

# **CURRICULUM VITAE**

**Dr. Nikolaos Stefanou**  
**Professor of Physics**

**MARCH 2024**

## PERSONAL DATA

**Name:** Nikolaos Stefanou  
**Date and place of birth:** 25/11/1958, Volos (Greece)  
**Marital status:** Married, two children  
**Citizenship:** Greek  
**Address:** Section of Solid State Physics  
National and Kapodistrian University of Athens  
Panepistimioupolis Zografou  
GR-157 84 Athens, Greece  
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## EDUCATION

1976-1980 Studies in Physics at the University of Athens. Entered 2<sup>nd</sup> in rank at national level. Graduated with distinction “Excellent”. Top-rank student scholarship by the State Scholarships Foundation (IKY) every year.

1980-1981 MSc (DEA) in Solid State Physics at the University Louis Pasteur of Strasbourg. Title of MSc thesis: “Electronic structure of dilute alloys by the LMTO-ASA method”. Supervisor: Prof. E. Daniel.

1981-1984 PhD (Doctorat de 3<sup>ème</sup> cycle) in Physics at the University Louis Pasteur of Strasbourg. Title of PhD thesis: “Calculation of the electronic structure of metallic dilute alloys by the LMTO-ASA method”. Supervisor: Prof. E. Daniel.

1984-1986 “Doctorat d' État” in Physical Sciences at the University Louis Pasteur of Strasbourg. Distinction: “With Great Honours”. Title of thesis: “Contribution to the study of the electronic structure of defects in metals and intermetallic compounds”. Supervisor: Prof. E. Daniel.

## CAREER-EMPLOYMENT

1/1982-9/1984 Associated Lecturer (Assistant Associé) at the Department of Physics of the University Louis Pasteur of Strasbourg.

10/1984-9/1985 Associated Assistant Professor (Maître Assistant Associé) at the Department of Physics of the University Louis Pasteur of Strasbourg.

10/1985-2/1987 Post-doctoral Research Associate at the Research Centre KFA-Jülich.

4/1987-1/1989 Military service in Greece.

2/1989-9/1989 Post-doctoral Research Associate at the Research Centre KFA-Jülich.

9/1989-11/1999 Assistant Professor at the Department of Physics of the National and Kapodistrian University of Athens. Visiting scientist for short periods (1-2 months) at the Research Centre KFA-Jülich.

11/1999-3/2010 Associate Professor at the Department of Physics of the National and Kapodistrian University of Athens.

3/2010-... Full Professor at the Department of Physics of the National and Kapodistrian University of Athens.

## TEACHING AND EDUCATIONAL ACTIVITIES

### Undergraduate

- Courses: Electromagnetism, Mechanics, Optics, Statistical Physics and Thermodynamics, Introduction to Solid State Physics (lecture notes in greek at: <https://eclass.uoa.gr/courses/PHYS296>), Advanced Solid State Physics, Group Theory and Applications.
- Laboratories: Waves and Optics, Solid State Physics.
- Advisor of 31 final-year dissertations.
- Lectures at the Popular University on “Photonic and Phononic Metamaterials”.

### Post-graduate

- Courses: Physics and Technology of Materials, Electronic Structure of Crystals and Surfaces, Quantum Theory of Solids, Semiconductor Physics, Electronic Structure and Properties of Matter (lecture notes in greek at: <http://eclass.uoa.gr/PHYS108> ).
- Examiner of candidates for post-graduate studies fellowships (State Scholarships Foundation-IKY).
- Advisor of 17 MSc theses and member of the examination board of about 40 MSc theses.
- Supervisor of the following PhD theses:
  1. “Electronic structure and magnetic properties of complex metallic systems from first principles”, N. Papanikolaou, 1991-1995. Now, N. Papanikolaou is Research Director at the Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”.
  2. “Propagation of electromagnetic waves in inhomogeneous multilayered materials”, V. Karathanos, 1992-1997 (co-supervision with A. Modinos).
  3. “Electronic structure and transport properties in metallic dilute alloys”, P. Mavropoulos, 1996-1999. Now, P. Mavropoulos is Professor at the Physics Department, National and Kapodistrian University of Athens.
  4. “Optical properties of complex inhomogeneous materials – photonic crystals”, V. Yannopapas, 1998-2001 (co-supervision with A. Modinos). Now, V. Yannopapas is Professor at the School of Applied Mathematical and Physical Sciences, National Technical University of Athens.
  5. “Phononic crystals”, R. Sainidou, 2000-2004. Now, R. Sainidou is Maître de Conférences at the University of Le Havre.
  6. “Optical properties of complex photonic systems”, G. Gantzounis, 2004-2008.
  7. “Emission and propagation of light in nanostructured plasmonic metamaterials”, C. Tserkezis, 2008-2012. Now, C. Tserkezis is Associate Professor at the University of Southern Denmark.
  8. “Anisotropic nanocomposite photonic materials”, A. Christofi, 2010-2014. Now, A. Christofi is Research Associate at the Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”.
  9. “Probing and controlling elastic waves in metallic phononic structures by means of external fields”, A. Alevizaki, 2015-2018 (cotutorship with B. Morvan).
  10. “Controlling light with novel static and dynamic magnetophotonic nanostructures”, P. A. Pantazopoulos, 2016-2020.
  11. “Nonlinear waves in bistable flexible elastic metamaterials”, A. Paliouaios, 2022- (cotutorship with V. Tournat).
- Member of the advisory/examination board of about 60 PhD theses.

## ADMINISTRATIVE RESPONSIBILITIES AND OTHER SERVICES

- Chairman of the Department of Physics of the National and Kapodistrian University of Athens (1/9/2020-31/8/2022).
- Director of the Laboratory of Mechanical Engineering and Design, Department of Physics, National and Kapodistrian University of Athens (2016-2019).
- Director of the Section of Condensed Matter Physics of the National and Kapodistrian University of Athens (2011-2016).
- Coordination/participation in 20 national and international research programmes.
- Member of the organizing or the advisory committee of 18 national and international conferences.
- Participation/coordination in numerous committees and electoral bodies for professor and researcher positions.
- Editorial Board member: International Journal of Modern Physics B, Modern Physics Letters B, ISRN Condensed Matter Physics (2011-2014).
- Reviewer (in total, about 2 papers/month) in international scientific journals (Applied Physics Letters, IEEE Journal of Quantum Electronics, Journal of Applied Physics, Journal of Optics, Journal of Physics A: Mathematical and General, Journal of Physics: Condensed Matter, Journal of Physics D: Applied Physics, Journal of the Optical Society of America A, Journal of Vibration and Acoustics, Nanotechnology, Nature Physics, Optics Letters, Optics Express, Physical Review B, Physical Review E, Physical Review Letters, Solid State Communications).
- Member of the evaluation panels of the research programs: Photonic Crystals 2001; 2003; 2005 (DFG-Germany), “Consolidator Grant 2013” (ERC-European Commission), “Consolidator Grant 2015” (ERC-European Commission). “Consolidator Grant 2017” (ERC-European Commission). “Consolidator Grant 2019” (ERC-European Commission).
- Evaluation expert of research programmes (programmes Herakleitos and Pythagoras of the Greek National Ministry of Education; programmes of the German General Secretariat of Research; NATO research programmes; programmes of the Department of Energy of the USA).

## RESEARCH

**General field:** Theoretical and computational condensed matter physics.

**Areas:**

- Electronic structure and properties of defects in bulk metals, compounds and at metallic surfaces (magnetic, structural, transport properties, etc.).
- Light propagation in complex inhomogeneous media (photonic crystals, defects, disorder and light localization, waveguiding, plasmonics, metamaterials, phoxonic crystals, magnetoplasmonics). Development of full electrodynamic multiple-scattering methods.

- Propagation of elastic waves in complex inhomogeneous media (phononic crystals, defects, disorder and localization, waveguiding). Development of full elastodynamic multiple-scattering methods.

**Record:** 162 peer-reviewed papers. About 4700 citations (excluding citations of all co-authors). h-index (deduced from only heterocitations): 35

## DISSERTATIONS

1. “Calcul de la structure électronique d'alliages métalliques dilués par la méthode LMTO-ASA”  
N. Stefanou, Thèse de 3<sup>ème</sup> cycle, Université de Strasbourg (1984)
2. “Contribution à l' étude de la structure électronique des défauts dans les métaux ou composés intermétalliques”  
N. Stefanou, Thèse d' État, Université de Strasbourg (1986)

## PUBLICATIONS

### A. Papers in peer-reviewed journal

1. “Electronic structure of 3d-impurities in ferromagnetic iron”  
P. Léonard and N. Stefanou, *J. Physique* **43**, 1497 (1982)
2. “Point defects in ordered metallic compounds. I. Electronic structure calculation by the LMTO method”  
C. Koenig, N. Stefanou, and J.M. Koch, *Phys. Rev. B* **33**, 5307 (1986)
3. “Point defects in ordered metallic compounds. II. Self-consistent studies of vacancies in FeAl”  
J.M. Koch, N. Stefanou, and C. Koenig, *Phys. Rev. B* **33**, 5319 (1986)
4. “On the electronic structure of rare earth and actinide beryllides”  
N. Stefanou, *J. Phys. F* **16**, 837 (1986)
5. “Electronic structure of antistructure Co atoms and Co-vacancies in CoAl”  
N. Stefanou, R. Zeller, and P.H. Dederichs, *Solid State Commun.* **59**, 429 (1986)
6. “Ab-initio electronic structure calculations for point defects in CoAl and CoGa”  
N. Stefanou, R. Zeller, and P.H. Dederichs, *Phys. Rev. B* **35**, 2705 (1987)
7. “Charge and magnetization perturbations around impurities in nickel”  
N. Stefanou, A. Oswald, R. Zeller, and P.H. Dederichs, *Phys. Rev. B* **35**, 6911 (1987)
8. “Treatment of lattice relaxations in dilute alloys within the KKR Green's function method”  
N. Stefanou, P.J. Braspenning, R. Zeller, and P.H. Dederichs, *Phys. Rev. B* **36**, 6372 (1987)
9. “Electronic structure of CuPd alloys”  
N. Stefanou, R. Zeller, and P.H. Dederichs, *Solid State Commun.* **62**, 73 (1987)
10. “Electronic structure and magnetic properties of dilute Fe-alloys with transition metal impurities”  
B. Drittler, N. Stefanou, S. Blügel, R. Zeller, and P.H. Dederichs, *Phys. Rev. B* **40**, 8203 (1989)
11. “An efficient numerical method to calculate shape truncation functions for Wigner-Seitz atomic polyhedra”

- N. Stefanou, H. Akai, and R. Zeller, *Comput. Phys. Commun.* **60**, 231 (1990)
12. “Vacancy-solute interactions in Cu, Ni, Ag and Pd”  
U. Klemradt, B. Drittler, T. Hoshino, R. Zeller, P.H. Dederichs, and N. Stefanou, *Phys. Rev B* **43**, 9487 (1991)
  13. “Formation of local spin-moments of 3d impurities diluted in noble and alkali-metal hosts”  
N. Stefanou and N. Papanikolaou, *J. Phys.: Condens. Matter* **3**, 3777 (1991)
  14. “Calculation of shape-truncation functions for Voronoi polyhedra”  
N. Stefanou and R. Zeller, *J. Phys.: Condens. Matter* **3**, 7599 (1991)
  15. “Scattering of light from a two-dimensional array of spherical particles on a substrate”  
N. Stefanou and A. Modinos, *J. Phys.: Condens. Matter* **3**, 8135 (1991)
  16. “Optical properties of thin discontinuous metal films”  
N. Stefanou and A. Modinos, *J. Phys.: Condens. Matter* **3**, 8149 (1991)
  17. “Solute-vacancy interactions in Cu and Ag”  
N. Stefanou, N. Papanikolaou, and P.H. Dederichs, *J. Phys.: Condens. Matter* **3**, 8793 (1991)
  18. “Light scattering by non-spherical plasma-particles”  
V. Karathanos, A. Modinos, and N. Stefanou, *J. Physique I* **2**, 1279 (1992)
  19. “Scattering of electromagnetic waves by periodic structures”  
N. Stefanou, V. Karathanos, and A. Modinos, *J. Phys.: Condens. Matter* **4**, 7389 (1992)
  20. “First-principles calculations of the spin-orbit scattering cross section of sp impurities in Mg”  
N. Papanikolaou, N. Stefanou, P.H. Dederichs, S. Geier, and G. Bergmann, *Phys. Rev. Lett.* **69**, 2110 (1992)
  21. “Local spin-moments of transition metal impurities in monovalent simple-metal hosts”  
N. Papanikolaou, N. Stefanou, R. Zeller, and P.H. Dederichs, *Phys. Rev. B* **46**, 10858 (1992)
  22. “Can 5d and sp impurities be magnetic?”  
N. Papanikolaou, N. Stefanou, R. Zeller, and P.H. Dederichs, *Phys. Rev. Lett.* **71**, 629 (1993)
  23. “Observation of a resonance in the spin-orbit scattering of 5sp impurities in Mg and Cu”  
S. Geier, G. Bergmann, N. Papanikolaou, N. Stefanou, and P.H. Dederichs, *Solid State Commun.* **87**, 471 (1993)
  24. “The formation of localized moments in dilute alloys: a critical behaviour”  
N. Stefanou and N. Papanikolaou, *J. Phys.: Condens. Matter* **5**, 5663 (1993)
  25. “Scattering of electromagnetic waves by a disordered two-dimensional array of spheres”  
N. Stefanou and A. Modinos, *J. Phys.: Condens. Matter* **5**, 8859 (1993)
  26. “Calculation of the residual resistivity and the low-field Hall coefficient of 3d and 4sp impurities in aluminum”  
N. Papanikolaou, N. Stefanou, and C. Papastaikoudis, *Phys. Rev. B* **49**, 16117 (1994)
  27. “Planar defects in photonic crystals”

- V. Karathanos, A. Modinos, and N. Stefanou, *J. Phys.: Condens. Matter* **6**, 6257 (1994)
28. “Electronic structure of 4d impurities in Rb: a local-spin-density approximation +U density-functional study”  
N. Stefanou, *J. Phys.: Condens. Matter* **6**, 11221 (1994)
  29. “Optical activity of photonic crystals”  
V. Karathanos, N. Stefanou, and A. Modinos, *J. Mod. Opt.* **42**, 619 (1995)
  30. “Magnetic behavior of transition-metal impurities in alkali-earth metals”  
N. Papanikolaou, N. Stefanou, R. Zeller, and P.H. Dederichs, *Phys. Rev. B* **51**, 11473 (1995)
  31. “Low-temperature thermopower of Al-based dilute alloys”  
Ph. Mavropoulos, N. Papanikolaou, and N. Stefanou, *J. Phys.: Condens. Matter* **7**, 4665 (1995)
  32. “Localized electromagnetic modes in nonlinear superlattices”  
A. Modinos and N. Stefanou, *Phys. Rev. B* **54**, 16452 (1996)
  33. “Lattice distortion in Cu-based dilute alloys: a first-principles study by the KKR Green function method”  
N. Papanikolaou, R. Zeller, P.H. Dederichs, and N. Stefanou, *Phys. Rev. B* **55**, 4157 (1997)
  34. “Low-field galvanomagnetic properties of aluminum-based dilute alloys”  
Ph. Mavropoulos and N. Stefanou, *J. Phys.: Condens. Matter* **9**, 8997 (1997)
  35. “Theoretical analysis of the photonic band structure of fcc colloidal crystals”  
V. Yannopapas, N. Stefanou, and A. Modinos, *J. Phys.: Condens. Matter* **9**, 1261 (1997)
  36. “Low-field Hall coefficient of Al-4d dilute alloys: the role of the anisotropic impurity scattering”  
Ph. Mavropoulos, N. Papanikolaou, N. Stefanou, G. Apostolopoulos, N. Boukos, and C. Papastaikoudis, *Solid State Commun.* **106**, 405 (1998)
  37. “Impurity bands in photonic insulators”  
N. Stefanou and A. Modinos, *Phys. Rev. B* **57**, 12127 (1998)
  38. “Magnetic impurity states in simple metals: a study of the spin-polarization energy”  
Ph. Mavropoulos, N. Stefanou, and N. Papanikolaou, *Phys. Rev. B* **58**, 1096 (1998)
  39. “Heterostructures of photonic crystals: frequency bands and transmission coefficients”  
N. Stefanou, V. Yannopapas, and A. Modinos, *Computer Phys. Commun.* **113**, 49 (1998)
  40. “Hyperfine fields of sp impurities on Ni and Fe surfaces”  
Ph. Mavropoulos, N. Stefanou, B. Nonas, R. Zeller, and P.H. Dederichs, *Phys. Rev. Lett.* **81**, 1505 (1998)
  41. “Photonic crystals of chiral spheres”  
I.E. Psarobas, N. Stefanou, and A. Modinos, *J. Opt. Soc. Am. A* **16**, 343 (1999)
  42. “First-principles calculations for vacancy formation energies in Cu and Al: nonlocal effects beyond the LSDA and lattice distortion”  
T. Hoshino, N. Papanikolaou, R. Zeller, P.H. Dederichs, M. Asato, T. Asada, and N. Stefanou, *Comput. Mater. Sci.* **14**, 56 (1999)
  43. “Optical properties of metallodielectric photonic crystals”  
V. Yannopapas, A. Modinos, and N. Stefanou, *Phys. Rev. B* **60**, 5359 (1999)

44. "Scattering of electromagnetic waves by nearly periodic structures"  
A. Modinos, V. Yannopapas, and N. Stefanou, Phys. Rev. B **61**, 8099 (2000)
45. "Scattering of elastic waves by periodic arrays of spherical bodies"  
I.E. Psarobas, N. Stefanou, and A. Modinos, Phys. Rev. B **62**, 278 (2000)
46. "Phononic crystals with planar defects"  
I.E. Psarobas, N. Stefanou, and A. Modinos, Phys. Rev. B **62**, 5536 (2000)
47. "MULTEM 2: A new version of the program for transmission and band-structure calculations of photonic crystals"  
N. Stefanou, V. Yannopapas, and A. Modinos, Computer Phys. Commun. **132**, 189 (2000)
48. "Applications of the layer-KKR method to photonic crystals"  
A. Modinos, N. Stefanou, and V. Yannopapas, Opt. Express **8**, 197 (2001)  
**invited paper**
49. "Optical transparency of mesoporous metals"  
N. Stefanou, A. Modinos, and V. Yannopapas, Solid State Commun. **118**, 69 (2001)
50. "Effect of stacking faults on the optical properties of inverted opals"  
V. Yannopapas, N. Stefanou, and A. Modinos, Phys. Rev. Lett. **86**, 4811 (2001)  
**Also appeared** in Virtual Journal of Nanoscale Science & Technology **3** (22) MAY 28 (2001)
51. "Acoustic properties of colloidal crystals"  
I.E. Psarobas, R. Sainidou, N. Stefanou, and A. Modinos, Phys. Rev. B **65**, 064307 (2002)
52. "Waveguides of defect chains in photonic crystals"  
V. Yannopapas, A. Modinos, and N. Stefanou, Phys. Rev. B **65**, 235201 (2002)  
**Also appeared** in Virtual Journal of Nanoscale Science & Technology **5** (22) JUN 3 (2002)
53. "Scattering of elastic waves by a periodic monolayer of spheres"  
R. Sainidou, N. Stefanou, I.E. Psarobas, and A. Modinos, Phys. Rev. B **66**, 024303 (2002)
54. "Formation of absolute frequency gaps in three-dimensional solid phononic crystals"  
R. Sainidou, N. Stefanou, and A. Modinos, Phys. Rev. B **66**, 212301 (2002)
55. "Anderson localization of light in inverted opals"  
V. Yannopapas, A. Modinos, and N. Stefanou, Phys. Rev. B **68**, 193205 (2003)  
**Also appeared** in Virtual Journal of Nanoscale Science & Technology **8** (22) DEC 1 (2003)
56. "Optical excitation of coupled waveguide-particle plasmon modes: A theoretical analysis"  
V. Yannopapas, and N. Stefanou, Phys. Rev. B **69**, 012408 (2004)
57. "Green's function formalism for phononic crystals"  
R. Sainidou, N. Stefanou, and A. Modinos, Phys. Rev. B **69**, 064301 (2004)
58. "A layer-multiple-scattering method for phononic crystals and heterostructures of such"  
R. Sainidou, N. Stefanou, I.E. Psarobas, and A. Modinos, Computer Phys. Commun. **166**, 197 (2005)
59. "Optical properties of a periodic monolayer of metallic nanospheres on a dielectric waveguide"



- G. Gantzounis, N. Stefanou, and V. Yannopoulos, *J. Phys.: Condens. Matter* **17**, 1791 (2005)
60. “Widening of phononic transmission gaps via Anderson localization”  
R. Sainidou, N. Stefanou, and A. Modinos, *Phys. Rev. Lett.* **94**, 205503 (2005)
61. “Theoretical analysis of three-dimensional polaritonic photonic crystals”  
G. Gantzounis and N. Stefanou, *Phys. Rev. B* **72**, 075107 (2005)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **12** (7) AUG 15 (2005)
62. “The layer multiple-scattering method applied to phononic crystals”  
R. Sainidou, N. Stefanou, I.E. Psarobas, and A. Modinos, *Z. Kristallogr.* **220**, 848 (2005)  
**invited paper**
63. “Layer-multiple-scattering method for photonic crystals of nonspherical particles”  
G. Gantzounis and N. Stefanou, *Phys. Rev. B* **73**, 035115 (2006)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **13** (3) JAN 23 (2006)
64. “Guided and quasiguidded elastic waves in phononic crystal slabs”  
R. Sainidou and N. Stefanou, *Phys. Rev. B* **73**, 184301 (2006)
65. “Cavity-plasmon waveguides: Multiple scattering calculations of dispersion in weakly coupled dielectric nanocavities in a metallic host material”  
G. Gantzounis and N. Stefanou, *Phys. Rev. B* **74**, 085102 (2006)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **14** (7) AUG 14 (2006)
66. “Observation and tuning of hypersonic band gaps in colloidal crystals”  
W. Cheng, J. Wang, U. Jonas, G. Fytas, and N. Stefanou, *Nature Mater.* **5**, 830 (2006)  
**Featured** in *Research Highlights of Nature Nanotechnology* SEP 15 (2006)  
**Commented** by E.L Thomas, T. Gorishnyy, and M. Maldovan in *Nature Mater.* **5**, 773 (2006)  
**Highlighted** in *Research Vistas of Max Planck Society* NOV 2006  
**Featured** in *Heart Cut of the American Chemical Society* JAN 1 (2007)
67. “Linear chain of weakly coupled defects in a three-dimensional phononic crystal: A model acoustic waveguide”  
R. Sainidou, N. Stefanou, and A. Modinos, *Phys. Rev. B* **74**, 172302 (2006)
68. “Hypersonic acoustic excitations in binary colloidal crystals: Big versus small hard sphere control”  
G. Tommaseo, G. Petekidis, W. Steffen, G. Fytas, A. B. Schofield, and N. Stefanou, *J. Chem. Phys.* **126**, 014707 (2007)
69. “Propagation of electromagnetic waves through microstructured polar materials”  
G. Gantzounis and N. Stefanou, *Phys. Rev. B* **75**, 193101 (2007)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **15** (21) MAY 28 (2007)  
**Also appeared** in *Virtual Journal of THz Science & Technology*, MAY 2007
70. “Elastic properties and glass transition of supported polymer thin films”  
W. Cheng, R. Sainidou, P. Burgardt, N. Stefanou, A. Kiyanova, M. Efremov, G. Fytas, and P.F. Nealey, *Macromolecules* **40**, 7283 (2007)
71. “Tight-binding description of single-mode cavity-plasmon waveguides in the frequency and time domain”  
G. Gantzounis and N. Stefanou, *J. Phys.: Condens. Matter* **20**, 015202 (2008)

72. “Optical properties of periodic structures of metallic nanodisks”  
G. Gantzounis, N. Stefanou, and N. Papanikolaou, *Phys. Rev. B* **77**, 035101 (2008)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **17** (2) JANUARY 14 (2008)
73. “Collective plasmonic modes in ordered assemblies of metallic nanoshells”  
C. Tserkezis, G. Gantzounis, and N. Stefanou, *J. Phys.: Condens. Matter* **20**, 075232 (2008)
74. “Simultaneous occurrence of structure-directed and particle-resonance-induced phononic gaps in colloidal films”  
T. Still, W. Cheng, M. Retsch, R. Sainidou, J. Wang, U. Jonas, N. Stefanou, and G. Fytas, *Phys. Rev. Lett.* **100**, 194301 (2008)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **17** (21) MAY 26 (2008)
75. “Understanding artificial optical magnetism of periodic metal-dielectric-metal layered structures”  
C. Tserkezis, N. Papanikolaou, G. Gantzounis, and N. Stefanou, *Phys. Rev. B* **78**, 165114 (2008)
76. “Multiple-scattering calculations for plasmonic nanostructures”  
N. Stefanou, G. Gantzounis, and C. Tserkezis, *Int. J. Nanotechnol.* **6**, 137 (2009)  
**invited paper**
77. “Tailoring plasmons with metallic nanorod arrays”  
C. Tserkezis, N. Papanikolaou, E. Almpanis, and N. Stefanou, *Phys. Rev. B* **80**, 125124 (2009)  
**Also appeared** in *Virtual Journal of Nanoscale Science & Technology* **20** (14) OCTOBER 5 (2009)
78. “Retrieving local effective constitutive parameters for anisotropic photonic crystals”  
C. Tserkezis and N. Stefanou, *Phys. Rev. B* **81**, 115112 (2010)
79. “Absolute spectral gaps for infrared light and hypersound in three-dimensional metallodielectric phoxonic crystals”  
N. Papanikolaou, I.E. Psarobas, and N. Stefanou, *Appl. Phys. Lett.* **96**, 231917 (2010)
80. “Effective optical parameters of thin-film and bulk metamaterials of metallodielectric nanosandwiches”  
C. Tserkezis, N. Stefanou, and N. Papanikolaou, *Opt. Commun.* **283**, 4074 (2010)
81. “Uniaxial crystals of metallodielectric nanosandwiches: Effective optical parameters and negative refraction”  
C. Tserkezis and N. Stefanou, *J. Opt.* **12**, 115103 (2010)
82. “Extraordinary refractive properties of photonic crystals of metallic nanorods”  
C. Tserkezis, N. Stefanou, and N. Papanikolaou, *J. Opt. Soc. Am. B* **27**, 2620 (2010)
83. “Enhanced acousto-optic interactions in a one-dimensional phoxonic cavity”  
I.E. Psarobas, N. Papanikolaou, N. Stefanou, B. Djafari-Rouhani, B. Bonello and V. Laude, *Phys. Rev. B* **82**, 174303 (2010)
84. “Collective hypersonic excitations in strongly multiple scattering colloids”  
T. Still, G. Gantzounis, D. Kiefer, G. Hellmann, R. Sainidou, G. Fytas, and N. Stefanou, *Phys. Rev. Lett.* **106**, 175505 (2011)

- Also appeared** in Virtual Journal of Nanoscale Science & Technology **23** (19) MAY 16 (2011)
85. “Multiple-scattering calculations for layered phononic structures of nonspherical particles”  
G. Gantzounis, N. Papanikolaou, and N. Stefanou, Phys. Rev. B **83**, 214301 (2011)
  86. “Photonic eigenmodes and light propagation in periodic structures of chiral nanoparticles”  
A. Christofi, N. Stefanou, and G. Gantzounis, Phys. Rev. B **83**, 245126 (2011)
  87. “Spiral-staircase photonic structures of metallic nanorods”  
A. Christofi, N. Stefanou, G. Gantzounis, and N. Papanikolaou, Phys. Rev. B **84**, 125109 (2011)
- Also appeared** in Virtual Journal of Nanoscale Science & Technology **24** (12) SEPTEMBER 19 (2011)
88. “Photonic surface states in plasmonic crystals of metallic nanoshells”  
C. Tserkezis, N. Stefanou, G. Gantzounis, and N. Papanikolaou, Phys. Rev. B **84**, 115455 (2011)
  89. “Nonlinear interactions between high-Q optical and acoustic modes in dielectric particles”  
G. Gantzounis, N. Papanikolaou, and N. Stefanou, Phys. Rev. B **84**, 104303 (2011)
- Indexed** in Topics in Particle and Dispersion Science (<http://www.tpdsci.com>)
90. “Negative refraction in plasmonic crystals of metallic nanoshells”  
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N. Papanikolaou, N. Stefanou, R. Zeller, and P.H. Dederichs, NATO ASI: *Stability of Alloys*, Corfu, 6/1995 \*\*
34. “Μέθοδοι διαδοχικών στρωμάτων για τη μελέτη φωτονικών κρυστάλλων και συναφών προβλημάτων”  
A. Μοδινός, N. Στεφάνου, και B. Καραθάνος, XI Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ξάνθη, 9/1995 \*\*\*
35. “Μελέτη φαινομένων εφησυχασμού του κρυσταλλικού πλέγματος γύρω από προσμίξεις σε στερεά”  
N. Παπανικολάου, N. Στεφάνου, R. Zeller και P.H. Dederichs, XI Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ξάνθη, 9/1995 \*\*
36. “Θερμοϊσχύς αραιών κραμάτων αλουμινίου”  
Φ. Μαυρόπουλος, N. Παπανικολάου, και N. Στεφάνου, XI Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ξάνθη, 9/1995 \*\*
37. “Lattice relaxation in dilute alloys”  
N. Papanikolaou, N. Stefanou, R. Zeller, and P.H. Dederichs,  $\Psi_k$ -Network Conference: *Ab-initio (from electronic structure) calculation of complex processes in materials*, Schwäbisch Gmünd, Germany, 9/1996 \*\*
38. “Transport properties of aluminum-based dilute alloys”  
N. Stefanou, Ph. Mavropoulos, and N. Papanikolaou,  $\Psi_k$ -Network Conference: *Ab-initio (from electronic structure) calculation of complex processes in materials*, Schwäbisch Gmünd, Germany 9/1996 \*
39. “Μαγνητοαντίσταση αραιών κραμάτων αλουμινίου”  
Φ. Μαυρόπουλος και N. Στεφάνου, XII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ηράκλειο, 9/1996 \*
40. “Ab-initio study of the structural distortion and its influence on the magnetic properties of metallic dilute alloys”  
N. Papanikolaou, R. Zeller, P.H. Dederichs, and N. Stefanou, NFS/CNRS Workshop: *Alloy Theory*, Strasbourg, 10/1996 \*\*\*
41. “Ab-initio Berechnung der Gitterrelaxation in verdünnten Cu- und Al-Legierungen”  
P.H. Dederichs, N. Papanikolaou, R. Zeller, and N. Stefanou, Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Münster, 3/1997 \*\*
42. “Lattice relaxations around impurities in metals”  
P.H. Dederichs, N. Papanikolaou, N. Stefanou, and R. Zeller, International Symposium: *Novel Materials*, Puri-India, 3/1997 \*\*\*
43. “Θεωρία μέσου πεδίου για την αυτοεπαγόμενη διαφάνεια μη γραμμικών υπερπλεγμάτων”  
N. Στεφάνου και A. Μοδινός, XIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη, 9/1997 \*
44. “Μαγνητική ευστάθεια προσμίξεων σε απλά μέταλλα”  
Φ. Μαυρόπουλος, N. Στεφάνου και N. Παπανικολάου, XIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη, 9/1997 \*

45. “Διάδοση φωτός σε κolloειδείς κρυστάλλους”  
B. Γιαννόπαπας, N. Στεφάνου και A. Μοδινός, XIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη, 9/1997 \*
46. “Photonic crystals and related problems”  
A. Modinos and N. Stefanou, 1<sup>st</sup> Conference: *Materials Science*, Mu'tah University, Jordan, 11/1997 \*\*\*
47. “Hyperfeinfelder von Fremdatomen auf den (100) Oberflächen von Fe und Ni”  
Ph. Mavropoulos, N. Stefanou, B. Nonas, R. Zeller, and P.H. Dederichs, Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Regensburg, 3/1998 \*\*
48. “Lattice relaxations around transition-metal impurities in iron”  
T. Korhonen, N. Papanikolaou, N. Stefanou, R. Zeller, and P.H. Dederichs, Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Regensburg, 3/1998 \*\*
49. “Hyperfine fields of probe atoms on the (001) surface of Ni”  
Ph. Mavropoulos, N. Stefanou, B. Nonas, R. Zeller, and P.H. Dederichs, Annual meeting of the TMR Network *Interface Magnetism*, Vienna, 6/1998 \*\*
50. “Hyperfine fields of probe atoms on the Ni and Fe (001) surfaces”  
Ph. Mavropoulos, N. Stefanou, B. Nonas, R. Zeller, and P.H. Dederichs, *Kondensierte Materie: Forschung mit nuklearen Sonden und Ionenstrahlen*, Leipzig, 10/1998 \*\*
51. “Οπτικές ιδιότητες μεταλλοδιηλεκτρικών φωτονικών κρυστάλλων”  
B. Γιαννόπαπας, A. Μοδινός, και N. Στεφάνου, XV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Καταστάσεως, Πάτρα, 9/1999 \*\* (**Best Oral Presentation Award**)
52. “Φαινόμενα οπτικής ενεργότητας σε φωτονικούς κρυστάλλους”  
I.E. Ψαρόμπας, N. Στεφάνου, και A. Μοδινός, XV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Καταστάσεως, Πάτρα, 9/1999 \* (**Best Poster Award**)
53. “Scattering and absorption of light by periodic and nearly periodic metallodielectric structures”  
V. Yannopoulos, A. Modinos, and N. Stefanou, International Workshop: *Photonic and Electromagnetic Crystal Structures*, Sendai, Japan, 3/2000 \* (**Best Poster Award**)
54. “On wave propagation in inhomogeneous systems”  
A. Modinos, N. Stefanou, I.E. Psarobas, and V. Yannopoulos, International Symposium in honour of E.N. Economou, Crete, 6/2000 \*
55. “Band-structure and transmittance calculations for phononic crystals by the LKKR method”  
I.E. Psarobas, N. Stefanou, and A. Modinos, NATO ASI: *Photonic Crystals and Light Localization*, Crete, 6/2000 \*
56. “Effect of moderate disorder on the absorbance of plasma spheres distributed in a host dielectric medium”  
V. Yannopoulos, A. Modinos, and N. Stefanou, NATO ASI: *Photonic Crystals and Light Localization*, Crete, 6/2000 \*
57. “Ab-initio calculations for the electronic structure and transport properties of TMR junctions”  
M. Freyss, N. Papanikolaou, Ph. Mavropoulos, R. Zeller, P.H. Dederichs, and N. Stefanou,  $\Psi_k$  - Conference: 2000, Schwäbisch Gmünd, Germany 8/2000 \*

58. “Φωνονικοί κρύσταλλοι”  
I.E. Ψαρόμπαζ, Ν. Στεφάνου, και Α. Μοδινός, XVI Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ναύπλιο, 9/2000 \*\*
59. “Κυματοδηγοί προσμίξεων σε φωτονικούς κρυστάλλους”  
Β. Γιαννόπαπας, Α. Μοδινός, και Ν. Στεφάνου, XVI Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ναύπλιο, 9/2000 \*
60. “Anderson localization in inverted opals due to stacking faults”  
V. Yannopoulos, N. Stefanou, and A. Modinos, Electromagnetic Crystal Structures-Euroconference: *Electromagnetic Confinement: from Basic Research to the Marketplace*, St. Andrews, Scotland, 6/2001 \*
61. “Φωτονικοί κρύσταλλοι: θεωρία και εφαρμογές”  
Ν. Στεφάνου, Α. Μοδινός, και Β. Γιαννόπαπας, XVIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Ηράκλειο, 9/2002 \*\*\*
62. “Ελαστοδυναμική απόκριση δισδιάστατων και τρισδιάστατων κρυστάλλων μεταλλικών σφαιρών”  
Ρ. Σαϊνίδου, Ν. Στεφάνου, I.E. Ψαρόμπαζ, και Α. Μοδινός, XVIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Ηράκλειο, 9/2002 \*
63. “Photonic band gaps and disorder effects”  
Α. Modinos, Ν. Stefanou, and V. Yannopoulos, International Workshop: *Optical Properties of Complex Materials Over Different Length Scales*, San Sebastian, Spain, 7/2003 \*\*\*
64. “Photonic band structure and enhanced optical transmittance of mesoporous metals”  
V. Yannopoulos, Ν. Stefanou, and Α. Modinos, Euroconference on Nano-Optics: *Surface Plasmon Photonics*, Granada, Spain, 9/2003 \*
65. “The influence of waveguide modes on the extinction spectrum of metallic nanoparticles on a dielectric substrate”  
V. Yannopoulos, and Ν. Stefanou, Euroconference on Nano-Optics: *Surface Plasmon Photonics*, Granada, Spain, 9/2003 \*
66. “Χάσματα υβριδισμού σε φωνονικούς κρυστάλλους”  
Ρ. Σαϊνίδου, Ν. Στεφάνου, και Α. Μοδινός, XIX Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Θεσσαλονίκη, 9/2003 \*\*
67. “Οπτικές ιδιότητες συνθέτων συστημάτων μεταλλικών νανοσωματιδίων”  
Γ. Γκαντζούνης, Ν. Στεφάνου, και Β. Γιαννόπαπας, XX Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Ιωάννινα, 9/2004 \*
68. “Μέθοδος στρωματικής πολλαπλής σκέδασης για φωνονικούς κρυστάλλους και εφαρμογές της”  
Ρ. Σαϊνίδου, Ν. Στεφάνου, και Α. Μοδινός, XX Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Ιωάννινα, 9/2004 \*\*
69. “Photonic crystals: A novel class of functional materials”  
Α. Modinos and Ν. Stefanou, Workshop: *Functional Materials 2004*, Athens, Greece, 9/2004 \*\*\*
70. “Photonic Crystals”  
Ν. Stefanou and Α. Modinos, 2<sup>ο</sup> Συνέδριο Ελληνικής Κρυσταλλογραφικής Εταιρείας, Αθήνα, 10/2004 \*\*\*
71. “Scattering of light by a periodic array of metallic nanoparticles on a waveguide

- N. Stefanou, G. Gantzounis, and V. Yannopoulos, 2<sup>nd</sup> Conference on *Microelectronics, Microsystems and Nanotechnology 2004*, Athens, Greece, 11/2004 \*\*
72. “Διεύρυνση φωνονικών χασμάτων διέλευσης μέσω εντοπισμού Anderson”  
P. Σαϊνίδου, N. Στεφάνου, και A. Μοδινός, XXI Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Λευκωσία, 8/2005 \*\*
73. “Low-frequency absolute gaps in the phonon spectrum of macrostructured elastic media”  
N. Stefanou, R. Sainidou, and A. Modinos, Workshop: *Functional Materials 2005*, Athens, Greece, 9/2005 \*\*\*
74. “Κυματοδήγηση μέσω συζευγμένων ατελειών σε φωνονικούς κρυστάλλους”  
P. Σαϊνίδου, N. Στεφάνου, και A. Μοδινός, XXII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Πάτρα, 9/2006 \*\*
75. “Κυματοδήγηση φωτός μέσω πλασμονίων συζευγμένων νανοκυκλωμάτων”  
Γ. Γκαντζούνης και N. Στεφάνου, XXII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Πάτρα, 9/2006 \*\*
76. “Phononic band gaps in colloidal crystals at hypersonic frequencies”  
G. Fytas, W. Cheng, E. Nunez, U. Jonas, and N. Stefanou, 2007 APS March Meeting, Denver, Colorado, USA, 5-9/3/2007 \*\*
77. “Frequency and time domain analysis of cavity plasmon waveguides”  
G. Gantzounis and N. Stefanou, CLEO Europe IQEC 2007, Munich, Germany, 17-22/6/2007 \*
78. “Ηλεκτρομαγνητική απόκριση στην περιοχή των THz μικροδομημένων πολαριτονικών υλικών”  
Γ. Γκαντζούνης και N. Στεφάνου, XXIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Αθήνα, 9/2007 \*\*
79. “Οπτικές ιδιότητες περιοδικών δομών μεταλλικών νανοφλοιϊών”  
Χ. Τσερκέζης, Γ. Γκαντζούνης και N. Στεφάνου, XXIII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης & Επιστήμης Υλικών, Αθήνα, 9/2007 \*
80. “Killing Bragg phononic band gaps in colloidal films”  
T. Still, W. Cheng, M. Retsch, R. Sainidou, J. Wang, U. Jonas, N. Stefanou, and G. Fytas, 2007 Bayreuth Polymer Symposium, Bayreuth, Germany, 9-11/9/2007 \*
81. “Optical properties of two-dimensional periodic arrays of metallodielectric nanosandwiches”  
N. Papanikolaou, G. Gantzounis, and N. Stefanou, 3<sup>rd</sup> International Conference *Micro & Nano 2007*, NCSR Demokritos, Athens, Greece, 18-21/11/2007 \*
82. “Calculations of the optical response of metallo-dielectric nanostructures of non-spherical particles by a layer-multiple-scattering method”  
N. Papanikolaou, G. Gantzounis, and N. Stefanou, SPIE Europe *Photonics Europe*, Strasbourg, France, 8-10/4/2008 \*\*
83. “Plasmonic excitations in ordered assemblies of metallic nanoshells”  
N. Stefanou, C. Tserkezis, and G. Gantzounis, SPIE Europe *Photonics Europe*, Strasbourg, France, 8-10/4/2008 \*\*
84. “Φωτονικά και φωνονικά μεταϋλικά”  
N. Στεφάνου, A. Μοδινός, Ι.Ε. Ψαρόμπα, P. Σαϊνίδου, Γ. Γκαντζούνης, και Χ. Τσερκέζης, Ανοιχτή Δημερίδα *Η Έρευνα στο Τμήμα Φυσικής του ΕΚΠΑ*, Αθήνα, 26-27/5/2008 \*\*

85. “Phononic properties of colloidal particles and nanostructured films”  
M. Retsch, T. Still, W. Cheng, R. Sainidou, U. Jonas, N. Stefanou, and G. Fytas, Macromolecular Colloquium 2009, Freiburg, GERMANY, 26-28/2/2009 \*
86. “Negative effective permeability of multilayers of ordered arrays of metal-dielectric nanosandwiches”  
C. Tserkezis, N. Stefanou, G. Gantzounis, and N. Papanikolaou, SPIE Europe Optics + Optoelectronics, Prague, CZECH REPUBLIC, 20-23/4/2009 \*\*
87. “Complex plasmonic nanostructures and optical metamaterials: Studies by the layer-multiple-scattering method”  
N. Stefanou, N. Papanikolaou, and C. Tserkezis, 8<sup>th</sup> International Conference on Electrical, Transport and Optical Properties of Inhomogeneous Media, Rethymnon, GREECE, 7-12/6/2009 \*\*\*
88. “Optical response of plasmonic nanoantenna arrays”  
E. Almpanis, N. Papanikolaou, C. Tserkezis, and N. Stefanou, XXV Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, GREECE, 20-23/9/2009 \*
89. “Coupled plasmons and resonant effective permeability of metal-dielectric-metal nanosandwich assemblies”  
C. Tserkezis, N. Stefanou, and N. Papanikolaou, XXV Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, GREECE, 20-23/9/2009 \*\*
90. “Confined photons and phonons in nanopatterned silicon films”  
N. Papanikolaou, E. Almpanis, and N. Stefanou, 2<sup>nd</sup> Mediterranean Conference on Nanophotonics, MEDINANO-2, Athens, GREECE, 26-27/10/2009 \*\*
91. “Multiple-scattering calculations for photons and phonons in nanostructures”  
G. Gantzounis, N. Papanikolaou, and N. Stefanou, Workshop on Nanoparticles, Nanostructures and Near-field Computation, Bremen, GERMANY, 11 & 12/3/2010 \*\*\*
92. “Metallodielectric phoxonic nanostructures”  
I.E. Psarobas, N. Papanikolaou, and N. Stefanou, XXVI Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, GREECE, 26-29/9/2010 \*\*
93. “Phoxonic band gaps and waveguiding in nanostructured silicon slabs”  
E. Almpanis, G. Gantzounis, N. Papanikolaou, and N. Stefanou, XXVI Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, GREECE, 26-29/9/2010 \*\*
94. “All-angle homogenization of anisotropic photonic metamaterials”  
C. Tserkezis and N. Stefanou, XXVI Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, GREECE, 26-29/9/2010 \*\*
95. “Plasmonic nanostructures”  
N. Stefanou, Ημερίδα Ενδοπανεπιστημιακού Δικτύου: Νανοφωτονική-Προηγμένα Υλικά «50 χρόνια LASER», Πανεπιστήμιο Πατρών, 6/12/2010 \*\*\*
96. “Optical modes of chiral photonic composites”  
A. Christofi, N. Stefanou, and S. Thanos, Fourth International Conference *Micro & Nano 2010*, NCSR “Demokritos”, Athens, GREECE, 12-15/12/2010 \*
97. “Light modulation in phoxonic nanocavities”  
N. Papanikolaou, I.E. Psarobas, N. Stefanou, B. Djafari-Rouhani, B. Bonello, and V. Laude, Fourth International Conference *Micro & Nano 2010*, NCSR

- “Demokritos”, Athens, GREECE, 12-15/12/2010 \*\* (**Best Oral Presentation Award**)
98. “Collective plasmon modes and negative refraction in metallodielectric nanostructures”  
C. Tserkezis, N. Stefanou, and N. Papanikolaou, Workshop on Metamaterials and 4<sup>th</sup> Young Scientist Meeting on Metamaterials, Valencia, SPAIN, 14-16/2/2011 \*\* (**Best Paper Prize**)
  99. “High elastic impedance contrast polymer and colloid based phononics”  
D. Schneider, T. Still, G. Fytas, G. Gantzounis, and N. Stefanou, APS March Meeting 2011, Vol.56, No.1, Dallas, Texas, USA 21-25/4/2011 \*
  100. “PhoXonic architectures for tailoring the acousto-optic interaction”  
N. Papanikolaou, I.E. Psarobas, G. Gantzounis, E. Almpanis, N. Stefanou, B. Djafari-Rouhani, B. Bonello, V. Laude, and A. Martinez, SPIE Europe *Optics + Optoelectronics*, Prague, CZECH REPUBLIC, 18-21/4/2011 \*\*
  101. “Multi-phonon processes in phoXonic cavities”  
I.E. Psarobas, N. Papanikolaou, and N. Stefanou, PHONONICS 2011, First International Conference on Phononic Crystals, Metamaterials, and Optomechanics, Santa Fe, New Mexico, USA 29/5-02/6/2011 \*\*\*
  102. “Controlling light with plasmonic nanostructures”  
N. Papanikolaou, C. Tserkezis, G. Gantzounis, E. Almpanis, and N. Stefanou, XXVII Panhellenic Conference on Solid State Physics & Materials Science, Lemesos, CYPRUS, 18-21/9/2011 \*\*\*
  103. “Chiral metamaterials of metallic nanorods”  
A. Christofi, N. Stefanou, G. Gantzounis, and N. Papanikolaou, XXVII Panhellenic Conference on Solid State Physics & Materials Science, Lemesos, CYPRUS, 18-21/9/2011 \*\*
  104. “Acousto-optical engineering in polymeric multilayers”  
E. Almpanis, N. Papanikolaou, I.E. Psarobas, N. Stefanou, N. Glezos, B. Djafari-Rouhani, B. Bonello, V. Laude, and A. Martinez, XXVII Panhellenic Conference on Solid State Physics & Materials Science, Lemesos, CYPRUS, 18-21/9/2011 \*\*
  105. “Negative refraction and polarization filtering in a photonic crystal of metallic nanoshells”  
C. Tserkezis and N. Stefanou, Fifth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, Barcelona, SPAIN, 10-15/10/2011 \*
  106. “Multiphonon acousto-optic interactions in normal and oblique incidence inside a one-dimensional phoxonic cavity”  
G. Lévêque, E.H. El Boudouti, A. Akjouj, Y. Pennec, B. Djafari-Rouhani, I.E. Psarobas, N. Papanikolaou, N. Stefanou, and V. Laude, SPIE Photonics West *Opto*, San Francisco, USA, 21-26/1/2012 \*\*
  107. “Dynamically tuned zero-gap phoxonic systems”  
I.E. Psarobas, V. Yannopapas, N. Papanikolaou, and N. Stefanou, SPIE *Smart Structures/NDE*, San Diego, California, USA, 11-15/3/2012 \*\*
  108. “Helical assemblies of plasmonic nanorods as chiral metamaterials”  
A. Christofi, N. Stefanou, G. Gantzounis, and N. Papanikolaou, SPIE Photonics Europe, Brussels, BELGIUM, 16-20/4/2012 \*\* (**Best Student Paper Award**)
  109. “Acousto-optic interaction enhancement in dual photonic-phononic cavities”



- N. Papanikolaou, G. Gantzounis, E. Almpanis, and N. Stefanou, SPIE Photonics Europe, Brussels, BELGIUM, 16-20/4/2012 \*\*
110. “Multiphonon acousto-optic interactions in normal and oblique incidence inside a one-dimensional phononic cavity”  
G. Lévêque, E.H. El Boudouti, A. Akjouj, Y. Pennec, B. Djafari-Rouhani, I.E. Psarobas, N. Papanikolaou, N. Stefanou, and V. Laude, SPIE Photonics Europe, Brussels, BELGIUM, 16-20/4/2012 \*
  111. “Efficient control of spontaneous light emission by elastic waves”  
E. Almpanis, G. Gantzounis, I.E. Psarobas, N. Papanikolaou, C. Tserkezis, N. Stefanou, B. Djafari-Rouhani, Y. Pennec, V. Laude, and A. Martinez, E-MRS Spring Meeting, Strasbourg, FRANCE, 14-18/5/2012 \*\*
  112. “Elastic-wave modulated spontaneous light emission in multilayers”  
E. Almpanis, N. Papanikolaou, G. Gantzounis, and N. Stefanou, 5<sup>th</sup> International Conference on Micro-Nanoelectronics and MEMS, Heraklion, GREECE, 7-10/10/2012 \*
  113. “Electromagnetic multiple scattering by periodic assemblies of gyrotropic spheres”  
A. Christofi and N. Stefanou, 14<sup>th</sup> Electromagnetic and Light Scattering Conference, Lille, FRANCE, 17-21/6/2013 \*\*\*
  114. “Nonreciprocal plasmonic nanoarchitectures”  
A. Christofi and N. Stefanou, XXIX Panhellenic Conference on Solid State Physics & Materials Science, Athens, GREECE, 22-25/9/2013 \*\*
  115. “Electromagnetic multiple scattering method for layer-by-layer periodic structures of magnetized spheres and some applications to nonreciprocal plasmonic nanoarchitectures”  
A. Christofi and N. Stefanou, MRS Fall Meeting & Exhibit, Boston, Massachusetts, USA, 1-6/12/2013 \* (**Graduate Student Silver Award**)
  116. “Simultaneously resonant optical and elastic waves for enhanced acousto-optic interaction”  
N. Papanikolaou, E. Almpanis, and N. Stefanou, E-MRS Spring Meeting, Lille, FRANCE, 26-30/5/2014 \*
  117. “Light-sound interaction and spontaneous emission control in dual photonic-phononic microcavities”  
E. Almpanis, N. Papanikolaou, and N. Stefanou, XXX Panhellenic Conference on Solid State Physics & Materials Science, Heraklion, GREECE, 21-24/9/2014 \*\*
  118. “Optical properties of magnetoplasmonic nanoparticles with core-shell morphology and periodic structures of such”  
A. Christofi, P. Varytis, and N. Stefanou, 15<sup>th</sup> Electromagnetic and Light Scattering Conference, Leipzig, GERMANY, 21-26/6/2015 \*\*\* (**Peter C. Waterman Award**)
  119. “Engineering giant circular dichroism in silver-coated magnetodielectric nanoparticles”  
P. Varytis, N. Stefanou, A. Christofi, and N. Papanikolaou, XXXI Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, GREECE, 20-23/9/2015 \*\*
  120. “Influence of nonlocality on fluorescence from dipolar emitter coupled to a metallic nanoshell”

- C. Tserkezis, M. Wubs, N.A. Mørtensen, and N. Stefanou, XXXI Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, GREECE, 20-23/9/2015 \*
121. “Dual photonic-phononic nanocavities for tailoring the acousto-optic interaction”  
N. Papanikolaou, E. Almpanis, G. Gantzounis, A. Christofi, L. Athanasekos, and N. Stefanou, 6<sup>th</sup> International Conference on Micro-Nanoelectronics, Nanotechnologies and MEMS, Athens, GREECE, 4-7/10/2015 \*\*\*
  122. “Magnetoplasmonic nanostructures”  
N. Stefanou, 1<sup>st</sup> Panhellenic Photonics Conference, Athens, GREECE, 16-17/5/2016 \*\*\*
  123. “Periodic arrays of film-coupled nanoparticles as tunable all-dielectric metasurfaces”  
E. Almpanis, N. Papanikolaou, V. Yannopapas, and N. Stefanou, 7<sup>th</sup> International Conference on Metamaterials, Photonic Crystals, and Plasmonics, Malaga, SPAIN, 25-28/7/2016 \*\*
  124. “Optimizing plasmon-enhanced fluorescence with nonlocal metallic nanospheres”  
C. Tserkezis, N. Stefanou, M. Wubs, and N.A. Mørtensen, 14<sup>th</sup> International Conference on Near-Field Optics, Nanophotonics and Related Techniques, Hamamatsu, JAPAN, 4-8/9/2016 \*
  125. “Hypersonic phononic crystals made of poroelastic spheres”  
A. Alevizaki, R. Sainidou, P. Rembert, B. Morvan, and N. Stefanou, XXXII Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, GREECE, 18-21/9/2016 \* (**Best Poster Award**)
  126. “The layer-multiple-scattering method applied to phononic crystals involving complex particles: Some recent advances”  
R. Sainidou, P. Rembert, A. Alevizaki, B. Morvan, and N. Stefanou, 1<sup>st</sup> International Workshop on Advances in Mechanical Metamaterials, Trento, ITALY, 10-11/10/2016 \*\*
  127. “Plasmon-enhanced fluorescence near nonlocal metallic nanospheres”  
C. Tserkezis, N. Stefanou, M. Wubs, and N.A. Mørtensen, International Workshop on Strong Coupling with Organic Molecules, San Sebastián, SPAIN, 19-21/10/2016 \*
  128. “Liquid-filled double-porosity granular media: A novel class of phononic crystals”  
A. Alevizaki, R. Sainidou, P. Rembert, B. Morvan, and N. Stefanou, 11<sup>th</sup> International Congress on Engineered Material Platforms for Novel Wave Phenomena - Metamaterials, Marseille, FRANCE, Aug. 28 - Sept. 2 / 2017 \*\*
  129. “Brillouin light scattering by single spherical particles: An exact analytical approach”  
A. Alevizaki, R. Sainidou, P. Rembert, B. Morvan, and N. Stefanou, 14<sup>ème</sup> Congrès Français d’ Acoustique, Le Havre, FRANCE, 23-27/4/2018 \*
  130. “Simultaneous localization of light and spin waves in dielectric magnetic layered structures for enhanced photon-magnon interaction”  
P. A. Pantazopoulos, N. Stefanou, E. Almpanis, and N. Papanikolaou, OSA Advanced Photonics Congress, Zürich, SWITZERLAND, 02-05/7/2018 \*\*
  131. “Metasurfaces and the control of light at the nanoscale”  
E. Almpanis, M. Panagiotidis, N. Papanikolaou, P. A. Pantazopoulos, N. Stefanou, and K. L. Tsakmakidis, 15<sup>th</sup> International Conference on Nanosciences and Nanotechnologies, Thessaloniki, GREECE, 03-06/7/2018 \*\*\*

132. “Photomagnonic cavities for enhanced modulation of light by spin waves: A quasistatic approach”  
E. Almpanis, P. A. Pantazopoulos, N. Papanikolaou, and N. Stefanou, 3<sup>rd</sup> International Advanced School on Magnonics 2018, Kyiv, UKRAINE, 17-21/9/2018 \*\*
133. “Photomagnonic nanostructures: A new class of multifunctional composite materials for controlling the light–spin-wave interaction”  
P. A. Pantazopoulos, N. Papanikolaou, and N. Stefanou, XXXIII Panhellenic Conference on Solid State Physics and Materials Science, Nicosia, CYPRUS, 17-19/9/2018 \*\*
134. “Strong nonreciprocal optical effects in multilayer heterostructures and metamaterials of chiral and magnetic constituents”  
A. Christofi and N. Stefanou, XXXIII Panhellenic Conference on Solid State Physics and Materials Science, Nicosia, CYPRUS, 17-19/9/2018 \*\*
135. “Giant optical activity in chiral/magnetic layered heterostructures and metamaterials”  
A. Christofi and N. Stefanou, E-MRS Spring Meeting, Symposium N: Nano-engineered coatings and thin films—from design to applications, Nice, FRANCE, 27-31/5/2019 \*
136. “Planar optomagnonic cavities: Adiabatic description and beyond”  
P. A. Pantazopoulos and N. Stefanou, MAGNONICS 2019, Carovigno (BR), ITALY, 28/7-1/8/2019 \* (**Best Poster Award**)
137. “Scattering by a magnetized cold plasma body”  
G. P. Zouros, G. D. Kolezas, N. Stefanou and J. A. Roumeliotis, International Conference on Electromagnetics in Advanced Applications–IEEE APWC, Granada, SPAIN, 9-13/9/2019 \*\*
138. “Tailoring the dispersion properties of guided waves in piezoelectric phononic crystals”  
F. Chikh-Bled, K. Mekrache, R. Sainidou, P. Rembert, N. Stefanou and B. Morvan, Forum Acusticum, Lyon, FRANCE, 7-11/12/2020 \*\*
139. “Micron-sized spherical optomagnonic resonators”  
E. Almpanis, G. P. Zouros, P. A. Pantazopoulos, K. L. Tsakmakidis, N. Papanikolaou and N. Stefanou, The European Conference “Physics of Magnetism 2021”, Poznań, POLAND, June 28- July 2, 2021 \*\*
140. “Light propagation in time-varying environments using multipolar multiple scattering method”  
E. Panagiotidis, E. Almpanis, N. Stefanou, and N. Papanikolaou, OASIS 8-International Conference & Exhibition on Optics and Electro-Optics, Tel Aviv, ISRAEL, December 12-13, 2022 \*
141. “Nonlinear waves in bistable mechanical metamaterials and transition waves”  
A. Paliovaivos, V. Achilleos, G. Theocharis, V. Tournat, and N. Stefanou, PHONONICS 2023, Manchester, ENGLAND, June 12- 16, 2023 \*
142. “Efficient modeling of electromagnetic wave scattering from space-time-periodic structures using the photonic layer multiple scattering method”  
E. Panagiotidis, I. Stefanou, E. Almpanis, K. L. Tsakmakidis, N. Stefanou, and N. Papanikolaou, METAMATERIALS ’2023, Crete, GREECE, September 11-16, 2023 \*\*
143. “The photonic layer multiple scattering method for space-time periodic structures”

E. Almpanis, E. Panagiotidis, I. Stefanou, N. Stefanou, and N. Papanikolaou,  
Bremen Workshop on Light Scattering 2024, Bremen, GERMANY, March  
18-19, 2024 \*\*