

Lukas Richtera

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.

81
papers

1,380
citations

18
h-index

35
g-index

89
ext. papers

1,773
ext. citations

5
avg, IF

4.83
L-index

#	Paper	IF	Citations
81	Magnetic Nanoparticles: From Design and Synthesis to Real World Applications. <i>Nanomaterials</i> , 2017 , 7,	5.4	317
80	Selenium nanoparticles as a nutritional supplement. <i>Nutrition</i> , 2017 , 33, 83-90	4.8	223
79	Carbon dots based FRET for the detection of DNA damage. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 133-139	11.8	74
78	Determination of Zinc, Cadmium, Lead, Copper and Silver Using a Carbon Paste Electrode and a Screen Printed Electrode Modified with Chromium(III) Oxide. <i>Sensors</i> , 2017 , 17,	3.8	51
77	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. <i>Analyst, The</i> , 2016 , 141, 2665-75	5	42
76	Current trends in electrochemical sensing and biosensing of DNA methylation. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 384-399	11.8	36
75	Assessment of phytotoxicity, environmental and health risks of historical urban park soils. <i>Chemosphere</i> , 2019 , 220, 678-686	8.4	35
74	Apo ferritin as an ubiquitous nanocarrier with excellent shelf life. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2265-2278	7.3	30
73	Comparative study on toxicity of extracellularly biosynthesized and laboratory synthesized CdTe quantum dots. <i>Journal of Biotechnology</i> , 2017 , 241, 193-200	3.7	29
72	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
71	Electrochemical speciation analysis for simultaneous determination of Cr(iii) and Cr(vi) using an activated glassy carbon electrode. <i>Analyst, The</i> , 2016 , 141, 5577-85	5	23
70	Improved Electrochemical Detection of Zinc Ions Using Electrode Modified with Electrochemically Reduced Graphene Oxide. <i>Materials</i> , 2016 , 9,	3.5	21
69	Integrated Electrochemical Biosensors for Detection of Waterborne Pathogens in Low-Resource Settings. <i>Biosensors</i> , 2020 , 10,	5.9	20
68	Review Electrochemical Sensors and Biosensors for Determination of Mercury Ions. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B824-B834	3.9	20
67	Determination of chromium(VI) by anodic stripping voltammetry using a silver-plated glassy carbon electrode. <i>Analytical Methods</i> , 2018 , 10, 2917-2923	3.2	20
66	Biodegradation study on poly(ϵ -caprolactone) with bimodal molecular weight distribution. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 4726-4735	2.9	19
65	Graphene oxide as a tool for antibiotic-resistant gene removal: a review. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 20148-20163	5.1	18

64	One-pot synthesis of natural amine-modified biocompatible carbon quantum dots with antibacterial activity. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 30-48	9.3	18
63	Advanced nanotechnologies in avian influenza: Current status and future trends - A review. <i>Analytica Chimica Acta</i> , 2017 , 983, 42-53	6.6	16
62	Size-related cytotoxicological aspects of polyvinylpyrrolidone-capped platinum nanoparticles. <i>Food and Chemical Toxicology</i> , 2017 , 105, 337-346	4.7	16
61	Novel vancomycin-peptide conjugate as potent antibacterial agent against vancomycin-resistant. <i>Infection and Drug Resistance</i> , 2018 , 11, 1807-1817	4.2	16
60	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. <i>Prostate</i> , 2017 , 77, 604-616	4.2	15
59	Peptide-based electrochemical biosensors utilized for protein detection. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113087	11.8	15
58	Food waste composting - Is it really so simple as stated in scientific literature? - A case study. <i>Science of the Total Environment</i> , 2020 , 723, 138202	10.2	14
57	Application of the Enzymatic Electrochemical Biosensors for Monitoring Non-Competitive Inhibition of Enzyme Activity by Heavy Metals. <i>Sensors</i> , 2019 , 19,	3.8	13
56	Real-Time Visualization of Cell Membrane Damage Using Gadolinium-Schiff Base Complex-Doped Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35859-35868	9.5	13
55	A critical comparison of natural enzymes and nanozymes in biosensing and bioassays. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113494	11.8	13
54	Encapsulation of Doxorubicin in Furcellaran/Chitosan Nanocapsules by Layer-by-Layer Technique for Selectively Controlled Drug Delivery. <i>Biomacromolecules</i> , 2020 , 21, 418-434	6.9	12
53	Preparation and Characterization of Carbon Paste Electrode Bulk-Modified with Multiwalled Carbon Nanotubes and Its Application in a Sensitive Assay of Antihyperlipidemic Simvastatin in Biological Samples. <i>Molecules</i> , 2019 , 24,	4.8	10
52	Specific Magnetic Isolation of E6 HPV16 Modified Magnetizable Particles Coupled with PCR and Electrochemical Detection. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	10
51	Alternative Synthesis Route of Biocompatible Polyvinylpyrrolidone Nanoparticles and Their Effect on Pathogenic Microorganisms. <i>Molecular Pharmaceutics</i> , 2017 , 14, 221-233	5.6	9
50	Fully automated process for histamine detection based on magnetic separation and fluorescence detection. <i>Talanta</i> , 2020 , 212, 120789	6.2	9
49	Electrochemical Methods for Study of Influence of Selenium Nanoparticles on Antioxidant Status of Rats. <i>International Journal of Electrochemical Science</i> , 2016 , 2799-2824	2.2	9
48	Dual-color quantum dots-based simultaneous detection of HPV-HIV co-infection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 295-303	8.5	9
47	The Effect of Processing of Polycaprolactone Films on Degradation Process Initiated by <i>Aspergillus Oryzae</i> Lipase. <i>International Journal of Polymer Analysis and Characterization</i> , 2012 , 17, 465-475	1.7	8

46	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
45	Exceptional release kinetics and cytotoxic selectivity of oxidised MWCNTs double-functionalised with doxorubicin and prostate-homing peptide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 156, 123-132 ⁶		8
44	Structure and Morphology of Microbial Degraded Poly(ϵ -caprolactone)/Graphite Oxide Composite. <i>Journal of Polymers and the Environment</i> , 2014 , 22, 190-199	4.5	7
43	Molecularly imprinted polymers and capillary electrophoresis for sensing phytoestrogens in milk. <i>Journal of Dairy Science</i> , 2020 , 103, 4941-4950	4	7
42	Effect of arsenic (III and V) on oxidative stress parameters in resistant and susceptible <i>Staphylococcus aureus</i> . <i>Environmental Research</i> , 2018 , 166, 394-401	7.9	6
41	Improving cytocompatibility of CdTe quantum dots by Schiff-base-coordinated lanthanides surface doping. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 43	9.4	6
40	Label-free bead-based metallothionein electrochemical immunosensor. <i>Electrophoresis</i> , 2015 , 36, 1894-904	9.4	6
39	Donor-Acceptor Complexes of Sulfur Trioxide with 1,4-Dioxane and Their Crystal Structures. <i>Collection of Czechoslovak Chemical Communications</i> , 2006 , 71, 155-163		6
38	Kinetic analysis of human metallothionein and CdTe quantum dot complexes using fluorescence and voltammetry techniques. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 160, 381-389	6	5
37	The Reaction of Selenium Trioxide with Dialkyl Ethers. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003 , 629, 716-721	1.3	5
36	Fully automated two-step assay for detection of metallothionein through magnetic isolation using functionalized γ -Fe ₂ O ₃ particles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1039, 17-27	3.2	5
35	Highly sensitive simultaneous electrochemical determination of reduced and oxidized glutathione in urine samples using antimony trioxide modified carbon paste electrode. <i>Sensors and Actuators B: Chemical</i> , 2020 , 318, 128141	8.5	5
34	Graphene oxide as a novel tool for mycotoxin removal. <i>Food Control</i> , 2021 , 121, 107611	6.2	5
33	pH-Responsive Hybrid Organic/Inorganic Ruthenium Nanoparticles for Controlled Release of Doxorubicin. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700289	3.1	4
32	Electrochemical Evaluation of Selenium (IV) Removal from Its Aqueous Solutions by Unmodified and Modified Graphene Oxide. <i>Molecules</i> , 2019 , 24,	4.8	4
31	Graphene Oxide as a Nanocarrier for Biochemical Molecules: Current Understanding and Trends. <i>Processes</i> , 2020 , 8, 1636	2.9	4
30	A chemometric-assisted voltammetric analysis of free and Zn(II)-loaded metallothionein-3 states. <i>Bioelectrochemistry</i> , 2020 , 134, 107501	5.6	4
29	Determination of Trolox Equivalent Antioxidant Capacity in Berries Using Amperometric Tyrosinase Biosensor Based on Multi-Walled Carbon Nanotubes. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2497	2.6	4

28	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
27	Electrochemical Determination of Vitamin D3 in Pharmaceutical Products by Using Boron Doped Diamond Electrode. <i>Electroanalysis</i> , 2020 , 32, 741-748	3	4
26	Electrochemical and optical study of metallothionein interactions with prion proteins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 140, 355-361	3.5	3
25	Determination of the Fineness of Medieval Coins—Evaluation of Methods in a Case Study of a Medieval Pfennig. <i>Archaeometry</i> , 2018 , 60, 325-341	1.6	3
24	Taming the oxidative power of SeO(3) in 1,4-dioxane, isolation of two new isomers of mixed-valence selenium oxides, and two unprecedented cyclic esters of selenic acid. <i>Inorganic Chemistry</i> , 2014 , 53, 6569-77	5.1	3
23	The Application of Curve Fitting on the Voltammograms of Various Isoforms of Metallothioneins-Metal Complexes. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	3
22	Bis(2,2'-bipyridil)Copper(II) Chloride Complex: Tyrosinase Biomimetic Catalyst or Redox Mediator?. <i>Materials</i> , 2020 , 14,	3.5	3
21	Norepinephrine transporter-derived homing peptides enable rapid endocytosis of drug delivery nanovehicles into neuroblastoma cells. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 95	9.4	3
20	Label-Free DNA Biosensor Using Modified Reduced Graphene Oxide Platform as a DNA Methylation Assay. <i>Materials</i> , 2020 , 13,	3.5	3
19	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,	3.5	3
18	The Anti-Proliferative Activity of Coordination Compound-Based ZnO Nanoparticles as a Promising Agent Against Triple Negative Breast Cancer Cells. <i>International Journal of Nanomedicine</i> , 2021 , 16, 4431-4449	7.2	3
17	Engineered nanoselenium supplemented fish diet: toxicity comparison with ionic selenium and stability against particle dissolution, aggregation and release. <i>Environmental Science: Nano</i> , 2020 , 7, 2325-2336	7.1	2
16	A Novel Biocompatible Titanium-Gadolinium Quantum Dot as a Bacterial Detecting Agent with High Antibacterial Activity. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
15	Europium and terbium Schiff base peptide complexes as potential antimicrobial agents against <i>Salmonella typhimurium</i> and <i>Pseudomonas aeruginosa</i> . <i>Chemical Papers</i> , 2018 , 72, 1437-1449	1.9	2
14	Functional Analysis of Novicidin Peptide: Coordinated Delivery System for Zinc via Schiff Base Ligand. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2954-2969	6.3	2
13	The Effect of Synthesis Procedure on Hydrogen Peroxidase-Like Catalytic Activity of Iron Oxide Magnetic Particles. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6756	2.6	1
12	Synthesis and Crystal Structure of the First Selenonyl Bis(carboxylate) SeO ₂ (O ₂ CCH ₃) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 2923-2927	2.3	1
11	The Impact of Graphite Source and the Synthesis Method on the Properties of Graphene Oxide. <i>Key Engineering Materials</i> , 2013 , 592-593, 374-377	0.4	1

10	LiYbCl ₄ (THF) ₄ . <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, m700		1
9	In Situ Investigation of the Cytotoxic and Interfacial Characteristics of Titanium When Galvanically Coupled with Magnesium Using Scanning Electrochemical Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43587-43596	9.5	1
8	Reduced graphene oxide/ZnO nanocomposite modified electrode for the detection of tetracycline. <i>Journal of Materials Science</i> , 2022 , 57, 5533-5551	4.3	1
7	Tuning the surface coating of IONs toward efficient sonochemical tethering and sustained liberation of topoisomerase II poisons. <i>International Journal of Nanomedicine</i> , 2019 , 14, 7609-7624	7.3	0
6	The effects of dietary exposure to Magn \square phase titanium suboxide and titanium dioxide on rainbow trout (<i>Oncorhynchus mykiss</i>).. <i>Chemosphere</i> , 2022 , 133689	8.4	0
5	Gold corrosion An alternative source of red stains on gold coins. <i>Materialia</i> , 2021 , 15, 101025	3.2	0
4	Conotoxin-derived biomimetic coiled cone-shaped peptide as ligand for selective nanodelivery to norepinephrine transporter-expressing neuroblastoma cells. <i>Applied Materials Today</i> , 2022 , 27, 101410	6.6	0
3	The Effects of <i>Serendipita indica</i> and Guanidine-Modified Nanomaterial on Growth and Development of Cabbage Seedlings and Black Spot Infestation. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1295 ³		0
2	VPA does not enhance platinum binding to DNA in cisplatin-resistant neuroblastoma cancer cells. <i>Tumor Biology</i> , 2017 , 39, 1010428317711656	2.9	
1	Effect of Graphene Oxide Modification on a DNA Biosensor Developed for the Detection of Methylated DNA Associated with Cancer. <i>Proceedings (mdpi)</i> , 2019 , 15, 13	0.3	