

Special Issue

ATOMIC FORCE MICROSCOPY APPLICATIONS IN LIFE SCIENCES

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AIM AND SCOPE

The use of biological macromolecules as biomaterials, bionanodevices for nanomedicine, biomolecular arrays, and molecular machines is significantly increasing. In addition, such molecular assemblies and their interactions in respect with cells or microorganisms represent a critical issue for nanotechnology applied to life sciences. The traditional disciplines of chemistry, physics, and biology are overlapping and coalescing with nanoscience and biotechnology. This issue covers all aspects of bionanoscience and nanotechnology ranging from basic aspects of the science of nano- and bio- materials to practical applications of such materials.

Keywords: *Atomic force microscopy, bio-nanotechnology, molecular recognition, biomolecules, molecular design, biosensors, biophysical, physical chemistry*

SUBTOPICS

1	Probing surface of biomolecules, functional biomaterials, bio-inspired nanomaterials	4	Bionanofabrication, bionanodevices, biomembrane
2	Applied microbiology, biophysics, biomolecules in relevance to bio-nanotechnology	5	Nanoengineering, bionanoscience and applications in nano- and biomedicine
3	Molecular recognition, single molecule force & single cell force spectroscopies	6	

SCHEDULE

Manuscript submission deadline	October 24 th , 2014
Peer Review Due	November 7 th , 2014
Revision Due	December 12 th , 2014
Notification of acceptance by the Guest Editor	December 19 th , 2014
Final manuscripts due	December 30 th , 2014

DEADLINE EXTENDED!!!

Manuscript submission deadline	January 23rd, 2015
Peer Review Due	January 30th, 2015
Revision Due	February 23rd, 2015
Notification of acceptance by the Guest Editor	March 2nd, 2015
Final manuscripts due	March 17th, 2015

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