

Lukas Richtera

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6361746/lukas-richtera-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	The effects of dietary exposure to Magni phase titanium suboxide and titanium dioxide on rainbow trout (<i>Oncorhynchus mykiss</i>).. <i>Chemosphere</i> , 2022 , 133689	8.4	0
80	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
79	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
78	Gold corrosion – An alternative source of red stains on gold coins. <i>Materialia</i> , 2021 , 15, 101025	3.2	0
77	Peptide-based electrochemical biosensors utilized for protein detection. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113087	11.8	15
76	Graphene oxide as a novel tool for mycotoxin removal. <i>Food Control</i> , 2021 , 121, 107611	6.2	5
75	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 ³	7.3	4449 ³
74	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
73	A critical comparison of natural enzymes and nanozymes in biosensing and bioassays. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113494	11.8	13
72	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
71	Graphene Oxide as a Nanocarrier for Biochemical Molecules: Current Understanding and Trends. <i>Processes</i> , 2020 , 8, 1636	2.9	4
70	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
69	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 ²	7.1	2336 ²
68	A chemometric-assisted voltammetric analysis of free and Zn(II)-loaded metallothionein-3 states. <i>Bioelectrochemistry</i> , 2020 , 134, 107501	5.6	4
67	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
66	Fully automated process for histamine detection based on magnetic separation and fluorescence detection. <i>Talanta</i> , 2020 , 212, 120789	6.2	9
65	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

64	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
63	A Novel Biocompatible Titanium-Gadolinium Quantum Dot as a Bacterial Detecting Agent with High Antibacterial Activity. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
62	Integrated Electrochemical Biosensors for Detection of Waterborne Pathogens in Low-Resource Settings. <i>Biosensors</i> , 2020 , 10,	5.9	20
61	Molecularly imprinted polymers and capillary electrophoresis for sensing phytoestrogens in milk. <i>Journal of Dairy Science</i> , 2020 , 103, 4941-4950	4	7
60	Bis(2,2'-bipyridil)Copper(II) Chloride Complex: Tyrosinase Biomimetic Catalyst or Redox Mediator?. <i>Materials</i> , 2020 , 14,	3.5	3
59	Electrochemical Determination of Vitamin D3 in Pharmaceutical Products by Using Boron Doped Diamond Electrode. <i>Electroanalysis</i> , 2020 , 32, 741-748	3	4
58	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
57	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
56	Label-Free DNA Biosensor Using Modified Reduced Graphene Oxide Platform as a DNA Methylation Assay. <i>Materials</i> , 2020 , 13,	3.5	3
55	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
54	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
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	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
51	Electrochemical Evaluation of Selenium (IV) Removal from Its Aqueous Solutions by Unmodified and Modified Graphene Oxide. <i>Molecules</i> , 2019 , 24,	4.8	4
50	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	
49	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
48	Assessment of phytotoxicity, environmental and health risks of historical urban park soils. <i>Chemosphere</i> , 2019 , 220, 678-686	8.4	35
47	Europium and terbium Schiff base peptide complexes as potential antimicrobial agents against Salmonella typhimurium and Pseudomonas aeruginosa. <i>Chemical Papers</i> , 2018 , 72, 1437-1449	1.9	2

46	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
45	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
44	Improving cytocompatibility of CdTe quantum dots by Schiff-base-coordinated lanthanides surface doping. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 43	9.4	6
43	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
42	Review Electrochemical Sensors and Biosensors for Determination of Mercury Ions. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B824-B834	3.9	20
41	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
40	Novel vancomycin-peptide conjugate as potent antibacterial agent against vancomycin-resistant. <i>Infection and Drug Resistance</i> , 2018 , 11, 1807-1817	4.2	16
39	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
38	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
37	Selenium nanoparticles as a nutritional supplement. <i>Nutrition</i> , 2017 , 33, 83-90	4.8	223
36	Amino Acid Profiling of Zinc Resistant Prostate Cancer Cell Lines: Associations With Cancer Progression. <i>Prostate</i> , 2017 , 77, 604-616	4.2	15
35	Carbon dots based FRET for the detection of DNA damage. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 133-139	13.8	74
34	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
33	Current trends in electrochemical sensing and biosensing of DNA methylation. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 384-399	11.8	36
32	Alternative Synthesis Route of Biocompatible Polyvinylpyrrolidone Nanoparticles and Their Effect on Pathogenic Microorganisms. <i>Molecular Pharmaceutics</i> , 2017 , 14, 221-233	5.6	9
31	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
30	VPA does not enhance platinum binding to DNA in cisplatin-resistant neuroblastoma cancer cells. <i>Tumor Biology</i> , 2017 , 39, 1010428317711656	2.9	
29	Apo ferritin as an ubiquitous nanocarrier with excellent shelf life. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2265-2278	7.3	30

28	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
27	Advanced nanotechnologies in avian influenza: Current status and future trends - A review. <i>Analytica Chimica Acta</i> , 2017 , 983, 42-53	6.6	16
26	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
25	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
24	Magnetic Nanoparticles: From Design and Synthesis to Real World Applications. <i>Nanomaterials</i> , 2017 , 7,	5.4	317
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	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	6	8
21	Size-related cytotoxicological aspects of polyvinylpyrrolidone-capped platinum nanoparticles. <i>Food and Chemical Toxicology</i> , 2017 , 105, 337-346	4.7	16
20	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
19	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
18	Electrochemical sensing of etoposide using carbon quantum dot modified glassy carbon electrode. <i>Analyst, The</i> , 2016 , 141, 2665-75	5	42
17	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
16	Improved Electrochemical Detection of Zinc Ions Using Electrode Modified with Electrochemically Reduced Graphene Oxide. <i>Materials</i> , 2016 , 9,	3.5	21
15	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
14	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
13	Fully automated two-step assay for detection of metallothionein through magnetic isolation using functionalized γ -Fe ₃ O ₄ particles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1039, 17-27	3.2	5
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	Label-free bead-based metallothionein electrochemical immunosensor. <i>Electrophoresis</i> , 2015 , 36, 1894-904	3.04	6

10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	LiYbCl(4)(THF)(4). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, m700		1
2	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
1	The Reaction of Selenium Trioxide with Dialkyl Ethers. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003 , 629, 716-721	1.3	5