

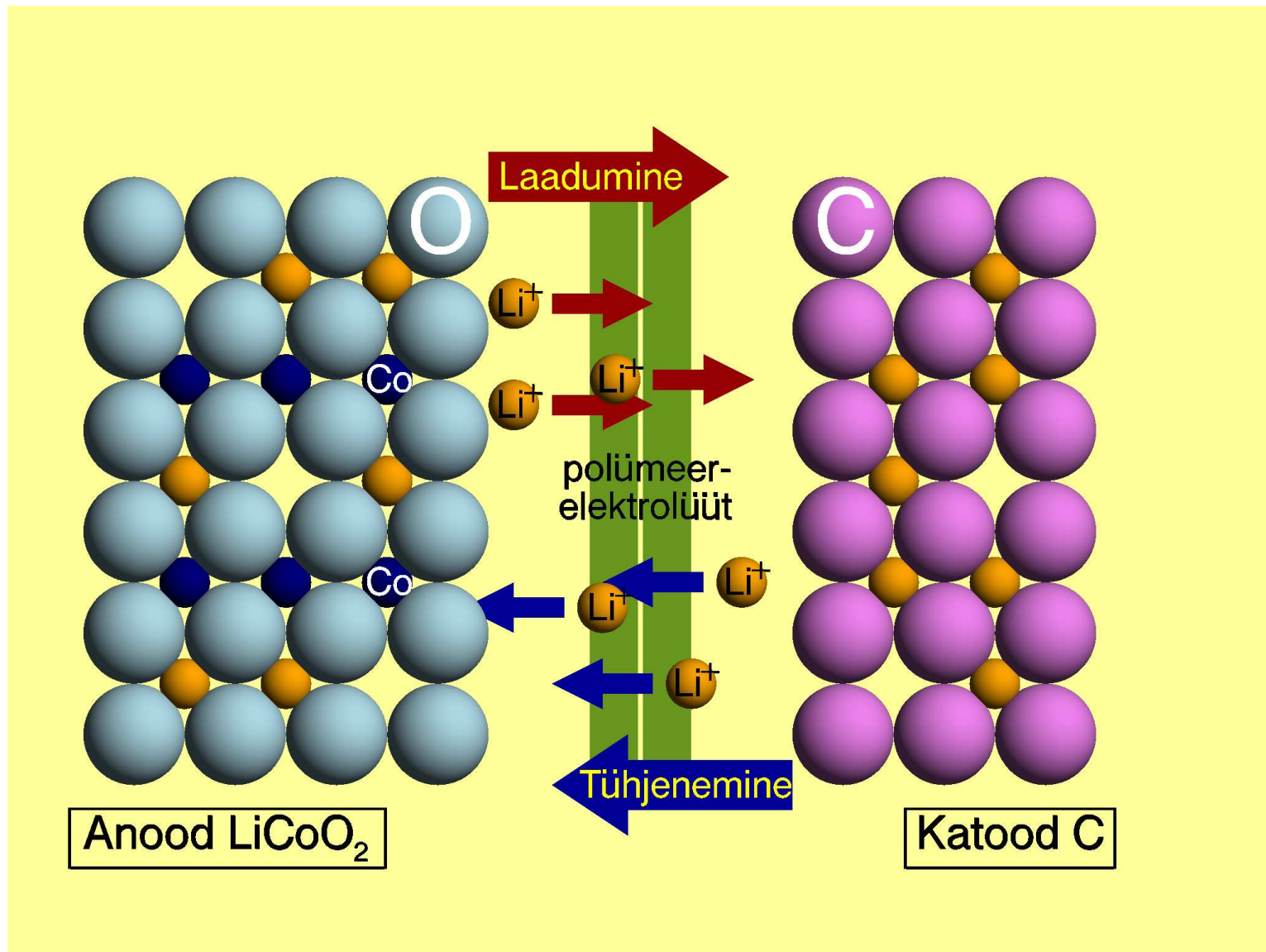
Branched polyethylene/poly(ethylene oxide) as a host matrix for Li-ion battery electrolytes: an MD study

Daniel Brandell, Priit Priimägi, Heiki Kasemägi, Alvo Aabloo

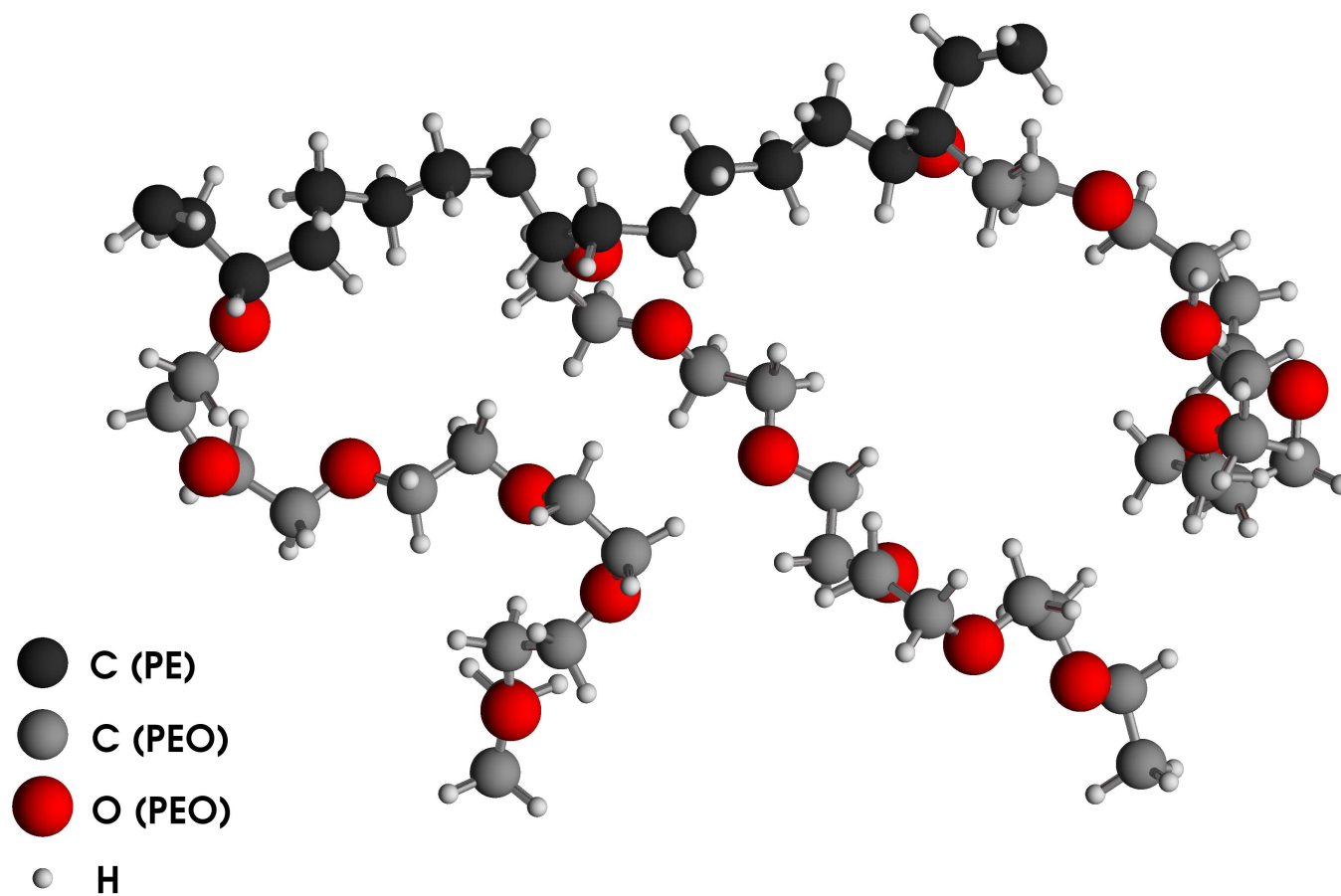
Department of Materials Chemistry, Uppsala University

Tehnoloogiainstituut, Tartu Ülikool

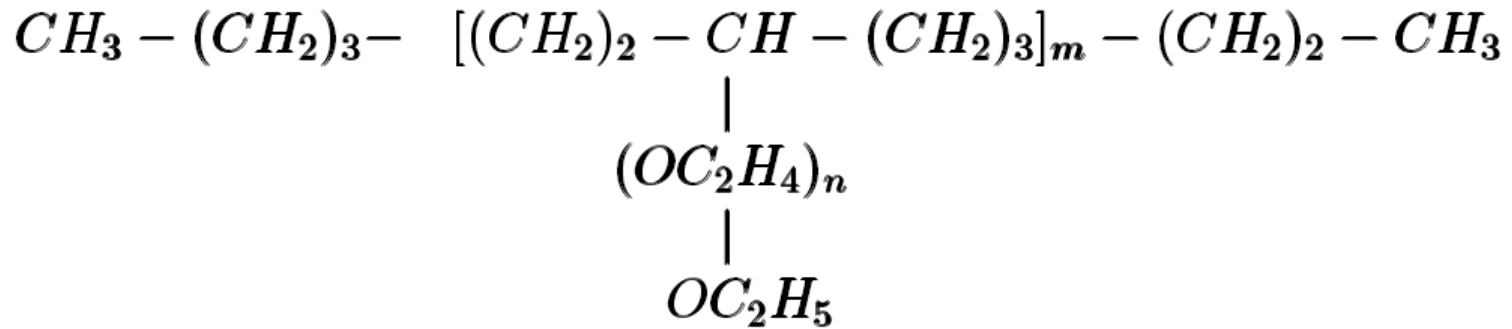
liitiumioon-polümeeraraku



PE/PEO/LiPF₆

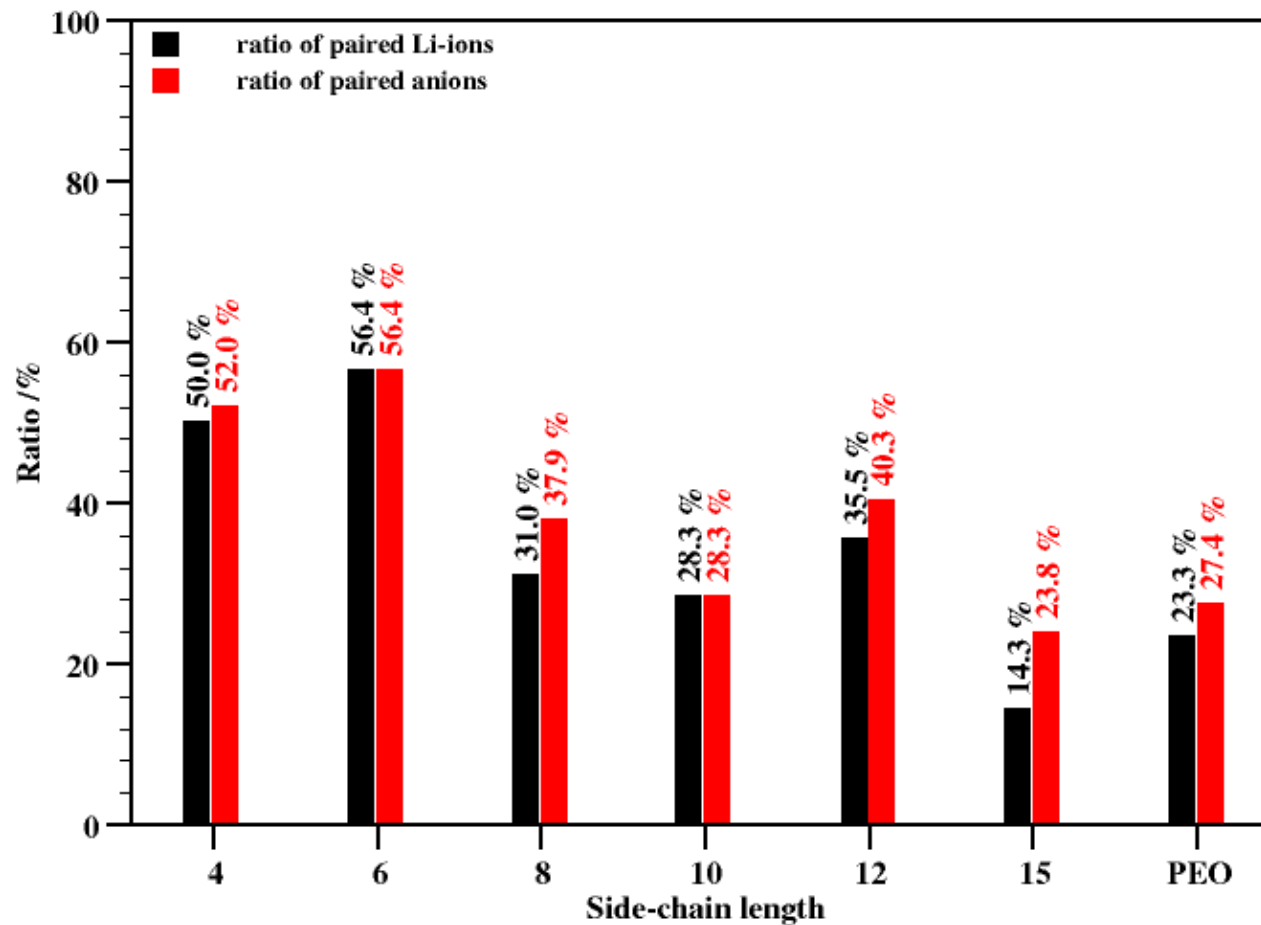


simuleeritud süsteemid

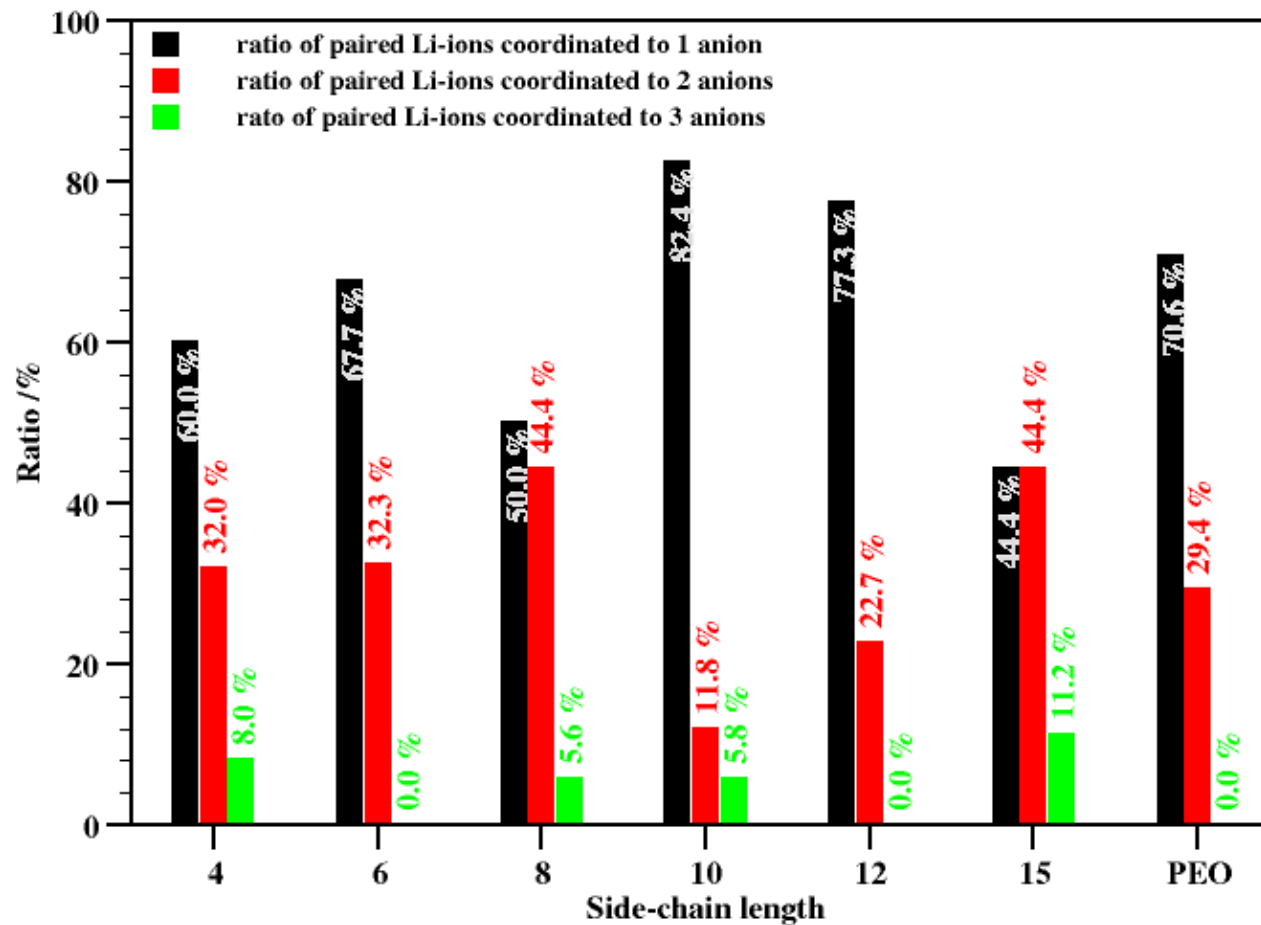


system	4	6	8	10	12	15	PEO
n	3	5	7	9	11	14	878
No. of Li	50	55	58	60	62	65	73
m	148	110	88	73	62	51	
Li:O _{eth}	11.84	12.0	12.14	12.17	12.00	12.14	12.03

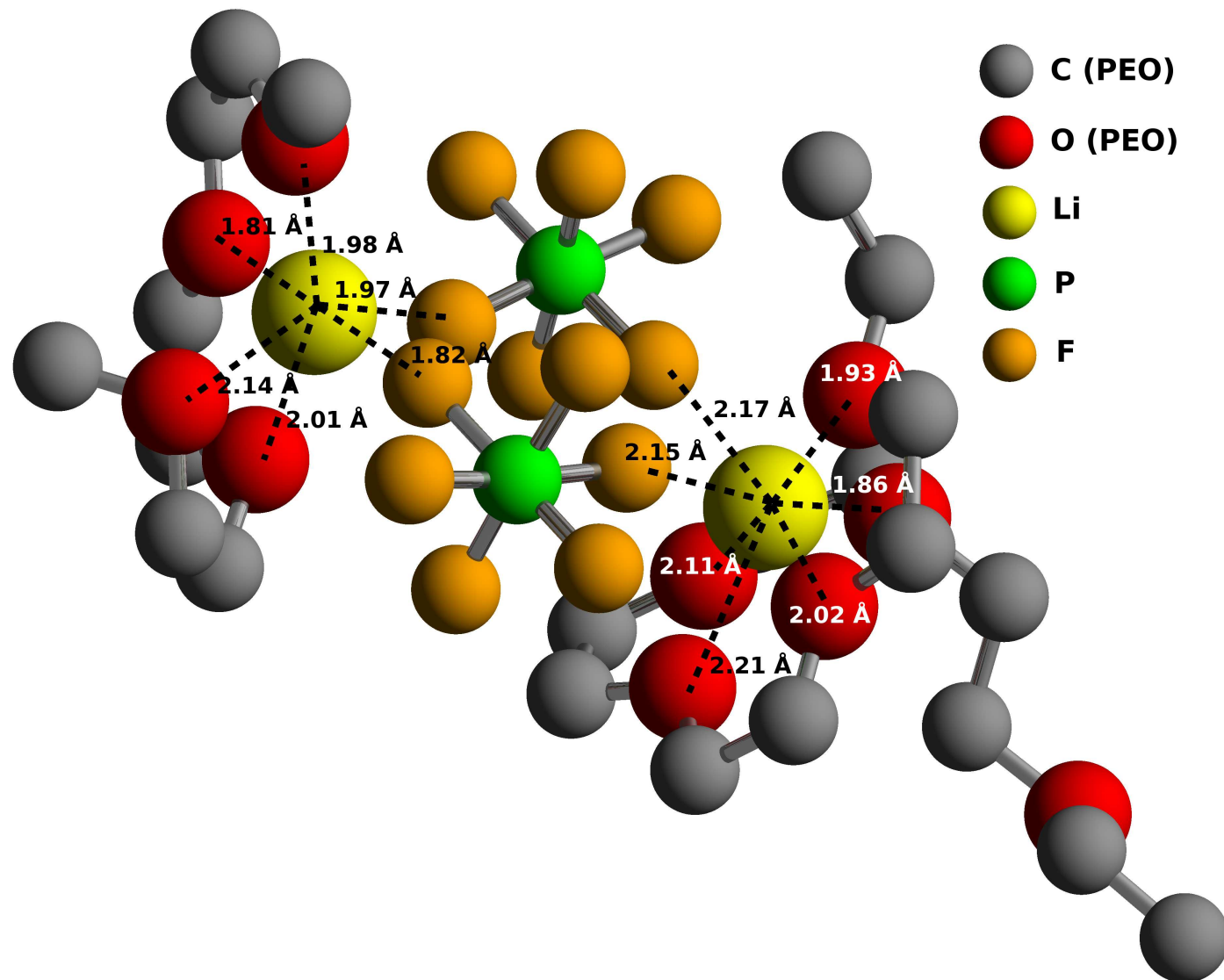
soola paardumine



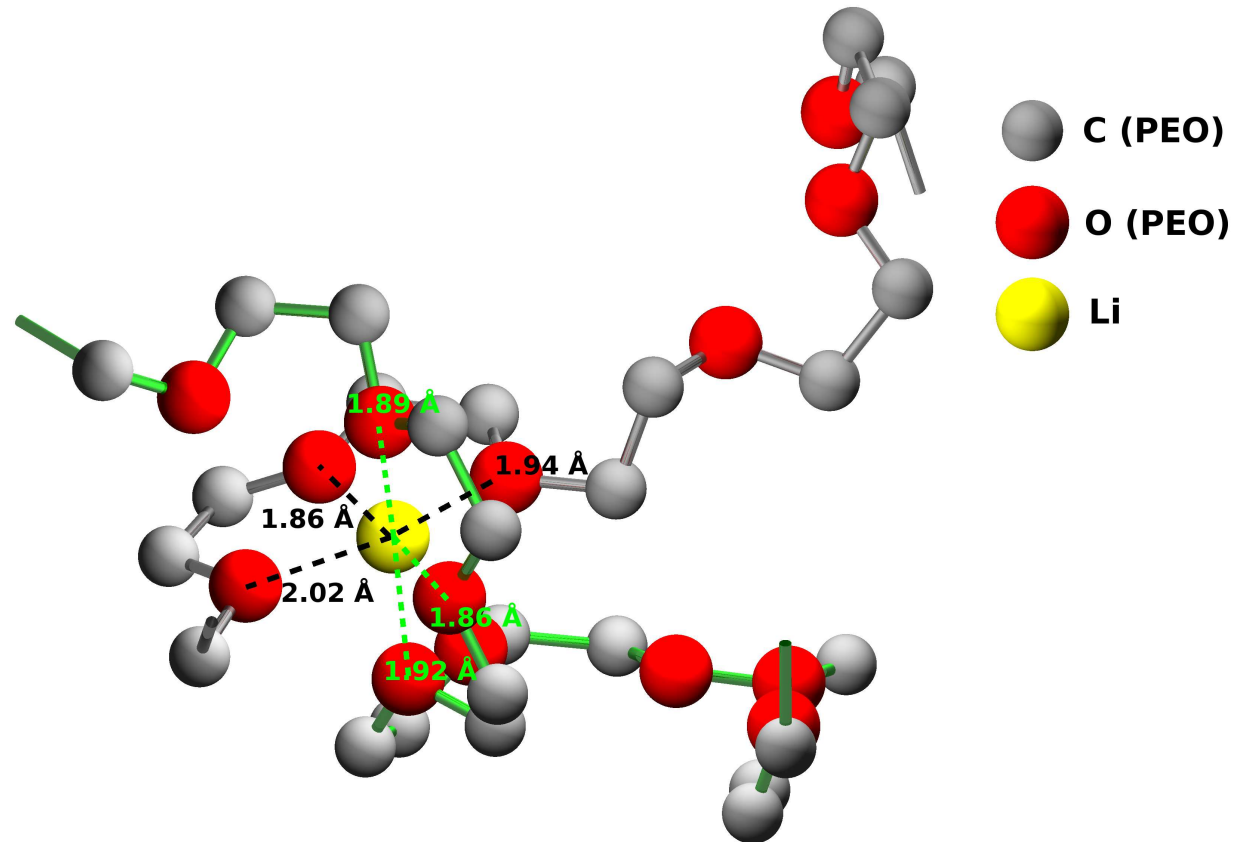
soola paardumine 2



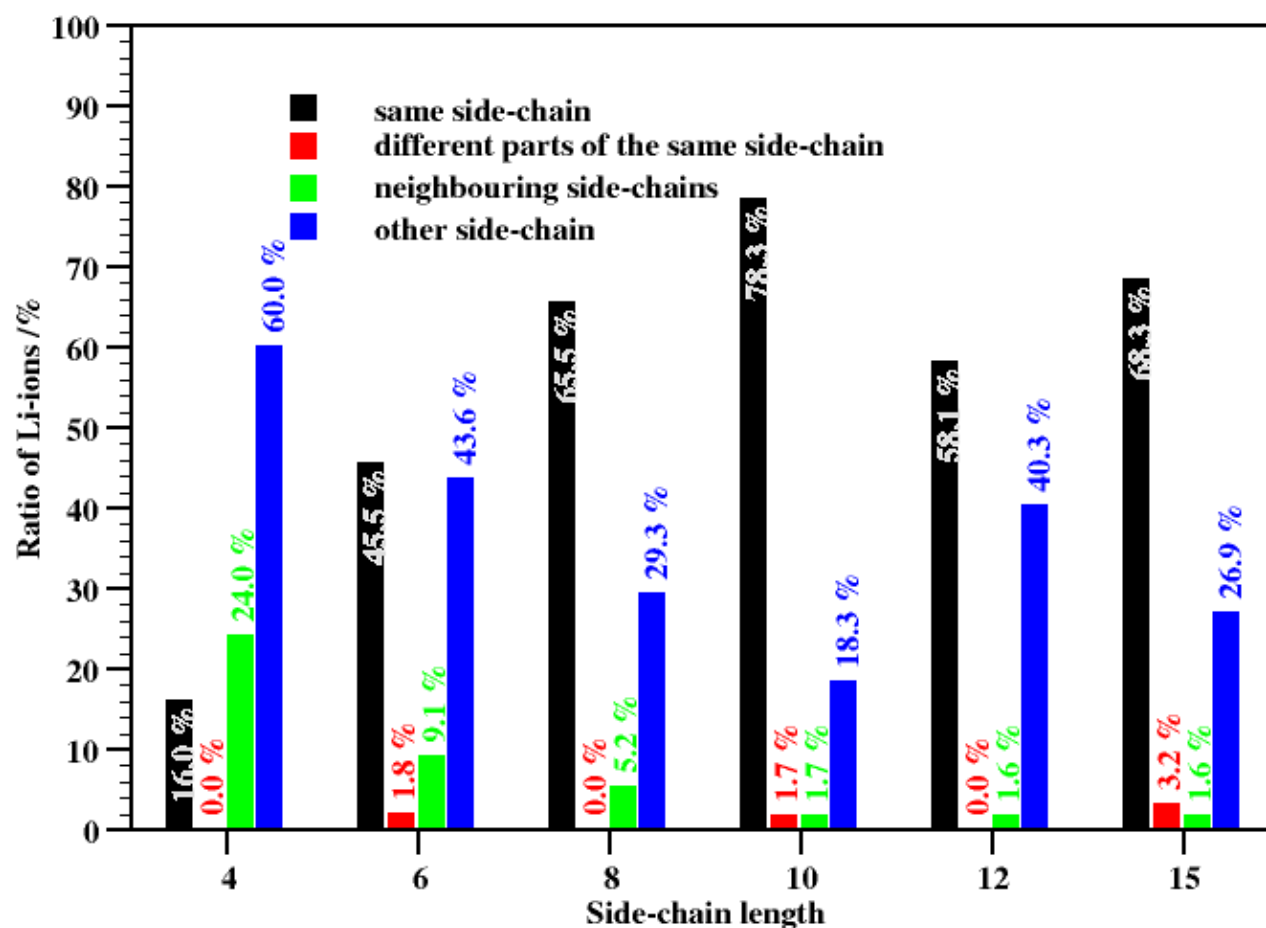
tüüpiline soolaklaster



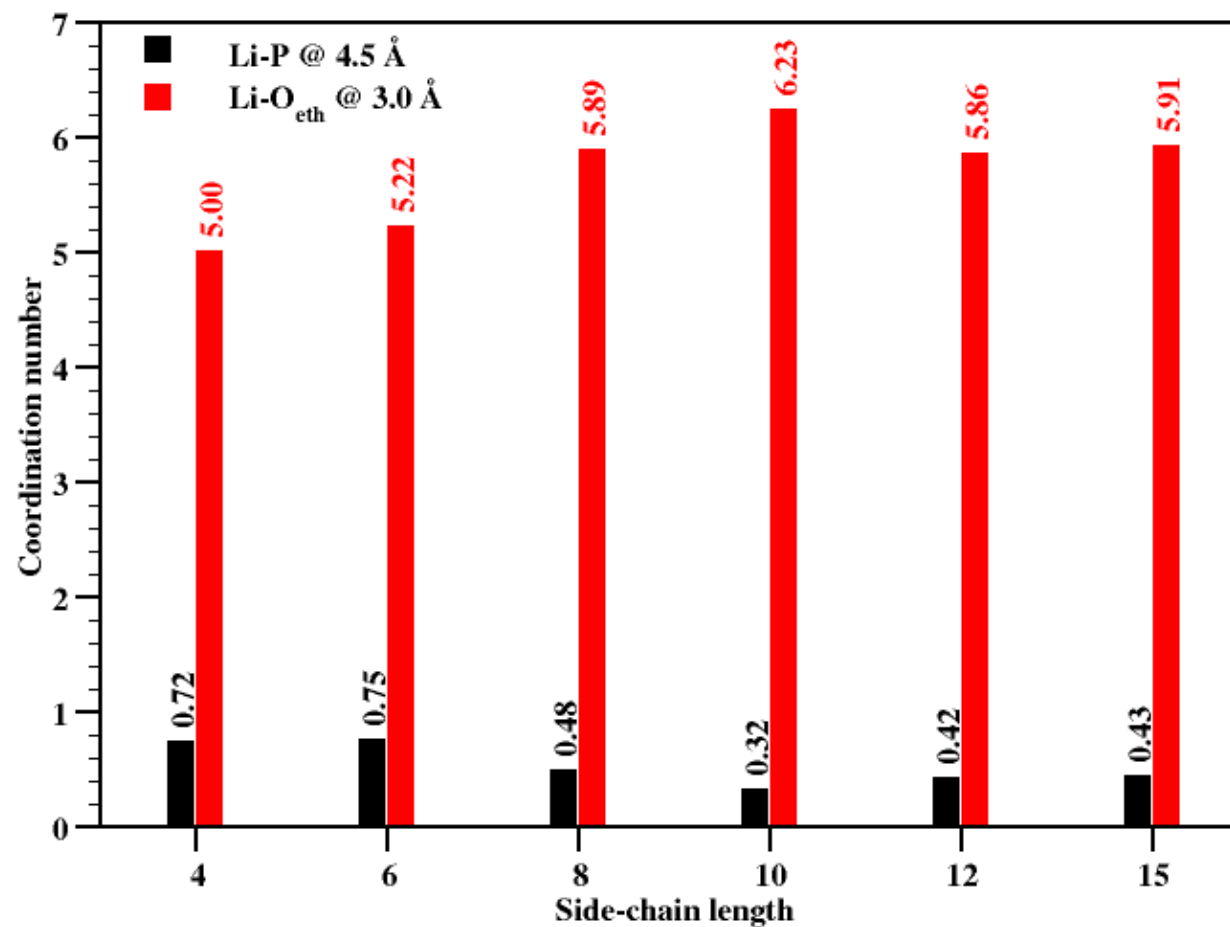
"liitiumsild"



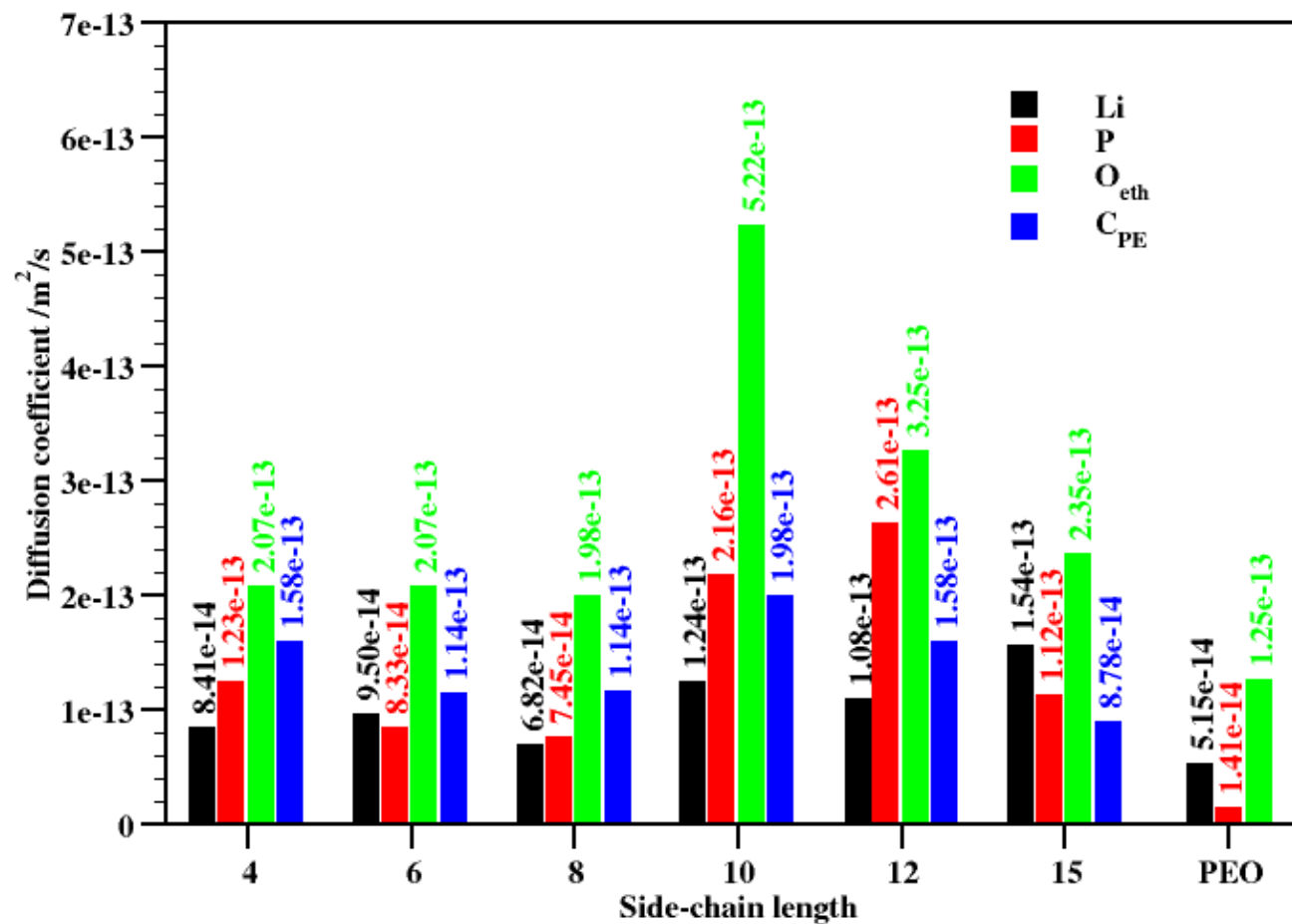
Li⁺ koordinatsioon kõrvalahelatega



Li⁺ koordinatsiooniarvud



Li⁺ diffusion



"sündmused" Li^+ -ga

