponin T Is Not Detected in Western Blots of Diseased Renal Tissue. <i>Clinical Chemistry</i> , 2001 , 47, 782-783	5-5	18
16	Evidence-based Implementation of Free Phenytoin Therapeutic Drug Monitoring. <i>Clinical Chemistry</i> , 2000 , 46, 1132-1135	5-5	43
15	Propofol-associated Rhabdomyolysis with Cardiac Involvement in Adults: Chemical and Anatomic Findings. <i>Clinical Chemistry</i> , 2000 , 46, 577-581	5-5	92
14	Preliminary Evaluation of the Vitros ECI Cardiac Troponin I Assay. <i>Clinical Chemistry</i> , 2000 , 46, 560-576	5-5	35
13	Multicenter Clinical and Analytical Evaluation of the AxSYM Troponin-I Immunoassay to Assist in the Diagnosis of Myocardial Infarction. <i>Clinical Chemistry</i> , 1999 , 45, 206-212	5-5	85
12	RNA Expression of Cardiac Troponin T Isoforms in Diseased Human Skeletal Muscle. <i>Clinical Chemistry</i> , 1999 , 45, 2129-2135	5-5	96
11	Biochemical markers of thrombolytic success. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 1999 , 59, 60-66	2	8
10	Another reader comments on the same article:. <i>Clinical Chemistry</i> , 1998 , 44, 1786-1787	5-5	3
9	Prevention of Analytical False-Positive Increases of Cardiac Troponin I on the Stratus II Analyzer. <i>Clinical Chemistry</i> , 1997 , 43, 860-861	5-5	31
8	Cardiac troponin I, cardiac troponin T, and creatine kinase MB in dialysis patients without ischemic heart disease: evidence of cardiac troponin T expression in skeletal muscle. <i>Clinical Chemistry</i> , 1997 , 43, 976-982	5-5	172
7	Effect of sprint cycle training on activities of antioxidant enzymes in human skeletal muscle. <i>Journal of Applied Physiology</i> , 1996 , 81, 1484-7	3-7	85
6	DORA Q4-96: Directory of Rare Analyses Jocelyn M. Hicks, Donald S. Young. Washington, DC: AACC Press, 1994, 439 pp., \$80.00. ISBN 0-915274-72-8. <i>Clinical Chemistry</i> , 1995 , 41, 1549-1549	5-5	1
5	Serum creatine kinase isoenzyme measurements in master male and female marathon runners. <i>Research in Sports Medicine</i> , 1992 , 3, 237-242		1
4	Geographic distribution of xanthine oxidase, free radical scavengers, creatine kinase, and lactate dehydrogenase enzyme systems in rat heart and skeletal muscle. <i>American Journal of Anatomy</i> , 1991 , 192, 319-23		13
3	Liver and blood postmortem tricyclic antidepressant concentrations. <i>American Journal of Clinical Pathology</i> , 1988 , 89, 794-6	1-9	47

2	Creatine kinase isoforms following isometric exercise. <i>Muscle and Nerve</i> , 1987 , 10, 41-4	3.4	33
1	A comparison of modelled serum cTnT and cTnI kinetics after 60 min swimming. <i>Biomarkers</i> , 1-24	2.6	1