

CURRICULUM VITAE

Armen MELIKYAN

Education 1959-1965 - Yerevan State University, Faculty of Physics
1970 - PhD (Candidate of Sciences), Yerevan State University,
1984 - Doctor of Sciences, Physics and Mathematics. Moscow Institute of Physical Engineering. Thesis: Theory of Quasienergy States as Applied to Nonlinear Optics.

Professional Experience 1970-1985 - Institute of Physical Researches, Armenian National Academy of Sciences, Senior Researcher
1985 - 2004 - State Engineering University of Armenia, Dept. of Physics, Head.
2004-2006 - State Engineering University of Armenia, Dept. of Physics, Professor.
2006 – present – Russian-Armenian (Slavonic) University, Yerevan, Armenia. Chair of Physics and Quantum Nanostructures, Professor.

Grants and Scholarships 1992 - Grant of the American Physical Society.
1992 - Grant of International Science Foundation.
1994-95 - Long Term Grant of International Science Foundation.
1994-95 - NATO Research Fellowship, National Technical University of Athens.
1995-96 - Grant of Swiss Federal Institute of Technology.
1997-99 - CRDF Grant AP1-376, UC Irvine
2000- 2003 - Grant of Swiss National Foundation, SCOPES Program, ETHZ.
2005- 2008 - Grant of Swiss National Foundation, SCOPES Program, EPFL
2008 - DAAD Scholarship, University of Saarland.
2011 - DFG Scholarship, University of Saarland.
2013 – 2015 – Volkswagen Foundation Grant 86 933, Ulm University.

Languages Armenian, Russian - fluently, English - good.

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Selected publications

1. A.Melikyan, H.Minassian, V.Grigoryan, and M.Springborg. Shape dependence of optical properties of sodium clusters. *Appl. Phys. B*, 2013. DOI: 10.1007/s00340-013-5414-5.
2. K. Madoyan, A. Melikyan and H. Minassian. Radiation Damping of Surface Plasmons in a Pair of Nanoparticles and in Nanoparticles near Interfaces. *J. Phys. Chem. C*, 2012, 116 (31), pp 16800–16805.
3. . Madoyan, A. Melikyan and H. Minassian, Strong Suppression of Surface Plasmon Radiation Damping Rate in Noble Metal Nanoshells. *Plasmonics*, v. 7, number 4 (2012), pp. 745-748.

4. K. Madoyan, A. Melikyan and H. Minassian. Radiation damping rate in plasmonic nanoruler: an analytical approach. The 5th International Conference on Surface Plasmon Photonics May 15-20, 2011 BEXCO, Busan, Korea. Abstracts, Vol.1 - Oral Papers, p.28.
5. K. Madoyan, A. Melikyan and H. Minassian. Semianalytical theory of Plasmon nanoruler. *Applied Physics B*, v.100, Issue 4, pp. 875 -881 (2010).
6. T. Makaryan, K. Madoyan, A. Melikyan and H. Minassian, "Theoretical study of surface plasmon frequencies in a system of two coupled spheres and comparison with experimental data," *Nanophotonics III*, David L. Andrews, Jean-Michel Nunzi, Andreas Ostendorf, Editors, *Proc. SPIE 7212*, 77121I (2010).
7. M. Chergui, A. Melikyan and H. Minassian. Calculation of Surface Plasmon Frequencies of Two, Three and Four Strongly Interacting Nanospheres. *J. Phys. Chem. C*, v.113, pp. 6463-6471(2009).
8. A.Melikyan and H. Minassian. Calculation of Longitudinal Surface Plasmon Frequencies in Noble Metal Nanorods. *Chem. Phys. Lett.*, v. 452, pp. 139-143 (2008).
9. T.Makaryan, A.Melikyan, H.Minassian, Surface Plasmon Frequency Spectrum in a System of Two Spherical Dielectric Coated Metallic Nanoparticles. *Acta Physica Polonica A*, v. 112, n5, pp.1031-1035 (2007).
10. A.Melikyan, H.Minassian, On Surface Plasmon Damping in Metallic Nanoparticles. *Applied Physics B, Lasers and Optics*, 78(3-4), pp. 455-457(2004).
11. A.Melikyan, H.Minassian, Review. Trapped Phonons in Ultrathin Metallic Films: Interpretation of Recent Femtosecond Experiments. *Quantum Electronics*, **32**, n9, pp. 756-764(2002).
12. A.Melikyan, H.Minassian, V.Truchin, E.Gini, G.Guekos. Nonlinear Interband Absorption of Intense Light Wave in Bulk InGaAsP. *Optics Communications*, **212**, (1-3) pp.183-190(2002)
13. A.Melikyan, H.Minassian, Phonon Confinement in Ultrathin Metallic Films: Interpretation of Recent Femtosecond Pump-Probe Experimental Data. In *Femtochemistry and Femtobiology*, World Scientific, pp.702-708(2002).
14. A.O.Melikyan, H.R.Minassian, Interaction of Vibrational Modes in Ultrathin Metallic Films Following Femtosecond Excitation. *Solid State Communications*, **119/8-9**, pp 497-499 (2001).
15. A.O.Melikyan, H.R.Minassian, Phonon Confinement in Ultrathin Nickel Films, *Chem.Phys.Lett.*, **331/2-4**, pp.115-118 (2000).
16. A.O.Melikyan, H.R.Minassian, Saturation of Interband Absorption in Semiconductors. *Semiconductors*, **34**, pp.386-388(2000).
17. A.O.Melikyan. Quasi-energy of a 2-level system in an intense monochromatic field. *Sov.Phys. JETP*, v.41,p.610 (1975).
18. B.V. Kryzhanowsky, A.O.Melikyan. Effects of intensity in resonance fluorescence. *Optics Communications*, v. 29, 1979.
19. A.S.Agabekyan, A.O.Melikyan. Criteria of applicability of theory of resonance energy transfer. *Optikai Spektroskopiya*, v.32, p. 288 (1972).
20. M.L. Ter-Mikaelyan, A.O.Melikyan. Rayleigh and Raman scattering in field of an intense wave. *Sov. Phys. JETP*, v.31, p.153 (1970).
21. A.O.Melikyan, S.H.Sahakian. Exact theory of resonant third-harmonic generation in gases. *Sov. Phys. JETP*, v.49(5), p. 776 (1979).
22. A.O. Melikyan. Quasi-energetic states of multilevel systems. *Quantum Electronics*, v.7, p.237 (1977).