

Andrei R Timerbaev

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124
papers

4,210
citations

36
h-index

59
g-index

126
ext. papers

4,460
ext. citations

5.7
avg, IF

5.83
L-index

#	Paper	IF	Citations
124	Interactions of antitumor metallodrugs with serum proteins: advances in characterization using modern analytical methodology. <i>Chemical Reviews</i> , 2006 , 106, 2224-48	68.1	528
123	Structure-activity relationships for NAMI-A-type complexes (HL)[trans-RuCl ₄ L(S-dmsO)ruthenate(III)] (L = imidazole, indazole, 1,2,4-triazole, 4-amino-1,2,4-triazole, and 1-methyl-1,2,4-triazole): aquation, redox properties, protein binding, and antiproliferative activity. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 2185-93	8.3	191
122	Platinum metallodrug-protein binding studies by capillary electrophoresis-inductively coupled plasma-mass spectrometry: characterization of interactions between Pt(II) complexes and human serum albumin. <i>Electrophoresis</i> , 2004 , 25, 1988-95	3.6	120
121	Recent advances of transient isotachopheresis-capillary electrophoresis in the analysis of small ions from high-conductivity matrices. <i>Electrophoresis</i> , 2006 , 27, 323-40	3.6	114
120	Capillary electrophoresis: the state-of-the-art in metal speciation studies. <i>Analytica Chimica Acta</i> , 1998 , 359, 1-26	6.6	106
119	Platinum group metallodrug-protein binding studies by capillary electrophoresis - inductively coupled plasma-mass spectrometry: a further insight into the reactivity of a novel antitumor ruthenium(III) complex toward human serum proteins. <i>Electrophoresis</i> , 2006 , 27, 1128-35	3.6	94
118	Advances in developing tris(8-quinolinolato)gallium(III) as an anticancer drug: critical appraisal and prospects. <i>Metallomics</i> , 2009 , 1, 193-8	4.5	90
117	Preclinical characterization of anticancer gallium(III) complexes: solubility, stability, lipophilicity and binding to serum proteins. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 1819-26	4.2	90
116	Metal ion capillary electrophoresis with direct UV detection effect of a charged surfactant on the migration behaviour of metal chelates. <i>Journal of Chromatography A</i> , 1994 , 671, 419-427	4.5	83
115	Element speciation analysis by capillary electrophoresis. <i>Talanta</i> , 2000 , 52, 573-606	6.2	82
114	Element speciation analysis using capillary electrophoresis: twenty years of development and applications. <i>Chemical Reviews</i> , 2013 , 113, 778-812	68.1	81
113	Comparative binding of antitumor indazolium [trans-tetrachlorobis(1H-indazole)ruthenate(III)] to serum transport proteins assayed by capillary zone electrophoresis. <i>Analytical Biochemistry</i> , 2005 , 341, 326-33	3.1	80
112	Determination of trace iodide in seawater by capillary electrophoresis following transient isotachopheretic preconcentration: Comparison with ion chromatography. <i>Analytica Chimica Acta</i> , 2003 , 497, 67-74	6.6	79
111	Determination of binding constants and stoichiometries for platinum anticancer drugs and serum transport proteins by capillary electrophoresis using the Hummel-Dreyer method. <i>Journal of Separation Science</i> , 2005 , 28, 121-7	3.4	70
110	Recent progress in capillary electrophoresis of metal ions. <i>Electrophoresis</i> , 2000 , 21, 4179-91	3.6	63
109	Recent advances and trends in capillary electrophoresis of inorganic ions. <i>Electrophoresis</i> , 2002 , 23, 3884-906	3.6	61
108	Capillary electrophoresis of inorganic ions: an update. <i>Electrophoresis</i> , 2004 , 25, 4008-31	3.6	60

107	Speciation studies by capillary electrophoresis - simultaneous determination of iodide and iodate in seawater. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 1836-41	4.4	58
106	Prospects for detection and sensitivity enhancement of inorganic ions in capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999 , 834, 117-132	4.5	57
105	Determination of cisplatin and its hydrolytic metabolite in human serum by capillary electrophoresis techniques. <i>Journal of Chromatography A</i> , 2006 , 1106, 75-9	4.5	56
104	Capillary electrophoresis in anti-cancer metallodrug research: advances and future challenges. <i>Electrophoresis</i> , 2003 , 24, 2023-37	3.6	54
103	Another approach toward over 100,000-fold sensitivity increase in capillary electrophoresis: electrokinetic supercharging with optimized sample injection. <i>Analytical Chemistry</i> , 2011 , 83, 398-401	7.8	52
102	Capillary electrophoresis of platinum-group elements. Analytical, speciation and biochemical studies. <i>Journal of Chromatography A</i> , 2002 , 945, 25-44	4.5	52
101	Capillary electrophoresis coupled to mass spectrometry for biospeciation analysis: critical evaluation. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 416-425	14.6	51
100	Inorganic environmental analysis by capillary electrophoresis. <i>Analyst, The</i> , 1999 , 124, 811-826	5	48
99	Speciation of metal-based nanomaterials in human serum characterized by capillary electrophoresis coupled to ICP-MS: a case study of gold nanoparticles. <i>Metallomics</i> , 2015 , 7, 1364-70	4.5	46
98	Probing the stability of serum protein-ruthenium(III) drug adducts in the presence of extracellular reductants using CE. <i>Electrophoresis</i> , 2007 , 28, 2235-40	3.6	45
97	Simultaneous monitoring of inorganic cations, amines and amino acids in human sweat by capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2007 , 581, 83-8	6.6	45
96	Metallodrug research and analysis using capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 868-875	14.6	44
95	Trace ion analysis of seawater by capillary electrophoresis: determination of iodide using transient isotachophoretic preconcentration. <i>Electrophoresis</i> , 2003 , 24, 2328-34	3.6	44
94	Application of capillary electrophoresis-inductively coupled plasma mass spectrometry to comparative studying of the reactivity of antitumor ruthenium(III) complexes differing in the nature of counter-ion toward human serum proteins. <i>Journal of Chromatography A</i> , 2008 , 1192, 323-6	4.5	43
93	Interactions of a novel ruthenium-based anticancer drug (KP1019 or FFC14a) with serum proteins--significance for the patient. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , 2005 , 43, 583-5	2	43
92	Recent progress in the application of analytical techniques to anticancer metallodrug proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1120-1138	14.6	42
91	Analysis of highly saline samples by capillary zone electrophoresis: enhanced direct UV detection of inorganic anions using on-capillary preconcentration and clean-up techniques. <i>Journal of Chromatography A</i> , 2000 , 888, 309-19	4.5	39
90	High-sensitivity capillary and microchip electrophoresis using electrokinetic supercharging preconcentration. Insight into the stacking mechanism via computer modeling. <i>Journal of Chromatography A</i> , 2009 , 1216, 660-70	4.5	36

89	Tumor-inhibiting platinum(II) complexes with aminoalcohol ligands: comparison of the mode of action by capillary electrophoresis and electrospray ionization-mass spectrometry. <i>Electrophoresis</i> , 2003 , 24, 2038-44	3.6	36
88	Sensitive determination of anions in saliva using capillary electrophoresis after transient isotachophoretic preconcentration. <i>Talanta</i> , 2008 , 77, 278-81	6.2	34
87	Recent progress of ICP-MS in the development of metal-based drugs and diagnostic agents. <i>Journal of Analytical Atomic Spectrometry</i> , 2014 , 29, 1058-1072	3.7	33
86	Advances of CE-ICP-MS in speciation analysis related to metalloproteomics of anticancer drugs. <i>Talanta</i> , 2012 , 102, 164-70	6.2	33
85	Inorganic analysis of biological fluids using capillary electrophoresis. <i>Journal of Separation Science</i> , 2008 , 31, 2012-21	3.4	33
84	Interactions of tumour-targeting nanoparticles with proteins: potential of using capillary electrophoresis as a direct probe. <i>Metallomics</i> , 2012 , 4, 1141-8	4.5	32
83	Simultaneous determination of metal ions, amino acids, and other small biogenic molecules in human serum by capillary zone electrophoresis with transient isotachophoretic preconcentration. <i>Journal of Separation Science</i> , 2005 , 28, 522-8	3.4	32
82	Metallomics for drug development: an integrated CE-ICP-MS and ICP-MS approach reveals the speciation changes for an investigational ruthenium(III) drug bound to holo-transferrin in simulated cancer cytosol. <i>Metallomics</i> , 2013 , 5, 955-63	4.5	31
81	Characterization of interactions between human serum albumin and tumor-inhibiting amino alcohol platinum(II) complexes using capillary electrophoresis. <i>Journal of Chromatography A</i> , 2007 , 1155, 218-214.5	4.5	31
80	High-sensitivity capillary electrophoresis determination of inorganic anions in serum and urine using on-line preconcentration by transient isotachophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 811, 165-170	3.2	30
79	Sensitive monitoring of iodine species in sea water using capillary electrophoresis: vertical profiles of dissolved iodine in the Pacific Ocean. <i>Journal of Environmental Monitoring</i> , 2005 , 7, 804-8		29
78	Electrokinetic supercharging with a system-induced terminator and an optimized capillary versus electrode configuration for parts-per-trillion detection of rare-earth elements in CZE. <i>Electrophoresis</i> , 2011 , 32, 1195-200	3.6	28
77	Trace ion analysis of sea water by capillary electrophoresis: determination of strontium and lithium pre-concentrated by transient isotachophoresis. <i>Analyst, The</i> , 2003 , 128, 1439-42	5	27
76	Inorganic biological analysis by capillary electrophoresis. <i>Analyst, The</i> , 2001 , 126, 964-81	5	26
75	Metallomics for drug development: a further insight into intracellular activation chemistry of a ruthenium(III)-based anticancer drug gained using a multidimensional analytical approach. <i>Metallomics</i> , 2014 , 6, 147-53	4.5	25
74	Inductively coupled plasma mass spectrometry for metallodrug development: albumin binding and serum distribution of cytotoxic cis- and trans-isomeric platinum(II) complexes. <i>Journal of Inorganic Biochemistry</i> , 2014 , 137, 40-5	4.2	25
73	Analysis of inorganic pollutants by capillary electrophoresis. <i>Electrophoresis</i> , 1997 , 18, 185-95	3.6	24
72	Characterization of the protein corona of gold nanoparticles by an advanced treatment of CE-ICP-MS data. <i>Electrophoresis</i> , 2016 , 37, 2257-9	3.6	23

71	Role of metallomic strategies in developing ruthenium anticancer drugs. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 80, 547-554	14.6	23
70	Comparison of detection techniques for capillary electrophoresis analysis of gold nanoparticles. <i>Electrophoresis</i> , 2015 , 36, 1158-63	3.6	22
69	Determination of gallium originated from a gallium-based anticancer drug in human urine using ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 709-14	4.4	22
68	Element speciation analysis by capillary electrophoresis: what are the hints on becoming a standard analytical methodology?. <i>Analytica Chimica Acta</i> , 2001 , 433, 165-180	6.6	22
67	High-sensitivity capillary electrophoresis determination of inorganic anions in serum and urine using on-line preconcentration by transient isotachopheresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 811, 165-70	3.2	22
66	Analytical methodology for studying cellular uptake, processing and localization of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2019 , 1052, 1-9	6.6	22
65	Development of quantitative structure-activity relationships for interpretation of the migration behavior of neutral platinum(II) complexes in microemulsion electrokinetic chromatography. <i>Journal of Chromatography A</i> , 2007 , 1146, 258-63	4.5	21
64	Tumour-inhibiting platinum(II) complexes with aminoalcohol ligands: biologically important transformations studied by micellar electrokinetic chromatography, nuclear magnetic resonance spectroscopy and mass spectrometry. <i>Analyst, The</i> , 2005 , 130, 1383-9	5	21
63	Characterization of interactions of metal-containing nanoparticles with biomolecules by CE: An update (2012-2016). <i>Electrophoresis</i> , 2017 , 38, 1661-1668	3.6	20
62	Sensitive profiling of biogenic amines in urine using CE with transient isotachopheretic preconcentration. <i>Journal of Separation Science</i> , 2009 , 32, 4143-7	3.4	20
61	Recent trends in CE of inorganic ions: from individual to multiple elemental species analysis. <i>Electrophoresis</i> , 2007 , 28, 3420-35	3.6	20
60	Capillary electrophoresis of metal-based drugs. <i>Analytical Biochemistry</i> , 2007 , 369, 1-7	3.1	20
59	CE of inorganic species--a review of methodological advancements over 2009-2010. <i>Electrophoresis</i> , 2012 , 33, 196-210	3.6	19
58	A versatile approach for assaying in vitro metallodrug metabolism using CE hyphenated with ICP-MS. <i>Analyst, The</i> , 2009 , 134, 1999-2002	5	19
57	Inorganic species analysis by CE--an overview for 2007-2008. <i>Electrophoresis</i> , 2010 , 31, 192-204	3.6	19
56	Recent progress of capillary electrophoresis in studying the speciation of actinides. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 51, 44-50	14.6	18
55	Enhancing the Cytotoxic Activity of Anticancer Pt(IV) Complexes by Introduction of Lonidamine as an Axial Ligand. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 1785-1791	2.3	18
54	Analytical approaches for assaying metallodrugs in biological samples: recent methodological developments and future trends. <i>Current Drug Metabolism</i> , 2012 , 13, 272-83	3.5	18

53	Focusing of anionic micelles using sample-induced transient isotachopheresis: computer simulation and experimental verification in MEKC. <i>Journal of Separation Science</i> , 2010 , 33, 637-42	3.4	18
52	The fate of differently functionalized gold nanorods in human serum: A response from capillary electrophoresis-inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2017 , 1499, 222-225	4.5	17
51	CE Separation and ICP-MS Detection of Gold Nanoparticles and Their Protein Conjugates. <i>Chromatographia</i> , 2017 , 80, 1695-1700	2.1	17
50	Application of micellar and microemulsion electrokinetic chromatography for characterization of gallium(III) complexes of pharmaceutical significance. <i>Journal of Separation Science</i> , 2007 , 30, 399-406	3.4	17
49	Toward high-throughput monitoring of metallodrug-protein interaction using capillary electrophoresis in chemically modified capillaries. <i>Analytical Biochemistry</i> , 2008 , 379, 216-8	3.1	17
48	Migration behavior of metal complexes in capillary zone electrophoresis. Interpretation in terms of quantitative structure-mobility relationships. <i>Journal of Chromatography A</i> , 2002 , 943, 263-74	4.5	17
47	Analysis of seawater and different highly saline natural waters by capillary zone electrophoresis. <i>Marine Chemistry</i> , 2003 , 82, 221-238	3.7	17
46	Investigations into the catalytic activity of rhodium(III) in red-ox reactions by capillary zone electrophoresis. <i>Talanta</i> , 2003 , 61, 195-202	6.2	17
45	Combination of ICP-MS, capillary electrophoresis, and their hyphenation for probing Ru(III) metallodrug-DNA interactions. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 2421-2427	4.4	16
44	A quantitative structure-activity approach for lipophilicity estimation of antitumor complexes of different metals using microemulsion electrokinetic chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 55, 409-13	3.5	15
43	Separation of inorganic anions for analysis of sea-water by capillary zone electrophoresis. <i>Analytical Communications</i> , 1999 , 36, 139-141		15
42	Cellular processing of gold nanoparticles: CE-ICP-MS evidence for the speciation changes in human cytosol. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 1151-1156	4.4	14
41	Metall(prote)omic studies by capillary electrophoresis using separation capillary as an in-line reactor. <i>Metallomics</i> , 2011 , 3, 761-4	4.5	14
40	An advanced application of the quantitative structure-activity relationship concept in electrokinetic chromatography of metal complexes. <i>Electrophoresis</i> , 2008 , 29, 827-34	3.6	13
39	Capillary electrophoretic assay for the stability of tris(8-quinolinolato)gallium(III) in tablet formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 218-22	3.5	13
38	Quantitative structure-mobility relationship modelling of electrokinetic chromatography of metal complexes: approaches and limitations. <i>Electrophoresis</i> , 2002 , 23, 1786-95	3.6	13
37	Capillary zone electrophoresis of quantum dots dispersed in mixed micelles: new evidence of the concentration effect. <i>Journal of Chromatography A</i> , 2013 , 1305, 320-7	4.5	12
36	Metallomics for drug development: serum protein binding and analysis of an anticancer tris(8-quinolinolato)gallium(III) drug using inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2013 , 785, 22-6	6.6	12

35	Metal speciation analysis of petroleum: Myth or reality?. <i>Analytica Chimica Acta</i> , 2017 , 991, 1-8	6.6	12
34	A simple assay for probing transformations of superparamagnetic iron oxide nanoparticles in human serum. <i>Chemical Communications</i> , 2019 , 55, 4270-4272	5.8	11
33	A sensitive and versatile method for characterization of protein-mediated transformations of quantum dots. <i>Analyst, The</i> , 2016 , 141, 2574-80	5	11
32	Molecular mass spectrometry in metallodrug development: a case of mapping transferrin-mediated transformations for a ruthenium(III) anticancer drug. <i>Analytica Chimica Acta</i> , 2014 , 851, 72-7	6.6	11
31	A shotgun metalloproteomic approach enables identification of proteins involved in the speciation of a ruthenium anticancer drug in the cytosol of cancer cells. <i>Analyst, The</i> , 2015 , 140, 3492-9	5	11
30	An improved protocol for ICP-MS-based assessment of the cellular uptake of metal-based nanoparticles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 174, 300-304	3.5	10
29	Development and Validation of a Sector-Field Inductively Coupled Plasma [Mass Spectrometry (ICP-MS) Method for Analyzing the Diagenesis-Designating Metals in Marine Sediments. <i>Analytical Letters</i> , 2020 , 53, 563-573	2.2	10
28	Specific analyte-electrolyte additive interaction in transient isotachopheresis-capillary electrophoresis. <i>Journal of Chromatography A</i> , 2003 , 993, 205-9	4.5	9
27	Can neutral analytes be concentrated by transient isotachopheresis in micellar electrokinetic chromatography and how much?. <i>Journal of Chromatography A</i> , 2014 , 1345, 212-8	4.5	8
26	Inorganic analysis using CE: advanced methodologies to face old challenges. <i>Electrophoresis</i> , 2014 , 35, 225-33	3.6	8
25	Correlation analysis in liquid chromatography of metal chelates. <i>Journal of Chromatography A</i> , 1990 , 498, 337-348	4.5	8
24	Use of high-performance liquid chromatography-tandem electrospray ionization mass spectrometry to assess the speciation of a ruthenium(III) anticancer drug in the cytosol of cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 4857-62	4.4	7
23	Correlation analysis in liquid chromatography of metal chelates. <i>Journal of Chromatography A</i> , 1993 , 648, 307-314	4.5	7
22	Application of ICP-MS to the development of metal-based drugs and diagnostic agents: where do we stand?. <i>Journal of Analytical Atomic Spectrometry</i> , 2021 , 36, 254-266	3.7	7
21	High-resolution ICP-MS approach for characterization of magnetic nanoparticles for biomedical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 189, 113479	3.5	6
20	What are the current analytical approaches for sediment analysis related to the study of diagenesis? Highlights from 2010 to 2018. <i>Talanta</i> , 2019 , 191, 435-442	6.2	6
19	Analytical methodology for determination of interactions between metallodrugs and DNA: A critical examination. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 90, 107-113	14.6	5
18	How well can we characterize human serum transformations of magnetic nanoparticles?. <i>Analyst, The</i> , 2020 , 145, 1103-1109	5	5

17	Toward a deeper and simpler understanding of serum protein-mediated transformations of magnetic nanoparticles by ICP-MS. <i>Talanta</i> , 2021 , 229, 122287	6.2	5
16	Quantification of the diagenesis-designating metals in sediments by ICP-MS: Comparison of different sample preparation methods. <i>Talanta</i> , 2019 , 200, 468-471	6.2	5
15	An ICP-MS-based assay for characterization of gold nanoparticles with potential biomedical use. <i>Analytical Biochemistry</i> , 2020 , 611, 114003	3.1	4
14	Characterization of quantum dots in cancer cytosol using ICP-MS-based combined techniques. <i>Analytical Biochemistry</i> , 2019 , 584, 113387	3.1	3
13	Combination of electrophoresis, chromatography, and magnetism in a single separation technique: Part 1: a first theoretical evaluation. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2018 , 41, 43-48	1.3	3
12	Complex samples: how well do we understand their complexity?. <i>Talanta</i> , 2000 , 52, 1171-3	6.2	3
11	Current trends and challenges in analysis and characterization of engineered nanoparticles in seawater. <i>Talanta</i> , 2021 , 226, 122201	6.2	3
10	Recent developments of capillary electrophoresis in seawater analysis. <i>Journal of Chromatography A</i> , 2019 , 1606, 360240	4.5	2
9	Magnetic nanoparticles for highly robust, facile and efficient loading of metal-based drugs.. <i>Journal of Inorganic Biochemistry</i> , 2021 , 227, 111685	4.2	2
8	Current and emerging mass spectrometry methods for the preclinical development of metal-based drugs: a critical appraisal. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	2
7	Improved Sampling Design for Depth Profile Analysis of Marine Sediments Using Sector-Field Inductively Coupled Plasma Mass Spectrometry (SF-ICP-MS). <i>Analytical Letters</i> , 2021 , 54, 442-452	2.2	2
6	How Feasible is Direct Determination of Rare Earth Elements in Seawater by ICP-MS?. <i>Analytical Sciences</i> , 2021 , 37, 1633-1636	1.7	2
5	Separation technique based on electrophoresis, chromatography and magnetism phenomena: the migration time and peak broadening. <i>Mendeleev Communications</i> , 2019 , 29, 595-596	1.9	1
4	Metal-Specific Response of High-Resolution ICP-MS for Proteins Binding to Gold Nanoparticles in Human Serum. <i>Analytical Chemistry</i> , 2021 , 93, 14918-14922	7.8	1
3	Marine sediment analysis - A review of advanced approaches and practices focused on contaminants.. <i>Analytica Chimica Acta</i> , 2022 , 1209, 339640	6.6	1
2	Analytical methodology for developing nanomaterials designed for magnetically-guided delivery of platinum anticancer drugs.. <i>Talanta</i> , 2022 , 243, 123371	6.2	0
1	Versatile analytical methodology for evaluation of drug-like properties of potentially multi-targeting anticancer metallodrugs.. <i>Analytical Sciences</i> , 2022 , 38, 627-632	1.7	