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computational study of the propagation of the oxygen concentration within a two-dimensional slice of a heterogeneous tumour region where the position and shape of the blood vessels are known. Exploiting the parameters space, we explore which effect is noticeable what concerns the formation of hypoxic zones. Computational study of the effect of hypoxia on cancer ...Density functional theory calculations were performed to investigate the mechanism and origins of the NHC-controlled selectivity of Ni-catalyzed C-H activation of arenes with vinylsilanes. The key to the selectivity is the different impacts of NHCs on the C-Si/C-C reductive elimination of the square-planar/TThe influence of NHCs on C-Si and C-C reductive ...In The Journal of Chemical Physics, by AIP Publishing, scientists at the University of Delaware report a computational study of this nucleocapsid and show that the binding of the ssRNA allows the nucleocapsid to maintain its shape and structural integrity. Simulations of viruses are difficult because the systems are very large. Computational study reveals how Ebola nucleocapsid ...This approach will continue as more data

emerges on the relationship between plasticity, probability of neurotransmitter release, neuronal excitations, postsynaptic potentiation and  $Ca^{2+}/Na^{+}$  levels in the perisynaptic cradle. References: [1] K. Breslin et al., "Potassium and sodium microdomains in thin astroglial processes: A computational model study," PLOS Comput.

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 Breslin et al., "Potassium and sodium  
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 A computational model study," PLOS  
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In The Journal of Chemical Physics, by AIP  
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 Delaware report a computational study of  
 this nucleocapsid and show that the  
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The flow computation method and evaluation of the aerodynamic forces. The flow equations and computational method used in the present study are the same as those used in Sun and Lan . Only an outline of the method is given here. The Navier-Stokes equations are numerically solved using moving overset grids.

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