

### **Professor Vladimir Drachev**

- Krokhin, A.A.; Arriaga, J; Gumen, L.N.; **Drachev, V.P.**; **High-frequency homogenization for layered hyperbolic metamaterials**. - Physical Review B, 93-7- 75418, 2016, American Physical Society
- Hagag, Mohamed A; **Drachev, Vladimir**; Kildishev, Alex; **Characterizing NL response of metal-dielectric metasurfaces** - CLEO: QELS\_Fundamental Science
- Bhatta, Hari; Aliev, Ali; **Gabitov, Ildar R.**; **Drachev, Vladimir P.**; **Magnetic platform for UV surface-enhanced resonance Raman and fluorescence**; *Laser Optics (LO), 2016 International Conference*; S2-31-S2-31; 2015; IEEE
- de Silva, Vashista C; Nyga, Piotr; **Drachev, Vladimir P.**; **Optimization and photomodification of extremely broadband optical response of plasmonic core-shell obscurants** - *Journal of Colloid and Interface Science*, 484; 116-124; 2016; Academic Press
- de Silva, Vashista C; Nyga, Piotr; **Drachev, Vladimir P.**; **Scattering suppression of silica microspheres with semicontinuous plasmonic shell** - arXiv preprint arXiv:1501.00233 2015
- de Silva, Vashista C; Nyga, Piotr; **Drachev, Vladimir P.**; **Scattering suppression in epsilon-near-zero plasmonic fractal shells** - *Optical Materials Express*; 5-11; 2491-2500, 2015 Optical Society of America
- Bozhko, Andrii; **Drachev, Vladimir**; Krokhin, Arkadii; **Surface plasmon propagation along smeared metal-dielectric interfaces** - *APS March Meeting Abstracts*; 1, 8005, 2015
- Shalaev, Vladimir M; Kildishev, Alexander P; **Drachev, Vladimir P.**; Cai, Wenshan; **Near field raman imaging**; 2013 US Patent 8,599,489
- Ishii, Satoshi; Kildishev, Alexander V; Narimanov, Evgenii; Shalaev, Vladimir M; **Drachev, Vladimir P.**; **Diffractive optics with nanoslits** - *2013 15th International Conference on Transparent Optical Networks (ICTON) 2013*
- Ishii, Satoshi; Kildishev, Alexander V; Narimanov, Evgenii; Shalaev, Vladimir M; **Drachev, Vladimir P.**; **Sub-wavelength interference pattern from volume plasmon polaritons in a hyperbolic medium** - *Laser & Photonics Reviews*, 7-2-265-271; 2013
- Drachev, Vladimir P.**; Podolskiy, Viktor A; Kildishev, Alexander V; **Hyperbolic metamaterials: new physics behind a classical problem** - *Optics express*, 21-12; 15048-15064; 2013 Optical Society of America
- Dolash, Bridget D; Lahiji, Roya R; Zemlyanov, Dmitry Y; **Drachev, Vladimir P.**; Reifenberger, Ronald; Bergstrom, Donald E; **Sonication mediated covalent cross-linking of DNA to single-walled carbon nanotubes** - *Chemical Physics*, 413- 19-Nov; 2013, North-Holland
- Ishii, Satoshi; NI, XINGJIE; **Drachev, Vladimir P.**; THORESON, MARK D; Shalaev, Vladimir M; Kildishev, Alexander V; **Active and Tuneable Metallic Nanoslit Lenses** - *Active Plasmonics and Tuneable Plasmonic Metamaterials*, 289-316, 2013, John Wiley & Sons, Inc.
- Kim, Sangsik; Xuan, Yi; **Drachev, Vladimir P.**; Varghese, Leo T; Fan, Li; Qi, Minghao; Webb, Kevin J; **Nanoimprinted plasmonic nanocavity arrays** - *Optics express*; 21-13; 15081-15089; 2013; Optical Society of America
- Webb, Kevin J; Qi, Minghao; Kim, Sangsik; Xuan, Yi; **Drachev, Vladimir P.**; **Nanoimprinted Plasmonic Nanocavity Arrays** - CLEO: Science and Innovations; CTh3J. 1, 2013, Optical Society of America
- Van Stryland, Eric; Marder, Seth; **Drachev, Vladimir**; Kippelen, Bernard; Perry, Joe; Kik, Pieter; Norwood, Robert; Shalaev, Vladimir; Hagan, David; **Engineered Multifunctional Nanophotonic Materials for Ultrafast Optical Switching**, 2012, University of Central Florida, Orlando Center for Research in Electro-Optics and Lasers
- Brown, Dean P; Walker, Mark A; Urbas, Augustine M; Kildishev, Alexander V; Xiao, Shumin; **Drachev, Vladimir P.**; **Direct measurement of group delay dispersion in metamagnetics for ultrafast pulse shaping** - *Optics express*; 20-21; 23082-23087; 2012 Optical Society of America

Saha, Bivas; Naik, Gururaj; **Drachev, Vladimir P.**; Boltasseva, Alexandra; Marinero, Ernesto E; Sands, Timothy D; **Electronic and optical properties of ScN and (Sc, Mn) N thin films deposited by reactive DC-magnetron sputtering** - *Journal of Applied Physics*; 114-5, 63519 2013 AIP Publishing

Ishii, Satoshi; Kildishev, Alexander V; Narimanov, Evgenii; Shalaev, Vladimir M; **Drachev, Vladimir P.**; **Volume plasmon polaritons and subwavelength interference in a hyperbolic medium** - *Conference on Lasers and Electro-Optics/Pacific Rim*; WI3\_3 2013 Optical Society of America