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ABBREVIATIONS AND SYMBOLS

AAS	atomic absorption spectrometry
AES	atomic emission spectrometry
Aq.	aqueous phase
BB	bromothymol blue
BC	back pressure coil
Co	cobalt
conc.	concentration
D	detector
EC	extraction coil
FIA	flow injection analysis
FTIR	fourier transform infrared
GC	gas chromatography
HB	hyoscine butylbromide
HPLC	high-performance liquid chromatography
I	injection valve
i.d.	inner diameter
LAS	linear alkylbenzene sulfonate
MB	methylene blue
MC	mixing coil
Mn	manganese
MS	mass spectrometry
NAA	neutron activation analysis
No.	number
Org.	organic phase
P	pump
PAR	4-(2-pyridylazo)resorcinol
PS	phase separator
PTFE	polytetrafluoroethylene
R	recorder
REEs	rare earth elements
RSD	relative standard deviation
S	sample
SDS	sodium dodecylsulphate
SLS	sodium laurylsulphate
ST	segmentor
Std.	standard
temp.	temperature

TPS	tetrapropylenebenzene sulfonate
v/v	volume by volume
W	waste
w/v	weight by volume
Y	yttrium
ϵ	molar absorptivity
λ_{anal}	analytical wavelength

มหาวิทยาลัยเชียงใหม่
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