Abbreviations

AAS	Atomic absorption spectrometry
AES	Atomic emission spectrometry
AFS	Atomic fluorescence spectrometry
AgDDC	Silver diethyldithiocarbamate
AOAC	Association of Official Analytical Chemists
APDC	Ammonium pyrrolidine dithiocarbamate
AsB	Arsenobetaine
CCD	Charge coupled device
CE	Capillary electrophoresis
CEC	Capillar electrochromatography
CID	Charge injection device
CM	Chemical modifier
CRM	Certified reference material
CTD	Charge transfer device
CV-ICP-MS	Cold vapour inductively coupled plasma mass spectrometry
DAN	Diaminonaphtalene
DBT	Di-butyl tin
DCP	Direct current plasma
DDTC	Diethydithiocarbamate
DL	Detection limit
DMA	Dimethylarsinate
ECD	Electron capture detector
EDXRF	Energy dispersive X-ray fluorescence
EG	Electrochemical generation
EIE	Easily ionizable elements
ES	Electrospray
ETAAS	Electrothermal atomic absorption spectrometry
ETV	Electrothermal vaporizer
FAAS	Flame atomic absorption spectrometry
FAES	Flame atomic emission spectrometry
FAFS	Flame atomic fluorescence spectrometry
FI	Flow injection
FID	Flame ionization detector
FT	Fourier transform
FWHM	Full width at half maximum

GC	Gas chromatography
GC-AES	Gas chromatography-atomic emission spectrometry
GD	Glow discharge
GFAAS	Graphite furnace atomic absorption spectrometry
GLC	Gas liquid chromatography
HEPA	High efficiency particulate air
HG	Hydride generation
HGAAS	Hydride generation atomic absorption spectrometry
HG-AFS	Hydride generation atomic fluorescence spectrometry
HG-ICP-MS	Hydride generation Inductively coupled plasma mass spectrometry
HG-ICP-OES	Hydride generation Inductively coupled plasma optical emission spectrometry
HPLC	High pressure liquid chromatography
IBMK	Isobutylmethylketone
IC	Ion chromatography
ICP	Inductively coupled plasma
ICP-MS	Inductively coupled plasma mass spectrometry
ICP-OES	Inductively coupled plasma optical emission spectrometry
ICR-MS	Ion cyclotron resonance mass spectrometry
ID	Isotope dilution
IEC	Ion exchange chromatography
IFNAA	Instrumental fast neutron activation analysis
INAA	Instrumental neutron activation analysis
IR	Infrared
ISE	Ion selective electrode
IUPAC	International Union of Pure and Applied Chemistry
LA	Laser ablation
LC	Liquid chromatography
LEAF	Laser excited atomic fluorescence
LOD	Limit of detection
LOQ	Limit of quantitation
MAA	Molecular activation analysis
MALDI	Matrix assisted laser desorption ionization
MIBK	Methylisobutylketone
MIP	Microwave induced plasma
MIP-AES	Microwave induced plasma - atomic emission spectrometry
MM	Matrix modifier
MMA	Monomethylarsonate
MS	Mass spectrometry
MW	Microwave
MWD	Microwave digestion
NAA	Neutron activation analysis
NIST	National Institute of Standards and Technology
OES	Optical emission spectrometry
PDA	Photodiode array

PFA	Perfluoroalkoxyfluorocarbon
PGAA	Prompt gamma activation analysis
PIXE	Particle induced X-ray emission
PTFE	Polytetrafluoroethylene
Q	Quadrupole
QA	Quality assurance
QC	Quality control
QMA	Quadrupole mass analyzer
REE	Rare earth elements
RF	Radio frequency
RSD	Relative standard deviation
S/N	Signal to noise ratio
SDS-PAGE	Sodium dodecylsulfate polyacrylamide gel electrophoresis
SEC	Size exclusion chromatography
SFC	Supercritical fluid chromatography
SP	Spectrophotometry
SPME	Solid phase micro extraction
SR	Synchroton radiation
SRM	Standard reference material
SRXRF	Synchroton radiation X-ray fluorescence
SSMS	Spark source mass spectrometry
SXRF	Synchroton X-ray fluorescence
TBT	Tributyl tin
TCA	Trichloroacetic acid
TCD	Thermal conductivity detector
THF	Tetrahydrofuran
THGA	Transversely heated graphite atomizer
TIMS	Thermal ionization mass spectrometry
TMAH	Trimetylammonium hydroxide
TOF	Time of flight
TOF-MS	Time of flight mass spectrometry
TXRF	Total reflection XRF
USN	Ultrasonic nebulisation
UV	Ultraviolet
VIS	Visible
WDXRF	Wavelength dispersive X-ray fluorescence
XRF	X-ray fluorescence