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Comparison of atmospheric new particle formation events in three Central European cities

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1	Comparison of atmospheric new particle formation events
2	in three Central European cities
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14	
15	Keywords: urban environment, ultrafine particles, new particle formation, particle number
16	concentration, particle number size distribution, nucleation strength factor
17	
18	Highlights
19	> 2-year long particle number size distribution measurements were performed in the three
20	Central European capital cities of Budapest, Vienna, and Prague
21	> adapted classification scheme for NPF studies in urban environments is presented
22	> coincidence of new particle formation events was evaluated
23	➤ gas-phase H ₂ SO ₄ proxy showed differences on nucleation and non-nucleation days
24	> particle number concentrations and nucleation strength factors were compared
25	Abstract
26	Simultaneous particle number size distribution measurements were performed in the urban
27	environment of Budapest, Vienna, and Prague, three Central European cities located within 450
28	km of each other. The measurement days from the continuous, 2-year long campaign were
29	classified for new particle formation (NPF) events using an adapted classification scheme for

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