

Alexander Benedikt Leichtle

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

3,534
citations

136950

32
h-index

149698

56
g-index

103
all docs

103
docs citations

103
times ranked

5992
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-world Health Data and Precision for the Diagnosis of Acute Kidney Injury, Acute-on-Chronic Kidney Disease, and Chronic Kidney Disease: Observational Study. JMIR Medical Informatics, 2022, 10, e31356.	2.6	4
2	Urine Flow Cytometry Parameter Cannot Safely Predict Contamination of Urine—A Cohort Study of a Swiss Emergency Department Using Machine Learning Techniques. Diagnostics, 2022, 12, 1008.	2.6	2
3	Machine Learning Prediction of Hypoglycemia and Hyperglycemia From Electronic Health Records: Algorithm Development and Validation. JMIR Formative Research, 2022, 6, e36176.	1.4	8
4	Time Requirement and Feasibility of a Systematic Quality Peer Review of Reporting in Radiology. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2021, 193, 160-167.	1.3	2
5	Presentation and formatting of laboratory results: a narrative review on behalf of the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) Working Group "epostanalytical phase" (WG-POST). Critical Reviews in Clinical Laboratory Sciences, 2021, 58, 329-353.	6.1	11
6	Pre-transplant Social Adaptability Index and clinical outcomes in renal transplantation: The Swiss Transplant Cohort study. Clinical Transplantation, 2021, 35, e14218.	1.6	1
7	Lipoprotein(a) is associated with large artery atherosclerosis stroke aetiology and stroke recurrence among patients below the age of 60 years: results from the BIOSIGNAL study. European Heart Journal, 2021, 42, 2186-2196.	2.2	40
8	The association between nurse staffing and inpatient mortality: a shift-level retrospective longitudinal study. International Journal of Nursing Studies, 2021, 120, 103950.	5.6	23
9	Requirements for electronic laboratory reports according to the German guideline Rili-BAEK and ISO 15189. Journal of Laboratory Medicine, 2021, 45, 197-203.	1.1	1
10	Cohort profile: The Swiss Transplant Cohort Study (STCS): A nationwide longitudinal cohort study of all solid organ recipients in Switzerland. BMJ Open, 2021, 11, e051176.	1.9	10
11	Parathyroid Hormone and Plasma Phosphate Are Predictors of Soluble β -Klotho Levels in Adults of European Descent. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e1135-e1143.	3.6	8
12	Effects of Freezing and Thawing Procedures on Selected Clinical Chemistry Parameters in Plasma. Biopreservation and Biobanking, 2020, 18, 297-304.	1.0	1
13	Independent Prognostic Value of MRproANP (Midregional Proatrial Natriuretic Peptide) Levels in Patients With Stroke Is Unaltered Over Time. Stroke, 2020, 51, 1873-1875.	2.0	5
14	Serum Free Light Chain Assay: Shift Toward a Higher κ/λ Ratio. Journal of Applied Laboratory Medicine, 2020, 5, 114-125.	1.3	15
15	Renal Function—Adjusted d-Dimer Levels in Critically Ill Patients With Suspected Thromboembolism*. Critical Care Medicine, 2020, 48, e270-e276.	0.9	10
16	Pathological cerebrospinal fluid protein concentration and albumin quotient at relapse predicts short-term disability progression in multiple sclerosis: a retrospective single center observational study. Therapeutic Advances in Neurological Disorders, 2020, 13, 175628642097590.	3.5	3
17	Volumetric Food Quantification Using Computer Vision on a Depth-Sensing Smartphone: Preclinical Study. JMIR MHealth and UHealth, 2020, 8, e15294.	3.7	15
18	Longitudinal Study of the Variation in Patient Turnover and Patient-to-Nurse Ratio: Descriptive Analysis of a Swiss University Hospital. Journal of Medical Internet Research, 2020, 22, e15554.	4.3	15

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19	SPHN/PHRT - MedCo in Action: Empowering the Swiss Molecular Tumor Board with Privacy-Preserving and Real-Time Patient Discovery. <i>Studies in Health Technology and Informatics</i> , 2020, 270, 1161-1162.	0.3	1
20	Rapid Centrifugation in the Routine Hemostasis Laboratory. <i>Thrombosis and Haemostasis</i> , 2019, 119, 2025-2033.	3.4	9
21	A survey on the future of radiology among radiologists, medical students and surgeons: Students and surgeons tend to be more skeptical about artificial intelligence and radiologists may fear that other disciplines take over. <i>European Journal of Radiology</i> , 2019, 121, 108742.	2.6	72
22	Tumor necrosis factor stimulates fibroblast growth factor 23 levels in chronic kidney disease and non-renal inflammation. <i>Kidney International</i> , 2019, 96, 890-905.	5.2	56
23	Diagnosis of Urinary Tract Infections by Urine Flow Cytometry: Adjusted Cut-Off Values in Different Clinical Presentations. <i>Disease Markers</i> , 2019, 2019, 1-10.	1.3	6
24	The links of hepcidin and erythropoietin in the interplay of inflammation and iron deficiency in a large observational study of rheumatoid arthritis. <i>British Journal of Haematology</i> , 2019, 186, 101-112.	2.5	6
25	A comparative study of pattern recognition algorithms for predicting the inpatient mortality risk using routine laboratory measurements. <i>Artificial Intelligence Review</i> , 2019, 52, 2559-2573.	15.7	5
26	Bootstrap-based testing approaches for the assessment of the diagnostic accuracy of biomarkers subject to a limit of detection. <i>Statistical Methods in Medical Research</i> , 2019, 28, 1564-1578.	1.5	1
27	Targeted and global pharmacometabolomics in everolimus-based immunosuppression: association of co-medication and lysophosphatidylcholines with dose requirement. <i>Metabolomics</i> , 2018, 14, 3.	3.0	1
28	Exhaled breath condensate as a potential biomarker tool for idiopathic pulmonary fibrosis—a pilot study. <i>Journal of Breath Research</i> , 2018, 12, 016003.	3.0	17
29	Influence of centrifugation conditions on the results of 77 routine clinical chemistry analytes using standard vacuum blood collection tubes and the new BD-Barricor tubes. <i>Biochemia Medica</i> , 2018, 28, 010704.	2.7	45
30	PR3-ANCA and panel diagnostics in pediatric inflammatory bowel disease to distinguish ulcerative colitis from Crohn's disease. <i>PLoS ONE</i> , 2018, 13, e0208974.	2.5	30
31	Interoperability of laboratory data in Switzerland — a spotlight on Bern. <i>Laboratoriums Medizin</i> , 2018, 42, 251-258.	0.6	6
32	The effect of a previously created distal arteriovenous-fistula on radial bone DXA measurements in prevalent renal transplant recipients. <i>PLoS ONE</i> , 2018, 13, e0200708.	2.5	3
33	Doubling immunochemistry laboratory testing efficiency with the cobas e 801 module while maintaining consistency in analytical performance. <i>Clinical Biochemistry</i> , 2018, 58, 86-93.	1.9	4
34	The development and validation of different decision-making tools to predict urine culture growth out of urine flow cytometry parameter. <i>PLoS ONE</i> , 2018, 13, e0193255.	2.5	11
35	Association of the Intestinal Microbiome with the Development of Neovascular Age-Related Macular Degeneration. <i>Scientific Reports</i> , 2017, 7, 40826.	3.3	149
36	A metabolomics approach to uncover effects of different exercise modalities in type 1 diabetes. <i>Metabolomics</i> , 2017, 13, 1.	3.0	3

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37	Sparse Proteomics Analysis – a compressed sensing-based approach for feature selection and classification of high-dimensional proteomics mass spectrometry data. BMC Bioinformatics, 2017, 18, 160.	2.6	21
38	In response to the letter to the editor on our manuscript –High sensitive cardiac troponin T: Testing the test– by Dr. Badertscher. International Journal of Cardiology, 2017, 234, 127.	1.7	0
39	Role of D-Dimer testing in venous thromboembolism with concomitant renal insufficiency in critical care. Intensive Care Medicine, 2017, 43, 470-471.	8.2	8
40	High sensitive cardiac troponin T: Testing the test. International Journal of Cardiology, 2017, 228, 779-783.	1.7	18
41	Standard-Arbeitsanleitung zur peripher venösen Blutentnahme für die labormedizinische Diagnostik. Laboratoriums Medizin, 2017, 41, 333-340.	0.6	6
42	Utility of quick sepsis-related organ failure assessment (qSOFA) to predict outcome in patients with pneumonia. PLoS ONE, 2017, 12, e0188913.	2.5	22
43	Accuracy and Calibration of Computational Approaches for Inpatient Mortality Predictive Modeling. PLoS ONE, 2016, 11, e0159046.	2.5	14
44	Fibroblast growth factor 23 and markers of mineral metabolism in individuals with preserved renal function. Kidney International, 2016, 90, 648-657.	5.2	51
45	Does centrifugation matter? Centrifugal force and spinning time alter the plasma metabolome. Metabolomics, 2016, 12, 159.	3.0	31
46	Age is not associated with intracranial haemorrhage in patients with mild traumatic brain injury and oral anticoagulation. Journal of Negative Results in BioMedicine, 2016, 15, 12.	1.4	7
47	Use of Diuretics is not associated with mortality in patients admitted to the emergency department: results from a cross-sectional study. Journal of Negative Results in BioMedicine, 2016, 15, 1.	1.4	4
48	Computed exercise plasma lactate concentrations: A conversion formula. Practical Laboratory Medicine, 2016, 4, 11-15.	1.3	0
49	Increased endothelial microparticles and oxidative stress at extreme altitude. European Journal of Applied Physiology, 2016, 116, 739-748.	2.5	19
50	S-100 B Concentrations Are a Predictor of Decreased Survival in Patients with Major Trauma, Independently of Head Injury. PLoS ONE, 2016, 11, e0152822.	2.5	23
51	Biomarker – vom Sein und Wesen. Laboratoriums Medizin, 2015, 39, 97-101.	0.6	1
52	Primary Hyperventilation in the Emergency Department: A First Overview. PLoS ONE, 2015, 10, e0129562.	2.5	15
53	Hyperphosphatemia Is an Independent Risk Factor for Mortality in Critically Ill Patients: Results from a Cross-Sectional Study. PLoS ONE, 2015, 10, e0133426.	2.5	46
54	Acute S100B in serum is associated with cognitive symptoms and memory performance 4 months after paediatric mild traumatic brain injury. Brain Injury, 2015, 29, 1667-1673.	1.2	15

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55	Hypermagnesemia is a strong independent risk factor for mortality in critically ill patients: Results from a cross-sectional study. <i>European Journal of Internal Medicine</i> , 2015, 26, 504-507.	2.2	37
56	Calcium Disorders in the Emergency Department: Independent Risk Factors for Mortality. <i>PLoS ONE</i> , 2015, 10, e0132788.	2.5	23
57	Quantitative Analysis of Fluorescence Lifetime Measurements of the Macula Using the Fluorescence Lifetime Imaging Ophthalmoscope in Healthy Subjects. , 2014, 55, 2106.		100
58	Age-Related Variety in Electrolyte Levels and Prevalence of Dysnatremias and Dyskalemias in Patients Presenting to the Emergency Department. <i>Gerontology</i> , 2014, 60, 420-423.	2.8	40
59	Diagnostic significance of high sensitivity troponin in diagnosis of blunt cardiac injury. <i>Intensive Care Medicine</i> , 2014, 40, 623-624.	8.2	6
60	D-dimer to Rule Out Pulmonary Embolism in Renal Insufficiency. <i>American Journal of Medicine</i> , 2014, 127, 343-347.	1.5	41
61	Impact of proton pump inhibitor use on magnesium homoeostasis: a cross-sectional study in a tertiary emergency department. <i>International Journal of Clinical Practice</i> , 2014, 68, 1352-1357.	1.7	28
62	Hypoglycemia is associated with increased mortality in patients with acute decompensated liver cirrhosis. <i>Journal of Critical Care</i> , 2014, 29, 316.e7-316.e12.	2.2	39
63	Electrolyte Disorders and In-Hospital Mortality during Prolonged Heat Periods: A Cross-Sectional Analysis. <i>PLoS ONE</i> , 2014, 9, e92150.	2.5	20
64	Impact of diuretic therapy-associated electrolyte disorders present on admission to the emergency department: a cross-sectional analysis. <i>BMC Medicine</i> , 2013, 11, 83.	5.5	61
65	Pancreatic carcinoma, pancreatitis, and healthy controls: metabolite models in a three-class diagnostic dilemma. <i>Metabolomics</i> , 2013, 9, 677-687.	3.0	39
66	Hyperkalemia in the emergency department: Etiology, symptoms and outcome of a life threatening electrolyte disorder. <i>European Journal of Internal Medicine</i> , 2013, 24, e59-e60.	2.2	30
67	Diagnostic Performance of High-Sensitive Troponin T in Patients With Renal Insufficiency. <i>American Journal of Cardiology</i> , 2013, 112, 1968-1972.	1.6	51
68	Hypercalcemia in the ED: prevalence, etiology, and outcome. <i>American Journal of Emergency Medicine</i> , 2013, 31, 657-660.	1.6	56
69	Etiology and symptoms of severe hypokalemia in emergency department patients. <i>European Journal of Emergency Medicine</i> , 2013, 21, 1.	1.1	41
70	High-Sensitive Troponin Measurement in Emergency Department Patients Presenting with Syncope: A Retrospective Analysis. <i>PLoS ONE</i> , 2013, 8, e66470.	2.5	6
71	Serum Levels of Acylcarnitines Are Altered in Prediabetic Conditions. <i>PLoS ONE</i> , 2013, 8, e82459.	2.5	160
72	Potentials and pitfalls of clinical peptidomics and metabolomics. <i>Swiss Medical Weekly</i> , 2013, 143, w13801.	1.6	26

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73	Characteristics, Symptoms, and Outcome of Severe Dysnatremias Present on Hospital Admission. <i>American Journal of Medicine</i> , 2012, 125, 1125.e1-1125.e7.	1.5	103
74	Serum amino acid profiles and their alterations in colorectal cancer. <i>Metabolomics</i> , 2012, 8, 643-653.	3.0	117
75	Thyroid function and serum electrolytes: does an association really exist?. <i>Swiss Medical Weekly</i> , 2012, 142, w13669.	1.6	24
76	Fatty Acid and Peptide Profiles in Plasma Membrane and Membrane Rafts of PUFA Supplemented RAW264.7 Macrophages. <i>PLoS ONE</i> , 2011, 6, e24066.	2.5	44
77	Preanalytical standardization of amino acid and acylcarnitine metabolite profiling in human blood using tandem mass spectrometry. <i>Metabolomics</i> , 2011, 7, 344-352.	3.0	47
78	Effects of a 2-y dietary weight-loss intervention on cholesterol metabolism in moderately obese men. <i>American Journal of Clinical Nutrition</i> , 2011, 94, 1189-1195.	4.7	15
79	Potential of Dried Blood Self-Sampling for CyclosporineC2Monitoring in Transplant Outpatients. <i>Journal of Transplantation</i> , 2010, 2010, 1-6.	0.5	28
80	Genetic Regulation of Serum Phytosterol Levels and Risk of Coronary Artery Disease. <i>Circulation: Cardiovascular Genetics</i> , 2010, 3, 331-339.	5.1	141
81	Standardized Preprocessing of Urine for Proteome Analysis. <i>Methods in Molecular Biology</i> , 2010, 641, 47-63.	0.9	6
82	Simultaneous eicosanoid profiling and identification by liquid chromatography and hybrid triple quadrupole-linear ion trap mass spectrometry for metabolomic studies in human plasma / Multiparametrische Bestimmung und Identifizierung von Eikosanoiden mit Flüssigchromatographie in Kombination mit Hybrid-Quadrupol/lineare Ionenfallen Massenspektrometrie für Metabolom-Studien in Humanplasma. <i>Laboratoriums Medizin</i> , 2009, 33, 341-348.	0.6	5
83	Serum Peptidome Profiling Revealed Platelet Factor 4 as a Potential Discriminating Peptide Associated with Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2009, 15, 3812-3819.	7.0	101
84	Effect of Increased Exercise in School Children on Physical Fitness and Endothelial Progenitor Cells. <i>Circulation</i> , 2009, 120, 2251-2259.	1.6	107
85	Standardized peptidome profiling of human cerebrospinal fluid by magnetic bead separation and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Proteomics</i> , 2009, 72, 608-615.	2.4	36
86	Rapid quantification of steroid patterns in human serum by on-line solid phase extraction combined with liquid chromatography-triple quadrupole linear ion trap mass spectrometry. <i>Clinica Chimica Acta</i> , 2009, 401, 114-118.	1.1	110
87	Challenges and developments in tandem mass spectrometry based clinical metabolomics. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 266-271.	3.2	98
88	Body weight and oral contraceptives are the most important modulators of serum CRP levels. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2008, 68, 140-144.	1.2	20
89	Lead Poisoning Due to Adulterated Marijuana. <i>New England Journal of Medicine</i> , 2008, 358, 1641-1642.	27.0	68
90	Lead Poisoning Due to Adulterated Marijuana in Leipzig. <i>Deutsches A&#x0308;rztblatt International</i> , 2008, 105, 757-62.	0.9	25

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91	Standardized Peptidome Profiling of Human Urine by Magnetic Bead Separation and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Clinical Chemistry</i> , 2007, 53, 421-428.	3.2	161
92	Alpha-Tocopherol Distribution in Lipoproteins and Anti-Inflammatory Effects Differ between CHD-Patients and Healthy Subjects. <i>Journal of the American College of Nutrition</i> , 2006, 25, 420-428.	1.8	12
93	Beating the Noise: New Statistical Methods for Detecting Signals in MALDI-TOF Spectra Below Noise Level. <i>Lecture Notes in Computer Science</i> , 2006, , 119-128.	1.3	7
94	Rapid quantification of free and esterified phytosterols in human serum using APPI-LC-MS/MS. <i>Journal of Lipid Research</i> , 2005, 46, 21-26.	4.2	132
95	Standardized Approach to Proteome Profiling of Human Serum Based on Magnetic Bead Separation and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Clinical Chemistry</i> , 2005, 51, 973-980.	3.2	214
96	New Reference Intervals for Thyrotropin and Thyroid Hormones Based on National Academy of Clinical Biochemistry Criteria and Regular Ultrasonography of the Thyroid. <i>Clinical Chemistry</i> , 2005, 51, 1480-1486.	3.2	202
97	Short-term fasting attenuates overall steroid hormone biosynthesis in healthy young women. <i>Journal of the Endocrine Society</i> , 0, , .	0.2	5