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CHAPTER 2 EXPERIMENTAL

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ABBREVIATIONS AND SYMBOLS

AAS	atomic absorption spectrometry
AE	auxiliary or counter electrode
AFS	atomic fluorescence spectrometry
ASV	anodic stripping voltammetry
Ba	barium
BiCCE	cleaved bismuth capillary electrode
BiFE	bismuth film electrode
C_A	concentration of analyte
Cd	cadmium
COPD	chronic obstructive pulmonary disease
Cu	copper
C_L	concentration at limit of detection
cm	centimeter
DPASV	differential pulse anodic stripping voltametry
FC	electrochemical flow cell
FIA, FI	flow injection analysis
g	gram
GCE	glassy carbon working electrode
HDME	hanging drop mercury electrode
Hg	mercury

Hz	Hertz
i_d	diffusion current
ICP-OES	inductively coupled plasma-optical emission spectrometry
ICP-MS	inductively coupled plasma-mass spectrometry
L	liter
Mn	manganese
µA	microampere
µM	micro molar
µg/L	microgram per liter
mg/L	milligram per liter
mL	milliliter
mL/min	milliliter per minute
mm	millimeter
M	Molarity
Ni	nickel
Pb	lead
PC	personal computer
RE	reference electrode
RSD	relative standard deviation
%RSD	percentage relative standard deviation
s	second
SD	standard deviation
Se	selenium

SWASV	square wave anodic stripping voltammetry
SIA	sequential injection analysis
SI-LOV	sequential injection lab-on-valve
SI-MSFA	sequential injection monosegmented flow analysis
V	voltage
WE	working electrode
$\bar{x}$	mean
Zn	zinc