

2013 CINT Publications

1. Azad, A. K., O'Hara, J. F., Singh, R., Chen, H.-T., Taylor, A. J. (2013) "A review of terahertz plasmonics in subwavelength holes on conducting films" *IEEE Journal of Selected Topics in Quantum Electronics*: 19, 8400416
2. Benz, A., Campione, S., Liu, S., Brener, I. (2013) "Monolithic metallic nanocavities for strong light-matter interaction to quantum-well intersubband excitations" *Optics Express*: 21, 32572
3. Benz, A., Campione, S., Liu, S., Brener, I. (2013) "Strong coupling in the sub-wavelength limit using metamaterial nanocavities" *Nature Communications*: 4, 2822
4. Benz, A., Montano, I., Klem, J.F., Brener, I. (2013) "Tunable metamaterials based on voltage controlled strong coupling" *Applied Physics Letters*: 103, 263116
5. Bi, Z., Uberuaga, B.P., Fu, E.G., Wang, Y.Q., Li, N., Wang, H.Y., Misra, A., Jia, Q.X. (2013) "Radiation damage in heteroepitaxial BaTiO₃/SrTiO₃ thin films under Ne ion irradiation," *Journal of Applied Physics*: 113, 023513
6. Bolintineanu, D.S., Stevens, M.J., Frischknecht, A.L. (2013) "Influence of Cation Type on Ionic Aggregates in Precise Ionomers" *Macromolecules*: 46, 5381
7. Bolintineanu, D.S., Stevens, M.J., Frischknecht, A.L. (2013) "Atomistic Simulations Predict a Surprising Variety of Morphologies in Precise Ionomers" *ACS Macro Letters*: 2, 206-210
8. Brady, N.K., Perkins Jr., B.G., Hwang, H.Y., Brandt, N.C., Torchinsky, D., Singh, R., Yan, L., Trugman, D., Trugman, S.A., Jia, Q.X., Taylor, A.J., Nelson, K.A., Chen, H.T. (2013) "Nonlinear high-temperature superconducting terahertz metamaterials," *New Journal of Physics*: 15, 105016
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10. Chen, D., Zhang, M., Liu, S., Wang, Y.Q., Nastasi, M., Wang, X., Di, Z.F. (2013) "Sharp crack formation in low fluence hydrogen implanted Si0.75Ge0.25/B doped Si0.70Ge0.30/Si heterostructure" *Applied Physics Letters*: 103, 142102
11. Chen, J., Meng, Q., Inerbaev, T., Tretiak, S., Schmitz, A., Kilin, D.S. (2013) "First-principles study of p-n- doped silicon quantum dots: charge transfer, energy dissipation, and time-resolved emission" *Journal of Physical Chemistry Letters*: 4, 2906-2913
12. Conradson, S.D., Durakiewicz, T., Espinosa-Faller, F.J., An, Y., Anderson, D.A., Bishop, A.R., Boland, K.S., Bradley, J.A., Byler, D.D., Clark, D.L., Conradson, D.R., Conradson, L.L., Costello, A.L., Hess, N.J., Lander, G.H., Llobett, A., Martucci, M.B., Mustre de Leon, J., Nordlund, D., Lezama-Pacheco, J.S., Proffen, T.E., Rodriguez, G., Schwarz, D.E., Seidler, G.T., Taylor, A.J., Trugman, S.A., Tyson, T.A., Valdez, J.A. (2013) "Possible Bose-condensate behavior in a quantum phase originating in a collective excitation in the chemically and optically doped Mott-Hubbard system UO_{2+x}" *Physical Review B*: 88, 115135

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14. Efimov, A. (2013) Lateral-sheering, delay-dithering Mach-Zehnder interferometer for spatial coherence measurement" *Optics Letters*: 38, 4522-4525
15. Fofang, N.T., Luk, T.S., Okandan, M., Nielson, G.N., Brener, I. (2013) "Substrate-modified scattering properties of silicon nanostructures for solar energy applications" *Optics Express*: 21, 4, 4774-4782
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18. Hollingsworth, J.A. (2013) "Heterostructuring nanocrystal quantum dots toward intentional suppression of blinking and auger recombination" *Chemical Materials*: 25, 1318-1331
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