Anna Carobene

List of Publications by Year
in descending order

70	1,879	257450 24	289244 40
papers	citations	h-index	g-index

70	70	70	1080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	European Biological Variation Study (EuBIVAS): within- and between-subject biological variation estimates for serum thyroid biomarkers based on weekly samplings from 91 healthy participants. Clinical Chemistry and Laboratory Medicine, 2022, 60, 523-532.	2.3	21
2	The European Biological Variation Study (EuBIVAS): a summary report. Clinical Chemistry and Laboratory Medicine, 2022, 60, 505-517.	2.3	40
3	Within- and between-subject biological variation data for tumor markers based on the European Biological Variation Study. Clinical Chemistry and Laboratory Medicine, 2022, 60, 543-552.	2.3	19
4	Systematic review and meta-analysis of within-subject and between-subject biological variation estimates of serum zinc, copper and selenium. Clinical Chemistry and Laboratory Medicine, 2022, 60, 479-482.	2.3	7
5	The multicenter European Biological Variation Study (EuBIVAS): a new glance provided by the Principal Component Analysis (PCA), a machine learning unsupervised algorithms, based on the basic metabolic panel linked measurands. Clinical Chemistry and Laboratory Medicine, 2022, 60, 556-568.	2.3	9
6	Critical appraisal and meta-analysis of biological variation estimates for kidney related analytes. Clinical Chemistry and Laboratory Medicine, 2022, 60, 469-478.	2.3	15
7	Biological variation of serum insulin: updated estimates from the European Biological Variation Study (EuBIVAS) and meta-analysis. Clinical Chemistry and Laboratory Medicine, 2022, 60, 518-522.	2.3	6
8	Within- and between-subject biological variation data for serum zinc, copper and selenium obtained from 68 apparently healthy Turkish subjects. Clinical Chemistry and Laboratory Medicine, 2022, 60, 533-542.	2.3	8
9	Personalized reference intervals: From the statistical significance to the clinical usefulness. Clinica Chimica Acta, 2022, 524, 203-204.	1.1	8
10	Biological variation estimates of thyroid related measurandsÂâ€“ meta-analysis of BIVAC compliant studies. Clinical Chemistry and Laboratory Medicine, 2022, 60, 483-493.	2.3	15
11	Long-term within- and between-subject biological variation of 29 routine laboratory measurands in athletes. Clinical Chemistry and Laboratory Medicine, 2022, 60, 618-628.	2.3	5
12	Critical review and meta-analysis of biological variation estimates for tumor markers. Clinical Chemistry and Laboratory Medicine, 2022, 60, 494-504.	2.3	13
13	Biological variationÂâ€“ eight years after the 1st Strategic Conference of EFLM. Clinical Chemistry and Laboratory Medicine, 2022, 60, 465-468.	2.3	8
14	A robust and parsimonious machine learning method to predict ICU admission of COVID-19 patients. Medical and Biological Engineering and Computing, 2022, , 1.	2.8	11
15	How is test laboratory data used and characterised by machine learning models? A systematic review of diagnostic and prognostic models developed for COVID-19 patients using only laboratory data. Clinical Chemistry and Laboratory Medicine, 2022, 60, 1887-1901.	2.3	19
16	Standardization and harmonization in hematology: Instrument alignment, quality control materials, and commutability issue. International Journal of Laboratory Hematology, 2021, 43, 364-371.	1.3	7
17	Biological Variation of Cardiac Troponins in Health and Disease: A Systematic Review and Meta-analysis. Clinical Chemistry, 2021, 67, 256-264.	3.2	21
18	Analytical Performance Specifications for 25-Hydroxyvitamin D Examinations. Nutrients, 2021, 13, 431.	4.1	13

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19	Prediction of ICU admission for COVID-19 patients: a Machine Learning approach based on Complete Blood Count data. , 2021, , .		12
20	Distribution and determinants of serum high-sensitivity C-reactive protein in Ethiopian population. Clinica Chimica Acta, 2021, 517, 99-107.	1.1	7
21	The European Biological Variation Study (EuBIVAS): Biological Variation Data for Coagulation Markers Estimated by a Bayesian Model. Clinical Chemistry, 2021, 67, 1259-1270.	3.2	14
22	The importance of being external. methodological insights for the external validation of machine learning models in medicine. Computer Methods and Programs in Biomedicine, 2021, 208, 106288.	4.7	72
23	Within-person biological variation estimates from the European Biological Variation Study (EuBIVAS) for serum potassium and creatinine used to obtain personalized reference intervals. Clinica Chimica Acta, 2021, 523, 205-207.	1.1	10
24	Development, evaluation, and validation of machine learning models for COVID-19 detection based on routine blood tests. Clinical Chemistry and Laboratory Medicine, 2021, 59, 421-431.	2.3	109
25	External validation of Machine Learning models for COVID-19 detection based on Complete Blood Count. Health Information Science and Systems, 2021, 9, 37.	5.2	16
26	Problems with estimating reference change values (critical differences). Clinica Chimica Acta, 2021, 523, 437-440.	1.1	9
27	A very uncommon haemoglobin value resulting from a severe acute malnutrition in a 16-month-old child in Ethiopia. Clinical Chemistry and Laboratory Medicine, 2021, 59, e103-e105.	2.3	1
28	Prevalence of metabolic syndrome among patients with schizophrenia in Ethiopia. BMC Psychiatry, 2021, 21, 620.	2.6	7
29	Biological variation of morning serum cortisol: Updated estimates from the European biological variation study (EuBIVAS) and meta-analysis. Clinica Chimica Acta, 2020, 509, 268-272.	1.1	12
30	European Biological Variation Study (EuBIVAS): within- and between-subject biological variation estimates for serum biointact parathyroid hormone based on weekly samplings from 91 healthy participants. Annals of Translational Medicine, 2020, 8, 855-855.	1.7	10
31	Analytical Performance Specifications for Lipoprotein(a), Apolipoprotein B-100, and Apolipoprotein A-I Using the Biological Variation Model in the EuBIVAS Population. Clinical Chemistry, 2020, 66, 727-736.	3.2	17
32	Critical appraisal and meta-analysis of biological variation studies on glycosylated albumin, glucose and HbA_{1c}. Advances in Laboratory Medicine / Avances En Medicina De Laboratorio, 2020, 1, .	0.2	6
33	The European Biological Variation Study (EuBIVAS): weekly biological variation of cardiac troponin I estimated by the use of two different high-sensitivity cardiac troponin I assays. Clinical Chemistry and Laboratory Medicine, 2020, 58, 1741-1747.	2.3	25
34	Role of time-normalized laboratory findings in predicting COVID-19 outcome. Diagnosis, 2020, 7, 387-394.	1.9	5
35	EvaluaciÃ³n crÃtica y meta-anÃ¡lisis de estudios de variaciÃ³n biolÃ³gica para albÃºmina glicosilada, glucosa y HbA_{1c}. Advances in Laboratory Medicine / Avances En Medicina De Laboratorio, 2020, 1, .	0.2	1
36	Routine blood tests as an active surveillance to monitor COVID-19 prevalence. A retrospective study. Acta Biomedica, 2020, 91, e2020009.	0.3	0

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37	Evidence of significant difference in key COVID-19 biomarkers during the Italian lockdown strategy. A retrospective study on patients admitted to a hospital emergency department in Northern Italy. Acta Biomedica, 2020, 91, e2020156.	0.3	0
38	Systematic review and meta-analysis of within-subject and between-subject biological variation estimates of 20 haematological parameters. Clinical Chemistry and Laboratory Medicine, 2019, 58, 25-32.	2.3	40
39	European Biological Variation Study (EuBIVAS): Within- and Between-Subject Biological Variation Data for 15 Frequently Measured Proteins. Clinical Chemistry, 2019, 65, 1031-1041.	3.2	39
40	Biological variation data for lipid cardiovascular risk assessment biomarkers. A systematic review applying the biological variation data critical appraisal checklist (BIVAC). Clinica Chimica Acta, 2019, 495, 467-475.	1.1	27
41	Systematic review of the biological variation data for diabetes related analytes. Clinica Chimica Acta, 2019, 488, 61-67.	1.1	32
42	Within-subject and between-subject biological variation estimates of 21 hematological parameters in 30 healthy subjects. Clinical Chemistry and Laboratory Medicine, 2018, 56, 1309-1318.	2.3	51
43	Short- and medium-term biological variation estimates of red blood cell and reticulocyte parameters in healthy subjects. Clinical Chemistry and Laboratory Medicine, 2018, 56, 954-963.	2.3	15
44	Harmonization initiatives in the generation, reporting and application of biological variation data. Clinical Chemistry and Laboratory Medicine, 2018, 56, 1629-1636.	2.3	33
45	The Biological Variation Data Critical Appraisal Checklist: A Standard for Evaluating Studies on Biological Variation. Clinical Chemistry, 2018, 64, 501-514.	3.2	152
46	The EuBIVAS: Within- and Between-Subject Biological Variation Data for Electrolytes, Lipids, Urea, Uric Acid, Total Protein, Total Bilirubin, Direct Bilirubin, and Glucose. Clinical Chemistry, 2018, 64, 1380-1393.	3.2	75
47	Providing Correct Estimates of Biological Variationâ€"Not an Easy Task. The Example of S100-Î² Protein and Neuron-Specific Enolase. Clinical Chemistry, 2018, 64, 1537-1539.	3.2	19
48	Biological variation estimates for prostate specific antigen from the European Biological Variation Study; consequences for diagnosis and monitoring of prostate cancer. Clinica Chimica Acta, 2018, 486, 185-191.	1.1	37
49	Biological Variation Estimates Obtained from 91 Healthy Study Participants for 9 Enzymes in Serum. Clinical Chemistry, 2017, 63, 1141-1150.	3.2	51
50	Biological variation of platelet parameters determined by the Sysmex XN hematology analyzer. Clinica Chimica Acta, 2017, 470, 125-132.	1.1	41
51	The EuBIVAS Project: Within- and Between-Subject Biological Variation Data for Serum Creatinine Using Enzymatic and Alkaline Picrate Methods and Implications for Monitoring. Clinical Chemistry, 2017, 63, 1527-1536.	3.2	66
52	Short- and medium-term biological variation estimates of leukocytes extended to differential count and morphology-structural parameters (cell population data) in blood samples obtained from healthy people. Clinica Chimica Acta, 2017, 473, 147-156.	1.1	30
53	Analytical evaluation of the performances of Diazyme and BRAHMS procalcitonin applied to Roche Cobas in comparison with BRAHMS PCT-sensitive Kryptor. Clinical Chemistry and Laboratory Medicine, 2017, 56, 162-169.	2.3	23
54	The European Biological Variation Study (EuBIVAS): delivery of updated biological variation estimates, a project by the Working Group on Biological Variation in the European Federation of Clinical Chemistry and Laboratory Medicine. Journal of Laboratory and Precision Medicine, 2017, 2, 70-70.	1.1	9

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55	Sample collections from healthy volunteers for biological variation estimatesâ€™ update: a new project undertaken by the Working Group on Biological Variation established by the European Federation of Clinical Chemistry and Laboratory Medicine. Clinical Chemistry and Laboratory Medicine, 2016, 54, 1599-1608.	2.3	76
56	Performance of glycated hemoglobin (HbA1c) methods evaluated with EQAS studies using fresh blood samples: Still space for improvements. Clinica Chimica Acta, 2015, 451, 305-309.	1.1	19
57	Evaluation of the performance of an immunoturbidimetric HbA1c reagent applied to the Siemens ADVIA 2400 automatic analyzer. Clinical Biochemistry, 2015, 48, 177-180.	1.9	4
58	Reliability of biological variation data available in an online database: need for improvement. Clinical Chemistry and Laboratory Medicine, 2015, 53, 871-7.	2.3	65
59	A checklist for critical appraisal of studies of biological variation. Clinical Chemistry and Laboratory Medicine, 2015, 53, 879-85.	2.3	120
60	Evaluation of the impact of standardization process on the quality of serum creatinine determination in Italian laboratories. Clinica Chimica Acta, 2014, 427, 100-106.	1.1	37
61	A mechanism-based way to evaluate commutability of control materials for enzymatic measurements. The example of gamma-glutamyltransferase. Clinica Chimica Acta, 2013, 424, 153-158.	1.1	4
62	A systematic review of data on biological variation for alanine aminotransferase, aspartate aminotransferase and Î³-glutamyl transferase. Clinical Chemistry and Laboratory Medicine, 2013, 51, 1997-2007.	2.3	74
63	Age dependence of within-subject biological variation of nine common clinical chemistry analytes. Clinical Chemistry and Laboratory Medicine, 2012, 50, 841-4.	2.3	16
64	A pragmatic proposal for permissible limits in external quality assessment schemes with a compromise between biological variation and the state of the art. Clinical Chemistry and Laboratory Medicine, 2012, 50, 833-9.	2.3	25
65	Comparison of the results from two different External Quality Assessment Schemes supports the utility of robust quality specifications. Clinical Chemistry and Laboratory Medicine, 2011, 49, 1143-1149.	2.3	14
66	Creatinine determination in serum by capillary electrophoresis. Electrophoresis, 2004, 25, 463-468.	2.4	25
67	Age of the intronic GAA triplet repeat expansion mutation in Friedreich ataxia. Human Genetics, 2000, 106, 455-458.	3.8	14
68	Age and origin of the FCMD 3â€²-untranslated-region retrotransposal insertion mutation causing Fukuyama-type congenital muscular dystrophy in the Japanese population. Human Genetics, 2000, 107, 559-567.	3.8	30
69	Multicentre Evaluation of KONE Optima Analysis System. Clinical Chemistry and Laboratory Medicine, 1998, 36, 475-84.	2.3	2
70	Creatinine measurement proficiency testing: assignment of matrix-adjusted ID GC-MS target values. Clinical Chemistry, 1997, 43, 1342-1347.	3.2	36