

Natalia Cernei

List of Publications by Year in descending order

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47
papers

777
citations

566801

15
h-index

580395

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. <i>International Journal of Molecular Sciences</i> , 2013, 14, 13893-13908.	1.8	93
2	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. <i>Analyst</i> , 2016, 141, 2665-2675.	1.7	57
3	Paramagnetic Nanoparticles as a Platform for FRET-Based Sarcosine Picomolar Detection. <i>Scientific Reports</i> , 2015, 5, 8868.	1.6	51
4	Mathematical Evaluation of the Amino Acid and Polyphenol Content and Antioxidant Activities of Fruits from Different Apricot Cultivars. <i>Molecules</i> , 2011, 16, 7428-7457.	1.7	38
5	Determination of common urine substances as an assay for improving prostate carcinoma diagnostics. <i>Oncology Reports</i> , 2014, 31, 1846-1854.	1.2	35
6	A Novel Insight into the Cardiotoxicity of Antineoplastic Drug Doxorubicin. <i>International Journal of Molecular Sciences</i> , 2013, 14, 21629-21646.	1.8	29
7	Zinc Phosphate-based nanoparticles as a novel antibacterial agent: in vivo study on rats after dietary exposure. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 17.	2.1	27
8	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, 672-684.	0.6	25
9	Microfluidic chip coupled with modified paramagnetic particles for sarcosine isolation in urine. <i>Electrophoresis</i> , 2013, 34, 2639-2647.	1.3	25
10	3D-printed biosensor with poly(dimethylsiloxane) reservoir for magnetic separation and quantum dots-based immunolabeling of metallothionein. <i>Electrophoresis</i> , 2015, 36, 1256-1264.	1.3	25
11	Advanced nanotechnologies in avian influenza: Current status and future trends – A review. <i>Analytica Chimica Acta</i> , 2017, 983, 42-53.	2.6	23
12	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	20
13	Electrophoretic and chromatographic evaluation of transgenic barley expressing a bacterial dihydrodipicolinate synthase. <i>Electrophoresis</i> , 2012, 33, 2365-2373.	1.3	19
14	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. <i>Prostate</i> , 2017, 77, 604-616.	1.2	19
15	Fully automated process for histamine detection based on magnetic separation and fluorescence detection. <i>Talanta</i> , 2020, 212, 120789.	2.9	17
16	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, 679-690.	1.2	16
17	Spectrometric and Chromatographic Study of Reactive Oxidants Hypochlorous and Hypobromous Acids and Their Interactions with Taurine. <i>Chromatographia</i> , 2013, 76, 363-373.	0.7	15
18	Behaviour of Zinc Complexes and Zinc Sulphide Nanoparticles Revealed by Using Screen Printed Electrodes and Spectrometry. <i>Sensors</i> , 2013, 13, 14417-14437.	2.1	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.	1.2	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.	0.5	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.	6.5	13
22	Prognostic Significance of Serum Free Amino Acids in Head and Neck Cancers. <i>Cells</i> , 2019, 8, 428.	1.8	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.	1.0	12
24	Antioxidant status of rats' blood and liver affected by sodium selenite and selenium nanoparticles. <i>PeerJ</i> , 2018, 6, e4862.	0.9	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.	2.0	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.	2.4	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.	0.6	10
28	Fe_3O_4 Nanoparticles Covered with Glutathione-Modified Quantum Dots as a Fluorescent Nanotransporter. <i>Chromatographia</i> , 2014, 77, 1415-1423.	0.7	10
29	Differences in urinary proteins related to surgical margin status after radical prostatectomy. <i>Oncology Reports</i> , 2015, 34, 3247-3255.	1.2	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.	1.2	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.	1.1	9
32	Isolation of Biogenic Amines Using Paramagnetic Microparticles Off-Line Coupled with Ion Exchange Liquid Chromatography. <i>Chromatographia</i> , 2014, 77, 1451-1459.	0.7	8
33	Fluorescence resonance energy transfer between green fluorescent protein and doxorubicin enabled by DNA nanotechnology. <i>Electrophoresis</i> , 2014, 35, 3290-3301.	1.3	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.	1.8	8
35	Rapid superparamagnetic bead-based automated immunoseparation of proteins from <i>Staphylococcus aureus</i> with nanogram yield. <i>Electrophoresis</i> , 2013, 34, 224-234.	1.3	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.	1.8	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.	1.2	6
38	Assessment of Antioxidants in Selected Plant Rootstocks. <i>Antioxidants</i> , 2020, 9, 209.	2.2	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.	1.2	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.	1.2	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.	0.6	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.	0.2	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.	1.3	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.	1.3	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.	1.3	3
46	From Amino Acids Profile to Protein Identification: Searching for Differences in Roe Deer Papilloma. <i>Chromatographia</i> , 2014, 77, 609-617.	0.7	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, .	0.3	1