

Marketa Vaculovicova

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.

96
papers

1,783
citations

23
h-index

38
g-index

105
ext. papers

2,017
ext. citations

4.9
avg, IF

4.69
L-index

#	Paper	IF	Citations
96	Quantum dots-fluorescence resonance energy transfer-based nanosensors and their application. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 562-74	11.8	176
95	Sensitive determination of erythrosine and other red food colorants using capillary electrophoresis with laser-induced fluorescence detection. <i>Journal of Chromatography A</i> , 2007 , 1141, 206-11	4.5	94
94	Fully automated spectrometric protocols for determination of antioxidant activity: advantages and disadvantages. <i>Molecules</i> , 2010 , 15, 8618-40	4.8	90
93	Portable capillary-based (non-chip) capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 339-353	14.6	79
92	Metallothioneins and zinc in cancer diagnosis and therapy. <i>Drug Metabolism Reviews</i> , 2012 , 44, 287-301	7	61
91	Designing next generation of photon upconversion: Recent advances in organic triplet-triplet annihilation upconversion nanoparticles. <i>Biomaterials</i> , 2019 , 201, 77-86	15.6	55
90	Site-Directed Conjugation of Antibodies to Apoferritin Nanocarrier for Targeted Drug Delivery to Prostate Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14430-41	9.5	55
89	Modern micro and nanoparticle-based imaging techniques. <i>Sensors</i> , 2012 , 12, 14792-820	3.8	52
88	Combined contactless conductometric, photometric, and fluorimetric single point detector for capillary separation methods. <i>Analytical Chemistry</i> , 2010 , 82, 129-35	7.8	51
87	Apoferritin modified magnetic particles as doxorubicin carriers for anticancer drug delivery. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13391-402	6.3	48
86	Chip-based CE for rapid separation of 8-aminopyrene-1,3,6-trisulfonic acid (APTS) derivatized glycans. <i>Electrophoresis</i> , 2010 , 31, 3783-6	3.6	35
85	Nanoparticle-drug conjugates treating bacterial infections. <i>Journal of Controlled Release</i> , 2019 , 307, 166-185	18.5	33
84	Antibody-free detection of infectious bacteria using quantum dots-based barcode assay. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 134, 325-332	3.5	33
83	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
82	Analysis of metallothionein by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2012 , 1226, 31-42	4.5	32
81	Apoferritin as an ubiquitous nanocarrier with excellent shelf life. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2265-2278	7.3	30
80	Nanotechnology-based analytical approaches for detection of viruses. <i>Analytical Methods</i> , 2017 , 9, 2375-2391	3.91	28

79	Magnetic molecularly imprinted polymers used for selective isolation and detection of <i>Staphylococcus aureus</i> . <i>Food Chemistry</i> , 2020 , 321, 126673	8.5	27
78	Recent significant developments in detection and method development for the determination of inorganic ions by CE. <i>Electrophoresis</i> , 2009 , 30 Suppl 1, S53-67	3.6	27
77	Application of molecularly imprinted polymers as artificial receptors for imaging. <i>Acta Biomaterialia</i> , 2020 , 101, 444-458	10.8	27
76	Study of Interaction between Metallothionein and CdTe Quantum Dots. <i>Chromatographia</i> , 2013 , 76, 345-353	3.5	24
75	Escape of Tick-Borne Flavivirus from 2S-Methylated 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
74	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
73	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
72	Permeability of rapid prototyped artificial bone scaffold structures. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4127-35	5.4	23
71	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
70	Electrophoretic fingerprint metallothionein analysis as a potential prostate cancer biomarker. <i>Electrophoresis</i> , 2011 , 32, 1952-61	3.6	22
69	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
68	Electrophoretic study of peptide-mediated quantum dot-human immunoglobulin bioconjugation. <i>Electrophoresis</i> , 2013 , 34, 2725-32	3.6	21
67	Voltammetry as a tool for characterization of CdTe quantum dots. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 13497-510	6.3	21
66	Reduction of Doxorubicin-Induced Cardiotoxicity Using Nanocarriers: A Review. <i>Current Drug Metabolism</i> , 2017 , 18, 237-263	3.5	21
65	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
64	Biotin-modified glutathione as a functionalized coating for bioconjugation of CdTe-based quantum dots. <i>Electrophoresis</i> , 2011 , 32, 1619-22	3.6	20
63	Capillary electrophoresis of quantum dots: minireview. <i>Electrophoresis</i> , 2014 , 35, 1929-37	3.6	17
62	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

61	Structural changes in metallothionein isoforms revealed by capillary electrophoresis and Brdicka reaction. <i>Electrophoresis</i> , 2012 , 33, 270-9	3.6	16
60	Metallothioneins in Prion- and Amyloid-Related Diseases. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 637-564.3	4.3	16
59	Study of Streptavidin-Modified Quantum Dots by Capillary Electrophoresis. <i>Chromatographia</i> , 2013 , 76, 335-343	2.1	15
58	Capillary electrophoresis and nanomaterials - Part I: Capillary electrophoresis of nanomaterials. <i>Electrophoresis</i> , 2017 , 38, 2389-2404	3.6	15
57	CdS quantum dots-based immunoassay combined with particle imprinted polymer technology and laser ablation ICP-MS as a versatile tool for protein detection. <i>Scientific Reports</i> , 2019 , 9, 11840	4.9	14
56	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
55	Antimicrobial Agent Based on Selenium Nanoparticles and Carboxymethyl Cellulose for the Treatment of Bacterial Infections. <i>Journal of Biomedical Nanotechnology</i> , 2017 , 13, 767-777	4	13
54	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
53	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
52	DNA interaction with zinc(II) ions. <i>International Journal of Biological Macromolecules</i> , 2014 , 64, 281-7	7.9	12
51	Tissue specific electrochemical fingerprinting. <i>PLoS ONE</i> , 2012 , 7, e49654	3.7	12
50	Sensitive detection and separation of fluorescent derivatives using capillary electrophoresis with laser-induced fluorescence detection with 532nm Nd:YAG laser. <i>Journal of Luminescence</i> , 2006 , 118, 283-292	3.8	12
49	Molecularly imprinted polymers coupled to mass spectrometric detection for metallothionein sensing. <i>Talanta</i> , 2019 , 198, 224-229	6.2	11
48	Gold nanoparticles as labels for immunochemical analysis using laser ablation inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 559-564	4.4	11
47	Study of DNA-ellipticine interaction by capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2012 , 33, 1545-9	3.6	11
46	A Novel Ruthenium Based Coordination Compound Against Pathogenic Bacteria. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
45	Doxorubicin Encapsulation Investigated by Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Chromatographia</i> , 2014 , 77, 1469-1476	2.1	10
44	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

43	Prebiotic synthesis at impact craters: the role of Fe-clays and iron meteorites. <i>Chemical Communications</i> , 2019 , 55, 10563-10566	5.8	9
42	CE and nanomaterials - Part II: Nanomaterials in CE. <i>Electrophoresis</i> , 2017 , 38, 2405-2430	3.6	9
41	SDS-PAGE as a Tool for Hydrodynamic Diameter-Dependent Separation of Quantum Dots. <i>Chromatographia</i> , 2015 , 78, 785-793	2.1	9
40	Rapid preparation of self-assembled CdTe quantum dots used for sensing of DNA in urine. <i>New Journal of Chemistry</i> , 2018 , 42, 6005-6012	3.6	8
39	Real-time monitoring of the UV-induced formation of quantum dots on a milliliter, microliter, and nanoliter scale. <i>Mikrochimica Acta</i> , 2017 , 184, 1489-1497	5.8	7
38	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
37	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
36	Complexes of Metal-Based Nanoparticles with Chitosan Suppressing the Risk of Staphylococcus aureus and Escherichia coli Infections 2015 , 217-232		7
35	Quantum dots and prion proteins: is this a new challenge for neurodegenerative diseases imaging?. <i>Prion</i> , 2013 , 7, 349-58	2.3	7
34	Molecularly imprinted polymers and capillary electrophoresis for sensing phytoestrogens in milk. <i>Journal of Dairy Science</i> , 2020 , 103, 4941-4950	4	7
33	Surface-PASylation of ferritin to form stealth nanovehicles enhances in vivo therapeutic performance of encapsulated ellipticine. <i>Applied Materials Today</i> , 2020 , 18, 100501	6.6	7
32	Nanomaterials for sample pretreatment prior to capillary electrophoretic analysis. <i>Analyst, The</i> , 2017 , 142, 849-857	5	5
31	Short-sweep capillary electrophoresis with a selective zinc fluorescence imaging reagent FluoZin-3 for determination of free and metallothionein-2a-bound Zn ions. <i>Analytica Chimica Acta</i> , 2018 , 1017, 41-47	6.6	5
30	Label-free and amplification-free miR-124 detection in human cells. <i>International Journal of Oncology</i> , 2015 , 46, 871-7	4.4	5
29	Fibre coupled micro-light emitting diode array light source with integrated band-pass filter for fluorescence detection in miniaturised analytical systems. <i>Analytica Chimica Acta</i> , 2015 , 871, 85-92	6.6	5
28	Antimicrobial nanomaterials in the food industry.. <i>KvasnPrůmysl</i> , 2015 , 61, 51-56	1.3	5
27	UV-Induced Nanoparticles-Formation, Properties and Their Potential Role in Origin of Life. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
26	Paperfluidic devices with a selective molecularly imprinted polymer surface for instrumentation-free distance-based detection of protein biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 129999	8.5	5

25	Capillary electrophoresis-driven synthesis of water-soluble CdTe quantum dots in nanoliter scale. <i>Nanotechnology</i> , 2018 , 29, 165602	3.4	4
24	Modern bioanalysis of proteins by electrophoretic techniques. <i>Methods in Molecular Biology</i> , 2014 , 1129, 381-96	1.4	4
23	Capillary electromigration based techniques in diagnostics of prion protein caused diseases. <i>Electrophoresis</i> , 2012 , 33, 3644-52	3.6	4
22	Comparison of Metal Nanoparticles (Au, Ag, Eu, Cd) Used for Immunoanalysis Using LA-ICP-MS Detection. <i>Molecules</i> , 2021 , 26,	4.8	4
21	DNA interaction with platinum-based cytostatics revealed by DNA sequencing. <i>Analytical Biochemistry</i> , 2017 , 539, 22-28	3.1	3
20	Amalgam Electrode-Based Electrochemical Detector for On-Site Direct Determination of Cadmium(II) and Lead(II) from Soils. <i>Sensors</i> , 2017 , 17,	3.8	3
19	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
18	Detection of microbial contamination based on uracil-selective synthetic receptors. <i>Talanta</i> , 2021 , 224, 121813	6.2	3
17	Quantification of nanomaterial bioconjugation based on electrophoretic mobility shift. <i>Electrophoresis</i> , 2015 , 36, 1084-5	3.6	2
16	Permeability of Rapid Prototyped Artificial Bone Scaffold Structures. <i>Advanced Materials Research</i> , 2012 , 445, 607-612	0.5	2
15	Detection of pesticides in food products using paper-based devices by UV-induced fluorescence spectroscopy combined with molecularly imprinted polymers.. <i>Food Chemistry</i> , 2022 , 380, 132141	8.5	2
14	Targeted volatolomics of human monocytes: Comparison of 2D-GC/TOF-MS and 1D-GC/Orbitrap-MS methods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021 , 1184, 122975	3.2	2
13	UV-induced Zn:Cd/S quantum dots in-situ formed in the presence of thiols for sensitive and selective fluorescence detection of thiols. <i>Scientific Reports</i> , 2021 , 11, 13806	4.9	2
12	UV-light-actuated in-situ preparation of paper@ZnCd quantum dots for paper-based enzymatic nanoreactors. <i>Chemical Engineering Journal</i> , 2022 , 428, 132508	14.7	2
11	Upconversion nanoparticle bioconjugates characterized by capillary electrophoresis. <i>Electrophoresis</i> , 2018 , 39, 2246-2252	3.6	1
10	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
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	Ariel 3 window to the origin of life on early earth?. <i>Experimental Astronomy</i> , 2020 , 1	1.3	1

7	Micellar electrokinetic chromatography as a powerful analytical tool for research on prebiotic chemistry. <i>Microchemical Journal</i> , 2021 , 167, 106022	4.8	1
6	Determination of Renal Distribution of Zinc, Copper, Iron, and Platinum in Mouse Kidney Using LA-ICP-MS. <i>BioMed Research International</i> , 2021 , 2021, 6800294	3	0
5	UV-Induced fingerprint spectroscopy. <i>Food Chemistry</i> , 2022 , 368, 130499	8.5	0
4	Distance-based detection in analytical flow devices: From gas detection tubes to microfluidic chips and microfluidic paper-based analytical devices. <i>TrAC - Trends in Analytical Chemistry</i> , 2022 , 150, 116581	14.6	0
3	Carbon Nanomaterials for Chromium (VI) Removal from Aqueous Solution 2016 , 109-126		
2	ELISA-like Analysis of Cisplatinated DNA Using Magnetic Separation. <i>Nanobiomedicine</i> , 2015 , 2, 10	4.8	
1	Metallothionein dimerization evidenced by QD-based Föster resonance energy transfer and capillary electrophoresis. <i>International Journal of Biological Macromolecules</i> , 2021 , 170, 53-60	7.9	