

select your interest

[all subject areas]

[all journals]

browse top 25 archive

Current: January to March 2012

show my alerts

sign up now! for the e-mail alerts

e-mail address 

You can sign-up to receive our free Top 25 email alerts. When you register, you can choose to receive alerts by subject or journal, and can subscribe to up to 10 alerts at once.

log in

e-mail address password 

remember me on this computer

[forgotten password?](#)

[not registered? Sign up today!](#)

Tell other people about this service

[Contact Top 25 Team](#) [About the Top 25](#) [Sitemap](#)

Download the
SciVerse ScienceDirect
App today!
Available for iPhone,
iPad, Blackberry and
Android devices. >>

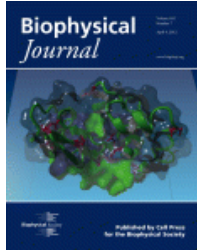


Top 25 Hottest Articles

Biophysical Journal

January to March 2012

 RSS  Blog This!  Print [Show condensed](#)



- 1. Fluorescence Correlation Spectroscopy: Past, Present, Future** • Review article
Biophysical Journal, Volume 101, Issue 12, December 2011, Pages 2855-2870
Elson, Elliot L.
 Cited by SciVerse Scopus (1)
- 2. Antibody-Functionalized Fluid-Permeable Surfaces for Rolling Cell Capture at High Flow Rates**
Biophysical Journal, Volume 102, Issue 4, February 2012, Pages 721-730
Mittal, S.; Wong, Ian Y.; Deen, William M.; Toner, M.
- 3. Label-Free Live-Cell Imaging with Confocal Raman Microscopy**
Biophysical Journal, Volume 102, Issue 2, January 2012, Pages 360-368
Klein, K.; Gigler, Alexander M.; Aschenbrenner, T.; Monetti, R.; Bunk, W.; Jamitzky, F.; Morfill, G.; Stark, Robert W.; Schlegel, J.
- 4. EphA2 Receptor Activation by Monomeric Ephrin-A1 on Supported Membranes**
Biophysical Journal, Volume 101, Issue 11, December 2011, Pages 2731-2739
Xu, Q.; Lin, W.C.; Petit, Rebecca S.; Groves, Jay T.
 Cited by SciVerse Scopus (1)
- 5. Excitation Spectra and Brightness Optimization of Two-Photon Excited Probes**
Biophysical Journal, Volume 102, Issue 4, February 2012, Pages 934-944
Mutze, J.; Iyer, V.; Macklin, John J.; Colonell, J.; Karsh, B.; Petrusek, Z.; Schwille, P.; Looger, Loren L.; Lavis, Luke D.; Harris, Timothy D.
- 6. Protein Folding Is Mechanistically Robust**
Biophysical Journal, Volume 102, Issue 4, February 2012, Pages 859-867
Weber, Jeffrey K.; Pande, Vijay S.
- 7. Energy Landscape of the Prion Protein Helix 1 Probed by Metadynamics and NMR**
Biophysical Journal, Volume 102, Issue 1, January 2012, Pages 158-167
Camilloni, C.; Schaal, D.; Schweimer, K.; Schwarzingler, S.; De Simone, A.
 Cited by SciVerse Scopus (3)
- 8. Determination of Membrane-Insertion Free Energies by Molecular Dynamics Simulations**
Biophysical Journal, Volume 102, Issue 4, February 2012, Pages 795-801

9. **Understanding the Cooperative Interaction between Myosin II and Actin Cross-Linkers Mediated by Actin Filaments during Mechanosensation**
Biophysical Journal, Volume 102, Issue 2, January 2012, Pages 238-247
Luo, T.; Mohan, K.; Srivastava, V.; Ren, Y.; Iglesias, Pablo A.; Robinson, Douglas N.
[Cited by SciVerse Scopus \(2\)](#)
10. **Actin Filament Elasticity and Retrograde Flow Shape the Force-Velocity Relation of Motile Cells**
Biophysical Journal, Volume 102, Issue 2, January 2012, Pages 287-295
Zimmermann, J.; Brunner, C.; Enculescu, M.; Goegler, M.; Ehrlicher, A.; Kas, J.; Falcke, M.
11. **Ultra-High Resolution Imaging by Fluorescence Photoactivation Localization Microscopy**
Biophysical Journal, Volume 91, Issue 11, December 2006, Pages 4258-4272
Hess, S.T.; Girirajan, T.P.K.; Mason, M.D.
[Cited by SciVerse Scopus \(488\)](#)
12. **Precise Nanometer Localization Analysis for Individual Fluorescent Probes**
Biophysical Journal, Volume 82, Issue 5, May 2002, Pages 2775-2783
Thompson, R.E.; Larson, D.R.; Webb, W.W.
[Cited by SciVerse Scopus \(532\)](#)
13. **Two-Component Coarse-Grained Molecular-Dynamics Model for the Human Erythrocyte Membrane**
Biophysical Journal, Volume 102, Issue 1, January 2012, Pages 75-84
Li, H.; Lykotrafitis, G.
14. **Cell Movement Is Guided by the Rigidity of the Substrate**
Biophysical Journal, Volume 79, Issue 1, July 2000, Pages 144-152
Lo, C.M.; Wang, H.B.; Dembo, M.; Wang, Y.I.
[Cited by SciVerse Scopus \(740\)](#)
15. **STED Nanoscopy Reveals Molecular Details of Cholesterol- and Cytoskeleton-Modulated Lipid Interactions in Living Cells**
Biophysical Journal, Volume 101, Issue 7, October 2011, Pages 1651-1660
Mueller, V.; Ringemann, C.; Honigsmann, A.; Schwarzmann, G.; Medda, R.; Leutenegger, M.; Polyakova, S.; Belov, V.N.; Hell, S.W.; Eggeling, C.
[Cited by SciVerse Scopus \(5\)](#)
16. **STED Nanoscopy of Actin Dynamics in Synapses Deep Inside Living Brain Slices**
Biophysical Journal, Volume 101, Issue 5, September 2011, Pages 1277-1284
Urban, Nicolai T.; Willig, Katrin I.; Hell, Stefan W.; Nagerl, U.
[Cited by SciVerse Scopus \(6\)](#)
17. **Dynamical Modeling of Three-Dimensional Genome Organization in Interphase Budding Yeast**
Biophysical Journal, Volume 102, Issue 2, January 2012, Pages 296-304
Tokuda, N.; Terada, Tomoki P.; Sasai, M.
18. **Rapid Assembly of a Multimeric Membrane Protein Pore**
Biophysical Journal, Volume 101, Issue 11, December 2011, Pages 2679-2683
Thompson, James R.; Cronin, B.; Bayley, H.; Wallace, Mark I.
19. **Supramolecular Non-Amyloid Intermediates in the Early Stages of α -Synuclein Aggregation**
Biophysical Journal, Volume 102, Issue 5, March 2012, Pages 1127-1136
Fauerbach, Jonathan A.; Yushchenko, Dmytro A.; Shahmoradian, Sarah H.; Chiu, W.; Jovin, Thomas M.; Jares-Erijman, Elizabeth A.
[Cited by SciVerse Scopus \(1\)](#)
20. **In Vivo Imaging of the Actin Polymerization State with Two-Photon Fluorescence Anisotropy**
Biophysical Journal, Volume 102, Issue 5, March 2012, Pages 1204-1214
Vishwasrao, Harshad D.; Trifilieff, P.; Kandel, Eric R.
21. **Investigating How Peptide Length and a Pathogenic Mutation Modify the Structural Ensemble of Amyloid Beta Monomer**
Biophysical Journal, Volume 102, Issue 2, January 2012, Pages 315-324
Lin, Y.S.; Bowman, Gregory R.; Beauchamp, Kyle A.; Pande, Vijay S.
[Cited by SciVerse Scopus \(1\)](#)
22. **NMR Determination of Protein Partitioning into Membrane Domains with Different Curvatures and Application to the Influenza M2 Peptide**
Biophysical Journal, Volume 102, Issue 4, February 2012, Pages 787-794
Wang, T.; Cady, Sarah D.; Hong, M.
23. **An Oxygen Scavenging System for Improvement of Dye Stability in Single-Molecule Fluorescence Experiments**
Biophysical Journal, Volume 94, Issue 5, March 2008, Pages 1826-1835
Aitken, C.E.; Marshall, R.A.; Puglisi, J.D.
[Cited by SciVerse Scopus \(75\)](#)
24. **Stereocilia Membrane Deformation: Implications for the Gating Spring and Mechanotransduction Channel**
Biophysical Journal, Volume 102, Issue 2, January 2012, Pages 201-210
Powers, Richard J.; Roy, S.; Atilgan, E.; Brownell, William E.; Sun, Sean X.; Gillespie, Peter G.; Spector, Alexander A.
[Cited by SciVerse Scopus \(1\)](#)
25. **Protein Translocation through Tom40: Kinetics of Peptide Release**
Biophysical Journal, Volume 102, Issue 1, January 2012, Pages 39-47
Mahendran, Kozhinjampara R.; Romero-Ruiz, M.; Schlosinger, A.; Winterhalter, M.; Nussberger, S.
[Cited by SciVerse Scopus \(2\)](#)