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LIST OF ABBREVIATIONS AND SYMBOLS

d	equivalent spherical particle diameter
F_L	lift force
g	gravitational acceleration constant
R	retention ratio
t_o	void time
t_r	retention time
t_s	settling time
t_{relax}	sample relaxation time
U	settling velocity
V^o	void volume
V_r	retention volume
$v_{(x)}$	velocity at distance x
v_r	fluid velocity vector at the center of the particle
$\langle v \rangle$	mean fluid velocity
w	channel thickness
x	distance from the lower accumulation wall
η	viscosity of fluid
γ	correction factor for particle migration
δ	distance between the particle and the wall
$\Delta\rho$	density difference between the particle and the fluid
S_d	size-based selectivity
LSC	liquid scintillation counter
GrFFF	gravitational field-flow fractionation
ETAAS	electrothermal atomic absorption spectrometry
r-FIA-CL	reverse flow injection with chemiluminescence detection
FAAS	flame atomic absorption spectrometry
ICP-MS	inductively coupled plasma mass spectrometry