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**Single molecules in soft matter : a study of biomolecular conformation, heterogeneity and plasmon enhanced fluorescence**

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**Citation**

Yuan, H. (2013, November 19). *Single molecules in soft matter : a study of biomolecular conformation, heterogeneity and plasmon enhanced fluorescence. Casimir PhD Series*. Retrieved from <https://hdl.handle.net/1887/22072>

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**Author:** Yuan, Haifeng

**Title:** Single molecules in soft matter : a study of biomolecular conformation, heterogeneity and plasmon enhanced fluorescence

**Issue Date:** 2013-10-29

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