

Federica Bortolotti

List of Publications by Year in descending order

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74
papers

1,674
citations

257450

24
h-index

330143

37
g-index

74
all docs

74
docs citations

74
times ranked

1392
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbohydrate-deficient transferrin (CDT) as a marker of alcohol abuse: A critical review of the literature 2001â€“2005. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 841, 96-109.	2.3	140
2	Hair analysis for illicit drugs by using capillary zone electrophoresis-electrospray ionization-ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1159, 185-189.	3.7	80
3	Recent advances in the application of CE to forensic sciences: A update over years 2007â€“2009. <i>Electrophoresis</i> , 2010, 31, 251-259.	2.4	75
4	Capillary zone electrophoresis and artificial neural networks for estimation of the post-mortem interval (PMI) using electrolytes measurements in human vitreous humour. <i>International Journal of Legal Medicine</i> , 2002, 116, 5-11.	2.2	61
5	Evaluation and optimization of capillary zone electrophoresis with different dynamic capillary coatings for the determination of carbohydrate-deficient transferrin in human serum. <i>Journal of Chromatography A</i> , 2002, 979, 43-57.	3.7	58
6	Recent advances in the applications of CE to forensic sciences (2001â€“2004). <i>Electrophoresis</i> , 2006, 27, 231-243.	2.4	58
7	Broad-spectrum toxicological analysis of hair based on capillary zone electrophoresisâ€“time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1159, 190-197.	3.7	58
8	Recent advances in the applications of CE to forensic sciences (2005â€“2007). <i>Electrophoresis</i> , 2008, 29, 260-268.	2.4	47
9	Analytical and diagnostic aspects of carbohydrate deficient transferrin (CDT): A critical review over years 2007â€“2017. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 147, 2-12.	2.8	47
10	Capillary zone electrophoresis (CZE) coupled to timeâ€“ofâ€“flight mass spectrometry (TOFâ€“MS) applied to the analysis of illicit and controlled drugs in blood. <i>Electrophoresis</i> , 2008, 29, 4078-4087.	2.4	45
11	Recent advances in the application of CE to forensic sciences, an update over years 2009â€“2011. <i>Electrophoresis</i> , 2012, 33, 117-126.	2.4	44
12	Potassium concentration differences in the vitreous humour from the two eyes revisited by microanalysis with capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001, 924, 493-498.	3.7	42
13	Capillary zone electrophoresis of potassium in human vitreous humour: validation of a new method. <i>Biomedical Applications</i> , 1999, 733, 273-279.	1.7	41
14	Micro computed tomography features of laryngeal fractures in a case of fatal manual strangulation. <i>Legal Medicine</i> , 2016, 18, 85-89.	1.3	38
15	Use of β -cyclodextrin in the capillary zone electrophoretic separation of the components of clandestine heroin preparations. <i>Journal of Chromatography A</i> , 2001, 924, 499-506.	3.7	36
16	Analysis of Carbohydrate-Deficient Transferrin: Comparative Evaluation of Turbidimetric Immunoassay, Capillary Zone Electrophoresis, and HPLC. <i>Clinical Chemistry</i> , 2005, 51, 2368-2371.	3.2	35
17	Fully automated analysis of Carbohydrate-Deficient Transferrin (CDT) by using a multicapillary electrophoresis system. <i>Clinica Chimica Acta</i> , 2007, 380, 4-7.	1.1	34
18	Determination of β -hydroxybutyric acid in biological fluids by using capillary electrophoresis with indirect detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 800, 239-244.	2.3	33

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19	Vitreous humor endogenous compounds analysis for post-mortem forensic investigation. <i>Forensic Science International</i> , 2020, 310, 110235.	2.2	33
20	Analysis of organic components of smokeless gunpowders: High-performance liquid chromatography vs. micellar electrokinetic capillary chromatography. <i>Electrophoresis</i> , 2004, 25, 1543-1547.	2.4	32
21	Chiral separation and determination of ketamine and norketamine in hair by capillary electrophoresis. <i>Forensic Science International</i> , 2016, 266, 304-310.	2.2	32
22	CEC-ESI ion trap MS of multiple drugs of abuse. <i>Electrophoresis</i> , 2010, 31, 1256-1263.	2.4	31
23	Testing the specificity of the diatom test: search for false-positives. <i>Medicine, Science and the Law</i> , 2011, 51, 7-10.	1.0	27
24	Dermal nitrate: An old marker of firearm discharge revisited with capillary electrophoresis. <i>Electrophoresis</i> , 2002, 23, 278-282.	2.4	25
25	Carbohydrate-deficient transferrin (CDT): A reliable indicator of the risk of driving under the influence of alcohol when determined by capillary electrophoresis. <i>Forensic Science International</i> , 2007, 170, 175-178.	2.2	25
26	Study of vitreous potassium correlation with time since death in the postmortem range from 2 to 110 hours using capillary ion analysis. <i>Medicine, Science and the Law</i> , 2011, 51, 20-23.	1.0	25
27	Current role of capillary electrophoretic/electrokinetic techniques in forensic toxicology. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1359-1364.	3.7	23
28	Direct analysis of bromide in human serum by capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 839, 2-5.	2.3	20
29	Monitoring compliance to therapy during addiction treatments by means of hair analysis for drugs and drug metabolites using capillary zone electrophoresis coupled to time-of-flight mass spectrometry. <i>Forensic Science International</i> , 2012, 216, 101-107.	2.2	20
30	Toxicokinetics of Cocaine and Metabolites: The Forensic Toxicological Approach. <i>Current Medicinal Chemistry</i> , 2012, 19, 5658-5663.	2.4	19
31	Morphological analysis of the seeds of three pseudocereals by using light microscopy and ESEM-EDS. <i>European Journal of Histochemistry</i> , 2020, 64, .	1.5	19
32	BH4 (tetrahydrobiopterin)-dependent activation, but not the expression, of inducible NOS (nitric oxide) Tj ETQq0 0 0 rgBT /Overlock 10 MEK-ERK kinases. <i>Journal of Cellular Biochemistry</i> , 2005, 94, 731-743.	2.6	18
33	Objective post-mortem diagnosis of chronic alcohol abuse " A review of studies on new markers. <i>Legal Medicine</i> , 2008, 10, 229-235.	1.3	18
34	Post-mortem stability and redistribution of carbohydrate-deficient transferrin (CDT). <i>Forensic Science International</i> , 2008, 174, 161-165.	2.2	16
35	Capillary electrochromatographic separation of illicit drugs employing a cyano stationary phase. <i>Journal of Chromatography A</i> , 2009, 1216, 3652-3659.	3.7	16
36	Improved capillary electrophoresis determination of carbohydrate-deficient transferrin including on-line immunosubtraction. <i>Medicine, Science and the Law</i> , 2011, 51, 26-31.	1.0	16

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37	“Positive” urine testing for Cannabis is associated with increased risk of traffic crashes. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 151, 71-74.	2.8	16
38	Caveats in Carbohydrate-deficient Transferrin Determination. <i>Clinical Chemistry</i> , 2002, 48, 208-209.	3.2	15
39	Determination of carbohydrate deficient transferrin (CDT) with capillary electrophoresis: an inter laboratory comparison. <i>Forensic Science International</i> , 2004, 141, 153-157.	2.2	15
40	Rapid determination of lithium in serum samples by capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2543-2546.	3.7	14
41	Dextromethorphan/levomethorphan issues in a case of opiate overdose. <i>Drug Testing and Analysis</i> , 2013, 5, 781-784.	2.6	14
42	Development of an in-house mixed-mode solid-phase extraction for the determination of 16 basic drugs in urine by High Performance Liquid Chromatography-Ion Trap Mass Spectrometry. <i>Journal of Chromatography A</i> , 2018, 1560, 10-18.	3.7	14
43	A medieval case of digitalis poisoning: the sudden death of Cangrande della Scala, lord of verona (1291–1329). <i>Journal of Archaeological Science</i> , 2015, 54, 162-167.	2.4	13
44	Rapid and direct analysis of \hat{I}^3 -hydroxybutyric acid in urine by capillary electrophoresis–electrospray ionization ion-trap mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1051, 207-211.	3.7	13
45	First Objective Association Between Elevated Carbohydrate–Deficient Transferrin Concentrations and Alcohol–Related Traffic Accidents. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 2108-2114.	2.4	12
46	Caveats against an improper use of hair testing to support the diagnosis of chronic excessive alcohol consumption, following the “Consensus” of the Society of Hair Testing 2009 [<i>Forensic Science International</i> 196 (2010) 2]. <i>Forensic Science International</i> , 2011, 207, e69-e70.	2.2	11
47	Proteins and their modifications in a medieval mummy. <i>Protein Science</i> , 2016, 25, 2037-2044.	7.6	11
48	Thanatochemistry at the crime scene: a microfluidic paper-based device for ammonium analysis in the vitreous humor. <i>Analytica Chimica Acta</i> , 2019, 1083, 150-156.	5.4	11
49	Use of finger–prick dried blood spots (fpDBS) and capillary electrophoresis for carbohydrate deficient transferrin (CDT) screening in forensic toxicology. <i>Electrophoresis</i> , 2016, 37, 2867-2874.	2.4	10
50	Re-assessment of the cut-off levels of Carbohydrate Deficient Transferrin (CDT) for automated immunoassay and multi-capillary electrophoresis for application in a forensic context. <i>Clinica Chimica Acta</i> , 2013, 416, 1-4.	1.1	9
51	The histology of grain caryopses for nutrient location: a comparative study of six cereals. <i>International Journal of Food Science and Technology</i> , 2017, 52, 1238-1245.	2.7	8
52	A new method for the determination of ammonium in the vitreous humour based on capillary electrophoresis and its preliminary application in thanatochemistry. <i>Clinical Chemistry and Laboratory Medicine</i> , 2019, 57, 504-509.	2.3	8
53	Direct and specific analysis of nitrite and nitrate in biological and non-biological samples by capillary ion analysis for the rapid identification of fatal intoxications with sodium nitrite. <i>Forensic Science International</i> , 2021, 325, 110855.	2.2	8
54	Carbohydrate–deficient transferrin determined in blood microsamples from healthy newborns by using capillary zone electrophoresis. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2007, 67, 191-195.	1.2	7

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55	Simultaneous analysis of potassium and ammonium ions in the vitreous humour by capillary electrophoresis and their integrated use to infer the post mortem interval (PMI). <i>Medicine, Science and the Law</i> , 2021, 61, 96-104.	1.0	7
56	Prince Cangrande's Collagen: Study of Protein Modification on the Mummy of the Lord of Verona, Italy (1291-1329 AD). <i>Chromatographia</i> , 2014, 77, 1503-1510.	1.3	6
57	A novel low-cost approach for the semi-quantitative analysis of carbohydrate-deficient transferrin (CDT) based on fluorescence resonance energy transfer (FRET). <i>Clinica Chimica Acta</i> , 2019, 495, 556-561.	1.1	6
58	Alcohol-associated traffic injuries in Verona territory: A nine-year survey. <i>Medicine, Science and the Law</i> , 2021, 61, 7-13.	1.0	6
59	Determination of alpha-bisabolol in human blood by micro-HPLC-ion trap MS and head space-GC-MS methods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 812, 373-377.	2.3	6
60	Rapid optimized separation of bromide in serum samples with capillary zone electrophoresis by using glycerol as additive to the background electrolyte. <i>Journal of Chromatography A</i> , 2009, 1216, 3349-3352.	3.7	5
61	Fluorescent adduct formation with terbium: a novel strategy for transferrin glycoform identification in human body fluids and carbohydrate-deficient transferrin HPLC method validation. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1369-1378.	3.7	5
62	Capillary Electrophoresis (CE) vs. HPLC in the determination of asialo-Tf, a crucial marker for the reliable interpretation of questioned CDT increases. <i>Clinica Chimica Acta</i> , 2018, 486, 49-53.	1.1	5
63	Drug screening by using the Toxtyper LC-ion trap MS: Optimization of its application on serum samples in a DUID context. <i>Clinica Chimica Acta</i> , 2020, 510, 537-543.	1.1	5
64	Criticism to the article: "Toward standardization of carbohydrate-deficient transferrin (CDT) measurements: I. Analyte definition and proposal of a candidate reference method." Authors: J.O. Jeppsson et al. <i>Clin Chem Lab Med</i> 2007;45(4):558-562. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008, 46, 725-6; author reply 727-8.	2.3	4
65	A new sample treatment for asialo-Tf determination with capillary electrophoresis: an added value to the analysis of CDT. <i>Clinica Chimica Acta</i> , 2018, 483, 256-262.	1.1	4
66	Critical Evaluation of the Association Between Elevated Mean Corpuscular Volume and Alcohol-Related Traffic Accidents: A Retrospective Study on 6244 Car Crash Cases. <i>Alcoholism: Clinical and Experimental Research</i> , 2019, 43, 1528-1532.	2.4	4
67	CDT reference values for monitoring chronic alcohol abuse in pregnancy. <i>Clinica Chimica Acta</i> , 2020, 507, 156-160.	1.1	4
68	CDT vs. GGT for the certification of the fitness to hold the driving license. A comparison based on the association of incremented values with the occurrence of alcohol-related road traffic accidents. <i>Drug and Alcohol Dependence</i> , 2021, 228, 109088.	3.2	3
69	Chapter 15 Forensic toxicological screening with capillary electrophoresis and related techniques. <i>Handbook of Analytical Separations</i> , 2008, 6, 513-534.	0.8	2
70	Cocaine-associated increase of atrial natriuretic peptides: an early predictor of cardiac complications in cocaine users?. <i>Heart Asia</i> , 2014, 6, 100-107.	1.1	2
71	Comments on "Capillary zone electrophoresis for determination of carbohydrate-deficient transferrin in human serum". <i>Electrophoresis</i> , 2004, 25, 1723-1723.	2.4	1
72	A morphological analysis of fresh and brine-cured olives attacked by <i>Bactrocera oleae</i> using light microscopy and ESEM-EDS. <i>European Journal of Histochemistry</i> , 2020, 64, .	1.5	1

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73	A morphological analysis of fresh and brine-cured olives attacked by <i>Bactrocera oleae</i> using light microscopy and ESEM-EDS. <i>European Journal of Histochemistry</i> , 2020, 64, .	1.5	1
74	Ischemic stroke due to sporadic and genetic pulmonary arteriovenous malformations: Case report. <i>Brain Circulation</i> , 2022, 8, 57.	1.8	1