

Ren Kizek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

389
papers

13,492
citations

58
h-index

95
g-index

417
ext. papers

14,962
ext. citations

4
avg. IF

6.16
L-index

#	Paper	IF	Citations
389	Methods for carbon nanotubes synthesis review. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15872		506
388	Magnetic nanoparticles and targeted drug delivering. <i>Pharmacological Research</i> , 2010 , 62, 144-9	10.2	480
387	The role of metallothionein in oxidative stress. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 6044-66	4.66	476
386	Redox status expressed as GSH:GSSG ratio as a marker for oxidative stress in paediatric tumour patients. <i>Oncology Letters</i> , 2012 , 4, 1247-1253	2.6	317
385	Deoxynivalenol and its toxicity. <i>Interdisciplinary Toxicology</i> , 2010 , 3, 94-9	2.3	274
384	Uncommon heavy metals, metalloids and their plant toxicity: a review. <i>Environmental Chemistry Letters</i> , 2008 , 6, 189-213	13.3	268
383	Nano-selenium and its nanomedicine applications: a critical review. <i>International Journal of Nanomedicine</i> , 2018 , 13, 2107-2128	7.3	237
382	Quantum dots - characterization, preparation and usage in biological systems. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 656-73	6.3	217
381	Quantum dots-fluorescence resonance energy transfer-based nanosensors and their application. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 562-74	11.8	176
380	Mammalian metallothioneins: properties and functions. <i>Metallomics</i> , 2012 , 4, 739-50	4.5	166
379	Matrix metalloproteinases. <i>Current Medicinal Chemistry</i> , 2010 , 17, 3751-68	4.3	160
378	Noteworthy Secondary Metabolites Naphthoquinones Their Occurrence, Pharmacological Properties and Analysis. <i>Current Pharmaceutical Analysis</i> , 2009 , 5, 47-68	0.6	157
377	Simultaneous femtomole determination of cysteine, reduced and oxidized glutathione, and phytochelatin in maize (<i>Zea mays</i> L.) kernels using high-performance liquid chromatography with electrochemical detection. <i>Journal of Chromatography A</i> , 2005 , 1084, 134-44	4.5	146
376	Trace elemental analysis by laser-induced breakdown spectroscopy Biological applications. <i>Surface Science Reports</i> , 2012 , 67, 233-243	12.9	121
375	Mapping of lead, magnesium and copper accumulation in plant tissues by laser-induced breakdown spectroscopy and laser-ablation inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009 , 64, 67-73	3.1	120
374	Jacks of metal/metalloid chelation trade in plants-an overview. <i>Frontiers in Plant Science</i> , 2015 , 6, 192	6.2	110
373	Simultaneous determination of water- and fat-soluble vitamins in pharmaceutical preparations by high-performance liquid chromatography coupled with diode array detection. <i>Analytica Chimica Acta</i> , 2004 , 520, 57-67	6.6	110

372	Electrochemical enzyme-linked immunoassay in a DNA hybridization sensor. <i>Analytica Chimica Acta</i> , 2002 , 469, 73-83	6.6	109
371	Determination of metallothionein at the femtomole level by constant current stripping chronopotentiometry. <i>Analytical Chemistry</i> , 2001 , 73, 4801-7	7.8	108
370	Metallothioneins and cancer. <i>Current Protein and Peptide Science</i> , 2009 , 10, 360-75	2.8	104
369	Nanoscale copper in the soil-plant system - toxicity and underlying potential mechanisms. <i>Environmental Research</i> , 2015 , 138, 306-25	7.9	102
368	Anthracyclines and ellipticines as DNA-damaging anticancer drugs: recent advances. <i>Pharmacology & Therapeutics</i> , 2012 , 133, 26-39	13.9	101
367	Application of avidin-biotin technology and adsorptive transfer stripping square-wave voltammetry for detection of DNA hybridization and avidin in transgenic avidin maize. <i>Analytical Chemistry</i> , 2003 , 75, 2663-9	7.8	99
366	3D printed chip for electrochemical detection of influenza virus labeled with CdS quantum dots. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 421-7	11.8	95
365	Fully automated spectrometric protocols for determination of antioxidant activity: advantages and disadvantages. <i>Molecules</i> , 2010 , 15, 8618-40	4.8	90
364	A Summary of New Findings on the Biological Effects of Selenium in Selected Animal Species-A Critical Review. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	89
363	Attomole voltammetric determination of metallothionein. <i>Electrochimica Acta</i> , 2006 , 51, 5112-5119	6.7	88
362	DNA hybridization at microbeads with cathodic stripping voltammetric detection. <i>Talanta</i> , 2002 , 56, 919-30	6.8	88
361	Polyphenolic profile and biological activity of Chinese hawthorn (<i>Crataegus pinnatifida</i> BUNGE) fruits. <i>Molecules</i> , 2012 , 17, 14490-509	4.8	87
360	Preparation and properties of various magnetic nanoparticles. <i>Sensors</i> , 2009 , 9, 2352-62	3.8	86
359	Sensitive electrochemical determination of unlabeled MutS protein and detection of point mutations in DNA. <i>Analytical Chemistry</i> , 2004 , 76, 5930-6	7.8	85
358	Contribution of Red Wine Consumption to Human Health Protection. <i>Molecules</i> , 2018 , 23,	4.8	82
357	Phenolic profile of edible honeysuckle berries (genus <i>Lonicera</i>) and their biological effects. <i>Molecules</i> , 2011 , 17, 61-79	4.8	82
356	Cyclic voltammetric study of the redox system of glutathione using the disulfide bond reductant tris(2-carboxyethyl)phosphine. <i>Bioelectrochemistry</i> , 2004 , 63, 19-24	5.6	82
355	Nanocarriers for anticancer drugs--new trends in nanomedicine. <i>Current Drug Metabolism</i> , 2013 , 14, 547-54	5.4	79

354	Sarcosine as a potential prostate cancer biomarker--a review. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13893-908	6.3	76
353	Sensitive Electrochemical Detection of Native and Aggregated α -Synuclein Protein Involved in Parkinson's Disease. <i>Electroanalysis</i> , 2004 , 16, 1172-1181	3	76
352	Electrochemical study of heavy metals and metallothionein in yeast <i>Yarrowia lipolytica</i> . <i>Bioelectrochemistry</i> , 2003 , 60, 29-36	5.6	76
351	Clinical significance of head and neck squamous cell cancer biomarkers. <i>Oral Oncology</i> , 2014 , 50, 168-77	4.4	75
350	Metallothionein polymorphisms in pathological processes. <i>Metallomics</i> , 2014 , 6, 55-68	4.5	74
349	Two-Surface Strategy in Electrochemical DNA Hybridization Assays: Detection of Osmium-Labeled Target DNA at Carbon Electrodes. <i>Electroanalysis</i> , 2003 , 15, 431-440	3	74
348	Content of phenolic compounds and antioxidant capacity in fruits of apricot genotypes. <i>Molecules</i> , 2010 , 15, 6285-305	4.8	72
347	Analytical Methods for Metallothionein Detection. <i>Current Analytical Chemistry</i> , 2011 , 7, 243-261	1.7	72
346	MALDI-TOF MS as evolving cancer diagnostic tool: a review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 95, 245-55	3.5	71
345	Determination of isoflavones in soybean food and human urine using liquid chromatography with electrochemical detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 806, 101-11	3.2	71
344	Perspective of Use of Antiviral Peptides against Influenza Virus. <i>Viruses</i> , 2015 , 7, 5428-42	6.2	70
343	Voltammetric microanalysis of DNA adducts with osmium tetroxide, 2,2'-bipyridine using a pyrolytic graphite electrode. <i>Talanta</i> , 2002 , 56, 867-74	6.2	70
342	Determination of Vitamin C (Ascorbic Acid) Using High Performance Liquid Chromatography Coupled with Electrochemical Detection. <i>Sensors</i> , 2008 , 8, 7097-7112	3.8	69
341	Application of Elimination Voltammetry to Adsorptive Stripping of DNA. <i>Electroanalysis</i> , 2000 , 12, 905-911	3.1	68
340	Evaluation of isoflavone aglycon and glycoside distribution in soy plants and soybeans by fast column high-performance liquid chromatography coupled with a diode-array detector. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 5848-52	5.7	67
339	Vertebrate metallothioneins as target molecules for analytical techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 409-418	14.6	66
338	G-quadruplexes as sensing probes. <i>Molecules</i> , 2013 , 18, 14760-79	4.8	65
337	Simultaneous determination of eight biologically active thiol compounds using gradient elution-liquid chromatography with Coul-Array detection. <i>Journal of Separation Science</i> , 2006 , 29, 1166-734	3.4	64

336	Investigation of heavy-metal accumulation in selected plant samples using laser induced breakdown spectroscopy and laser ablation inductively coupled plasma mass spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 917-922	2.6	63
335	Study of Metallothionein Modified Electrode Surface Behavior in the Presence of Heavy Metal Ions-Biosensor. <i>Electroanalysis</i> , 2005 , 17, 1649-1657	3	62
334	Serum and tissue zinc in epithelial malignancies: a meta-analysis. <i>PLoS ONE</i> , 2014 , 9, e99790	3.7	62
333	Metallothioneins and zinc in cancer diagnosis and therapy. <i>Drug Metabolism Reviews</i> , 2012 , 44, 287-301	7	61
332	Cisplatin electrochemical biosensor. <i>Electrochimica Acta</i> , 2006 , 51, 5169-5173	6.7	61
331	Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 644-9	11.8	58
330	Comparison of the effects of silver phosphate and selenium nanoparticles on <i>Staphylococcus aureus</i> growth reveals potential for selenium particles to prevent infection. <i>FEMS Microbiology Letters</i> , 2014 , 351, 195-201	2.9	58
329	Liquid chromatographic-mass spectrometric determination of genistin and daidzin in soybean food samples after accelerated solvent extraction with modified content of extraction cell. <i>Analytica Chimica Acta</i> , 2004 , 517, 1-11	6.6	58
328	Phytochelatin Modified Electrode Surface as a Sensitive Heavy- Metal Ion Biosensor. <i>Sensors</i> , 2005 , 5, 70-84	3.8	58
327	Electrochemical determination of Ag-ions in environment waters and their action on plant embryos. <i>Bioelectrochemistry</i> , 2007 , 70, 508-18	5.6	57
326	Multiply osmium-labeled reporter probes for electrochemical DNA hybridization assays: detection of trinucleotide repeats. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 985-94	11.8	57
325	Naphthoquinones as allelochemical triggers of programmed cell death. <i>Environmental and Experimental Botany</i> , 2009 , 65, 330-337	5.9	56
324	Determination of isoflavones in soy bits by fast column high-performance liquid chromatography coupled with UV-visible diode-array detection. <i>Journal of Chromatography A</i> , 2005 , 1084, 71-9	4.5	56
323	<i>Staphylococcus aureus</i> and MRSA Growth and Biofilm Formation after Treatment with Antibiotics and SeNPs. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 24656-72	6.3	55
322	Insight to physiology and pathology of zinc(II) ions and their actions in breast and prostate carcinoma. <i>Current Medicinal Chemistry</i> , 2011 , 18, 5041-51	4.3	55
321	The synergistic effects of DNA-targeted chemotherapeutics and histone deacetylase inhibitors as therapeutic strategies for cancer treatment. <i>Current Medicinal Chemistry</i> , 2012 , 19, 4218-38	4.3	54
320	Modern micro and nanoparticle-based imaging techniques. <i>Sensors</i> , 2012 , 12, 14792-820	3.8	52
319	Ellipticine cytotoxicity to cancer cell lines - a comparative study. <i>Interdisciplinary Toxicology</i> , 2011 , 4, 98-105		52

318	The mechanism of cytotoxicity and DNA adduct formation by the anticancer drug ellipticine in human neuroblastoma cells. <i>Biochemical Pharmacology</i> , 2009 , 77, 1466-79	6	51
317	Multi-instrumental Analysis of Tissues of Sunflower Plants Treated with Silver(I) Ions - Plants as Bioindicators of Environmental Pollution. <i>Sensors</i> , 2008 , 8, 445-463	3.8	51
316	An Electrochemical Detection of Metallothioneins at the Zeptomole Level in Nanolitre Volumes. <i>Sensors</i> , 2008 , 8, 2293-2305	3.8	51
315	Electroanalysis of Plant Thiols. <i>Sensors</i> , 2007 , 7, 932-959	3.8	51
314	Apoferitin applications in nanomedicine. <i>Nanomedicine</i> , 2014 , 9, 2233-45	5.6	50
313	Cisplatin-resistant prostate cancer model: Differences in antioxidant system, apoptosis and cell cycle. <i>International Journal of Oncology</i> , 2014 , 44, 923-33	4.4	49
312	Metallothionein - immunohistochemical cancer biomarker: a meta-analysis. <i>PLoS ONE</i> , 2014 , 9, e85346	3.7	49
311	Relevance of infection with human papillomavirus: the role of the p53 tumor suppressor protein and E6/E7 zinc finger proteins (Review). <i>International Journal of Oncology</i> , 2013 , 43, 1754-62	4.4	49
310	Complexes of silver(I) ions and silver phosphate nanoparticles with hyaluronic acid and/or chitosan as promising antimicrobial agents for vascular grafts. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13592-614	6.3	49
309	Electrochemical determination of lead and glutathione in a plant cell culture. <i>Bioelectrochemistry</i> , 2004 , 63, 347-51	5.6	49
308	Apoferitin modified magnetic particles as doxorubicin carriers for anticancer drug delivery. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13391-402	6.3	48
307	Algal biomass analysis by laser-based analytical techniques--a review. <i>Sensors</i> , 2014 , 14, 17725-52	3.8	48
306	Catalytic signal of rabbit liver metallothionein on a mercury electrode: a combination of derivative chronopotentiometry with adsorptive transfer stripping. <i>Bioelectrochemistry</i> , 2002 , 56, 57-61	5.6	48
305	From Na ⁺ /K ⁺ -ATPase and cardiac glycosides to cytotoxicity and cancer treatment. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013 , 13, 1069-87	2.2	48
304	Electrochemical Sensors for Detection of Acetylsalicylic Acid. <i>Sensors</i> , 2006 , 6, 1483-1497	3.8	47
303	Transport phenomena of nanoparticles in plants and animals/humans. <i>Environmental Research</i> , 2016 , 151, 233-243	7.9	47
302	Fabrication of solid-state nanopores and its perspectives. <i>Electrophoresis</i> , 2015 , 36, 2367-79	3.6	46
301	Histone deacetylase inhibitors in cancer therapy. A review. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2014 , 158, 161-9	1.7	46

300	Sharka: the past, the present and the future. <i>Viruses</i> , 2012 , 4, 2853-901	6.2	46
299	Utilizing of Square Wave Voltammetry to Detect Flavonoids in the Presence of Human Urine. <i>Sensors</i> , 2007 , 7, 2402-2418	3.8	45
298	An analysis of avidin, biotin and their interaction at attomole levels by voltammetric and chromatographic techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 1167-78	4.4	45
297	Cadmium-induced production of phytochelatins and speciation of intracellular cadmium in organs of <i>Linum usitatissimum</i> seedlings. <i>Industrial Crops and Products</i> , 2012 , 36, 536-542	5.9	44
296	A Suggestion of Electrochemical Biosensor for Study of Platinum(II)-DNA Interactions. <i>Electroanalysis</i> , 2007 , 19, 331-338	3	44
295	The effect of metal ions on <i>Staphylococcus aureus</i> revealed by biochemical and mass spectrometric analyses. <i>Microbiological Research</i> , 2015 , 170, 147-56	5.3	43
294	Determination of nanogram quantities of osmium-labeled single stranded DNA by differential pulse stripping voltammetry. <i>Bioelectrochemistry</i> , 2002 , 55, 119-21	5.6	43
293	3D-printed chip for detection of methicillin-resistant <i>Staphylococcus aureus</i> labeled with gold nanoparticles. <i>Electrophoresis</i> , 2015 , 36, 457-66	3.6	42
292	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. <i>Analyst, The</i> , 2016 , 141, 2665-75	5	42
291	Determination of apo-Metallothionein Using Adsorptive Transfer Stripping Technique in Connection with Differential Pulse Voltammetry. <i>Electroanalysis</i> , 2007 , 19, 339-347	3	42
290	Evaluation of polyphenolic profile and nutritional value of non-traditional fruit species in the Czech Republic--a comparative study. <i>Molecules</i> , 2012 , 17, 8968-81	4.8	41
289	Simultaneous automatic electrochemical detection of zinc, cadmium, copper and lead ions in environmental samples using a thin-film mercury electrode and an artificial neural network. <i>Sensors</i> , 2014 , 15, 592-610	3.8	39
288	Paramagnetic nanoparticles as a platform for FRET-based sarcosine picomolar detection. <i>Scientific Reports</i> , 2015 , 5, 8868	4.9	39
287	Employment of Electrochemical Techniques for Metallothionein Determination in Tumor Cell Lines and Patients with a Tumor Disease. <i>Electroanalysis</i> , 2008 , 20, 1521-1532	3	39
286	Sub-picomole high-performance liquid chromatographic/mass spectrometric determination of glutathione in the maize (<i>Zea mays</i> L.) kernels exposed to cadmium. <i>Analytica Chimica Acta</i> , 2004 , 520, 117-124	6.6	39
285	Effect of five different stages of ripening on chemical compounds in medlar (<i>Mespilus germanica</i> L.). <i>Molecules</i> , 2010 , 16, 74-91	4.8	38
284	The relationship between DNA adduct formation by benzo[a]pyrene and expression of its activation enzyme cytochrome P450 1A1 in rat. <i>Environmental Toxicology and Pharmacology</i> , 2013 , 36, 989-96	5.8	37
283	Label-free voltammetric detection of single-nucleotide mismatches recognized by the protein MutS. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 259-70	4.4	37

282	Spectrometric and Voltammetric Analysis of Urease [Nickel Nanoelectrode as an Electrochemical Sensor. <i>Sensors</i> , 2007 , 7, 1238-1255	3.8	37
281	Electrochemical microsensors for the detection of cadmium(II) and lead(II) ions in plants. <i>Sensors</i> , 2010 , 10, 5308-28	3.8	36
280	Multimodal holographic microscopy: distinction between apoptosis and oncosis. <i>PLoS ONE</i> , 2015 , 10, e0121674	3.7	36
279	Sunflower Plants as Bioindicators of Environmental Pollution with Lead (II) Ions. <i>Sensors</i> , 2009 , 9, 5040-58.8	3.8	35
278	Use of liquid chromatography with electrochemical detection for the determination of antioxidants in less common fruits. <i>Molecules</i> , 2008 , 13, 2823-36	4.8	35
277	Multi-instrumental Investigation of Affecting of Early Somatic Embryos of Spruce by Cadmium(II) and Lead(II) Ions. <i>Sensors</i> , 2007 , 7, 743-759	3.8	35
276	Carbon Nanomaterials for Targeted Cancer Therapy Drugs: A Critical Review. <i>Chemical Record</i> , 2019 , 19, 502-522	6.6	34
275	Effect of ampicillin, streptomycin, penicillin and tetracycline on metal resistant and non-resistant <i>Staphylococcus aureus</i> . <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 3233-355	4.6	33
274	Analysis of metallothionein by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2012 , 1226, 31-42.5	4.5	32
273	Heavy metals and metallothionein in vespertilionid bats foraging over aquatic habitats in the Czech Republic. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 501-6	3.8	32
272	Utilization of laser-assisted analytical methods for monitoring of lead and nutrition elements distribution in fresh and dried <i>Capsicum annuum</i> l. leaves. <i>Microscopy Research and Technique</i> , 2011 , 74, 845-52	2.8	32
271	Lactoferrin Isolation Using Monolithic Column Coupled with Spectrometric or Micro-Amperometric Detector. <i>Sensors</i> , 2008 , 8, 464-487	3.8	32
270	Elimination Voltammetry with Linear Scan as a New Detection Method for DNA Sensors. <i>Sensors</i> , 2005 , 5, 448-464	3.8	32
269	Haloperidol cytotoxicity and its relation to oxidative stress. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 1993-8	3.2	32
268	Microarray analysis of metallothioneins in human diseases--A review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 117, 464-73	3.5	31
267	Phytochelatin synthase activity as a marker of metal pollution. <i>Journal of Hazardous Materials</i> , 2011 , 192, 794-800	12.8	31
266	Zeptomole electrochemical detection of metallothioneins. <i>PLoS ONE</i> , 2010 , 5, e11441	3.7	31
265	Using of chicken antibodies for metallothionein detection in human blood serum and cadmium-treated tumour cell lines after dot- and electroblotting. <i>Electrophoresis</i> , 2009 , 30, 3726-35	3.6	31

264	Change of the protein p53 electrochemical signal according to its structural form - quick and sensitive distinguishing of native, denatured, and aggregated form of the "guardian of the genome". <i>Protein Journal</i> , 2006 , 25, 23-32	3.9	31
263	The role of glutathione redox imbalance in autism spectrum disorder: A review. <i>Free Radical Biology and Medicine</i> , 2020 , 160, 149-162	7.8	31
262	Biological Activity and Molecular Structures of Bis(benzimidazole) and Trithiocyanurate Complexes. <i>Molecules</i> , 2015 , 20, 10360-76	4.8	30
261	Caveolin-1 as a potential high-risk prostate cancer biomarker. <i>Oncology Reports</i> , 2012 , 27, 831-41	3.5	30
260	Electrochemical Determination of the Antioxidant Potential of Some Less Common Fruit Species. <i>Sensors</i> , 2008 , 8, 7564-7570	3.8	30
259	Electrochemical study of Sβitrosogluthathione and nitric oxide by carbon fibre NO sensor and cyclic voltammetry (possible way of monitoring of nitric oxide). <i>Electrochimica Acta</i> , 2006 , 51, 5087-5094	6.7	30
258	Square wave and elimination voltammetric analysis of azidothymidine in the presence of oligonucleotides and chromosomal DNA. <i>Bioelectrochemistry</i> , 2004 , 63, 31-6	5.6	30
257	Mathematical evaluation of the amino acid and polyphenol content and antioxidant activities of fruits from different apricot cultivars. <i>Molecules</i> , 2011 , 16, 7428-57	4.8	29
256	Bio-sensing of cadmium(II) ions using Staphylococcus aureus. <i>Sensors</i> , 2011 , 11, 10638-63	3.8	29
255	Easy to use and rapid isolation and detection of a viral nucleic acid by using paramagnetic microparticles and carbon nanotubes-based screen-printed electrodes. <i>Microfluidics and Nanofluidics</i> , 2010 , 8, 329-339	2.8	29
254	New Hydrodynamic Electrochemical Arrangement for Cadmium Ions Detection Using Thick-Film Chemical Sensor Electrodes. <i>Sensors</i> , 2006 , 6, 1498-1512	3.8	29
253	Using of liquid chromatography coupled with diode array detector for determination of naphthoquinones in plants and for investigation of influence of pH of cultivation medium on content of plumbagin in <i>Dionaea muscipula</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical Sciences</i> , 2005 , 819, 22-27	3.2	29
252	The Composites of Graphene Oxide with Metal or Semimetal Nanoparticles and Their Effect on Pathogenic Microorganisms. <i>Materials</i> , 2015 , 8, 2994-3011	3.5	28
251	An acetylcholinesterase-based chronoamperometric biosensor for fast and reliable assay of nerve agents. <i>Sensors</i> , 2013 , 13, 11498-506	3.8	28
250	Sulfur mustard causes oxidative stress and depletion of antioxidants in muscles, livers, and kidneys of Wistar rats. <i>Drug and Chemical Toxicology</i> , 2013 , 36, 270-6	2.3	28
249	Affecting of aquatic vascular plant <i>Lemna minor</i> by cisplatin revealed by voltammetry. <i>Bioelectrochemistry</i> , 2008 , 72, 59-65	5.6	28
248	Fullerene as a transporter for doxorubicin investigated by analytical methods and in vivo imaging. <i>Electrophoresis</i> , 2014 , 35, 1040-9	3.6	27
247	Assays for determination of matrix metalloproteinases and their activity. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1819-1832	14.6	27

246	Study of metallothionein oxidation by using of chip CE. <i>Electrophoresis</i> , 2009 , 30, 4029-33	3.6	27
245	Utilizing of Adsorptive Transfer Stripping Technique Brdicka Reaction for Determination of Metallothioneins Level in Melanoma Cells, Blood Serum and Tissues. <i>Sensors</i> , 2008 , 8, 3106-3122	3.8	27
244	Electrochemical Determination of Low Molecular Mass Thiols Content in Potatoes (<i>Solanum tuberosum</i>) Cultivated in the Presence of Various Sulphur Forms and Infected by Late Blight (<i>Phytophthora infestans</i>). <i>Sensors</i> , 2008 , 8, 3165-3182	3.8	27
243	Palladium Biosensor. <i>Electroanalysis</i> , 2007 , 19, 1909-1914	3	27
242	Determination of common urine substances as an assay for improving prostate carcinoma diagnostics. <i>Oncology Reports</i> , 2014 , 31, 1846-54	3.5	26
241	Comparison of Metallothionein Detection by Using Brdicka Reaction and Enzyme-Linked Immunosorbent Assay Employing Chicken Yolk Antibodies. <i>Electroanalysis</i> , 2009 , 21, 2575-2583	3	26
240	Zeptomole Detection of Streptavidin Using Carbon Paste Electrode and Square-Wave Voltammetry. <i>Electroanalysis</i> , 2007 , 19, 1177-1182	3	26
239	Synthesis of carbon quantum dots for DNA labeling and its electrochemical, fluorescent and electrophoretic characterization. <i>Chemical Papers</i> , 2015 , 69,	1.9	25
238	Lead toxicosis of captive vultures: case description and responses to chelation therapy. <i>BMC Veterinary Research</i> , 2013 , 9, 11	2.7	25
237	Classification of genomic signals using dynamic time warping. <i>BMC Bioinformatics</i> , 2013 , 14 Suppl 10, S1	3.6	25
236	Cytochrome b5 increases cytochrome P450 3A4-mediated activation of anticancer drug ellipticine to 13-hydroxyellipticine whose covalent binding to DNA is elevated by sulfotransferases and N,O-acetyltransferases. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1075-85	4	25
235	Immobilization of metallothionein to carbon paste electrode surface via anti-MT antibodies and its use for biosensing of silver. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2201-7	11.8	25
234	Automated nucleic acids isolation using paramagnetic microparticles coupled with electrochemical detection. <i>Talanta</i> , 2009 , 79, 402-11	6.2	25
233	Determination of Plant Thiols by Liquid Chromatography Coupled with Coulometric and Amperometric Detection in Lettuce Treated by Lead(II) Ions. <i>Electroanalysis</i> , 2010 , 22, 1248-1259	3	25
232	Study of Interaction between Metallothionein and CdTe Quantum Dots. <i>Chromatographia</i> , 2013 , 76, 345-353	3.5	24
231	Escape of Tick-Borne Flavivirus from 2QMethylated Nucleoside Antivirals Is Mediated by a Single Conservative Mutation in NS5 That Has a Dramatic Effect on Viral Fitness. <i>Journal of Virology</i> , 2017 , 91,	6.6	24
230	Interaction of Heavy Metal Ions with Carbon and Iron Based Particles. <i>Materials</i> , 2014 , 7, 2242-2256	3.5	24
229	Paramagnetic particles coupled with an automated flow injection analysis as a tool for influenza viral protein detection. <i>Electrophoresis</i> , 2012 , 33, 3195-204	3.6	24

228	Determination of Azidothymidine as an Antiproliferative and Virostatic Drug by Square-Wave Voltammetry. <i>Electroanalysis</i> , 2004 , 16, 224-230	3	24
227	Antiviral activity of fullerene C60 nanocrystals modified with derivatives of anionic antimicrobial peptide maximin H5. <i>Monatshefte für Chemie</i> , 2016 , 147, 905-918	1.4	23
226	Amperometric Sensor for Detection of Chloride Ions. <i>Sensors</i> , 2008 , 8, 5619-5636	3.8	23
225	Flow Injection Analysis Coupled with Carbon Electrodes as the Tool for Analysis of Naphthoquinones with Respect to Their Content and Functions in Biological Samples. <i>Sensors</i> , 2006 , 6, 1466-1482	3.8	23
224	Application of CdTe/ZnSe quantum dots in in vitro imaging of chicken tissue and embryo. <i>Photochemistry and Photobiology</i> , 2015 , 91, 417-23	3.6	22
223	Modulation of induced cytotoxicity of doxorubicin by using apoferritin and liposomal cages. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 22960-77	6.3	22
222	Effect of magnetic nanoparticles on tobacco BY-2 cell suspension culture. <i>International Journal of Environmental Research and Public Health</i> , 2012 , 10, 47-71	4.6	22
221	Microfluidic chip coupled with modified paramagnetic particles for sarcosine isolation in urine. <i>Electrophoresis</i> , 2013 , 34, 2639-47	3.6	22
220	Electrophoretic fingerprint metallothionein analysis as a potential prostate cancer biomarker. <i>Electrophoresis</i> , 2011 , 32, 1952-61	3.6	22
219	A Fluorimetric Sensor for Detection of One Living Cell. <i>Sensors</i> , 2007 , 7, 222-238	3.8	22
218	Structural effects and nanoparticle size are essential for quantum dots-metallothionein complex formation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 134, 262-72	6	21
217	An Assessment of the Effect of Green Synthesized Silver Nanoparticles Using Sage Leaves (L.) on Germinated Plants of Maize (L.). <i>Nanomaterials</i> , 2019 , 9,	5.4	21
216	Electrophoretic study of peptide-mediated quantum dot-human immunoglobulin bioconjugation. <i>Electrophoresis</i> , 2013 , 34, 2725-32	3.6	21
215	3D-printed biosensor with poly(dimethylsiloxane) reservoir for magnetic separation and quantum dots-based immunolabeling of metallothionein. <i>Electrophoresis</i> , 2015 , 36, 1256-64	3.6	21
214	A novel insight into the cardiotoxicity of antineoplastic drug doxorubicin. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21629-46	6.3	21
213	Voltammetry as a tool for characterization of CdTe quantum dots. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13497-510	6.3	21
212	Effects of redox conditions and zinc(II) ions on metallothionein aggregation revealed by chip capillary electrophoresis. <i>Journal of Chromatography A</i> , 2010 , 1217, 7966-71	4.5	21
211	Differential pulse adsorptive stripping voltammetry of osmium-modified peptides. <i>Bioelectrochemistry</i> , 2002 , 56, 63-6	5.6	21

210	Square-wave voltammetric determination of cefoperazone in a bacterial culture, pharmaceutical drug, milk, and urine. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 362-9	4.4	21
209	Application of computer imaging, stripping voltammetry and mass spectrometry to study the effect of lead (Pb-EDTA) on the growth and viability of early somatic embryos of Norway spruce (<i>Picea abies</i> /L./ Karst.). <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 383, 576-86	4.4	21
208	Improved Electrochemical Detection of Zinc Ions Using Electrode Modified with Electrochemically Reduced Graphene Oxide. <i>Materials</i> , 2016 , 9,	3.5	21
207	Prostate tumor attenuation in the nu/nu murine model due to anti-sarcosine antibodies in folate-targeted liposomes. <i>Scientific Reports</i> , 2016 , 6, 33379	4.9	20
206	Remote-controlled robotic platform ORPHEUS as a new tool for detection of bacteria in the environment. <i>Electrophoresis</i> , 2014 , 35, 2333-45	3.6	20
205	Interactions between CdTe quantum dots and DNA revealed by capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2014 , 35, 2587-92	3.6	20
204	An electrochemical DNA-based biosensor to study the effects of CdTe quantum dots on UV-induced damage of DNA. <i>Mikrochimica Acta</i> , 2015 , 182, 1715-1722	5.8	20
203	Monitoring of the prostate tumour cells redox state and real-time proliferation by novel biophysical techniques and fluorescent staining. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 672-84	3.7	20
202	Biotin-modified glutathione as a functionalized coating for bioconjugation of CdTe-based quantum dots. <i>Electrophoresis</i> , 2011 , 32, 1619-22	3.6	20
201	Determination of content of metallothionein and low molecular mass stress peptides in transgenic tobacco plants. <i>Plant Cell, Tissue and Organ Culture</i> , 2008 , 94, 291-298	2.7	20
200	Serum metallothionein in newly diagnosed patients with childhood solid tumours.. <i>Acta Biochimica Polonica</i> , 2010 , 57,	2	20
199	Effect of fluoranthene on plant cell model: Tobacco BY-2 suspension culture. <i>Environmental and Experimental Botany</i> , 2012 , 78, 117-126	5.9	19
198	Microfluidic tool based on the antibody-modified paramagnetic particles for detection of 8-hydroxy-2'-deoxyguanosine in urine of prostate cancer patients. <i>Electrophoresis</i> , 2011 , 32, 3207-20	3.6	19
197	Effects of various doses of selenite on stinging nettle (<i>Urtica dioica</i> L.). <i>International Journal of Environmental Research and Public Health</i> , 2010 , 7, 3804-15	4.6	19
196	A Determination of Metallothionein in Larvae of Freshwater Midges (<i>Chironomus riparius</i>) Using Brdicka Reaction. <i>Sensors</i> , 2008 , 8, 4081-4094	3.8	19
195	Electrochemical and spectrometric study of antioxidant activity of pomiferin, isopomiferin, osajin and catalposide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 127-33	3.5	19
194	Nanotechnologies in protein microarrays. <i>Nanomedicine</i> , 2015 , 10, 2743-55	5.6	18
193	Comparison of various easy-to-use procedures for extraction of phenols from apricot fruits. <i>Molecules</i> , 2011 , 16, 2914-36	4.8	18

192	From amino acids to proteins as targets for metal-based drugs. <i>Current Drug Metabolism</i> , 2012 , 13, 306-305		18
191	An Investigation of Glutathione-Platinum(II) Interactions by Means of the Flow Injection Analysis Using Glassy Carbon Electrode. <i>Sensors</i> , 2007 , 7, 1256-1270	3.8	18
190	Esterases as a marker for growth of BY-2 tobacco cells and early somatic embryos of the Norway spruce. <i>Plant Cell, Tissue and Organ Culture</i> , 2004 , 79, 195-201	2.7	18
189	Elimination voltammetry of nucleic acids on silver electrodes. <i>Bioelectrochemistry</i> , 2002 , 55, 131-3	5.6	18
188	Capillary electrophoresis of quantum dots: minireview. <i>Electrophoresis</i> , 2014 , 35, 1929-37	3.6	17
187	The effects on soil/water/plant/animal systems by platinum group elements. <i>Open Chemistry</i> , 2012 , 10, 1369-1382	1.6	17
186	Investigation of interaction between magnetic silica particles and lambda phage DNA fragment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 86, 65-72	3.5	17
185	Oxidative Stress Resistance in Metastatic Prostate Cancer: Renewal by Self-Eating. <i>PLoS ONE</i> , 2015 , 10, e0145016	3.7	17
184	Effect of cadmium chloride on metallothionein levels in carp. <i>Sensors</i> , 2009 , 9, 4789-803	3.8	17
183	Metallothionein as a Scavenger of Free Radicals - New Cardioprotective Therapeutic Agent or Initiator of Tumor Chemoresistance?. <i>Current Drug Targets</i> , 2016 , 17, 1438-51	3	17
182	Development of New Silver Nanoparticles Suitable for Materials with Antimicrobial Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2762-2769	1.3	17
181	Biosynthesis of Quantum Dots (CdTe) and its Effect on Eisenia fetida and Escherichia coli. <i>Chromatographia</i> , 2014 , 77, 1441-1449	2.1	16
180	Structural changes in metallothionein isoforms revealed by capillary electrophoresis and Brdicka reaction. <i>Electrophoresis</i> , 2012 , 33, 270-9	3.6	16
179	Square-Wave Voltammetry as a Tool for Investigation of Doxorubicin Interactions with DNA Isolated from Neuroblastoma Cells. <i>Electroanalysis</i> , 2009 , 21, 487-494	3	16
178	Uncommon Heavy Metals, Metalloids and Their Plant Toxicity: A Review. <i>Sustainable Agriculture Reviews</i> , 2009 , 275-317	1.3	16
177	Determination of glutathione-S-transferase traces in preparations of p53 C-terminal domain (aa320-393). <i>Bioelectrochemistry</i> , 2002 , 55, 115-8	5.6	16
176	Metallothioneins in Prion- and Amyloid-Related Diseases. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 637-564.3	4.3	16
175	Blood metallothionein, neuron specific enolase, and protein S100B in patients with traumatic brain injury. <i>Neuroendocrinology Letters</i> , 2006 , 27 Suppl 2, 116-20	0.3	16

174	Electrochemical determination of adenine using a glassy carbon electrode modified with graphene oxide and polyaniline. <i>Mikrochimica Acta</i> , 2016 , 183, 1299-1306	5.8	15
173	Hypoxia-mediated histone acetylation and expression of N-myc transcription factor dictate aggressiveness of neuroblastoma cells. <i>Oncology Reports</i> , 2014 , 31, 1928-34	3.5	15
172	Study of Streptavidin-Modified Quantum Dots by Capillary Electrophoresis. <i>Chromatographia</i> , 2013 , 76, 335-343	2.1	15
171	Electrophoretic and chromatographic evaluation of transgenic barley expressing a bacterial dihydrodipicolinate synthase. <i>Electrophoresis</i> , 2012 , 33, 2365-73	3.6	15
170	Study of Interactions between Metallothionein and Cisplatin by using Differential Pulse Voltammetry Brdicka reaction and Quartz Crystal Microbalance. <i>Sensors</i> , 2009 , 9, 1355-69	3.8	15
169	Effects of Reduced Glutathione, Surface Active Agents, and Ionic Strength on the Detection of Metallothioneins by Using of Brdicka Reaction. <i>Electroanalysis</i> , 2009 , 21, 640-644	3	15
168	Protein-based electrochemical biosensor for detection of silver(I) ions. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 492-6	3.8	15
167	Shapes of Differential Pulse Voltammograms and Level of Metallothionein at Different Animal Species. <i>Sensors</i> , 2007 , 7, 2419-2429	3.8	15
166	Silver electrode as a sensor for determination of zinc in cell cultivation medium. <i>Analytical Biochemistry</i> , 2002 , 301, 8-13	3.1	15
165	Fullerene as a doxorubicin nanotransporter for targeted breast cancer therapy: Capillary electrophoresis analysis. <i>Electrophoresis</i> , 2018 , 39, 2370-2379	3.6	15
164	Nuclear transport of nicotinamide phosphoribosyltransferase is cell cycle-dependent in mammalian cells, and its inhibition slows cell growth. <i>Journal of Biological Chemistry</i> , 2019 , 294, 8676-8689	5.4	14
163	A 3D microfluidic chip for electrochemical detection of hydrolysed nucleic bases by a modified glassy carbon electrode. <i>Sensors</i> , 2015 , 15, 2438-52	3.8	14
162	Development of a magnetic electrochemical bar code array for point mutation detection in the H5N1 neuraminidase gene. <i>Viruses</i> , 2013 , 5, 1719-39	6.2	14
161	Immunoextraction of zinc proteins from human plasma using chicken yolk antibodies immobilized onto paramagnetic particles and their electrophoretic analysis. <i>Electrophoresis</i> , 2012 , 33, 1824-32	3.6	14
160	Beads-based electrochemical assay for the detection of influenza hemagglutinin labeled with CdTe quantum dots. <i>Molecules</i> , 2013 , 18, 15573-86	4.8	14
159	Phytohormones as important biologically active molecules--their simple simultaneous detection. <i>Molecules</i> , 2009 , 14, 1825-39	4.8	14
158	Silver(I) ions ultrasensitive detection at carbon electrodes-analysis of waters, tobacco cells and fish tissues. <i>Sensors</i> , 2009 , 9, 6934-50	3.8	14
157	Effect of zinc(II) ions on the expression of pro- and anti-apoptotic factors in high-grade prostate carcinoma cells. <i>Oncology Reports</i> , 2012 , 28, 806-14	3.5	14

156	Prognostic significance of the tumour-adjacent tissue in head and neck cancers. <i>Tumor Biology</i> , 2015 , 36, 9929-39	2.9	13
155	Study of metallothionein-quantum dots interactions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 117, 534-7	6	13
154	Integrated chip electrophoresis and magnetic particle isolation used for detection of hepatitis B virus oligonucleotides. <i>Electrophoresis</i> , 2013 , 34, 1548-54	3.6	13
153	Automated assay of the potency of natural antioxidants using pipetting robot and spectrophotometry. <i>Journal of Applied Biomedicine</i> , 2012 , 10, 155-167	0.6	13
152	Nanotechnologies for society. New designs and applications of nanosensors and nanobiosensors in medicine and environmental analysis. <i>International Journal of Nanotechnology</i> , 2012 , 9, 746	1.5	13
151	Influence of Cadmium(II) Ions and Brewery Sludge on Metallothionein Level in Earthworms (<i>Eisenia fetida</i>) - Bio- transforming of Toxic Wastes. <i>Sensors</i> , 2008 , 8, 1039-1047	3.8	13
150	Resolution of Overlapped Reduction Signals in Short Hetero-oligonucleotides by Elimination Voltammetry. <i>Electroanalysis</i> , 2007 , 19, 348-355	3	13
149	Metallothionein modulation in relation to cadmium bioaccumulation and age-dependent sensitivity of <i>Chironomus riparius</i> larvae. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 10504-10513	5.1	12
148	DNA interaction with zinc(II) ions. <i>International Journal of Biological Macromolecules</i> , 2014 , 64, 281-7	7.9	12
147	Identification of quantum dots labeled metallothionein by fast scanning laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014 , 101, 220-225	3.1	12
146	An Effect of Cadmium and Lead Ions on <i>Escherichia coli</i> with the Cloned Gene for Metallothionein (MT-3) Revealed by Electrochemistry. <i>Electrochimica Acta</i> , 2014 , 140, 11-19	6.7	12
145	Self-ordered TiO ₂ quantum dot array prepared via anodic oxidation. <i>Nanoscale Research Letters</i> , 2012 , 7, 123	5	12
144	Vacuolar-ATPase-mediated intracellular sequestration of ellipticine contributes to drug resistance in neuroblastoma cells. <i>International Journal of Oncology</i> , 2015 , 47, 971-80	4.4	12
143	Preconcentration based on paramagnetic microparticles for the separation of sarcosine using hydrophilic interaction liquid chromatography coupled with coulometric detection. <i>Journal of Separation Science</i> , 2014 , 37, 465-575	3.4	12
142	Tissue specific electrochemical fingerprinting. <i>PLoS ONE</i> , 2012 , 7, e49654	3.7	12
141	Behaviour of zinc complexes and zinc sulphide nanoparticles revealed by using screen printed electrodes and spectrometry. <i>Sensors</i> , 2013 , 13, 14417-37	3.8	12
140	Chip gel electrophoresis as a tool for study of matrix metalloproteinase 9 interaction with metallothionein. <i>Electrophoresis</i> , 2011 , 32, 857-60	3.6	12
139	Complexes of glutathione with heavy metal ions as a new biochemical marker of aquatic environment pollution. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 497-500	3.8	12

138	Bio-Assessing of Environmental Pollution via Monitoring of Metallothionein Level Using Electrochemical Detection. <i>IEEE Sensors Journal</i> , 2008 , 8, 1578-1585	4	12
137	Serum metallothionein in newly diagnosed patients with childhood solid tumours. <i>Acta Biochimica Polonica</i> , 2010 , 57, 561-6	2	12
136	Evaluation of EGFR as a prognostic and diagnostic marker for head and neck squamous cell carcinoma patients. <i>Oncology Letters</i> , 2016 , 12, 2127-2132	2.6	11
135	Effects of Stratospheric Conditions on the Viability, Metabolism and Proteome of Prokaryotic Cells. <i>Atmosphere</i> , 2015 , 6, 1290-1306	2.7	11
134	Study of DNA-ellipticine interaction by capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2012 , 33, 1545-9	3.6	11
133	Determination of oxidative stress and activities of antioxidant enzymes in guinea pigs treated with haloperidol. <i>Experimental and Therapeutic Medicine</i> , 2013 , 5, 479-484	2.1	11
132	Voltammetric Study of Adenine Complex with Copper on Mercury Electrode. <i>Electroanalysis</i> , 2009 , 21, 439-444	3	11
131	Changes in metallothionein level in rat hepatic tissue after administration of natural mouldy wheat. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 1138-60	6.3	11
130	Relation of exposure to amino acids involved in sarcosine metabolic pathway on behavior of non-tumor and malignant prostatic cell lines. <i>Prostate</i> , 2016 , 76, 679-90	4.2	11
129	Doxorubicin Encapsulation Investigated by Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Chromatographia</i> , 2014 , 77, 1469-1476	2.1	10
128	Metal Transporters in Plants 2013 , 19-41		10
127	Microfluidic tool coupled with electrochemical assay for detection of lactoferrin isolated by antibody-modified paramagnetic beads. <i>Electrophoresis</i> , 2013 , 34, 2120-8	3.6	10
126	Isolation of metallothionein from cells derived from aggressive form of high-grade prostate carcinoma using paramagnetic antibody-modified microbeads off-line coupled with electrochemical and electrophoretic analysis. <i>Electrophoresis</i> , 2011 , 32, 3576-88	3.6	10
125	Hazards of Secondary Bromadiolone Intoxications Evaluated using High-performance Liquid Chromatography with Electrochemical Detection. <i>Sensors</i> , 2007 , 7, 1271-1286	3.8	10
124	Application of nanotechnology based-biosensors in analysis of wine compounds and control of wine quality and safety: A critical review. <i>Critical Reviews in Food Science and Nutrition</i> , 2020 , 60, 3271-3289	11.5	10
123	Fluorescence Characterization of Gold Modified Liposomes with Antisense N-myc DNA Bound to the Magnetisable Particles with Encapsulated Anticancer Drugs (Doxorubicin, Ellipticine and Etoposide). <i>Sensors</i> , 2016 , 16, 290	3.8	10
122	Zinc-Modified Nanotransporter of Doxorubicin for Targeted Prostate Cancer Delivery. <i>Nanomaterials</i> , 2017 , 7,	5.4	9
121	SDS-PAGE as a Tool for Hydrodynamic Diameter-Dependent Separation of Quantum Dots. <i>Chromatographia</i> , 2015 , 78, 785-793	2.1	9

120	Influence of microbiome species in hard-to-heal wounds on disease severity and treatment duration. <i>Brazilian Journal of Infectious Diseases</i> , 2015 , 19, 604-13	2.8	9
119	An adsorptive transfer technique coupled with brdicka reaction to reveal the importance of metallothionein in chemotherapy with platinum based cytostatics. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 4826-42	6.3	9
118	Chronopotentiometric Stripping Analysis of Gelatinase B, Collagen and Their Interaction. <i>Electroanalysis</i> , 2009 , 21, 536-541	3	9
117	Miniaturized electrochemical detector as a tool for detection of DNA amplified by PCR. <i>Electrophoresis</i> , 2008 , 29, 4964-71	3.6	9
116	Metal Containing Cytostatics and Their Interaction with Cellular Thiol Compounds Causing Chemoresistance. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2016 , 16, 686-98	2.2	9
115	Modulation of human cytochrome P450 1A1-mediated oxidation of benzo[a]pyrene by NADPH:cytochrome P450 oxidoreductase and cytochrome b5. <i>Neuroendocrinology Letters</i> , 2014 , 35 Suppl 2, 105-13	0.3	9
114	Fluorescence resonance energy transfer between green fluorescent protein and doxorubicin enabled by DNA nanotechnology. <i>Electrophoresis</i> , 2014 , 35, 3290-301	3.6	8
113	Spectrometric and Chromatographic Study of Reactive Oxidants Hypochlorous and Hypobromous Acids and Their Interactions with Taurine. <i>Chromatographia</i> , 2013 , 76, 363-373	2.1	8
112	Molecular response of 4T1-induced mouse mammary tumours and healthy tissues to zinc treatment. <i>International Journal of Oncology</i> , 2015 , 46, 1810-8	4.4	8
111	In vitro interactions between 17 β -estradiol and DNA result in formation of the hormone-DNA complexes. <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 7725-39	4.6	8
110	Isolation of Biogenic Amines Using Paramagnetic Microparticles Off-Line Coupled with Ion Exchange Liquid Chromatography. <i>Chromatographia</i> , 2014 , 77, 1451-1459	2.1	8
109	Investigating the influence of taurine on thiol antioxidant status in Wistar rats with a multi-analytical approach. <i>Journal of Applied Biomedicine</i> , 2014 , 12, 97-110	0.6	8
108	Tularemia progression accompanied with oxidative stress and antioxidant alteration in spleen and liver of BALB/c mice. <i>Journal of Microbiology</i> , 2012 , 50, 401-8	3	8
107	Antioxidant properties of saskatoon berry (<i>Amelanchier alnifolia</i> Nutt.) fruits. <i>Fruits</i> , 2013 , 68, 435-444	0.3	8
106	Carbon composite micro- and nano-tubes-based electrodes for detection of nucleic acids. <i>Nanoscale Research Letters</i> , 2011 , 6, 385	5	8
105	Electrochemical Investigation of StrontiumMetallothionein Interactions Analysis of Serum and Urine of Patients with Osteoporosis. <i>Electroanalysis</i> , 2009 , 21, 650-656	3	8
104	Dependence of adenine isolation efficiency on the chain length evidenced using paramagnetic particles and voltammetry measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 1474-1477	2.8	8
103	Determination of bromadiolone in pheasants and foxes by differential pulse voltammetry. <i>International Journal of Environmental Analytical Chemistry</i> , 2007 , 87, 459-469	1.8	8

102	Blood coagulation times in the European brown hare (<i>Lepus europaeus</i>). <i>Veterinary Clinical Pathology</i> , 2007 , 36, 361-3	1	8
101	Exposure to 17 β -Oestradiol Induces Oxidative Stress in the Non-Oestrogen Receptor Invertebrate Species <i>Eisenia fetida</i> . <i>PLoS ONE</i> , 2015 , 10, e0145426	3.7	8
100	Metallothionein and Superoxide Dismutase-Antioxidative Protein Status in Fullerene-Doxorubicin Delivery to MCF-7 Human Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	8
99	Novel biophysical determination of miRNAs related to prostate and head and neck cancers. <i>European Biophysics Journal</i> , 2015 , 44, 131-8	1.9	7
98	γ -Fe ₂ O ₃ Nanoparticles Covered with Glutathione-Modified Quantum Dots as a Fluorescent Nanotransporter. <i>Chromatographia</i> , 2014 , 77, 1415-1423	2.1	7
97	KRAS NF- κ B is involved in the development of zinc resistance and reduced curability in prostate cancer. <i>Metallomics</i> , 2014 , 6, 1240-53	4.5	7
96	Glutathione modified CdTe quantum dots as a label for studying DNA interactions with platinum based cytostatics. <i>Electrophoresis</i> , 2013 , 34, 801-8	3.6	7
95	Isolation of Xis Gen Fragment of λ Phage from Agarose Gel Using Magnetic Particles for Subsequent Enzymatic DNA Sequencing. <i>Chromatographia</i> , 2013 , 76, 329-334	2.1	7
94	Rapid superparamagnetic-beads-based automated immunoseparation of Zn-proteins from <i>Staphylococcus aureus</i> with nanogram yield. <i>Electrophoresis</i> , 2013 , 34, 224-34	3.6	7
93	Complexes of Metal-Based Nanoparticles with Chitosan Suppressing the Risk of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> Infections 2015 , 217-232		7
92	17 β -estradiol-containing liposomes as a novel delivery system for the antisense therapy of ER-positive breast cancer: An in vitro study on the MCF-7 cell line. <i>Oncology Reports</i> , 2015 , 33, 921-9	3.5	7
91	Differences in urinary proteins related to surgical margin status after radical prostatectomy. <i>Oncology Reports</i> , 2015 , 34, 3247-55	3.5	7
90	Trithiocyanurate complexes of iron, manganese and nickel and their anticholinesterase activity. <i>Molecules</i> , 2014 , 19, 4338-54	4.8	7
89	Quantum dots and prion proteins: is this a new challenge for neurodegenerative diseases imaging?. <i>Prion</i> , 2013 , 7, 349-58	2.3	7
88	Asoxime (HI-6) impact on dogs after one and tenfold therapeutic doses: assessment of adverse effects, distribution, and oxidative stress. <i>Environmental Toxicology and Pharmacology</i> , 2011 , 32, 75-81	5.8	7
87	Chip-Based CE for Avidin Determination in Transgenic Tobacco and Its Comparison with Square-Wave Voltammetry and Standard Gel Electrophoresis. <i>Chromatographia</i> , 2008 , 67, 75-81	2.1	7
86	Electrochemical study of ellipticine interaction with single and double stranded oligonucleotides. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2014 , 14, 331-40	2.2	7
85	A Rapid Method for the Detection of Sarcosine Using SPIONs/Au/CS/SOX/NPs for Prostate Cancer Sensing. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	7

84	Toxicological aspects of flavonoid interaction with biomacromolecules. <i>Neuroendocrinology Letters</i> , 2006 , 27 Suppl 2, 14-7	0.3	7
83	Electrochemical study of DNA damaged by oxidation stress. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013 , 16, 130-41	1.3	7
82	Study of linkage between glutathione pathway and the antibiotic resistance of Escherichia coli from patients swabs. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 7210-29	6.3	6
81	Synthesis, crystal structure and magnetic properties of trithiocyanurate or thiodiacetate polynuclear Ni(II) and Co(II) complexes. <i>Inorganica Chimica Acta</i> , 2014 , 416, 147-156	2.7	6
80	Effect of selenium in organic and inorganic form on liver, kidney, brain and muscle of Wistar rats. <i>Open Chemistry</i> , 2012 , 10, 1442-1451	1.6	6
79	Label-free bead-based metallothionein electrochemical immunosensor. <i>Electrophoresis</i> , 2015 , 36, 1894-904	3.0	6
78	Use of brightness wavelet transformation for automated analysis of serum metallothioneins- and zinc-containing proteins by Western blots to subclassify childhood solid tumours. <i>Electrophoresis</i> , 2013 , 34, 1637-48	3.6	6
77	Ion exchange chromatography and mass spectrometric methods for analysis of cadmium-phytochelatin (II) complexes. <i>International Journal of Environmental Research and Public Health</i> , 2013 , 10, 1304-11	4.6	6
76	How do grass species, season and ensiling influence mycotoxin content in forage?. <i>International Journal of Environmental Research and Public Health</i> , 2013 , 10, 6084-95	4.6	6
75	Microfluidic robotic device coupled with electrochemical sensor field for handling of paramagnetic micro-particles as a tool for determination of plant mRNA. <i>Mikrochimica Acta</i> , 2011 , 173, 189-197	5.8	6
74	Cell toxicity and preparation of streptavidin-modified iron nanoparticles and glutathione-modified cadmium-based quantum dots. <i>Procedia Engineering</i> , 2010 , 5, 922-925		6
73	The influence of feeding purple wheat with higher content of anthocyanins on antioxidant status and selected enzyme activity of animals. <i>Acta Veterinaria Brno</i> , 2016 , 85, 371-376	0.8	6
72	Study of Physico-Chemical Changes of CdTe QDs after Their Exposure to Environmental Conditions. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
71	3D printed stratospheric probe as a platform for determination of DNA damage based on carbon quantum dots/DNA complex fluorescence increase. <i>Monatshefte Für Chemie</i> , 2016 , 147, 873-880	1.4	5
70	Paramagnetic Particles Isolation of Influenza Oligonucleotide Labelled with CdS QDs. <i>Chromatographia</i> , 2013 , 76, 355-362	2.1	5
69	Use of nucleic acids anchor system to reveal apoferritin modification by cadmium telluride nanoparticles. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2109-2118	7.3	5
68	Label-free and amplification-free miR-124 detection in human cells. <i>International Journal of Oncology</i> , 2015 , 46, 871-7	4.4	5
67	Formation of DNA adducts by ellipticine and its micellar form in rats - a comparative study. <i>Sensors</i> , 2014 , 14, 22982-97	3.8	5

66	Identification of estrogen receptor proteins in breast cancer cells using matrix-assisted laser desorption/ionization time of flight mass spectrometry (Review). <i>Oncology Letters</i> , 2014 , 7, 1341-1344	2.6	5
65	Investigation into the effect of molds in grasses on their content of low molecular mass thiols. <i>International Journal of Environmental Research and Public Health</i> , 2012 , 9, 3789-805	4.6	5
64	Qualities of Native Apple Cultivar Juices Characteristic of Central Europe. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2012 , 40, 222	1.2	5
63	Effect of sarcosine on antioxidant parameters and metallothionein content in the PC-3 prostate cancer cell line. <i>Oncology Reports</i> , 2013 , 29, 2459-66	3.5	5
62	DNA and histone deacetylases as targets for neuroblastoma treatment. <i>Interdisciplinary Toxicology</i> , 2010 , 3, 47-52	2.3	5
61	Antimicrobial nanomaterials in the food industry.. <i>KvasnPrůmysl</i> , 2015 , 61, 51-56	1.3	5
60	Papillomavirus infection of roe deer in the Czech Republic and fibropapilloma-associated levels of metallothionein, zinc, and oxidative stress. <i>Acta Veterinaria Brno</i> , 2015 , 84, 105-111	0.8	5
59	Analysis of covalent ellipticine- and doxorubicin-derived adducts in DNA of neuroblastoma cells by the 32 P-postlabeling technique. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2012 , 156, 115-21	1.7	5
58	Anticancer agent ellipticine combined with histone deacetylase inhibitors, valproic acid and trichostatin A, is an effective DNA damage strategy in human neuroblastoma. <i>Neuroendocrinology Letters</i> , 2011 , 32 Suppl 1, 101-16	0.3	5
57	Bioconjugation of peptides using advanced nanomaterials to examine their interactions in 3D printed flow-through device. <i>Electrophoresis</i> , 2016 , 37, 444-54	3.6	4
56	Liposomal nanotransporter for targeted binding based on nucleic acid anchor system. <i>Electrophoresis</i> , 2014 , 35, 393-404	3.6	4
55	Fluorescence-tagged metallothionein with CdTe quantum dots analyzed by the chip-CE technique. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 423	2.3	4
54	Interaction of E6 Gene from Human Papilloma Virus 16 (HPV-16) with CdS Quantum Dots. <i>Chromatographia</i> , 2014 , 77, 1433-1439	2.1	4
53	Modern bioanalysis of proteins by electrophoretic techniques. <i>Methods in Molecular Biology</i> , 2014 , 1129, 381-96	1.4	4
52	Capillary electromigration based techniques in diagnostics of prion protein caused diseases. <i>Electrophoresis</i> , 2012 , 33, 3644-52	3.6	4
51	Serum metallothioneins in childhood tumours-a potential prognostic marker. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 12170-85	6.3	4
50	MicroRNAs and zinc metabolism-related gene expression in prostate cancer cell lines treated with zinc(II) ions. <i>International Journal of Oncology</i> , 2012 , 41, 2237-44	4.4	4
49	Avidin and Plant Biotechnology to Control Pests. <i>Sustainable Agriculture Reviews</i> , 2010 , 1-21	1.3	4

48	Enzymatic Reaction Coupled with Flow-Injection Analysis with Charged Aerosol, Coulometric, or Amperometric Detection for Estimation of Contamination of the Environment by Pesticides. <i>Chromatographia</i> , 2008 , 67, 47-53	2.1	4
47	Changes of content of glutathione and metallothionein at plant cells and invertebrates treated by platinum group metals. <i>FASEB Journal</i> , 2006 , 20, A75	0.9	4
46	Heterologous expression of human cytochrome P450 2S1 in and investigation of its role in metabolism of benzo[<i>a</i>]pyrene and ellipticine. <i>Monatshefte Für Chemie</i> , 2016 , 147, 881-888	1.4	4
45	Induced expression of microsomal cytochrome determined at mRNA and protein levels in rats exposed to ellipticine, benzo[<i>a</i>]pyrene, and 1-phenylazo-2-naphthol (Sudan I). <i>Monatshefte Für Chemie</i> , 2016 , 147, 897-904	1.4	3
44	Doxorubicin interactions with bovine serum albumin revealed by microdialysis with on-line laser-induced fluorescence detection at subpicogram level. <i>Electrophoresis</i> , 2015 , 36, 1282-8	3.6	3
43	Fate of humic acids isolated from natural humic substances. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015 , 65, 517-528	1.1	3
42	Study of deoxynivalenol effect on metallothionein and glutathione levels, antioxidant capacity, and glutathione-S-transferase and liver enzymes activity in rats. <i>Chemical Papers</i> , 2012 , 66,	1.9	3
41	The role of sulphur in cadmium(II) ions detoxification demonstrated in in vitro model: <i>Dionaea muscipula</i> Ell.. <i>Environmental Chemistry Letters</i> , 2009 , 7, 353-361	13.3	3
40	Copper Concentrations in Breast Cancer: A Systematic Review and Meta-Analysis. <i>Current Medicinal Chemistry</i> , 2020 , 27, 6373-6383	4.3	3
39	Study of nucleic acids interactions with platinum based cytostatics using biosensor. <i>FASEB Journal</i> , 2007 , 21, A262	0.9	3
38	Effect of naturally mouldy wheat or fungi administration on metallothioneins level in brain tissues of rats. <i>Neuroendocrinology Letters</i> , 2009 , 30 Suppl 1, 163-8	0.3	3
37	Molecular biology of beta-estradiol-estrogen receptor complex binding to estrogen response element and the effect on cell proliferation. <i>Neuroendocrinology Letters</i> , 2013 , 34 Suppl 2, 123-9	0.3	3
36	Electrochemistry of copper(II) induced complexes in mycorrhizal maize plant tissues. <i>Journal of Hazardous Materials</i> , 2012 , 203-204, 257-63	12.8	2
35	Quantification of nanomaterial bioconjugation based on electrophoretic mobility shift. <i>Electrophoresis</i> , 2015 , 36, 1084-5	3.6	2
34	Are Early Somatic Embryos of the Norway Spruce (<i>Picea abies</i> (L.) Karst.) Organised?. <i>PLoS ONE</i> , 2015 , 10, e0144093	3.7	2
33	Paramagnetic Particles and PNA Probe for Automated Separation and Electrochemical Detection of Influenza. <i>Chromatographia</i> , 2014 , 77, 1425-1432	2.1	2
32	Modification of Working Electrode Surface with Carbon Nanotubes as an Electrochemical Sensor for Estimation of Melting Points of DNA. <i>Procedia Chemistry</i> , 2009 , 1, 1011-1014		2
31	Detection of short exons in DNA sequences using complex wavelet transform of structural features 2012 ,		2

30	Profiling of stress transcriptome of selected genes in plants treated with heavy metals. <i>Toxicology Letters</i> , 2009 , 189, S161	4.4	2
29	Synthesis of glutathione-coated quantum dots 2009 ,		2
28	Employing of electroanalytical techniques for detection of silver(I) ions. <i>Toxicology Letters</i> , 2008 , 180, S236-S237	4.4	2
27	Melatonin Regulates Oxidative Stress Initiated by Freund® Complete Adjuvant. <i>Acta Medica (Hradec Kralove)</i> , 2015 , 58, 21-4	0.8	2
26	Advantages and Progress in the Analysis of DNA by Using Mercury an Amalgam Electrodes - Review. <i>Current Physical Chemistry</i> , 2011 , 1, 299-324	0.5	2
25	Effect of HPV on tumor expression levels of the most commonly used markers in HNSCC. <i>Tumor Biology</i> , 2016 , 37, 7193-201	2.9	2
24	Mechanisms of Uptake and Interaction of Platinum Based Drugs in Eukaryotic Cells. <i>Environmental Science and Engineering</i> , 2015 , 401-415	0.2	1
23	Interaction study of arsenic (III and V) ions with metallothionein gene (MT2A) fragment. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 599-605	7.9	1
22	Use of green fluorescent proteins for in vitro biosensing. <i>Chemical Papers</i> , 2015 , 69,	1.9	1
21	From Amino Acids Profile to Protein Identification: Searching for Differences in Roe Deer Papilloma. <i>Chromatographia</i> , 2014 , 77, 609-617	2.1	1
20	Utilization of paramagnetic microparticles for automated isolation of free circulating mRNA as a new tool in prostate cancer diagnostics. <i>Electrophoresis</i> , 2014 , 35, 306-15	3.6	1
19	Flow injection analysis with electrochemical detection for rapid identification of platinum-based cytostatics and platinum chlorides in water. <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 1715-24	4.6	1
18	Influence of Magnetic Microparticles Isolation on Adenine Homonucleotides Structure. <i>Materials</i> , 2014 , 7, 1455-1472	3.5	1
17	Separation of Lactoferrin from Human Saliva Using Monolithic Disc. <i>Chromatographia</i> , 2013 , 76, 611-619	2.1	1
16	Lead ions encapsulated in liposomes and their effect on Staphylococcus aureus. <i>International Journal of Environmental Research and Public Health</i> , 2013 , 10, 6687-700	4.6	1
15	An Analytical Task: a Miniaturized and Portable µConductometer as a Tool for Detection of Pesticides 2011 ,		1
14	A New Approach how to Define the Coefficient of Electroactivity of Adenine and Its Twelve Derivatives Using Flow Injection Analysis with Amperometric Detection. <i>Electroanalysis</i> , 2011 , 23, 1556-1567	3.67	1
13	Paramagnetic antibody-modified microparticles coupled with voltammetry as a tool for isolation and detection of metallothionein as a bioindicator of metal pollution. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 2763-9		1

12	Electrochemical biosensor for investigation of anticancer drugs interactions (doxorubicin and ellipticine) with DNA 2009 ,		1
11	The Impact of Fullerenes as Doxorubicin Nano-Transporters on Metallothionein and Superoxide Dismutase Status in MCF-10A Cells.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	1
10	USING OF ELECTROCHEMICAL METHODS FOR STUDYING OF METALLOTHIONEIN CONTENT IN THE HUMAN BLOOD SERUM OF A PATIENT POISONED BY LEAD AND TREATED BY PLATINUM. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czech Republic</i> , 2005 , 149, 485-488.	1.7	1
9	Microchip capillary electrophoresis: quantum dots and paramagnetic particles for bacteria immunoseparation: rapid superparamagnetic-beads-based automated immunoseparation of Zn-Proteins from Staphylococcus aureus with nanogram yield. <i>Methods in Molecular Biology</i> , 2015 , 1274, 67-79	1.4	1
8	A new tool for distinguishing of different structural forms of lactoferrin. <i>FASEB Journal</i> , 2007 , 21, A635	0.9	1
7	Nanoparticles-Based Carriers for Gene Therapy and Drug Delivery471-492		1
6	Preparation and application of anti-peptide antibodies for detection of orphan cytochromes P450. <i>Neuroendocrinology Letters</i> , 2015 , 36 Suppl 1, 38-45	0.3	1
5	Carbon Nanomaterials for Chromium (VI) Removal from Aqueous Solution 2016 , 109-126		
4	ELISA-like Analysis of Cisplatinated DNA Using Magnetic Separation. <i>Nanobiomedicine</i> , 2015 , 2, 10	4.8	
3	Electrochemical Study of DNA Damaged by Oxidation Stress. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2013 , 16, 130-141	1.3	
2	Zinc Modified Nanotransporter of Anticancer Drugs for Targeted Therapy: Biophysical Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2483-2488	1.3	
1	Yew poisoning of olive baboons (<i>Papio anubis</i>) in captivity: laboratory diagnosis. <i>Neuroendocrinology Letters</i> , 2013 , 34 Suppl 2, 130-3	0.3	