



Багдасарян Овик Варданович, к.ф.-м. н., доцент  
Дисциплины, преподаваемые в РАУ  
Оптические телекоммуникационные системы  
Системы оптической связи

2. Область научных интересов:

Исследование взаимодействия электромагнитных волн с неоднородными и нелинейными средами, нелинейная оптика, физика лазеров, оптоэлектроника, компьютерное моделирование элементов волоконно-оптической связи.

3. Общее количество научных публикаций:

62

4. Наиболее важные публикации за последние 10 лет:

H. V. Baghdasaryan, T.M. Knyazyan, T.T. Hovhannisyan, M. Marciniak, Surface Plasmon Interaction with Amplifying MQWs in Multilayer Kretschmann Structure: Wavelength-Scale Analysis by the Method of Single Expression, *ICTON 2012, Conference Proceedings*, 2-5 July, 2012, University of Warwick, Coventry, UK.

H.V. Baghdasaryan, T.M. Knyazyan, T.T. Hovhannisyan, M. Marciniak, Peculiarities of Surface Plasmon Excitation in Amplifying Kretschmann Structure: Correct Wavelength-Scale Analysis by the Method of Single Expression, *ICTON 2011, Conference Proceedings*, Stockholm, Sweden, June 26- 30, 2011, Mo.C2.5. 5 pages.

H.V. Baghdasaryan, T.M. Knyazyan, T.H. Baghdasaryan, B. Witzigmann, and F. Roemer, "Absorption loss influence on optical characteristics of multilayer distributed Bragg reflector: wavelength-scale analysis by the method of single expression", *Opto-Electronics Review*, vol. 18, Issue 4, 2010, pp. 438–445.

R. Kotynski, H. Baghdasaryan, T. Stefaniuk, A. Pastuszczyk, M. Marciniak, A. Lavrinenko, K. Panajotov, and T. Szoplik, "Sensitivity of imaging properties of metal-dielectric layered flat lens to fabrication inaccuracies", *Opto-Electronics Review*, vol. 18, Issue 4, 2010, pp.446–457.

H.V. Baghdasaryan, T.M. Knyazyan, G.G. Eyranyan, "Electrodynamical Analysis of a Transmittive Metal-Dielectric Microstructure by the Method of Single Expression", *Proceedings of the European Microwave Association*, vol. 4, Issue 1, 2008, pp. 76 – 81.

H.V. Baghdasaryan, T.M. Knyazyan, T.H. Baghdasaryan, “Novel powerful simulation tool for wavelength-scale analysis of an oblique plane wave interaction with multilayer metamaterial structures”, *2nd International Congress on Advanced Electromagnetic Materials in Microwaves and Optics*, September 21-26, 2008, Pamplona, Spain, 3 pages.

H.V. Baghdasaryan, T.M. Knyazyan, “Novel Recurrent Approach for the Analysis of Periodic Quarter-Wavelength Multilayer Structures”, *Information Technology & Management*, Yerevan, vol. 2, No. 4, 2004, pp. 51-58.

H.V. Baghdasaryan and T.M. Knyazyan, “Simulation of Amplifying Phase-Shifted Bragg Gratings by the Method of Single Expression”, *Optical and Quantum Electronics*, vol. 35, No. 4, 2003, pp.493 - 506.

H.V. Baghdasaryan, T.M. Knyazyan, S.S. Berberyan, A.A. Mankulov, “Correct Analysis of Gires-Tournois Absorbing Interferometer by the Method of Single Expression”, *Microwave and Optical Technology Letters*, vol. 37, No. 1, 2003, pp. 64-67.

H.V. Baghdasaryan and T.M. Knyazyan, “Modelling of linearly chirped Bragg gratings by the Method of Single Expression“, *Optical and Quantum Electronics*, vol. 34, No. 5, 2002, pp. 481- 492.