





25th ETH-Conference on Combustion Generated Nanoparticles

Determining the contribution of noncombustion sources by the fine PM source apportionment results in Tehran, Iran



Maryam Zare Shahne June 2022

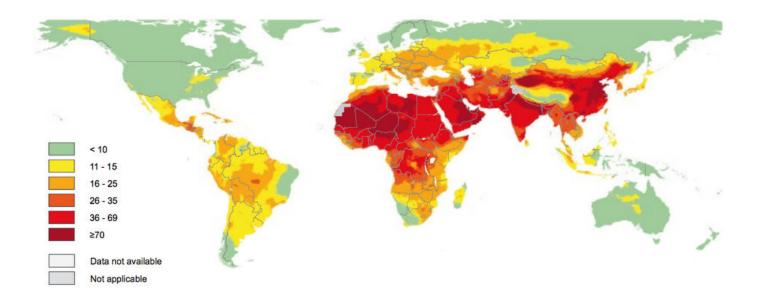


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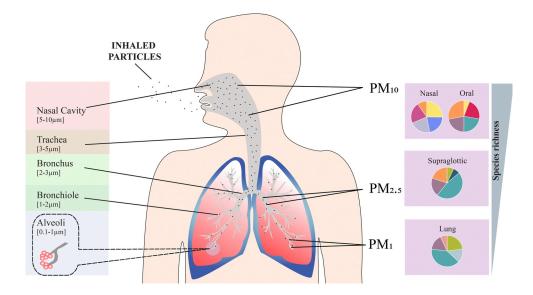


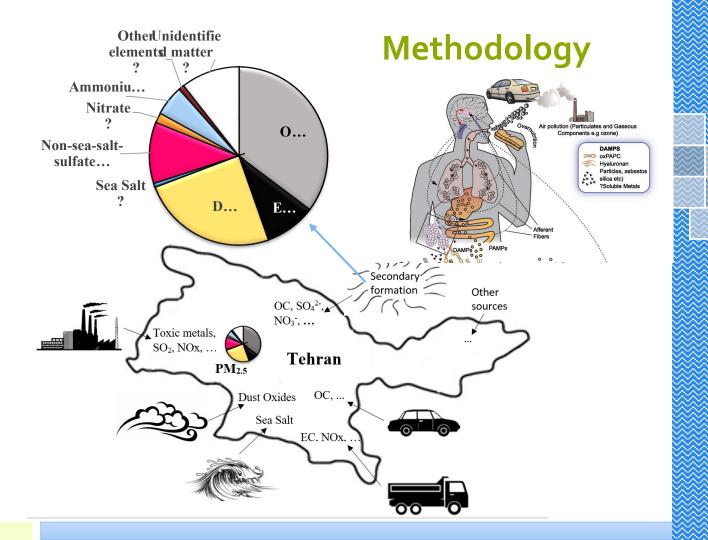
Introduction





Introduction

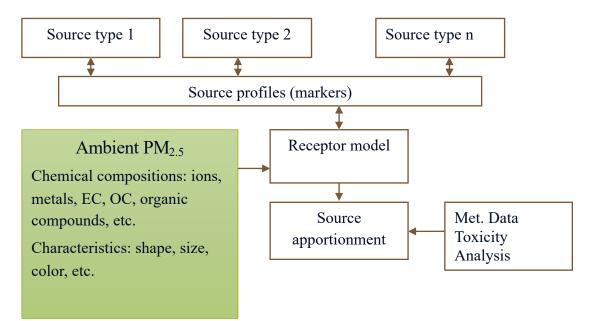






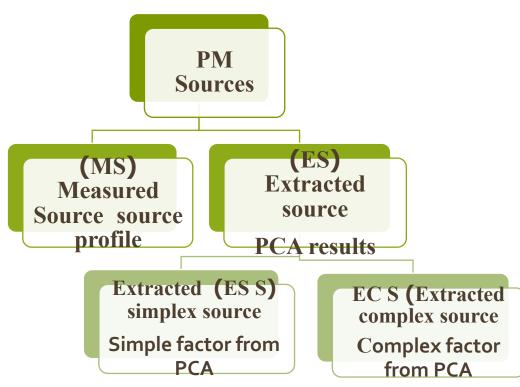


Methodology



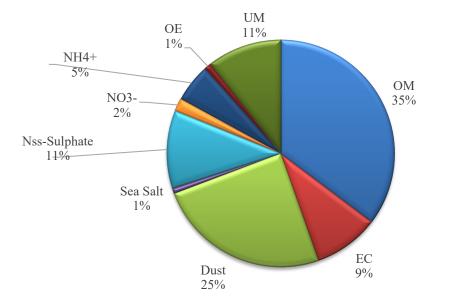


Methodology





Results





Results

Factor	Variance explained (%)	Determining elements ^{a,b}	Factor name
1	48	Al, Si, Y, La, Eu, Dy, Ho, Sc, Ti, Ce, Pr, Nd, Sm, Yb, Lu, Th, Fe, Co, Mg, U, Nb, Pd, Sr, Rb, P,Cr, Ba, Li , Mn , Cs, W, ws Na, ws Ca, Mo, SO ₄ ²⁻	Re-suspended soil
2	18		Heavy fuels combustion, metal abrasion and tire wears, lubricating oil and local industries
3	7	WIOC, NH ⁴ , ws K, SO ²⁻ , NO ³ , WSOC	Light duty Vehicular sources
4	4	<i>Pt</i> , Mo Zn, V, Ni	Local industries
5	4	EC, ws Ca, ws Na, Ba, WSOC	Heavy duty vehicles



Thank you for your attention!

Maryam Zare Shahne, Ph.D.

Assistant Professor Department of Civil Engineering Khaje-Nasi Toosi University of Technology, Tehran, Iran Email: <u>Maryam_zare@kntu.ac.ir</u> Tel: +98-9122098876

M. Zare, , 25 th ETH conference