

Natalia Cernei

List of Publications by Year in descending order

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47
papers

777
citations

567281
15
h-index

580821
25
g-index

47
all docs

47
docs citations

47
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	Sarcosine as a Potential Prostate Cancer Biomarker”A Review. International Journal of Molecular Sciences, 2013, 14, 13893-13908.	4.1	93
2	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. Analyst, The, 2016, 141, 2665-2675.	3.5	57
3	Paramagnetic Nanoparticles as a Platform for FRET-Based Sarcosine Picomolar Detection. Scientific Reports, 2015, 5, 8868.	3.3	51
4	Mathematical Evaluation of the Amino Acid and Polyphenol Content and Antioxidant Activities of Fruits from Different Apricot Cultivars. Molecules, 2011, 16, 7428-7457.	3.8	38
5	Determination of common urine substances as an assay for improving prostate carcinoma diagnostics. Oncology Reports, 2014, 31, 1846-1854.	2.6	35
6	A Novel Insight into the Cardiotoxicity of Antineoplastic Drug Doxorubicin. International Journal of Molecular Sciences, 2013, 14, 21629-21646.	4.1	29
7	ZincÂphosphate-based nanoparticles as a novel antibacterial agent: in vivo study on rats after dietary exposure. Journal of Animal Science and Biotechnology, 2019, 10, 17.	5.3	27
8	Monitoring of the prostate tumour cells redox state and real-time proliferation by novel biophysical techniques and fluorescent staining. Integrative Biology (United Kingdom), 2012, 4, 672-684.	1.3	25
9	Microfluidic chip coupled with modified paramagnetic particles for sarcosine isolation in urine. Electrophoresis, 2013, 34, 2639-2647.	2.4	25
10	3DÂ€printed biosensor with poly(dimethylsiloxane) reservoir for magnetic separation and quantum dotsâ€based immunolabeling of metallothionein. Electrophoresis, 2015, 36, 1256-1264.	2.4	25
11	Advanced nanotechnologies in avian influenza: Current status and future trends â€“ A review. Analytica Chimica Acta, 2017, 983, 42-53.	5.4	23
12	Automated assay of the potency of natural antioxidants using pipetting robot and spectrophotometry. Journal of Applied Biomedicine, 2012, 10, 155-167.	1.7	20
13	Electrophoretic and chromatographic evaluation of transgenic barley expressing a bacterial dihydrodipicolinate synthase. Electrophoresis, 2012, 33, 2365-2373.	2.4	19
14	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. Prostate, 2017, 77, 604-616.	2.3	19
15	Fully automated process for histamine detection based on magnetic separation and fluorescence detection. Talanta, 2020, 212, 120789.	5.5	17
16	Relation of exposure to amino acids involved in sarcosine metabolic pathway on behavior of non-tumor and malignant prostatic cell lines. Prostate, 2016, 76, 679-690.	2.3	16
17	Spectrometric and Chromatographic Study of Reactive Oxidants Hypochlorous and Hypobromous Acids and Their Interactions with Taurine. Chromatographia, 2013, 76, 363-373.	1.3	15
18	Behaviour of Zinc Complexes and Zinc Sulphide Nanoparticles Revealed by Using Screen Printed Electrodes and Spectrometry. Sensors, 2013, 13, 14417-14437.	3.8	15

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19	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, 921-929.	2.6	15
20	Electrochemical Methods for Study of Influence of Selenium Nanoparticles on Antioxidant Status of Rats. <i>International Journal of Electrochemical Science</i> , 0, , 2799-2824.	1.3	13
21	Lycorine and UV-C stimulate phenolic secondary metabolites production and miRNA expression in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Hazardous Materials</i> , 2020, 391, 122088.	12.4	13
22	Prognostic Significance of Serum Free Amino Acids in Head and Neck Cancers. <i>Cells</i> , 2019, 8, 428.	4.1	12
23	The effects of 5-azacytidine and cadmium on global 5-methylcytosine content and secondary metabolites in the freshwater microalgae <i>Chlamydomonas reinhardtii</i> and <i>Scenedesmus quadricauda</i> . <i>Journal of Phycology</i> , 2019, 55, 329-342.	2.3	12
24	Antioxidant status of rats' blood and liver affected by sodium selenite and selenium nanoparticles. <i>PeerJ</i> , 2018, 6, e4862.	2.0	12
25	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.	4.0	11
26	New insights into mechanisms of copper nanoparticle toxicity in freshwater algae <i>Chlamydomonas reinhardtii</i> : Effects on the pathways of secondary metabolites. <i>Algal Research</i> , 2021, 60, 102476.	4.6	11
27	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.	1.7	10
28	^{67}Fe -Fe ₂ O ₃ Nanoparticles Covered with Glutathione-Modified Quantum Dots as a Fluorescent Nanotransporter. <i>Chromatographia</i> , 2014, 77, 1415-1423.	1.3	10
29	Differences in urinary proteins related to surgical margin status after radical prostatectomy. <i>Oncology Reports</i> , 2015, 34, 3247-3255.	2.6	10
30	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, 1304-1311.	2.6	9
31	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.	2.5	9
32	Isolation of Biogenic Amines Using Paramagnetic Microparticles Off-Line Coupled with Ion Exchange Liquid Chromatography. <i>Chromatographia</i> , 2014, 77, 1451-1459.	1.3	8
33	Fluorescence resonance energy transfer between green fluorescent protein and doxorubicin enabled by DNA nanotechnology. <i>Electrophoresis</i> , 2014, 35, 3290-3301.	2.4	8
34	Study of Linkage between Glutathione Pathway and the Antibiotic Resistance of <i>Escherichia coli</i> from Patients' Swabs. <i>International Journal of Molecular Sciences</i> , 2015, 16, 7210-7229.	4.1	8
35	Rapid superparamagnetic beads-based automated immunoseparation of proteins from <i>Staphylococcus aureus</i> with nanogram yield. <i>Electrophoresis</i> , 2013, 34, 224-234.	2.4	7
36	Influence of Long-Distance Bicycle Riding on Serum/Urinary Biomarkers of Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2016, 17, 377.	4.1	6

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37	Fully automated two-step assay for detection of metallothionein through magnetic isolation using functionalized Fe^{3+} - Fe_2O_3 particles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1039, 17-27.	2.3	6
38	Assessment of Antioxidants in Selected Plant Rootstocks. <i>Antioxidants</i> , 2020, 9, 209.	5.1	6
39	Effect of sarcosine on antioxidant parameters and metallothionein content in the PC-3 prostate cancer cell line. <i>Oncology Reports</i> , 2013, 29, 2459-2466.	2.6	5
40	Determination of Histamine in Silages Using Nanomaghemite Core (Fe^{3+} - Fe_2O_3)-Titanium Dioxide Shell Nanoparticles Off-Line Coupled with Ion Exchange Chromatography. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 904.	2.6	5
41	Differences in Urinary Amino Acid Patterns in Individuals with Different Types of Urological Tumor Urinary Amino Acid Patterns as Markers of Urological Tumors. <i>In Vivo</i> , 2018, 32, 425-429.	1.3	5
42	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.	0.5	5
43	Post-treatment urinary sarcosine as a predictor of recurrent relapses in patients with prostate cancer. <i>Cancer Medicine</i> , 2018, 7, 5411-5419.	2.8	4
44	Nanoparticles Suitable for BCAA Isolation Can Serve for Use in Magnetic Lipoplex-Based Delivery System for L, I, V, or R-rich Antimicrobial Peptides. <i>Materials</i> , 2016, 9, 260.	2.9	3
45	A two-step protocol for isolation of influenza A (H7N7) virions and their RNA for PCR diagnostics based on modified paramagnetic particles. <i>Electrophoresis</i> , 2016, 37, 2025-2035.	2.4	3
46	From Amino Acids Profile to Protein Identification: Searching for Differences in Roe Deer Papilloma. <i>Chromatographia</i> , 2014, 77, 609-617.	1.3	1
47	Degradation of biogenic amines and in vitro evaluation of ruminal parameters of the ruminal fluid of Charolais sheep. <i>Revista Brasileira De Zootecnia</i> , 2020, 49, .	0.8	1