

2015 CINT Publications

1. Adams, P.G., Swingle, K.L., Paxton, W.F., Firestone, M.A., Mukundan, H., Montano, G.A. (2015) "Exploiting lipopolysaccharide-induced deformation of lipid bilayers to modify membrane composition and generate two-dimensional geometric membrane array patterns" *Scientific Report*: 5, 10331
2. Bolintineanu, D.S., Grest, G.S., Lechman, J.B., Silbert, L.E. (2015) "Diffusion in jammed particle packs" *Physical Review Letters*: 115, 088002
3. Chen, H.T. (2015) "Semiconductor activated terahertz metamaterials" *Frontiers of Optoelectronics*: 8, 27
4. Driben, R., Yulin, A., Efimov, A. (2015) "Resonant radiation from oscillating higher order solitons" *Optics Express*: 23, 19112
5. Efimov, A. (2015) "Scintillations of a partially coherent beam in a laboratory turbulence: Experiment and comparison to theory" *Proceedings of the SPIE*: 9354, 935404
6. Firestone, M.A., Hayden, S.C., Huber, D.L. (2015) "Greater than the sum: synergy and emergent properties in nanoparticle-polymer composites" *MRS Bulletin*: 40, 09
7. Ghosh, K., Balog, E.R.M., Sista, P., Martinez, J.S., Rocha, R.C. (2015) "Multicolor luminescence from conjugates of genetically encoded elastin-like polymers and terpyridine-lanthanides" *Macromolecular Chemical Physics*: 216, 18
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10. Ji, Z., Doorn, S.K., Sykora, M. (2015) "Electrochromic Graphene Molecules" *ACS Nano*: 9, 4043
Kelly, J.C., Huber, D.L., Price, A.D., Roberts, M.E. (2015) "Switchable electrolyte properties and redox chemistry in aqueous media based on temperature-responsive polymers" *Journal of Applied Electrochemistry*: 45, 8
11. Leenheer, A.J., Sullivan, J.P., Shaw, M., Harris, C.T. (2015) "A sealed liquid cell for in-situ transmission electron microscopy of controlled electrochemical processes" *Journal of Microelectromechanical Systems*: 24, 4
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13. Li, J., Chen, S., Yang, H., Li, J., Yu, P., Cheng, H., Gu, C., Chen, H.T., Tian, J. (2015)

- "Simultaneous control of light polarization and phase distributions using plasmonic metasurfaces" *Advanced Functional Materials*: 25, 704
14. Liu, J., Adamska, L., Doorn, S.K., Tretiak, S. (2015) "Singlet and triplet excitons and charge polarons in cycloparaphenylenes: A density functional theory study" *Physical Chemistry Chemical Physics*: 17, 14613-14622
 15. Nan, C.W., Jia, Q.X. (2015) "Obtaining ultimate functionalities in nanocomposites: Design, control, and fabrication" *MRS Bulletin*: 40, 719
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 19. Salerno, K.M., Grest, G.S. (2015) "Temperature effects on nanostructure and mechanical properties of single-nanoparticle thick membranes" *Faraday Discussions*: 181, 339
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36. Bjorgaard, J.A., Nelson, T., Kalinin, K., Kuzmenko, V., Velizhanin, K.A., Tretiak, S. (2015) "Simulations of fluorescence solvatochromisms in substituted PPV oligomers from excited state molecular dynamics with implicit solvent" Chemical Physics Letters: 631, 66-69 U2013A0032
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