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Professor Anatoly V Zayats, FInstP, FOSA, FSPIE, FRSC Head, Experimental Biophysics and Nanotechnology Group

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Research Interests:

near-field optics; scanning probe microscopy; nanophotonics and plasmonics; metamaterials; nonlinear optics and spectroscopy; surface plasmons and polaritons; bio- and chemical sensing; nanostructured metals; optical properties of surfaces, thin films, semiconductors and low-dimensional structures

Fellow of the Institute of Physics (2006)

Fellow of the Optical Society of America (2008): for pioneering contributions in nano-optics and plasmonics Fellow of SPIE (2012): for achievements in integrated plasmonics and nonlinear metamaterials Fellow of the Royal Society of Chemistry (2014)

Know plasmonics in 10 minutes (SPIE TV, 2012)

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News List of Publications



Nano-optics Lab EBN Group Physics @ King's KCL

- 1986 MSc with Distinction, Dept. of General and Applied Physics, <u>Moscow Institute of Physics and Technology</u>, USSR
- 1989 PhD in Physics (Solid State Physics),
 <u>Moscow Institute of Physics and Technology</u>, USSR (see also <u>[non-canonical MIPT web-pages]</u>)
- 1989-1997 Junior Research Scientist, Research Scientist (1990), Senior Research Scientist (1992), <u>Institute of Spectroscopy</u>, Russian Academy of Sciences, Moscow, Russia
- 1992-1994 Research Fellow, Institute of Physics, <u>University of Aalborg</u>, Denmark.
- 1995-1997 Visiting Professor, <u>University of Algarve</u>, Portugal
- 1998-1999 Alexander von Humboldt Fellow, University of Konstanz, Germany
- 1999-2005 Lecturer in Condensed Matter Physics, School of Mathematics and Physics,

The Queen's University of Belfast, United Kingdom

- 1999-2007 Visiting Professor, Laboratoire de Physique, <u>l'Université de Bourgogne</u>, Dijon, France
- 2005-2010 Chair in Physics, School of Mathematics and Physics, <u>The Queen's University of Belfast</u>, United Kingdom
- 2008-2011 Visiting Professor, Department of Physics, Sogang University, Seoul, South Korea
- 2010-present Chair in Experimental Physics, Department of Physics, King's College London, United Kingdom

Main review articles and books:

1. A. V. Zayats, I. I. Smolyaninov, "Near-field photonics: surface plasmon polaritons and localised surface plasmons," J. Opt. A: Pure and Applied Optics, vol. 5, 2003, pp. S16-S50. [on-line]

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2. A. V. Zayats, I. I. Smolyaninov, A. A. Maradudin, "Nano-optics of surface plasmon polaritons," Phys. Rep., vol. 408, 2005, pp. 131-314. [on-line]

- 3. G. A. Wurtz, A. V. Zayats, "Nonlinear surface plasmon polaritonic crystals," Laser and Photon. Rev., vol. 2, 2008, pp. 125-135. [on-line]
- 4. D. Richards, A. V. Zayats, Eds., *Nano-optics and Near-field Optical Microscopy* (Artech, Boston, 2008). [look inside]
- 5. A. V. Zayats, I. I. Smolyaninov, A. A. Maradudin, *Nano-optics of Surface Plasmon Polaritons* (Academic Press, New York, 2009). [more]
- 6. M. Kauranen, A. V. Zayats, "Nonlinear plasmonics," Nature Photonics, vol. 6, 2012, pp. 737-748. [on-line]
- 7. A. V. Zayats, S. A. Maier, Eds., *Active Plasmonics and Tuneable Plasmonic Metamaterials* (Wiley-Blackwell & Science-Wise, 2013). [look inside]

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