



Molecular dynamics simulation of trivalent europium in aqueous solution: A study on the hydration shell structure

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Auteur	Chaussedent, Stéphane [1], Monteil, André [2]
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Résumé en anglais	As a prelude to a spectroscopic investigation of doped wet gels, we have made molecular dynamics simulations of a very dilute EuCl_3 solution. The symmetry properties of the first hydration shell of Eu^{3+} have been determined. The 8 water molecules of this shell are roughly arranged according to the square antiprism D_{4d} pseudo-symmetry. Though the arrangement of oxygens is little distorted from regular positions, the orientation of the water molecules themselves is found to be not so well organized at room temperature.
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[1] <http://okina.univ-angers.fr/stephane.chaussedent/publications>

[2] [http://okina.univ-angers.fr/publications?f\[author\]=8745](http://okina.univ-angers.fr/publications?f[author]=8745)

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