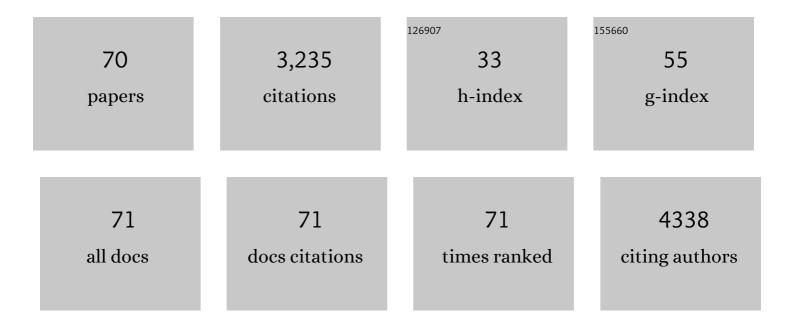
Lieve Balcaen

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Development, validation and application of an inductively coupled plasma – mass spectrometry method to determine cobalt in metal-on-metal prosthesis patients using volumetric absorptive microsampling. Talanta, 2020, 208, 120055. | 5.5 | 21 |
| 2 | Synergy between Intraperitoneal Aerosolization (PIPAC) and Cancer Nanomedicine: Cisplatin-Loaded Polyarginine-Hyaluronic Acid Nanocarriers Efficiently Eradicate Peritoneal Metastasis of Advanced Human Ovarian Cancer. ACS Applied Materials & Interfaces, 2020, 12, 29024-29036. | 8.0 | 19 |
| 3 | Enhancement of Biomimetic Enzymatic Mineralization of Gellan Gum Polysaccharide Hydrogels by Plant-Derived Gallotannins. International Journal of Molecular Sciences, 2020, 21, 2315. | 4.1 | 12 |
| 4 | 4. Inductively coupled plasma–mass spectrometry. , 2019, , 247-305. | | 0 |
| 5 | Pectin-bioactive glass self-gelling, injectable composites with high antibacterial activity. Carbohydrate Polymers, 2019, 205, 427-436. | 10.2 | 39 |
| 6 | A pre-column derivatization method allowing quantitative metabolite profiling of carboxyl and phenolic hydroxyl group containing pharmaceuticals in human plasma <i>via</i> liquid chromatography-inductively coupled plasma-tandem mass spectrometry (LC-ICP-MS/MS). Journal of Analytical Atomic Spectrometry, 2018, 33, 274-282. | 3.0 | 3 |
| 7 | Novel injectable gellan gum hydrogel composites incorporating Zn- and Sr-enriched bioactive glass microparticles: High-resolution X-ray microcomputed tomography, antibacterial and in vitro testing. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1313-1326. | 2.7 | 31 |
| 8 | Comparative evaluation of ICP sample introduction systems to be used in the metabolite profiling of chlorine-containing pharmaceuticals via HPLC-ICP-MS. Journal of Pharmaceutical and Biomedical Analysis, 2018, 153, 135-144. | 2.8 | 12 |
| 9 | Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium and carbonate ion solutions. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1825-1834. | 2.7 | 18 |
| 10 | Novel selfâ€gelling injectable hydrogel/alphaâ€tricalcium phosphate composites for bone regeneration: Physiochemical and microcomputer tomographical characterization. Journal of Biomedical Materials Research - Part A, 2018, 106, 822-828. | 4.0 | 36 |
| 11 | High-performance liquid chromatography coupled to inductively coupled plasma – Mass spectrometry (HPLC-ICP-MS) for quantitative metabolite profiling of non-metal drugs. TrAC - Trends in Analytical Chemistry, 2018, 104, 118-134. | 11.4 | 27 |
| 12 | Light Absorption Coefficient of CsPbBr ₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2018, 9, 3093-3097. | 4.6 | 219 |
| 13 | Composites of gellan gum hydrogel enzymatically mineralized with calcium-zinc phosphate for bone regeneration with antibacterial activity. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1610-1618. | 2.7 | 23 |
| 14 | Bioinspired, biomimetic, double-enzymatic mineralization of hydrogels for bone regeneration with calcium carbonate. Materials Letters, 2017, 190, 13-16. | 2.6 | 32 |
| 15 | Overcoming spectral overlap via inductively coupled plasma-tandem mass spectrometry (ICP-MS/MS). A tutorial review. Journal of Analytical Atomic Spectrometry, 2017, 32, 1660-1679. | 3.0 | 138 |
| 16 | Development and validation of a novel quantification approach for gradient elution reversed phase high-performance liquid chromatography coupled to tandem ICP-mass spectrometry (RP-HPLC-ICP-MS/MS) and its application to diclofenac and its related compounds. Analytica Chimica Acta, 2017, 974, 43-53. | 5.4 | 24 |
| 17 | Quantitative Metabolite Profiling of an Amino Group Containing Pharmaceutical in Human Plasma via Precolumn Derivatization and High-Performance Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2017, 89, 1907-1915. | 6.5 | 7 |
| 18 | Characterization of SiO ₂ nanoparticles by single particle-inductively coupled plasma-tandem mass spectrometry (SP-ICP-MS/MS). Journal of Analytical Atomic Spectrometry, 2017, 32, 2140-2152. | 3.0 | 40 |

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|----|--|------|-----------|
| 19 | Determination of ultra-trace amounts of prosthesis-related metals in whole blood using volumetric absorptive micro-sampling and tandem ICP – Mass spectrometry. Analytica Chimica Acta, 2016, 941, 1-9. | 5.4 | 33 |
| 20 | Enrichment of enzymatically mineralized gellan gum hydrogels with phlorotannin-rich <i>Ecklonia cava</i> extract Seanol [®] to endow antibacterial properties and promote mineralization. Biomedical Materials (Bristol), 2016, 11, 045015. | 3.3 | 21 |
| 21 | Novel injectable, self-gelling hydrogel–microparticle composites for bone regeneration consisting of gellan gum and calcium and magnesium carbonate microparticles. Biomedical Materials (Bristol), 2016, 11, 065011. | 3.3 | 27 |
| 22 | Generation of composites for bone tissue-engineering applications consisting of gellan gum hydrogels mineralized with calcium and magnesium phosphate phases by enzymatic means. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 938-954. | 2.7 | 47 |
| 23 | Determination of the total drug-related chlorine and bromine contents in human blood plasma using high performance liquid chromatography–tandem ICP-mass spectrometry (HPLC–ICP-MS/MS). Journal of Pharmaceutical and Biomedical Analysis, 2016, 124, 112-119. | 2.8 | 29 |
| 24 | Alginate biopolymers: Counteracting the impact of superabsorbent polymers on mortar strength. Construction and Building Materials, 2016, 110, 169-174. | 7.2 | 86 |
| 25 | Laser ablation-tandem ICP-mass spectrometry (LA-ICP-MS/MS) for direct Sr isotopic analysis of solid samples with high Rb/Sr ratios. Journal of Analytical Atomic Spectrometry, 2016, 31, 464-472. | 3.0 | 46 |
| 26 | Tandem ICP-mass spectrometry for Sr isotopic analysis without prior Rb/Sr separation. Journal of Analytical Atomic Spectrometry, 2016, 31, 303-310. | 3.0 | 55 |
| 27 | Tailoring Cellular Uptake of Gold Nanoparticles Via the Hydrophilicâ€ŧoâ€Hydrophobic Ratio of their (Co)polymer Coating. Advanced Functional Materials, 2015, 25, 3433-3439. | 14.9 | 16 |
| 28 | Gold/titania composites: An X-ray absorption spectroscopy study on the influence of the reduction method. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 110, 45-50. | 2.9 | 7 |
| 29 | Regional geodynamic context for the Mesoproterozoic Kibara Belt (KIB) and the Karagwe-Ankole Belt: Evidence from geochemistry and isotopes in the KIB. Precambrian Research, 2015, 264, 82-97. | 2.7 | 41 |
| 30 | Inductively coupled plasma – Tandem mass spectrometry (ICP-MS/MS): A powerful and universal tool for the interference-free determination of (ultra)trace elements – A tutorial review. Analytica Chimica Acta, 2015, 894, 7-19. | 5.4 | 275 |
| 31 | Interference-free determination of ultra-trace concentrations of arsenic and selenium using methyl fluoride as a reaction gas in ICP–MS/MS. Analytical and Bioanalytical Chemistry, 2015, 407, 919-929. | 3.7 | 63 |
| 32 | Polylactide nanofibers with hydroxyapatite as growth substrates for osteoblast-like cells. Journal of Biomedical Materials Research - Part A, 2014, 102, 3918-3930. | 4.0 | 36 |
| 33 | Enzymatic mineralization of gellan gum hydrogel for bone tissue-engineering applications and its enhancement by polydopamine. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 906-918. | 2.7 | 84 |
| 34 | Unveiling the colour palette of Arraiolos carpets: Material study of carpets from the 17th to 19th century period by HPLC-DAD-MS and ICP-MS. Journal of Cultural Heritage, 2014, 15, 292-299. | 3.3 | 22 |
| 35 | Accurate determination of ultra-trace levels of Ti in blood serum using ICP-MS/MS. Analytica Chimica Acta, 2014, 809, 1-8. | 5.4 | 86 |
| 36 | The Cellular Interactions of PEGylated Gold Nanoparticles: Effect of PEGylation on Cellular Uptake and Cytotoxicity. Particle and Particle Systems Characterization, 2014, 31, 794-800. | 2.3 | 62 |

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|----|---|------|-----------|
| 37 | Potential of Methyl Fluoride as a Universal Reaction Gas to Overcome Spectral Interference in the Determination of Ultratrace Concentrations of Metals in Biofluids Using Inductively Coupled Plasma-Tandem Mass Spectrometry. Analytical Chemistry, 2014, 86, 7969-7977. | 6.5 | 50 |
| 38 | Geochemistry and isotopic evolution of the central African Domes, Bangweulu and Irumide regions: Evidence for cryptic Archean sources and a Paleoproterozoic continental arc. Journal of African Earth Sciences, 2014, 100, 145-163. | 2.0 | 8 |
| 39 | Composites of polyvinyl alcohol (PVA) hydrogel and calcium and magnesium phosphate formed by enzymatic functionalization. Materials Letters, 2014, 137, 62-67. | 2.6 | 10 |
| 40 | Injectable self-gelling composites for bone tissue engineering based on gellan gum hydrogel enriched with different bioglasses. Biomedical Materials (Bristol), 2014, 9, 045014. | 3.3 | 56 |
| 41 | Cross-Sectional Relationship Between Chronic Stress and Mineral Concentrations in Hair of Elementary School Girls. Biological Trace Element Research, 2013, 153, 41-49. | 3.5 | 7 |
| 42 | Hair Minerals and Metabolic Health in Belgian Elementary School Girls. Biological Trace Element Research, 2013, 151, 335-343. | 3.5 | 13 |
| 43 | Magnesium-enhanced enzymatically mineralized platelet-rich fibrin for bone regeneration applications. Biomedical Materials (Bristol), 2013, 8, 055001. | 3.3 | 17 |
| 44 | Acceleration of gelation and promotion of mineralization of chitosan hydrogels by alkaline phosphatase. International Journal of Biological Macromolecules, 2013, 56, 122-132. | 7.5 | 39 |
| 45 | Isotope ratio mapping by means of laser ablation-single collector-ICP-mass spectrometry: Zn tracer studies in thin sections of Daphnia magna. Journal of Analytical Atomic Spectrometry, 2013, 28, 1005. | 3.0 | 22 |
| 46 | Accurate determination of S in organic matrices using isotope dilution ICP-MS/MS. Journal of Analytical Atomic Spectrometry, 2013, 28, 33-39. | 3.0 | 88 |
| 47 | ISOTOPES ON THE BEACH, PART 2: NEODYMIUM ISOTOPIC ANALYSIS FOR THE PROVENANCING OF ROMAN GLASSâ€MAKING. Archaeometry, 2013, 55, 449-464. | 1.3 | 39 |
| 48 | ISOTOPES ON THE BEACH, PART 1: STRONTIUM ISOTOPE RATIOS AS A PROVENANCE INDICATOR FOR LIME RAW MATERIALS USED IN ROMAN GLASSâ€MAKING. Archaeometry, 2013, 55, 214-234. | 1.3 | 52 |
| 49 | Waterborne versus Dietary Zinc Accumulation and Toxicity in <i>Daphnia magna</i> : a Synchrotron Radiation Based X-ray Fluorescence Imaging Approach. Environmental Science & Technology, 2012, 46, 1178-1184. | 10.0 | 30 |
| 50 | The use of liposomes to differentiate between the effects of nickel accumulation and altered food quality in Daphnia magna exposed to dietary nickel. Aquatic Toxicology, 2012, 109, 80-89. | 4.0 | 11 |
| 51 | Mineral Concentrations in Hair of Belgian Elementary School Girls: Reference Values and Relationship with Food Consumption Frequencies. Biological Trace Element Research, 2012, 150, 56-67. | 3.5 | 20 |
| 52 | Enzymatic Mineralization of Hydrogels for Bone Tissue Engineering by Incorporation of Alkaline Phosphatase. Macromolecular Bioscience, 2012, 12, 1077-1089. | 4.1 | 75 |
| 53 | Liposomes as an alternative delivery system for investigating dietary metal toxicity to Daphnia magna. Aquatic Toxicology, 2011, 105, 661-668. | 4.0 | 16 |
| 54 | Determination of isotope ratios of metals (and metalloids) by means of inductively coupled plasma-mass spectrometry for provenancing purposes — A review. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 769-786. | 2.9 | 77 |

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|----|--|-----|-----------|
| 55 | Comparison of laser ablation-inductively coupled plasma-mass spectrometry and micro-X-ray fluorescence spectrometry for elemental imaging in Daphnia magna. Analytica Chimica Acta, 2010, 664, 19-26. | 5.4 | 66 |
| 56 | A comparison between HPLC-dynamic reaction cell-ICP-MS and HPLC-sector field-ICP-MS for the detection of glutathione-trapped reactive drug metabolites using clozapine as a model compound. Journal of Analytical Atomic Spectrometry, 2010, 25, 419. | 3.0 | 24 |
| 57 | Use of single-collector and multi-collector ICP-mass spectrometry for isotopic analysis. Journal of Analytical Atomic Spectrometry, 2009, 24, 863. | 3.0 | 144 |
| 58 | Development of a method for assessing the relative contribution of waterborne and dietary exposure to zinc bioaccumulation in Daphnia magna by using isotopically enriched tracers and ICP–MS detection. Analytical and Bioanalytical Chemistry, 2008, 390, 555-569. | 3.7 | 26 |
| 59 | Three-dimensional elemental imaging by means of synchrotron radiation micro-XRF: developments and applications in environmental chemistry. Analytical and Bioanalytical Chemistry, 2008, 390, 267-271. | 3.7 | 59 |
| 60 | Use of the bromine isotope ratio in HPLC-ICP-MS and HPLC-ESI-MS analysis of a new drug in development. Analytical and Bioanalytical Chemistry, 2008, 390, 1717-1729. | 3.7 | 66 |
| 61 | Hyphenation of reverse-phase HPLC and ICP-MS for metabolite profiling—application to a novel antituberculosis compound as a case study. Analytical and Bioanalytical Chemistry, 2007, 389, 777-786. | 3.7 | 32 |
| 62 | Determination of the 87Sr/86Sr isotope ratio in USGS silicate reference materials by multi-collector ICP–mass spectrometry. International Journal of Mass Spectrometry, 2005, 242, 251-255. | 1.5 | 103 |
| 63 | Multi-element Analysis of South African Wines by ICPâ^'MS and Their Classification According to Geographical Origin. Journal of Agricultural and Food Chemistry, 2005, 53, 5060-5066. | 5.2 | 155 |
| 64 | Application of laser ablation inductively coupled plasma (dynamic reaction cell) mass spectrometry for depth profiling analysis of high-tech industrial materials. Journal of Analytical Atomic Spectrometry, 2005, 20, 417. | 3.0 | 23 |
| 65 | Laser ablation-inductively coupled plasma-dynamic reaction cell-mass spectrometry (LA-ICP-DRC-MS) for the determination of Pt, Pd and Rh in Pb buttons obtained by fire assay of platiniferous ores. Journal of Analytical Atomic Spectrometry, 2004, 19, 632. | 3.0 | 35 |
| 66 | Determination of ultra-trace amounts of Fe in AgNO 3 solutions by means of isotope dilution analysis applying an inductively coupled plasma mass spectrometer equipped with a dynamic reaction cell. Analytical and Bioanalytical Chemistry, 2003, 377, 1020-1025. | 3.7 | 10 |
| 67 | Mass discrimination in dynamic reaction cell (DRC)-ICP-mass spectrometry. Journal of Analytical Atomic Spectrometry, 2003, 18, 1060. | 3.0 | 48 |
| 68 | The use of dynamic reaction cell ICP mass spectrometry to facilitate Rb-Sr age determination. Geological Society Special Publication, 2003, 220, 173-181. | 1.3 | 3 |
| 69 | Capabilities of inductively coupled plasma mass spectrometry for the measurement of Fe isotope ratios. Journal of Analytical Atomic Spectrometry, 2002, 17, 933-943. | 3.0 | 53 |
| 70 | Multi-element analysis of a thermographic material by means of solid sampling-electrothermal vaporization-inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 495-511. | 2.9 | 16 |