

Research Grants (Sole PI for more than \$1.2 million in extramural funding since 2008)

- 08/2012 – *Ultrahigh Resolution Broadband Spectroscopic System for Investigation of Microsphere Resonator Circuits*, DURIP, Proposal No. 61475-MS-RIP, Awarded on 06.28.2012, Army Research Office, Sole PI, Total award is under negotiation.
- 08/25/2011 – *Tunable Light Source for Observation of Novel Effects of Resonant Light Pressure and Development of Microsphere Resonator Circuits*, DURIP, Grant No. W911NF-11-1-0406, Army Research Office, Sole PI, Total \$192,000
- 08/24/2012
- 01/01/2011 *Infrared Imaging System for Characterization of the Optical Scalpel Structures*, The University of North Carolina and the State Board of Community Colleges, Equipment Grant, PI, Total \$32,000
- 04/01/2010 – *Novel Optical Microprobes for Ultra-Precise Intraocular Laser Surgery*, National Institute of Health, National Eye Institute, STTR Phase I, Grant Number 1R41EY019598-01A1, Sole PI, Total \$222,416
- 09/31/2011
- 08/25/2009 – *Photonic Devices Based on Circuits of Supermonodispersive Spherical Cavities*, Department of Defense, Army Research Office, Grant No. W911NF-09-1-0450, Sole PI, Total \$425,000
- 08/24/2012
- 08/31/2009 – *Mesoscale Structures and Photonic Devices based on Coupled Spherical Cavities*, National Science Foundation, REU Supplemental Award, Grant No. ECCS-0824067, Amendment No. 1, Sole PI, Total \$6,000
- 07/31/2012
- 08/01/2008 – *Mesoscale Structures and Photonic Devices based on Coupled Spherical Cavities*, National Science Foundation, Grant No. ECCS-0824067, Sole PI, Total \$296,647
- 07/31/2012
- 08/01/2005 – *High Order Numerical Methods for Light Propagation in Micro-Photonics*, National Science Foundation, Grant No. CCF 0513179, Co-PI, Total \$180,000
- 07/31/2009
- 01/15/2009 – *High Resolution Optical Microprobe for Laser Surgery*, Faculty Research Grant, Sole PI, Total \$6,000
- 05/30/2010
- 01/15/2007 – *Fundamentals and Applications of Coupled Cavities with Whispering Gallery Modes*, UNCC Faculty Research Grant, Sole PI, Total \$6,000
- 05/30/2008
- 10/01/2006 – *Resonant Optical Circuits Based on Coupling Between Whispering Gallery Modes in Dielectric Microresonators*, Department of Defense, Army Research Office, Grant No. W911NF-05-1-0529, Additional Funding, PI, Total \$65,000
- 07/31/2007
- 10/01/2005 – *Resonant Optical Circuits Based on Coupling Between Whispering Gallery Modes in Dielectric Microresonators*, Department of Defense, Army Research Office, Grant No. W911NF-05-1-0529, PI, Total \$85,000
- 07/31/2006
- 01/15/2005 – *Optical Transport Properties of Circuits Formed by Coupled Microresonators*, UNCC Faculty Research Grant, Sole PI, Total \$6,000
- 05/30/2006

- 01/01/2004 – *Synthetic Opals for Multimodal Spectroscopy of Diffusive Sources of Light*, Duke
08/31/2004 University, Sole PI, Total \$20,000
- 01/15/2003 – *Coupled Microspheres Waveguides*, UNCC Faculty Research Grant, Sole PI, Total \$6,000
05/30/2004
- 2000-01 *EM Properties, Band Structure and Light Matter Interaction in Semiconductor Photonic
Crystals*, EPSRC grant No. GR/M72951 (in the UK). Because of the EPSRC rules I was
not able to be a Co-PI since I was not a permanent member of staff, but I made major
contributions to this proposal, Total £162,000
- 1996 Award of the Program of Exchange Visits, Royal Society, Total £3,000
- 1996-98 *Photonic Band Gaps in Opals*, Russian Fund for Basic Research grant No. 960217928-a,
Sole PI, Total is equivalent to \$20,000