

## 2016 CINT Publications

1. Ahmed, A., Wen, H., Ohta, T., Pinchuk, I., Zhu, T., Beechem, T., Kawakami, R. (2016) "Molecular beam epitaxy growth of SrO buffer layers on graphite and graphene for the integration of complex oxides" *Journal of Crystal Growth*: 447, 5
2. Ahmed, T., Chen, A.P., McFarland, B., Wang, Q., Ohldag, H., Sandberg, R., Jia, Q.X., Yarotski, D.A., Zhu, J.X. (2016) "Site mixing on the XMCD spectrum in double perovskite  $\text{Bi}_2\text{FeMnO}_6$ " *Applied Physics Letters*: 108, 242907
3. Beechem, T.E., Shaffer, R.A., Nogan, J., Ohta, T., Hamilton, A.B., McDonald, A.E., Howell, S.W. (2016) "Self- heating and failure in scalable graphene" *Scientific Reports*: 6, 26457
4. Chen, A.P., Chu, Y.-H., Li, R.-W., Fix, T., Hu, J.-M. (2016) "Functional Oxide Thin Films and Nanostructures: Growth, Interface, and Applications" *Journal of Nanomaterials*: 7198726.
5. Chen, A.P., Jia, Q.X. (2016) Book Chapter 7 "Multiferroic oxide nanocomposite thin films" in *Multiferroic Materials: Properties, Techniques, and Applications*. Taylor & Francis Group.
6. Efimov, A. (2016) "Gigabit per second modulation and transmission of a partially coherent beam through laboratory turbulence" *Proceedings of SPIE*: 9739. 9739L-1-6
7. Erickson, J.D., Mednikov, E.G., Ivanov, S.A., Dahl, L.F. (2016) "Isolation and Structural Characterization of a Mackay 55-Metal-Atom Two-Shell Icosahedron of Pseudo-1h Symmetry,  $\text{Pd}_{55}\text{L}_{12}(\text{m}_3\text{-CO})_{20}$  (L = PR3, R = Isopropyl): Comparative Analysis with Interior Two-Shell Icosahedral Geometries in Capped Three-Shell  $\text{Pd}_{145}$ , Pt-Centered Four-Shell Pd-Pt  $\text{M}_{165}$ , and Four-Shell  $\text{Au}_{133}$  Nanoclusters" *J. Am. Chem. Soc.*: 138(5), 1502-1505.
8. Grest, G.S. (2016) "Communication: Polymer entanglement dynamics: Role of attractive interactions" *The Journal of Chemical Physics*: 145, 141101.
9. Houston, K.D., Mack, N.H., Doorn, S.K., Park, M.S. (2016) "Macrophage Cells Secrete Specific Cytokines and Accumulate Activated Interferon Regulatory 1 Factor 3 after Multi-Walled Carbon Nanotube Exposure" *Journal of Nanotechnology and Nanomaterials*: 5, 1000203.
10. Jungjohann, K.L., Carter, C.B. (2016) "Transmission Electron Microscopy: A Companion" Springer International Publishing: 10.1007
11. Leroy, F., Passanante, T., Chynis, F., Curiotto, S., Bussmann, E.B., Muller, P. (2016) "Catalytically enhanced thermal decomposition of chemically grown silicon oxide layers of Si (001)" *Applied Physics Letters*: 108, 111601
12. Liu, S., Keeler, G.A., Reno, J.L., Sinclair, M.B., Brener, I. (2016) "III-V semiconductor

- nanoresonators- A new strategy for passive, active, and nonlinear all-dielectric metamaterials” *Advanced Optical Materials*: 10.1002
13. Neupane, M., Alidoust, N., Hosen, M.M., Zhu, J.-X., Dimitri, K., Xu, S.-Y., Dhakal, N., Sankar, R., Belopolski, I., Sanchez, D.S., Chang, T.-R., Jeng, H.-T., Miyamoto, K., Okuda, T., Lin, H., Bansil, A., Kaczorowski, D., Chou, F., Hasan, M.Z., Durakiewicz, T. (2016) “Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd” *Nature Communications*: 7:13315
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  15. Quintero, N.R., Mertenz, F.G., Efimov, A., Bishop, A.R. (2016) “Soliton dynamics in optical fibers using the generalized traveling-wave method” *Physical Review E*: 93, 042214
  16. Salerno, K.M., Frischknecht, A.L., Stevens, M.J. (2016) “Charged Nanoparticle Attraction in Multivalent Salt Solution: A Classical-Fluids Density Functional Theory and Molecular Dynamics Study” *Journal of Physical Chemistry B*: 120, 5927–5937.
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