Edvin Erdtman

List of Publications by Year
in descending order

14	215	1163117 8	1058476 14
papers	citations	h-index	g-index

15	15	15	308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of Î±- and Î²-PVDF melting mechanisms. Polymer, 2012, 53, 2919-2926.	3.8	57
2	Molecular modelling of oxygen and water permeation in polyethylene. Polymer, 2013, 54, 2988-2998.	3.8	27
3	Computational studies on Schiff-base formation: Implications for the catalytic mechanism of porphobilinogen synthase. Computational and Theoretical Chemistry, 2011, 963, 479-489.	2.5	24
4	Time evolution of the CO2 hydrogenation to fuels over Cu-Zr-SBA-15 catalysts. Journal of Catalysis, 2018, 362, 55-64.	6.2	19
5	Modelling the behavior of 5-aminolevulinic acid and its alkyl esters in a lipid bilayer. Chemical Physics Letters, 2008, 463, 178-182.	2.6	17
6	Computational Insights into the Mechanism of Porphobilinogen Synthase. Journal of Physical Chemistry B, 2010, 114, 16860-16870.	2.6	17
7	The first branching point in porphyrin biosynthesis: A systematic docking, molecular dynamics and quantum mechanical/molecular mechanical study of substrate binding and mechanism of uroporphyrinogenâ€III decarboxylase. Journal of Computational Chemistry, 2011, 32, 822-834.	3.3	17
8	A molecular-level computational study of the diffusion and solubility of water and oxygen in carbonaceous polyethylene nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 589-602.	2.1	10
9	Matching precursor kinetics to afford a more robust CVD chemistry: a case study of the C chemistry for silicon carbide using SiF‹sub›4‹/sub› as Si precursor. Journal of Materials Chemistry C, 2017, 5, 5818-5823.	5.5	7
10	Catalytic Mechanism of Porphobilinogen Synthase: The Chemical Step Revisited by QM/MM Calculations. Journal of Physical Chemistry B, 2012, 116, 12105-12112.	2.6	6
11	Theoretical study of 5-aminolevulinic acid (5ALA) and some pharmaceutically important derivatives. Chemical Physics Letters, 2007, 434, 101-106.	2.6	4
12	Simulations of the thermodynamics and kinetics of NH 3 at the RuO 2 (110) surface. Surface Science, 2017, 656, 77-85.	1.9	4
13	Theoretical Study of 5-Aminolevulinic Acid Tautomerization:â€‰ A Novel Self-Catalyzed Mechanism. Journal of Physical Chemistry A, 2008, 112, 4367-4374.	2.5	2
14	Permeability of 5-aminolevulinic acid oxime derivatives in lipid membranes. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	0