# Andreas Limbeck

List of Publications by Year
in descending order



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|---|---|---|---|
| 153 papers | 5,204 citations | 87888 38 h-index | 106344 65 g-index |
| 154 all docs | 154 docs citations | 154 times ranked | 6332 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Secondary organic aerosol formation in the atmosphere via heterogeneous reaction of gaseous isoprene on acidic particles. Geophysical Research Letters, 2003, 30, . | 4.0 | 325 |
| 2 | Recent advances in quantitative LA-ICP-MS analysis: challenges and solutions in the life sciences and environmental chemistry. Analytical and Bioanalytical Chemistry, 2015, 407, 6593-6617. | 3.7 | 240 |
| 3 | Organic acids in continental background aerosols. Atmospheric Environment, 1999, 33, 1847-1852. | 4.1 | 184 |
| 4 | Relationship between Cation Segregation and the Electrochemical Oxygen Reduction Kinetics of La<sub>0.6</sub>Sr<sub>0.4</sub>CoO<sub>3â^Î´</sub> Thin Film Electrodes. Journal of the Electrochemical Society, 2011, 158, B727-B734. | 2.9 | 183 |
| 5 | Seasonal trends and possible sources of brown carbon based on 2â€year aerosol measurements at six sites in Europe. Journal of Geophysical Research, 2007, 112, . | 3.3 | 169 |
| 6 | Semivolatile behavior of dicarboxylic acids and other polar organic species at a rural background site (Nylsvley, RSA). Atmospheric Environment, 2001, 35, 1853-1862. | 4.1 | 154 |
| 7 | Real-time impedance monitoring of oxygen reduction during surface modification of thinÂfilmÂcathodes. Nature Materials, 2017, 16, 640-645. | 27.5 | 146 |
| 8 | Recent developments in assessment of bio-accessible trace metal fractions in airborne particulate matter: A review. Analytica Chimica Acta, 2013, 774, 11-25. | 5.4 | 131 |
| 9 | Size and composition of particulate emissions from motor vehicles in the KaisermÃ¼hlen-Tunnel, Vienna. Atmospheric Environment, 2008, 42, 2173-2186. | 4.1 | 129 |
| 10 | Determination of Pt, Pd and Rh by inductively coupled plasma sector field mass spectrometry (ICP-SFMS) in size-classified urban aerosol samples. Journal of Analytical Atomic Spectrometry, 2003, 18, 239-246. | 3.0 | 121 |
| 11 | Mechanisms of Performance Degradation of (La,Sr)(Co,Fe)O<sub>3-Î´</sub>Solid Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2016, 163, F581-F585. | 2.9 | 118 |
| 12 | Surface chemistry of La<sub>0.6</sub>Sr<sub>0.4</sub>CoO<sub>3â^Î´</sub> thin films and its impact on the oxygen surface exchange resistance. Journal of Materials Chemistry A, 2015, 3, 22759-22769. | 10.3 | 102 |
| 13 | Comparative analysis of the Trichoderma reeseitranscriptome during growth on the cellulase inducing substrates wheat straw and lactose. Biotechnology for Biofuels, 2013, 6, 127. | 6.2 | 100 |
| 14 | Particulate emissions from on-road vehicles in the KaisermÃ¼hlen-tunnel (Vienna, Austria). Atmospheric Environment, 2004, 38, 2187-2195. | 4.1 | 94 |
| 15 | Methodology and applications of elemental mapping by laser induced breakdown spectroscopy. Analytica Chimica Acta, 2021, 1147, 72-98. | 5.4 | 92 |
| 16 | Determination of water and alkaline extractable atmospheric humicâ€like substances with the TU Vienna HULIS analyzer in samples from six background sites in Europe. Journal of Geophysical Research, 2007, 112, . | 3.3 | 85 |
| 17 | Elemental mapping of biological samples by the combined use of LIBS and LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2016, 31, 252-258. | 3.0 | 84 |
| 18 | Interface Instability of Fe-Stabilized Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> versus Li Metal. Journal of Physical Chemistry C, 2018, 122, 3780-3785. | 3.1 | 83 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Impact of mineral components and selected trace metals on ambient PM10 concentrations. Atmospheric Environment, 2009, 43, 530-538. | 4.1 | 74 |
| 20 | ETAAS determination of palladium in environmental samples with on-line preconcentration and matrix separation. Journal of Analytical Atomic Spectrometry, 2003, 18, 161-165. | 3.0 | 69 |
| 21 | Metal(loid) bioaccessibility and inhalation risk assessment: A comparison between an urban and an industrial area. Environmental Research, 2018, 165, 140-149. | 7.5 | 64 |
| 22 | Dependence of in-cloud scavenging of polar organic aerosol compounds on the water solubility. Journal of Geophysical Research, 2000, 105, 19857-19867. | 3.3 | 63 |
| 23 | Bulk and surface characterization of In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(001) single crystals. Physical Review B, 2012, 85, . | 3.2 | 62 |
| 24 | Photosynthetic poly-Î²-hydroxybutyrate accumulation in unicellular cyanobacterium Synechocystis sp. PCC 6714. AMB Express, 2017, 7, 143. | 3.0 | 61 |
| 25 | Chemoselective Supported Ionic-Liquid-Phase (SILP) Aldehyde Hydrogenation Catalyzed by an Fe(II) PNP Pincer Complex. ACS Catalysis, 2018, 8, 1048-1051. | 11.2 | 59 |
| 26 | Carbon-Specific Analysis of Humic-like Substances in Atmospheric Aerosol and Precipitation Samples. Analytical Chemistry, 2005, 77, 7288-7293. | 6.5 | 56 |
| 27 | Singular charge fluctuations at a magnetic quantum critical point. Science, 2020, 367, 285-288. | 12.6 | 55 |
| 28 | Application of gold thin-films for internal standardization in LA-ICP-MS imaging experiments. Analyst, The, 2014, 139, 1521. | 3.5 | 52 |
| 29 | Improvements in the direct analysis of advanced materials using ICP-based measurement techniques. Journal of Analytical Atomic Spectrometry, 2017, 32, 212-232. | 3.0 | 52 |
| 30 | A comparison of sample preparation strategies for biological tissues and subsequent trace element analysis using LA-ICP-MS. Analytical and Bioanalytical Chemistry, 2017, 409, 1805-1814. | 3.7 | 51 |
| 31 | Development of an On-Line Flow Injection Sr/Matrix Separation Method for Accurate, High-Throughput Determination of Sr Isotope Ratios by Multiple Collector-Inductively Coupled Plasma-Mass Spectrometry. Analytical Chemistry, 2007, 79, 5023-5029. | 6.5 | 48 |
| 32 | Correlating surface cation composition and thin film microstructure with the electrochemical performance of lanthanum strontium cobaltite (LSC) electrodes. Journal of Materials Chemistry A, 2014, 2, 7099-7108. | 10.3 | 46 |
| 33 | The origin of conductivity variations in Al-stabilized Li7La3Zr2O12 ceramics. Solid State Ionics, 2018, 319, 203-208. | 2.7 | 46 |
| 34 | Solid solution hardening of vacancy stabilized Ti W1â^'B2. Acta Materialia, 2015, 101, 55-61. | 7.9 | 45 |
| 35 | Gas to particle distribution of low molecular weight dicarboxylic acids at two different sites in central Europe (Austria). Journal of Aerosol Science, 2005, 36, 991-1005. | 3.8 | 44 |
| 36 | Bioaccessibility of selected trace metals in urban PM2.5 and PM10 samples: a model study. Analytical and Bioanalytical Chemistry, 2008, 390, 1149-1157. | 3.7 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Bioaccessibility of palladium and platinum in urban aerosol particulates. Atmospheric Environment, 2012, 55, 213-219. | 4.1 | 42 |
| 38 | Quantitative LA-ICP-MS imaging of platinum in chemotherapy treated human malignant pleural mesothelioma samples using printed patterns as standard. Journal of Analytical Atomic Spectrometry, 2014, 29, 2159-2167. | 3.0 | 42 |
| 39 | Type I Interferon Response Dysregulates Host Iron Homeostasis and Enhances Candida glabrata Infection. Cell Host and Microbe, 2020, 27, 454-466.e8. | 11.0 | 41 |
| 40 | Application of dried-droplets deposited on pre-cut filter paper disks for quantitative LA-ICP-MS imaging of biologically relevant minor and trace elements in tissue samples. Analytica Chimica Acta, 2016, 908, 54-62. | 5.4 | 40 |
| 41 | Platinum and Palladium Emissions from On-Road Vehicles in the KaisermÃ¼hlen Tunnel (Vienna, Austria). Environmental Science & Technology, 2007, 41, 4938-4945. | 10.0 | 36 |
| 42 | In Situ Pt Photodeposition and Methanol Photooxidation on Pt/TiO<sub>2</sub>: Pt-Loading-Dependent Photocatalytic Reaction Pathways Studied by Liquid-Phase Infrared Spectroscopy. ACS Catalysis, 2020, 10, 2964-2977. | 11.2 | 33 |
| 43 | Effect of boron incorporation on the bioactivity, structure, and mechanical properties of ordered mesoporous bioactive glasses. Journal of Materials Chemistry B, 2020, 8, 1456-1465. | 5.8 | 32 |
| 44 | A novel flow-injection method for simultaneous measurement of platinum (Pt), palladium (Pd) and rhodium (Rh) in aqueous soil extracts of contaminated soil by ICP-OES. Journal of Analytical Atomic Spectrometry, 2013, 28, 354. | 3.0 | 31 |
| 45 | Toward the Recovery of Platinum Group Metals from a Spent Automotive Catalyst with Supported Ionic Liquid Phases. ACS Sustainable Chemistry and Engineering, 2021, 9, 375-386. | 6.7 | 31 |
| 46 | Seasonal variation of palladium, elemental carbon and aerosol mass concentrations in airborne particulate matter. Atmospheric Environment, 2004, 38, 1979-1987. | 4.1 | 30 |
| 47 | Microwave-assisted UV-digestion procedure for the accurate determination of Pd in natural waters. Analytica Chimica Acta, 2006, 575, 114-119. | 5.4 | 30 |
| 48 | Radial line-scans as representative sampling strategy in dried-droplet laser ablation of liquid samples deposited on pre-cut filter paper disks. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 123-129. | 2.9 | 30 |
| 49 | Multisensor Imagingâ€"From Sample Preparation to Integrated Multimodal Interpretation of LA-ICPMS and MALDI MS Imaging Data. Analytical Chemistry, 2018, 90, 8831-8837. | 6.5 | 30 |
| 50 | Local Li-ion conductivity changes within Al stabilized Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> and their relationship to three-dimensional variations of the bulk composition. Journal of Materials Chemistry A, 2019, 7, 6818-6831. | 10.3 | 30 |
| 51 | Increased carbohydrate production from carbon dioxide in randomly mutated cells of cyanobacterial strain Synechocystis sp. PCC 6714: Bioprocess understanding and evaluation of productivities. Bioresource Technology, 2019, 273, 277-287. | 9.6 | 30 |
| 52 | Determination of water soluble trace metals in airborne particulate matter using a dynamic extraction procedure with on-line inductively coupled plasma optical emission spectrometric detection. Analytica Chimica Acta, 2012, 750, 111-119. | 5.4 | 27 |
| 53 | Determination of Pt, Pd and Rh in Brassica Napus using solid sampling electrothermal vaporization inductively coupled plasma optical emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 89, 60-65. | 2.9 | 25 |
| 54 | Quantification of chloride in concrete samples using LA-ICP-MS. Cement and Concrete Research, 2016, 86, 78-84. | 11.0 | 25 |

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|---|---|---|---|
| 55 | Flow injection on-line pre-concentration of platinum coupled with electrothermal atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2004, 19, 1474. | 3.0 | 24 |
| 56 | Mass Concentration and Size-Distribution of Atmospheric Particulate Matter in an Urban Environment. Aerosol and Air Quality Research, 2017, 17, 1142-1155. | 2.1 | 24 |
| 57 | Metal analysis in polymers using tandem LA-ICP-MS/LIBS: eliminating matrix effects using multivariate calibration. Journal of Analytical Atomic Spectrometry, 2018, 33, 1631-1637. | 3.0 | 23 |
| 58 | Influence of Si on the oxidation behavior of TM-Si-B2Â±z coatings (TMÂ=ÂTi, Cr, Hf, Ta, W). Surface and Coatings Technology, 2022, 434, 128178. | 4.8 | 23 |
| 59 | Spatially resolved polymer classification using laser induced breakdown spectroscopy (LIBS) and multivariate statistics. Talanta, 2020, 209, 120572. | 5.5 | 22 |
| 60 | Toxic trace metals in size-segregated fine particulate matter: Mass concentration, respiratory deposition, and risk assessment. Environmental Pollution, 2020, 266, 115242. | 7.5 | 22 |
| 61 | Characterization of recombinant human diamine oxidase (rhDAO) produced in Chinese Hamster Ovary (CHO) cells. Journal of Biotechnology, 2016, 227, 120-130. | 3.8 | 21 |
| 62 | Anisotropic super-hardness of hexagonal WB<sub>2Â±z</sub> thin films. Materials Research Letters, 2022, 10, 70-77. | 8.7 | 21 |
| 63 | LA-ICP-MS of rare earth elements concentrated in cation-exchange resin particles for origin attribution of uranium ore concentrate. Talanta, 2015, 135, 41-49. | 5.5 | 20 |
| 64 | Fourier-Transform Infrared Imaging Spectroscopy and Laser Ablation -ICPMS New Vistas for Biochemical Analyses of Ischemic Stroke in Rat Brain. Frontiers in Neuroscience, 2018, 12, 647. | 2.8 | 20 |
| 65 | FI-ICP-OES determination of Pb in drinking water after pre-concentration using magnetic nanoparticles coated with ionic liquid. Microchemical Journal, 2019, 146, 339-344. | 4.5 | 20 |
| 66 | Investigating oxygen reduction pathways on pristine SOFC cathode surfaces by in situ PLD impedance spectroscopy. Journal of Materials Chemistry A, 2022, 10, 2305-2319. | 10.3 | 20 |
| 67 | Thermal stability and mechanical properties of boron enhanced Moâ€“Si coatings. Surface and Coatings Technology, 2015, 280, 282-290. | 4.8 | 19 |
| 68 | Ligand engineering of immobilized nanoclusters on surfaces: ligand exchange reactions with supported Au<sub>11</sub>(PPh<sub>3</sub>)<sub>7</sub>Br<sub>3</sub>. Nanoscale, 2020, 12, 12809-12816. | 5.6 | 19 |
| 69 | Identification of 20 polymer types by means of laser-induced breakdown spectroscopy (LIBS) and chemometrics. Analytical and Bioanalytical Chemistry, 2021, 413, 6581-6594. | 3.7 | 19 |
| 70 | Dispersed particle extractionâ€”A new procedure for trace element enrichment from natural aqueous samples with subsequent ICP-OES analysis. Talanta, 2013, 103, 145-152. | 5.5 | 18 |
| 71 | Extraction and pre-concentration of platinum and palladium from microwave-digested road dust via ion exchanging mesoporous silica microparticles prior to their quantification by quadrupole ICP-MS. Mikrochimica Acta, 2015, 182, 2369-2376. | 5.0 | 18 |
| 72 | Combined LA-ICP-MS/LIBS: powerful analytical tools for the investigation of polymer alteration after treatment under corrosive conditions. Scientific Reports, 2020, 10, 12513. | 3.3 | 18 |

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|---|---|---|---|
| 73 | Multivariate analysis and laser-induced breakdown spectroscopy (LIBS): a new approach for the spatially resolved classification of modern art materials. Analytical and Bioanalytical Chemistry, 2020, 412, 3187-3198. | 3.7 | 18 |
| 74 | Influence of Ta on the oxidation resistance of WB2â˜z coatings. Journal of Alloys and Compounds, 2021, 864, 158121. | 5.5 | 18 |
| 75 | Automation and miniaturization of an on-line flow injection Sr/matrix separation method for accurate, high throughput determination of Sr isotope ratios by MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2008, 23, 1388. | 3.0 | 17 |
| 76 | A metric for evaluation of the image quality of chemical maps derived from LA-ICP-MS experiments. Journal of Analytical Atomic Spectrometry, 2015, 30, 1809-1815. | 3.0 | 17 |
| 77 | Fourier Transform Infrared (FT-IR) and Laser Ablation Inductively Coupled Plasmaâ€“Mass Spectrometry (LA-ICP-MS) Imaging of Cerebral Ischemia: Combined Analysis of Rat Brain Thin Cuts Toward Improved Tissue Classification. Applied Spectroscopy, 2018, 72, 241-250. | 2.2 | 17 |
| 78 | Valorisation of cheese whey as substrate and inducer for recombinant protein production in E. coli HMS174(DE3). Bioresource Technology Reports, 2019, 8, 100340. | 2.7 | 17 |
| 79 | Investigating the electrochemical stability of Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> solid electrolytes using field stress experiments. Journal of Materials Chemistry A, 2021, 9, 15226-15237. | 10.3 | 17 |
| 80 | A GC-MS Method for the Determination of Polar Organic Compounds in Atmospheric Samples. International Journal of Environmental Analytical Chemistry, 1999, 73, 329-343. | 3.3 | 16 |
| 81 | Novel matrix separationâ€”on-line pre-concentration procedure for accurate quantification of palladium in environmental samples by isotope dilution inductively coupled plasma sector field mass spectrometry. Journal of Analytical Atomic Spectrometry, 2006, 21, 1287-1293. | 3.0 | 16 |
| 82 | On-line determination of water-soluble zinc in airborne particulate matter using a dynamic extraction procedure coupled to flame atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2010, 25, 1056. | 3.0 | 15 |
| 83 | Development of an ETV-ICP-OES procedure for assessment of bio-accessible trace metal fractions in airborne particulate matter. Journal of Analytical Atomic Spectrometry, 2011, 26, 2081. | 3.0 | 15 |
| 84 | The suitability of extraction solutions to assess bioaccessible trace metal fractions in airborne particulate matter: a comparison of common leaching agents. Environmental Science and Pollution Research, 2015, 22, 16620-16630. | 5.3 | 15 |
| 85 | Direct imaging of elemental distributions in tissue sections by laser ablation mass spectrometry. Methods, 2016, 104, 86-92. | 3.8 | 15 |
| 86 | FTIR-spectroscopic and LA-ICP-MS imaging for combined hyperspectral image analysis of tumor models. Analytical Methods, 2017, 9, 5464-5471. | 2.7 | 15 |
| 87 | Selective Hydrogenation of Aldehydes Using a Wellâ€Đefined Fe(II) PNP Pincer Complex in Biphasic Medium. ChemCatChem, 2018, 10, 4386-4394. | 3.7 | 15 |
| 88 | Electron-configuration stabilized (W,Al)B2 solid solutions. Acta Materialia, 2019, 174, 398-405. | 7.9 | 15 |
| 89 | Outstanding Oxygen Reduction Kinetics of La<sub>0.6</sub>Sr<sub>0.4</sub>FeO<sub>3â˜Î´</sub> Surfaces Decorated with Platinum Nanoparticles. Journal of the Electrochemical Society, 2020, 167, 104514. | 2.9 | 15 |
| 90 | Ca-doped rare earth perovskite materials for tailored exsolution of metal nanoparticles. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 1055-1070. | 1.1 | 15 |

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| 91 | Oxidation behavior and tribological properties of multilayered Ti-Al-N/Mo-Si-B thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, . | 2.1 | 14 |
| 92 | Type I Interferons Ameliorate Zinc Intoxication of Candida glabrata by Macrophages and Promote Fungal Immune Evasion. IScience, 2020, 23, 101121. | 4.1 | 14 |
| 93 | Benign recovery of platinum group metals from spent automotive catalysts using choline-based deep eutectic solvents. Green Chemistry Letters and Reviews, 2022, 15, 404-414. | 4.7 | 14 |
| 94 | Determination of trace metal fractionation in aqueous solutions using a solid phase extraction flow injection system on-line coupled to ICP-AES. Journal of Analytical Atomic Spectrometry, 2009, 24, 1434. | 3.0 | 13 |
| 95 | Solution-based low-temperature synthesis of germanium nanorods and nanowires. Monatshefte FÃ¼r Chemie, 2018, 149, 1315-1320. | 1.8 | 13 |
| 96 | Multi-element analysis of size-segregated fine and ultrafine particulate via Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry. Analytica Chimica Acta, 2018, 1043, 11-19. | 5.4 | 13 |
| 97 | Glossary of methods and terms used in analytical spectroscopy (IUPAC Recommendations 2019). Pure and Applied Chemistry, 2021, 93, 647-776. | 1.9 | 13 |
| 98 | Point defects at cleaved<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:mi>n</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> surfaces. Physical Review B, 2014, 90, . | 3.2 | 12 |
| 99 | Development of a multi-variate calibration approach for quantitative analysis of oxidation resistant Moâ€“Siâ€“B coatings using laser ablation inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 120, 57-62. | 2.9 | 12 |
| 100 | Conductive AFM and chemical analysis of highly conductive paths in DC degraded PZT with Ag/Pd electrodes. Solid State Ionics, 2013, 244, 5-16. | 2.7 | 11 |
| 101 | Quantitative analysis of trace elements in environmental powders with laser ablation inductively coupled mass spectrometry using non-sample-corresponding reference materials for signal evaluation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 63-69. | 2.9 | 11 |
| 102 | Online-LASIL: Laser Ablation of Solid Samples in Liquid with online-coupled ICP-OES detection for direct determination of the stoichiometry of complex metal oxide thin layers. Analytica Chimica Acta, 2018, 1000, 93-99. | 5.4 | 11 |
| 103 | Elemental mapping of fluorine by means of molecular laser induced breakdown spectroscopy. Analytica Chimica Acta, 2022, 1195, 339422. | 5.4 | 11 |
| 104 | Liquidâ€•and Solidâ€based Separations Employing Ionic Liquids for the Recovery of Platinum Group Metals Typically Encountered in Catalytic Converters: A Review. ChemSusChem, 2022, 15, . | 6.8 | 11 |
| 105 | A new approach for the determination of silicon in airborne particulate matter using electrothermal atomic absorption spectrometry. Analytica Chimica Acta, 2009, 646, 17-22. | 5.4 | 10 |
| 106 | Characterization of rhinovirus subviral A particles via capillary electrophoresis, electron microscopy and gas phase electrophoretic mobility molecular analysis: Part II. Electrophoresis, 2013, 34, 1600-1609. | 2.4 | 10 |
| 107 | Dynamic etching of soluble surface layers with on-line inductively coupled plasma mass spectrometry detection â€“ a novel approach for determination of complex metal oxide surface cation stoichiometry. Journal of Analytical Atomic Spectrometry, 2016, 31, 1638-1646. | 3.0 | 10 |
| 108 | Facile synthesis of Al-stabilized lithium garnets by a solution-combustion technique for all solid-state batteries. Materials Advances, 2021, 2, 5181-5188. | 5.4 | 10 |

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|---|---|---|---|
| 109 | Correlation of Î¼XRF and LA-ICP-MS in the analysis of a human bone-cartilage sample. Journal of Analytical Atomic Spectrometry, 2021, 36, 1512-1523. | 3.0 | 10 |
| 110 | Determination of rare earth elements in saline matrices using dispersed particle extraction and inductively coupled plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 1329-1337. | 1.5 | 9 |
| 111 | Prediction of filamentous process performance attributes by CSL quality assessment using mid-infrared spectroscopy and chemometrics. Journal of Biotechnology, 2018, 265, 93-100. | 3.8 | 9 |
| 112 | A Combined Deep Eutectic Solventâ€“Ionic Liquid Process for the Extraction and Separation of Platinum Group Metals (Pt, Pd, Rh). Molecules, 2021, 26, 7204. | 3.8 | 9 |
| 113 | Self-aliquoting micro-grooves in combination with laser ablation-ICP-mass spectrometry for the analysis of challenging liquids: quantification of lead in whole blood. Analytical and Bioanalytical Chemistry, 2016, 408, 5671-5676. | 3.7 | 8 |
| 114 | On-line dynamic extraction system hyphenated to inductively coupled plasma optical emission spectrometry for automatic determination of oral bioaccessible trace metal fractions in airborne particulate matter. Analytical and Bioanalytical Chemistry, 2017, 409, 2747-2756. | 3.7 | 8 |
| 115 | Strategies for trace metal quantification in polymer samples with an unknown matrix using Laser-Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 183, 106272. | 2.9 | 8 |
| 116 | Bioparticles coated with an ionic liquid for the pre-concentration of rare earth elements from microwave-digested tea samples and the subsequent quantification by ETV-ICP-OES. Analytical Methods, 2016, 8, 7808-7815. | 2.7 | 7 |
| 117 | Simple robust estimation of uranium isotope ratios in individual particles from LA-ICP-MS measurements. Journal of Analytical Atomic Spectrometry, 2017, 32, 1155-1165. | 3.0 | 7 |
| 118 | ETV-ICP-OES analysis of trace elements in fly-ash samples - A fast and easy way for simplified routine determination. Microchemical Journal, 2018, 137, 496-501. | 4.5 | 7 |
| 119 | Quantitative analysis of gadolinium doped cerium oxide thin films via online-LASIL-ICP-OES. Journal of Analytical Atomic Spectrometry, 2019, 34, 2333-2339. | 3.0 | 7 |
| 120 | Quantitative imaging of structured complex metal oxide thin films using online-LASIL-ICP-MS. Talanta, 2020, 217, 121012. | 5.5 | 7 |
| 121 | Multisensor hyperspectral imaging approach for the microchemical analysis of ultramarine blue pigments. Scientific Reports, 2022, 12, 707. | 3.3 | 7 |
| 122 | Revisiting the fission track method for the analysis of particles in safeguards environmental samples. Talanta, 2017, 167, 583-592. | 5.5 | 6 |
| 123 | Laser based analysis of transition metal boride thin films using liquid standards. Microchemical Journal, 2020, 152, 104449. | 4.5 | 6 |
| 124 | Application of micro-dried droplets for quantitative analysis of particulate inorganic samples with LA-ICP-MS demonstrated on surface-modified nanoparticle TiO2 catalyst materials. Mikrochimica Acta, 2020, 187, 641. | 5.0 | 6 |
| 125 | Spatially resolved stoichiometry determination of Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> solid-state electrolytes using LA-ICP-OES. Journal of Analytical Atomic Spectrometry, 2020, 35, 972-983. | 3.0 | 6 |
| 126 | Cytotoxicity, Retention, and Anti-inflammatory Effects of a CeO<sub>2</sub> Nanoparticle-Based Supramolecular Complex in a 3D Liver Cell Culture Model. ACS Pharmacology and Translational Science, 2021, 4, 101-106. | 4.9 | 6 |

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|---|---|---|---|
| 127 | Performance modulation through selective, homogenous surface doping of lanthanum strontium ferrite electrodes revealed by in situ PLD impedance measurements. Journal of Materials Chemistry A, 2022, 10, 2973-2986. | 10.3 | 6 |
| 128 | A new approach for determination of crustal and trace elements in airborne particulate matter. International Journal of Environmental Analytical Chemistry, 2012, 92, 496-508. | 3.3 | 5 |
| 129 | Quantitative analysis of the platinum surface decoration on lanthanum strontium iron oxide thin films via online-LASIL-ICP-MS. Microchemical Journal, 2021, 166, 106236. | 4.5 | 5 |
| 130 | Particulate Emissions from On-Road Vehicles. Environmental Science and Engineering, 2010, , 63-79. | 0.2 | 5 |
| 131 | Unravelling the Origin of Ultraâ€Low Conductivity in SrTiO<sub>3</sub> Thin Films: Sr Vacancies and Ti on Aâ€Sites Cause Fermi Level Pinning. Advanced Functional Materials, 2022, 32, . | 14.9 | 5 |
| 132 | Comparison of the extraction efficiencies of different leaching agents for reliable assessment of bio-accessible trace metal fractions in airborne particulate matter. E3S Web of Conferences, 2013, 1, 05001. | 0.5 | 4 |
| 133 | Analysis of single fly ash particles using laser ablation ICP-MS â€“ an approach achieving lateral elemental distribution information via imaging. RSC Advances, 2017, 7, 20510-20519. | 3.6 | 4 |
| 134 | Tailored and deep porosification of LTCC substrates with phosphoric acid. Journal of the European Ceramic Society, 2019, 39, 3112-3119. | 5.7 | 4 |
| 135 | Cation non-stoichiometry in Fe:SrTiO<sub>3</sub> thin films and its effect on the electrical conductivity. Nanoscale Advances, 2021, 3, 6114-6127. | 4.6 | 4 |
| 136 | Growth of LixLaySrzMnO3 thin films by pulsed laser deposition: complex relation between thin film composition and deposition parameters. Applied Physics A: Materials Science and Processing, 2021, 127, 473. | 2.3 | 4 |
| 137 | New Analysis Method for the Accurate Determination of Chloride Content in the Cement Phase of Concrete. , 2015, , . | | 3 |
| 138 | Determination of residual chloride content in ionic liquids using LA-ICP-MS. RSC Advances, 2016, 6, 90273-90279. | 3.6 | 3 |
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