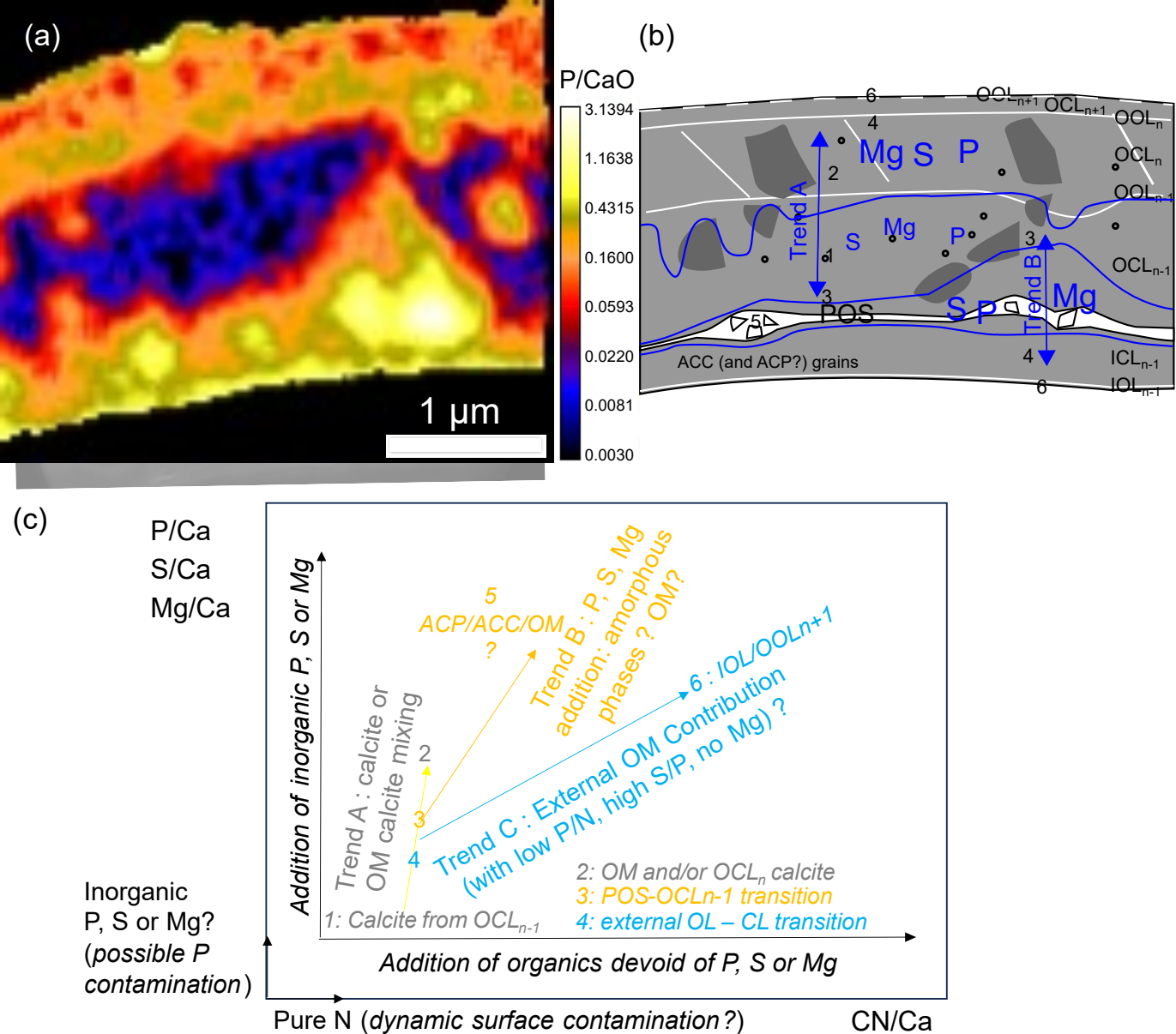

(a)
1 µm
P/CaO
3.1394
1.1638
0.4315
0.1600
0.0593
0.0220
0.0081
0.0030
(b)
Mg S P
S Mg P
POS
S P Mg
Trend A
Trend B
ACC (and ACP?) grains
(c)
P/Ca
S/Ca
Mg/Ca
Addition of inorganic P, S or Mg
Addition of organics devoid of P, S or Mg
Trend A : calcite or OM calcite mixing
5 ACP/ACC/OM ?
Trend B : P, S, Mg addition: amorphous phases ? OM?
6 : IOL/OOLn+1
Trend C : External OM Contribution (with low P/N, high S/P, no Mg) ?
1: Calcite from OCLn-1
2: OM and/or OCLn calcite
3: POS-OCLn-1 transition
4: external OL – CL transition
Inorganic P, S or Mg? (possible P contamination)
Pure N (dynamic surface contamination?)
CN/Ca