Katharina M Rentsch

List of Publications by Year
in descending order

101 papers	4,663 citations	117625 34 h-index	106344 65 g-index
103 all docs	103 docs citations	103 times ranked	4861 citing authors

#	Article	IF	Citations
1	St John's Wort induces intestinal P-glycoprotein/MDR1 and intestinal and hepatic CYP3A4. Clinical Pharmacology and Therapeutics, 2000, 68, 598-604.	4.7	515
2	Reduced-intensity conditioning and HLA-matched haemopoietic stem-cell transplantation in patients with chronic granulomatous disease: a prospective multicentre study. Lancet, The, 2014, 383, 436-448.	13.7	322
3	Prospective validation of a 1-hour algorithm to rule-out and rule-in acute myocardial infarction using a high-sensitivity cardiac troponin T assay. Cmaj, 2015, 187, E243-E252.	2.0	195
4	Optimal Cutoff Levels of More Sensitive Cardiac Troponin Assays for the Early Diagnosis of Myocardial Infarction in Patients With Renal Dysfunction. Circulation, 2015, 131, 2041-2050.	1.6	174
5	One-hour Rule-in and Rule-out of Acute Myocardial Infarction Using High-sensitivity Cardiac Troponin I. American Journal of Medicine, 2015, 128, 861-870.e4.	1.5	174
6	Direct comparison of high-sensitivity-cardiac troponin I vs. T for the early diagnosis of acute myocardial infarction. European Heart Journal, 2014, 35, 2303-2311.	2.2	166
7	Direct Comparison of 4 Very Early Rule-Out Strategies for Acute Myocardial Infarction Using High-Sensitivity Cardiac Troponin I. Circulation, 2017, 135, 1597-1611.	1.6	138
8	Impact of high-sensitivity cardiac troponin on use of coronary angiography, cardiac stress testing, and time to discharge in suspected acute myocardial infarction. European Heart Journal, 2016, 37, 3324-3332.	2.2	132
9	Two-hour Algorithm for Triage Toward Rule-out and Rule-in of Acute Myocardial Infarction Using High-sensitivity Cardiac Troponin T. American Journal of Medicine, 2015, 128, 369-379.e4.	1.5	121
10	Misdiagnosis of Myocardial Infarction Related to Limitations of the Current Regulatory Approach to Define Clinical Decision Values for Cardiac Troponin. Circulation, 2015, 131, 2032-2040.	1.6	111
11	0/1-Hour Triage Algorithm for Myocardial Infarction in Patients With Renal Dysfunction. Circulation, 2018, 137, 436-451.	1.6	110
12	Clinical Validation of a Novel High-Sensitivity Cardiac Troponin I Assay for Early Diagnosis of Acute Myocardial Infarction. Clinical Chemistry, 2018, 64, 1347-1360.	3.2	110
13	One-hour rule-in and rule-out of acute myocardial infarction using high-sensitivity cardiac troponin I. American Heart Journal, 2016, 171, 92-102.e5.	2.7	102
14	Pharmacokinetics and Pharmacodynamics of Lysergic Acid Diethylamide in Healthy Subjects. Clinical Pharmacokinetics, 2017, 56, 1219-1230.	3.5	96
15	Two-Hour Algorithm for Triage toward Rule-Out and Rule-In of Acute Myocardial Infarction by Use of High-Sensitivity Cardiac Troponin I. Clinical Chemistry, 2016, 62, 494-504.	3.2	95
16	Impact of age on the performance of the ESC 0/1h-algorithms for early diagnosis of myocardial infarction. European Heart Journal, 2018, 39, 3780-3794.	2.2	78
17	Clinical Effect of Sex-Specific Cutoff Values of High-Sensitivity Cardiac Troponin T in Suspected Myocardial Infarction. JAMA Cardiology, 2016, 1, 912.	6.1	75
18	Pharmacokinetics and Concentration-Effect Relationship of Oral LSD in Humans. International Journal of Neuropsychopharmacology, 2016, 19, pyv072.	2.1	75

#	Article	IF	Citations
19	Epidemiology of Severe Acute Respiratory Syndrome Coronavirus 2 Emergence Amidst Community-Acquired Respiratory Viruses. Journal of Infectious Diseases, 2020, 222, 1270-1279.	4.0	64
20	Safety and efficacy of the 0 h/3 h protocol for rapid rule out of myocardial infarction. American Heart Journal, 2016, 181, 16-25.	2.7	63
21	Direct Comparison of Cardiac Myosin-Binding Protein C With Cardiac Troponins for the Early Diagnosis of Acute Myocardial Infarction. Circulation, 2017, 136, 1495-1508.	1.6	63
22	Impact of haemoconcentration during acute heart failure therapy on mortality and its relationship with worsening renal function. European Journal of Heart Failure, 2017, 19, 226-236.	7.1	63
23	High-Sensitivity Cardiac Troponin I Assay for Early Diagnosis of Acute Myocardial Infarction. Clinical Chemistry, 2019, 65, 893-904.	3.2	59
24	Combining High-Sensitivity Cardiac Troponin I and Cardiac Troponin T in the Early Diagnosis of Acute Myocardial Infarction. Circulation, 2018, 138, 989-999.	1.6	56
25	Clinical benefit of high-sensitivity cardiac troponin I in the detection of exercise-induced myocardial ischemia. American Heart Journal, 2016, 173, 8-17.	2.7	55
26	Arterial and venous pharmacokinetics of intravenous heroin in subjects who are addicted to narcotics. Clinical Pharmacology and Therapeutics, 2001, 70, 237-246.	4.7	52
27	Topical Timolol for Infantile Hemangiomas: Evidence for Efficacy and Degree of Systemic Absorption. Pediatric Dermatology, 2016, 33, 184-190.	0.9	49
28	Direct Comparison of the 0/1h and 0/3h Algorithms for Early Rule-Out of Acute Myocardial Infarction. Circulation, 2018, 137, 2536-2538.	1.6	48
29	Accelerated diagnostic protocol using high-sensitivity cardiac troponin T in acute chest pain patients. International Journal of Cardiology, 2015, 184, 208-215.	1.7	46
30	Incidence of major adverse cardiac events following non-cardiac surgery. European Heart Journal: Acute Cardiovascular Care, 2021, 10, 550-558.	1.0	46
31	Incremental value of copeptin to highly sensitive cardiac Troponin I for rapid rule-out of myocardial infarction. International Journal of Cardiology, 2015, 190, 170-176.	1.7	44
32	Clinical Use of a New High-Sensitivity Cardiac Troponin I Assay in Patients with Suspected Myocardial Infarction. Clinical Chemistry, 2019, 65, 1426-1436.	3.2	41
33	Clinical Utility of Procalcitonin in the Diagnosis of Pneumonia. Clinical Chemistry, 2019, 65, 1532-1542.	3.2	37
34	Memory CD8+ T Cells Balance Pro- and Anti-inflammatory Activity by Reprogramming Cellular Acetate Handling at Sites of Infection. Cell Metabolism, 2020, 32, 457-467.e5.	16.2	37
35	Prevalence and outcome of dysnatremia in patients with COVID-19 compared to controls. European Journal of Endocrinology, 2021, 184, 409-418.	3.7	37
36	Two-Hour Algorithm for Rapid Triage of Suspected Acute Myocardial Infarction Using a High-Sensitivity Cardiac Troponin I Assay. Clinical Chemistry, 2019, 65, 1437-1447.	3.2	36

#	Article	IF	Citations
37	Brief validation of the novel GeneXpert Xpress SARS-CoV-2 PCR assay. Journal of Virological Methods, 2020, 284, 113925.	2.1	36
38	Development and validation of a rapid turboflow LC-MS/MS method for the quantification of LSD and 2-oxo-3-hydroxy LSD in serum and urine samples of emergency toxicological cases. Analytical and Bioanalytical Chemistry, 2015, 407, 1577-1584.	3.7	35
39	Early diagnosis of acute myocardial infarction in patients with mild elevations of cardiac troponin. Clinical Research in Cardiology, 2017, 106, 457-467.	3.3	35
40	Direct Comparison of 2 Rule-Out Strategies for Acute Myocardial Infarction: 2-h Accelerated Diagnostic Protocol vs 2-h Algorithm. Clinical Chemistry, 2017, 63, 1227-1236.	3.2	35
41	Ketamine vs. haloperidol for prevention of cognitive dysfunction and postoperative delirium: A phase IV multicentre randomised placebo-controlled double-blind clinical trial. Journal of Clinical Anesthesia, 2021, 68, 110099.	1.6	35
42	Early rule-out and rule-in of myocardial infarction using sensitive cardiac Troponin I. International Journal of Cardiology, 2015, 195, 163-170.	1.7	31
43	Incremental Value of a Single High-sensitivity Cardiac Troponin I Measurement to Rule Out Myocardial Ischemia. American Journal of Medicine, 2015, 128, 638-646.	1.5	31
44	Comparison of high-sensitivity cardiac troponin I and T for the prediction of cardiac complications after non-cardiac surgery. American Heart Journal, 2018, 203, 67-73.	2.7	31
45	Acute health problems due to recreational drug use in patients presenting to an urban emergency department in Switzerland. Swiss Medical Weekly, 2015, 145, w14166.	1.6	31
46	Prospective Validation of a Biomarker-Based Rule Out Strategy for Functionally Relevant Coronary Artery Disease. Clinical Chemistry, 2018, 64, 386-395.	3.2	30
47	HILIC LC-MS/MS method for the quantification of cefepime, imipenem and meropenem. Journal of Pharmaceutical and Biomedical Analysis, 2020, 186, 113289.	2.8	26
48	Development and validation of an LC‑MS/MS method to quantify lysergic acid diethylamide (LSD), iso‑LSD, 2‑oxo‑3‑hydroxy‑LSD, and nor‑LSD and identify novel metabolites in plasma samples in a controlled clinical trial. Journal of Clinical Laboratory Analysis, 2018, 32, .	2.1	23
49	Direct comparison of cardiac troponin I and cardiac troponin T in the detection of exercise-induced myocardial ischemia. Clinical Biochemistry, 2016, 49, 421-432.	1.9	21
50	Caffeine-dependent changes of sleep-wake regulation: Evidence for adaptation after repeated intake. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 99, 109851.	4.8	21
51	Prediction of mortality using quantification of renal function in acute heart failure. International Journal of Cardiology, 2015, 201, 650-657.	1.7	20
52	Clinical impact of the 2010–2012 low-end shift of high-sensitivity cardiac troponin T. European Heart Journal: Acute Cardiovascular Care, 2016, 5, 399-408.	1.0	20
53	Epidemiology and precision of SARS‑CoV‑2 detection following lockdown and relaxation measures. Journal of Medical Virology, 2021, 93, 2374-2384.	5.0	20
54	Direct Comparison of Cardiac Troponin T and I Using a Uniform and a Sex-Specific Approach in the Detection of Functionally Relevant Coronary Artery Disease. Clinical Chemistry, 2018, 64, 1596-1606.	3.2	19

#	Article	IF	Citations
55	A 2D HPLC-MS/MS method for several antibiotics in blood plasma, plasma water, and diverse tissue samples. Analytical and Bioanalytical Chemistry, 2020, 412, 715-725.	3.7	19
56	B-type Natriuretic Peptide and Clinical Judgment in the Detection of Exercise-induced Myocardial Ischemia. American Journal of Medicine, 2014, 127, 427-435.	1.5	18
57	Mannose-binding lectin protein and its association to clinical outcomes in COPD: a longitudinal study. Respiratory Research, 2015, 16, 150.	3.6	18
58	An algorithm for rule-in and rule-out of acute myocardial infarction using a novel troponin I assay. Heart, 2017, 103, 125-131.	2.9	18
59	Prospective validation of prognostic and diagnostic syncope scores in the emergency department. International Journal of Cardiology, 2018, 269, 114-121.	1.7	18
60	LC-MS/MS method for nine different antibiotics. Clinica Chimica Acta, 2020, 511, 360-367.	1.1	18
61	Clinical utility of inflammatory biomarkers in COVID-19 in direct comparison to other respiratory infectionsâ€"A prospective cohort study. PLoS ONE, 2022, 17, e0269005.	2.5	18
62	Evaluation of the effect of short-term treatment with the integrase inhibitor raltegravir (Isentressâ„¢) on the course of progressive feline leukemia virus infection. Veterinary Microbiology, 2015, 175, 167-178.	1.9	17
63	Presentations due to acute toxicity of psychoactive substances in an urban emergency department in Switzerland: a case series. BMC Pharmacology & Toxicology, 2016, 17, 25.	2.4	17
64	Systematic screening on admission for SARS-CoV-2 to detect asymptomatic infections. Antimicrobial Resistance and Infection Control, 2021, 10, 44.	4.1	17
65	The impact of daily caffeine intake on nighttime sleep in young adult men. Scientific Reports, 2021, 11, 4668.	3.3	17
66	Mistaking 2C-P for 2C-B: What a Difference a Letter Makes. Journal of Analytical Toxicology, 2017, 41, 77-79.	2.8	16
67	Prohormones in the Early Diagnosis of Cardiac Syncope. Journal of the American Heart Association, 2017, 6, .	3.7	16
68	Comparing Immunoassays for SARS-CoV-2 Antibody Detection in Patients with and without Laboratory-Confirmed SARS-CoV-2 Infection. Journal of Clinical Microbiology, 2021, 59, e0138121.	3.9	16
69	Danger of Herbal Tea: A Case of Acute Cholestatic Hepatitis Due to Artemisia annua Tea. Frontiers in Medicine, 2019, 6, 221.	2.6	15
70	Optimizing Early Rule-Out Strategies for Acute Myocardial Infarction: Utility of 1-Hour Copeptin. Clinical Chemistry, 2015, 61, 1466-1474.	3.2	14
71	Wide awake at bedtime? Effects of caffeine on sleep and circadian timing in male adolescents â€" A randomized crossover trial. Biochemical Pharmacology, 2021, 191, 114283.	4.4	13
72	Drug Exposure in Newborns: Effect of Selected Drugs Prescribed to Mothers During Pregnancy and Lactation. Therapeutic Drug Monitoring, 2020, 42, 255-263.	2.0	13

#	Article	IF	Citations
73	Probability of pharmacological target attainment with flucloxacillin in <i>Staphylococcus aureus</i> bloodstream infection: a prospective cohort study of unbound plasma and individual MICs. Journal of Antimicrobial Chemotherapy, 2021, 76, 1845-1854.	3.0	13
74	IFNλ3/4 locus polymorphisms and IFNλ3 circulating levels are associated with COPD severity and outcomes. BMC Pulmonary Medicine, 2018, 18, 51.	2.0	12
75	Regular Caffeine Intake Delays REM Sleep Promotion and Attenuates Sleep Quality in Healthy Men. Journal of Biological Rhythms, 2021, 36, 384-394.	2.6	12
76	Relative hypochromia and mortality in acute heart failure. International Journal of Cardiology, 2019, 286, 104-110.	1.7	11
77	Daytime variation of perioperative myocardial injury in non-cardiac surgery and effect on outcome. Heart, 2019, 105, 826-833.	2.9	11
78	Impact of busulfan pharmacokinetics on outcome in adult patients receiving an allogeneic hematopoietic cell transplantation. Bone Marrow Transplantation, 2022, 57, 903-910.	2.4	11
79	Prospective validation of N-terminal pro B-type natriuretic peptide cut-off concentrations for the diagnosis of acute heart failure. European Journal of Heart Failure, 2019, 21, 813-815.	7.1	10
80	Clinical utility of circulating interleukin-6 concentrations in the detection of functionally relevant coronary artery disease. International Journal of Cardiology, 2019, 275, 20-25.	1.7	10
81	Delayed release of brain natriuretic peptide to identify myocardial ischaemia. European Journal of Clinical Investigation, 2015, 45, 1175-1183.	3.4	9
82	Effects of hemolysis on the diagnostic accuracy of cardiac troponin I for the diagnosis of myocardial infarction. International Journal of Cardiology, 2015, 187, 313-315.	1.7	8
83	Predicting Acute Myocardial Infarction with a Single Blood Draw. Clinical Chemistry, 2019, 65, 437-450.	3.2	7
84	Inflammatory Biomarkers and Clinical Judgment in the Emergency Diagnosis of Urgent Abdominal Pain. Clinical Chemistry, 2019, 65, 302-312.	3.2	7
85	Time to Recover From Daily Caffeine Intake. Frontiers in Nutrition, 2021, 8, 787225.	3.7	7
86	Determinants of SARS-CoV-2 transmission to guide vaccination strategy in an urban area. Virus Evolution, 2022, 8, veac002.	4.9	7
87	Postmortem computed tomography and magnetic resonance imaging facilitates forensic autopsy in a fatal case of poisoning with formic acid, diphenhydramine, and ethanol. Forensic Science, Medicine, and Pathology, 2016, 12, 304-311.	1.4	6
88	Effect of Acute Coronary Syndrome Probability on Diagnostic and Prognostic Performance of High-Sensitivity Cardiac Troponin. Clinical Chemistry, 2018, 64, 515-525.	3.2	5
89	Early kinetics of cardiac troponin in suspected acute myocardial infarction. Revista Espanola De Cardiologia (English Ed), 2021, 74, 502-509.	0.6	5
90	Incidence and Predictors of Cardiomyocyte Injury in Elective Coronary Angiography. American Journal of Medicine, 2016, 129, 537.e1-537.e8.	1.5	4

#	Article	IF	Citations
91	Insufficient Stability of Clavulanic Acid in Widely Used Child-Appropriate Formulations. Antibiotics, 2021, 10, 225.	3.7	4
92	Comparison of Acute Kidney Injury in Patients with COVID-19 and Other Respiratory Infections: A Prospective Cohort Study. Journal of Clinical Medicine, 2021, 10, 2288.	2.4	4
93	Serum 25-hydroxyvitamin D levels and intramuscular vitamin D3 supplementation among Eritrean migrants recently arrived in Switzerland. Swiss Medical Weekly, 2017, 147, w14568.	1.6	4
94	Copeptin Kinetics and Its Relationship to Osmolality During Rehydration for Diabetic Ketoacidosis in Children. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e4169-e4178.	3.6	3
95	Disposition Decision Support by Laboratory Based Outcome Prediction. Journal of Clinical Medicine, 2021, 10, 939.	2.4	3
96	Evaluation of two novel chemiluminescence immunoassays for the detection of Clostridium difficile glutamate dehydrogenase and toxin A&B. Journal of Microbiological Methods, 2017, 135, 63-65.	1.6	2
97	Accuracy of urine flow cytometry and urine test strip in predicting relevant bacteriuria in different patient populations. BMC Infectious Diseases, 2021, 21, 209.	2.9	2
98	Prospective evaluation of stress in patients with newly diagnosed glioblastoma and in a close partner (TOGETHER-study).. Journal of Clinical Oncology, 2017, 35, e13524-e13524.	1.6	1
99	Corrigendum to: Epidemiology of Severe Acute Respiratory Syndrome Coronavirus 2 Emergence Amidst Community-Acquired Respiratory Viruses. Journal of Infectious Diseases, 2021, 223, 734-735.	4.0	1
100	Monographs on drugs which are frequently analyzed in therapeutic drug monitoring/Arzneimittel-Monographien für Medikamente, die regelmäßig im Rahmen des Therapeutic Drug Monitorings analysiert werden. Laboratoriums Medizin, 2012, 36, .	0.6	0
101	An update on therapeutic drug monitoring and pharmacogenetic testing for the optimization of therapy with psychiatric medication. Laboratoriums Medizin, 2015, 38, .	0.6	0