

## RESUME

### HAMİT YURTSEVEN

Department of Physics  
Middle East Technical University  
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Date of Birth : 23.9.1955

### EDUCATION

- |                              |  |
|------------------------------|--|
| 1972-1973                    | Hacettepe University Preparatory School (1 year)<br>Ankara.      |
| 1973-1977                    | Hacettepe University Physics Engineering<br>Ankara.              |
| 1979(Winter-Term)            | Oxford Academy of English<br>Oxford-England.                     |
| 1979(October)-<br>1984(July) | King's College London (University of London)<br>Ph.D. in Physics |

### WORK EXPERIENCE

- |                                     |   |
|-------------------------------------|---|
| 2003 (September)                    | Middle East Technical University, Prof.   |
| 1994 (April)                        | Istanbul Technical University, Prof.  |
| 1988 (September)-<br>1989 (October) | ICTP, Trieste,<br>Department of Mechanical Engineering<br>II Università di Roma, Tor Vergata, Roma,<br>Italy and Department of Energy (Dip. di Energetica),<br>Università di Roma La Sapienza, Roma-Italy<br>(Italian Laboratory Program) |

### RECENT RESEARCH FIELDS

Raman Scattering, Phase Transitions in Molecular Crystal Systems, Liquid Crystals, Mean Field Theory

### CONFERENCES ATTENDED

1. XV European Congress on Molecular Spectroscopy, 1981, Norwich, England.
2. VIII International Conference on Raman Spectroscopy, 1982, Bordeaux, France.
3. Solid State Physics Conference, Bedford College (University of London) 1982, London, England.
4. International Symposium on "Hopping Transport and Related Phenomena", September 1985, ICTP, Trieste, Italy.

- 5.** XI International Conference on Amorphous and Liquid Semiconductors, September 1985, Rome, Italy.
- 6.** XVII European Congress on Molecular Spectroscopy, September 1985, Madrid, Spain.
- 7.** Research Workshop on " Condensed Matter, Atomic and Molecular Physics", 3-19 July 1986, ICTP, Trieste, Italy.
- 8.** 31 st Scottish Universities Summer School on "Localisation and Interaction in Disordered and Doped Semiconductors", 21 July-6 August 1986, St.Andrews, Scotland, U.K.
- 9.** Summer School on "Low-Dimensional Conductors and Superconductors" 24 August-6 September 1986, Quebec, Canada.
- 10.** Symposium on the Application of the Computer Simulation Methods to the Problems of Physics and Mechanics, Bogaziçi University, Istanbul, Turkey, January 1987.
- 11.** XI th AIRAPT International Conference "High Pressure Science and Technology", July 12-17, 1987, Kiev, USSR.
- 12.** Second International Conference on "Hopping Transport and Related Phenomena", August 18-21, 1987, Bratislava, Czechoslovakia.
- 13.** 6 th International Conference on "Fourier Transform Spectroscopy", August 24-28, 1987,Vienna, Austria.
- 14.** EUCMOS XVIII th European Congress on Molecular Spectroscopy, August 30-September 4,1987. Amsterdam, The Netherlands
- 15.** Spring School on Surface Science and Technology, Bilkent University, Ankara, Turkey, May 9-13, 1988.
- 16.** Research Workshop on "Condensed Matter, Atomic ad Molecular Physics", ICTP, Trieste, Italy, August 22-September 12,1988.
- 17.** Meeting on Rational Mechanics and Analysis, Pisa, Italy, May 22-26, 1989.
- 18.** International Workshop on Problems in Liquid Crystals and Multiphase Crystals, Trieste, Italy, May 29-June 1, 1989.
- 19.** XXI st AIRAPT International Conference "High Pressure Science and Technology", July 17-21, 1989, Paderborn, W. Germany.
- 20.** International School of Quantum Electronics : 16 th Course on Phase Transitions in Liquid Crystals, Ettore Majorana Centre for Scientific Culture, May 2-12, 1991, Erice, Italy.
- 21.** International Symposium on Molecular Spectroscopy, Ohio State University, June 15-19, 1992, Columbus, OH, USA.
- 22.** International School of Material Science and Technology : Applied Magnetism Course. Ettore Majorana Centre for Scientific Culture, July 1-12, 1992, Erice, Italy.
- 23.** Institut D'etudes Scientifiques de Cargese, NATO/ASI on "Laser Interaction with Atoms, Solids and Plasmas, August 17-29,1992.

- 24.** XIII th Int. Conference on Raman Spectroscopy, Würzburg, Germany, August 31-September 4, 1992.
- 25.** European Conference on Liquid Crystals Science and Technology, 7-12 March 1993, Films, Switzerland.
- 26.** International Symposium on Molecular Spectroscopy, Ohio State University, June 14-18, 1993, Columbus, OH, USA.
- 27.** Summer School on "Research Advances in Statistical Physics", 25 July-7 August 1993, Istanbul Technical University, Istanbul- Turkey.
- 28.** Research Workshop on "Condensed Matter, Atomic and Molecular Physics, ICTP, Trieste, Italy, August 9-23, 1993.
- 29.** ITU, Statistical Physics Days, 14-15 July 1994, Istanbul Technical University, Istanbul.
- 30.** International Symposium on Molecular Spectroscopy, Ohio State University, June 12-16, 1995, Columbus, Ohio, USA.
- 31.** NATO-ASI on Low Temperature Molecular Spectroscopy, 3-15 September 1995, Sintra, Portugal.
- 32.** International Symposium on Molecular Spectroscopy, Ohio State University, June 10-14, 1996, Ohio, Columbus, USA.
- 33.** ITU, Statistical Physics Days, 18-19 July 1996, Istanbul Technical University, Istanbul-Turkey .
- 34.** International Symposium on Molecular Spectroscopy, June 16-20,1997, Ohio, Columbus, USA
- 35.** ITU, Statistical Physics Days, 17-18 July 1997, Istanbul Technical University, Istanbul-Turkey. .
- 36.** International Symposium on Molecular Spectroscopy, June 15-19,1998, Ohio, Columbus, USA.
- 37.** ITU, Statistical Physics Days, 16-17 July, 1998, Istanbul Technical University, Istanbul-Turkey
- 38.** ITU, Statistical Physics Days, 15-16 July, 1999, Istanbul Technical University, Istanbul-Turkey
- 39.** International Symposium on Molecular Spectroscopy, June 14-18,1999, Ohio, Columbus, USA.
- 40.** ITU, Statistical Physics Days, July, 2000, Istanbul Technical University, Istanbul-Turkey
- 41.** ITU, Statistical Physics Days, July, 2001, Istanbul Technical University, Istanbul-Turkey
- 42.** International Symposium on Molecular Spectroscopy, June 21-25 2004, Ohio, Columbus, USA.

- 43.** International Symposium on Molecular Spectroscopy, June 20-24 2005, Ohio, Columbus, USA.
- 44.** 10<sup>th</sup> Conference on Ferroelectric Liquid Crystals, 12-17 September 2005, Stare Jablonki, Poland.
- 45.** Theoretical Condensed Matter Workshop in Honor of Prof. Tomak, 22-23 December 2005, METU, Ankara, Turkey
- 46.** The 20<sup>th</sup> ICORS, International Conference on Raman Spectroscopy, 20-25 August 2006, Yokohama, Japan.
- 47.** EUCMOS XXVIII, European Congress on Molecular Spectroscopy, 3-8 September 2006, Istanbul, Turkey
- 48.** 13<sup>th</sup> Condensed Matter Physics, 3 November, 2006, METU, Ankara, Turkey
- 49.** First Asian Spectroscopy Conference and Asian Biospectroscopy Conference, 29<sup>th</sup> January- 2<sup>nd</sup> February, 2007, Bangalore, India.
- 50.** Interdisciplinary Transport Phenomena Conference V: Fluid, Thermal, Biological, Materials and Space Sciences, 14-19 October, 2007, Bansko, Bulgaria.
- 51.** 14<sup>th</sup> Condensed Matter Physics, 2 November 2007, Hacettepe University, Ankara, Turkey
- 52.** 2<sup>nd</sup> International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008), 24-28 February, 2008, Trivandrum, India.
- 53.** XXIX European Congress on Molecular Spectroscopy (EUCMOS 2008), 31<sup>st</sup> August-5<sup>th</sup> September, 2008, Opatija, Croatia.
- 54.** 15<sup>th</sup> Condensed Matter Physics, 7 November 2008, Bilkent University, Ankara, Turkey
- 55.** International Symposium on Molecular Spectroscopy (64<sup>th</sup> OSU), 22-26 June, 2009, Ohio, Columbus, USA.
- 56.** Interdisciplinary Transport Phenomena Conference VI: Fluid, Thermal, Biological, Materials and Space Sciences, 5-9 October 2009, Volterra, Italy.
- 57.** 16<sup>th</sup> Condensed Matter Physics, 6 November 2008, Gazi University, Ankara, Turkey.
- 58.** 7<sup>th</sup> Asian Meeting on Ferroelectricity and Electroceramics, AMF-AMEC 2010, June 28-July 1, 2010, Jeju Island, South Korea.
- 59.** 30<sup>th</sup> European Congress on Molecular Spectroscopy (EUCMOS 2010), 29 August-3 September 2010 Florence, Italy.
- 60.** Turkish Physical Society, 27<sup>th</sup> International Physics Congress, 14-17 September 2010 Istanbul University, Istanbul, Turkey.
- 61.** 17<sup>th</sup> Condensed Matter Physics, 5 November 2010, Ankara University, Ankara-Turkey.

62. The 3rd Chongqing International Clinical Neuroscience Forum and Neurodrug Conference, 21-23 October, 2011, Chongqing, China.
63. The Third Asian Spectroscopy Conference, ASC' II, November 28- December 1, 2011, Xiamen, China.
64. International Conference of Molecular Spectroscopy. June 18-22, 2012, Ohio State University, Ohio, Columbus, USA.
65. The 8 th Asian Meeting on Ferroelectrics (AMF-8), 9-14 December 2012, Pattaya, Thailand.

### SCIENTIFIC PAPERS

1. H. Yurtseven, and W.F. Sherman, J.Mol.Struc. 80 (1982) 217  
"Raman Study  $\text{NH}_4\text{Cl}$  Near the Tricritical Point".
2. H. Yurtseven, and W.F. Sherman, J.Mol.Struc. 115 (1984) 169.  
"Continuous and Discontinuous Phase Transitions in Ammonium Halides".
3. H. Yurtseven and W.F. Sherman, J.Mol.Struc. 115 (1984) 173.  
"Raman Spectra, Pippard Relations and Critical Exponents for  $\text{NH}_4\text{Cl}$ "
4. Sherman, W.F. and H. Yurtseven, J.Mol.Struc. 143 (1986) 101.  
"Raman Study of Ammonium Halides Treated as an Ising Pseudospin-Phonon Coupled System".
5. H. Yurtseven and W.F. Sherman, J.Mol.Struc. 143 (1986) 21  
"General Thermodynamic Treatment of Ammonium Chloride System Close to Phase Transitions"
6. H. Yurtseven and W.F. Sherman, Microchim.Acta (Wien), I(1988)125.  
"Spectroscopic Intensities as Measures of Order Parameter Close to Order-Disorder Transitions".
7. H. Yurtseven and W.F. Sherman, J.Mol.Struc. 175(1988)459-464.  
"The Influence of Disorder on the Group Theoretically Derived Selection Rules in Ammonium Halides".
8. H. Yurtseven and W.F. Sherman, J.Mol.Struc 175 (1988)465- 470.  
"The Band-Fitting Analysis of the Raman Spectra Close to Phase Transitions".
9. H. Yurtseven and W.F. Sherman, High Pressure Research,4(1990)508-510.  
"Raman Study of  $\text{NH}_4\text{Cl}$  at High Pressures".
10. W.F. Sherman, and H. Yurtseven, J.Mol.Struc. 247 (1991)61-71.  
"Critical Values for Specific Heat from Raman Data".
11. H. Yurtseven, J. Mol.Liq.54 (1992)51-56.  
"Nematic-Smectic A Tricritical Phase Transition in Binary Mixtures of Liquid Crystals".
12. H. Yurtseven and S. Salihođlu, J.Mol.Liq.54 (1992)155-172.  
"Mean Field Theory of the Nematic-Smectic A Phase Transition in a Mixture of Liquid Crystals".

- 13.** H. Yurtseven and W.F. Sherman, J. Mol. Struc., 294(1993)175-178  
"The Critical Behaviour of the Raman Intensities of the Lattice Modes in Ammonium Halides".
- 14.** H. Yurtseven, Phase Trans., 47 (1994) 59-68.  
"Phase Transitions of Weakly First Order or Nearly Second Order".
- 15.** H. Yurtseven and W.F. Sherman, Phase Trans., 47 (1994) 69- 75.  
"Weakly First Order or Nearly Second Order Phase Transitions in Ammonium Halides".
- 16.** H. Yurtseven and W.F. Sherman, J.Mol. Struc., 323 (1994) 243-246.  
"Spectroscopic Modifications of Pippard Relations and Their Application to NH<sub>4</sub>Cl".
- 17.** A. Tüblek and H. Yurtseven, Phase Trans., 52 (1994) 219-225.  
"A T<sub>c</sub> Formula and the Isotope Effect for Strong-Coupled Superconductors".
- 18.** H. Yurtseven, Bull. Tech. Univ. Istanbul, 47 (1994) 331. Special Issue, Suhubi and Continuum Mechanics.  
"Critical Behaviour of a Lattice Mode in the Vicinity of the  $\lambda$ - Phase Transition in NH<sub>4</sub>Br".
- 19.** H. Yurtseven, Phase Trans., 53(1995)75.  
"Landau Theory of the Nematic-Smectic A Tricritical Phase Transition in a Binary Mixture of Liquid Crystals".
- 20.** H. Yurtseven, Tr. J. of Physics, 19 (1995)1-10.  
"Weakly First-Order or Nearly Second-Order Phase Transitions in Some Crystalline Systems".
- 21.** H. Yurtseven and W.F. Sherman, Phase Trans., 54(1995)1-13.  
"The  $\lambda$ -Phase Transitions in NH<sub>4</sub>Cl".
- 22.** H. Yurtseven and W.F. Sherman, Phase Trans., 54 (1995)165-179.  
"Disorder-Induced Raman Scattering in Ammonium Halides".
- 23.** H. Yurtseven, S. Salihoglu and A. Tüblek, Phase Trans., 54 (1995)151-163.  
" A Phase Diagram for Ammonium Halides".
- 24.** H. Yurtseven, M. Güleç and W.F. Sherman, Phase Trans., 56 (1996),137-146.  
"The  $\lambda$ - Phase Transition in NH<sub>4</sub>Br".
- 25.** H. Yurtseven and T. Demir, J.Mol.Struc., 382(1996) 57-62.  
" $\gamma$ - Grüneisen Relations Close to  $\lambda$ -Phase Transitions in NH<sub>4</sub>Cl".
- 26.** S.Salihoğlu and H. Yurtseven, Phase Trans., 60(1997) 173- 191.  
"A Mean Field Model of the Tetracritical Point in Ferroelectrics".
- 27.** H. Yurtseven and W.F. Sherman, J.Mol.Struct. 435(1997)143- 150.  
"Spectroscopic Modifications of Pippard Relations for Ammonium Halides".
- 28.** A. Tüblek, H. Yurtseven and S.Salihoğlu, Phase Trans., 64 (1998) 203-214.  
"A Mean Field Model for the Phase Diagram of Liquid Crystals".
- 29.** A. Nesrullayev, S. Salihoğlu and H. Yurtseven, Int.J.Mod.Phys.B, 12(1998)213.  
"Study of Phase Transitions in Polymorphic Liquid Crystals".

- 30.** H. Yurtseven, D. Kayisoğlu and W.F. Sherman, Phase Trans.,67(1998)399.  
"Calculation of the Specific Heat for the First Order, Tricritical and Second Order Phase Transitions in NH<sub>4</sub>Cl".
- 31.** S. Salihoğlu, H. Yurtseven, A.Giz, D. Kayisoğlu and A. Konu, Phase Trans., 66 (1998). 259.  
"The Mean Field Model with the  $P^2\theta^2$  Coupling for the Smectic A- Smectic C Phase Transition in Liquid Crystals".
- 32.** M.Bas and H. Yurtseven, ARI, 51(1998)136.  
"Correlations Between Frequency Shifts and Volume Changes Near the  $\lambda$ -Phase Transitions in NH<sub>4</sub>Cl".
- 33.** H. Yurtseven and W.F. Sherman, ARI, 51(1998)77  
"A Raman Study of the Temperature Dependence of Phonons Near the  $\lambda$ -Phase Transitions in Ammonium Halides".
- 34.** H. Yurtseven and S.Salihoglu, Mod.Phys.Lett.B, 12(1998)271- 279.  
"A Phase Diagram for the Ice VI-VII-VIII Transitions".
- 35.** S. Salihoğlu, H. Yurtseven and B. Bumin, Int.J..Mod. Phys.B12 (1998) 2083.  
"Concentration Dependence of Polarization for the AC\* Phase Transition in a Binary Mixture of Liquid Crystals".
- 36.** S.Salihoğlu and H. Yurtseven, Tr.J. of Physics, 22 (1998) 1087.  
" A Phase Diagram of the Nematic, Smectic A and Smectic C Phases in Liquid Crystals".
- 37.** H. Yurtseven and S. Salihoğlu, Tr. J. of Physics,2(1998)1097.  
"A Mean Field Model for the Coexistence of Nematic, Smectic A and Smectic C Phases in Liquid Crystals".
- 38.** H. Yurtseven, A.Yanik and W.F. Sherman, Mod.Phys.Lett. B, 12 (1998)1089-1095.  
"Calculation of the Specific Heat for the First Order Phase Transition in NH<sub>4</sub>Br".
- 39.** H. Yurtseven, Int.J.Mod.Phys.B, 13(1999)2783.  
"Application of the Pippard Relations to Ammonia Near the Melting Point".
- 40.** H. Yurtseven, J.Phys.Chem.A, 103 (1999) 5900.  
"Raman Frequency Shifts for Ammonia Solid I Near the Melting Point".
- 41.** S. Salihoğlu A. Tüblek and H. Yurtseven, Phase Trans.,70 (2000) 263.  
"A Phase Diagram Near the NAC\* Point in Liquid Crystals".
- 42.** H. Yurtseven and M. Bas, Phase Trans.71 (2000) 113.  
"Ultrasonic frequencies correlated to the volume changes of the q[110] mode for the first order phase transitions in NH<sub>4</sub>Cl".
- 43.** H. Yurtseven and M. Bas, J.Mol.Struc.,525 (2000)87.  
"Calculation of the ultrasonic frequencies of the q[110] mode for the first order and tricritical phase transitions in NH<sub>4</sub>Cl".
- 44.** S.Salihoğlu, Ö.Tari and H.Yurtseven, Phase Trans., 72 (2000) 299.  
"A phase diagram of ammonia close to the melting point".

- 45.** Ö.Tari, H.Yurtseven and S.Salihoğlu, Phase Trans., 72 (2000) 351.  
"T-X<sub>Br</sub> phase diagram of the NH<sub>4</sub>Br<sub>x</sub>Cl<sub>1-x</sub>".
- 46.** H.Yurtseven and A.Yanik, J.Mol.Struc., 553 (2000) 267.  
"Calculation of the specific heat close to the first order and second order phase transitions in ammonium halides".
- 47.** H.Yurtseven, Y.Enginer and S.Salihoğlu, Calphad, 24 (2000) 481.  
"Calculation of the T-X phase diagram for a mixture of liquid crystals".
- 48.** Ö.Tari, H.Yurtseven and S.Salihoğlu, Calphad, 24 (2000) 473.  
"Calculation of a phase diagram for the ice II-V-VI transitions".
- 49.** H. Yurtseven and A. Yanik, J.Mol.Struc.,560 (2001)161.  
"Spectroscopic modifications of Pippard relations : first order and second order phase transitions in NH<sub>4</sub>Cl".
- 50.** H.Yurtseven and A.Aydogdu, J.Mol.Struc.,560 (2001)189.  
"Application of the spectroscopic modifications of Pippard relations to NaNO<sub>2</sub> in the ferroelectric phase".
- 51.** H. Yurtseven and M.Bas, Spect. Chim. Acta A, 57 (2001)1347.  
"Ultrasonic frequencies calculated for the q(100) mode in the first order, tricritical and the second order phase transitions of NH<sub>4</sub>Cl".
- 52.** H. Yurtseven, S.Salihoğlu and Ö.Tari, Mat. Chem. Phys., 71(2001)206.  
"Spontaneous polarization close to phase transitions in NaNO<sub>2</sub>".
- 53.** S.Salihoğlu, Ö.Tari and H.Yurtseven, Mat. Chem. Phys., 71(2001) 210. "P-T phase diagram at various concentrations for the NH<sub>4</sub>Br<sub>x</sub>Cl<sub>1-x</sub>".
- 54.** H.Yurtseven, J.Mol. Struc., 595 (2001) 47.  
"Temperature dependence of the Raman frequencies and bandwidths close to the phase transitions in ammonium halides".
- 55.** H.Yurtseven, Acta Physica Polonica A, 99 (2001) 557.  
"Pressure dependence of the Raman frequencies of ammonia solid I near the melting point".
- 56.** H.Yurtseven and A.Aydoğdu, J.Mol. Struc., 597 (2001) 31.  
"Brillouin frequency shifts in the ferroelectric phase of NaNO<sub>2</sub>".
- 57.** H.Yurtseven, Ö.Tari and M.Bas, J. Mol. Struc., 598 (2001) 109.  
"Ultrasonic frequency shifts close to the first order and tricritical phase transitions in NH<sub>4</sub>Cl".
- 58.** H.Yurtseven and A.Mertoglu, Chinese J.Phys., 39 (2001) 349.  
"Calculation of the specific heat for the II-III and II-IV phase transitions in NH<sub>4</sub>Br".
- 59.** H. Yurtseven and D.Kayisoglu, Spectroscopy Letters, 34 (2001)147.  
"Analysis of the frequency shifts close to the second order phase transition in NH<sub>4</sub>Cl".
- 60.** Y.Enginer, S.Salihoglu and H.Yurtseven, Mater. Chem. Phys. 73 (2002) 57.  
"T-P phase diagram of ammonia solid I-II-III".
- 61.** H.Yurtseven and I.E.Çaglar, Spec.Chimica Acta A, 58 (2002) 55.



- “Calculation of the Brillouin frequencies close to phase transitions in  $\text{NaNO}_2$ ”.
- 62.** H.Yurtseven and Ö.Tari, Chinese J.Phys., 40 (2002) 96.  
“Spectroscopic modifications of the Pippard relations for  $\text{NaNO}_2$  in the paraelectric phase”.
- 63.** S.Salihoglu, Ö.Tari and H.Yurtseven, Mater. Chem. Phys., 73 (2002) 339.  
“A phase diagram for ammonium iodide”.
- 64.** H.Yurtseven and A.Yanik, J.Mol. Struct., 606 (2002) 29.  
“Calculation of the specific heat for  $\text{ND}_4\text{Br}$  close to phase transitions”.
- 65.** S.Salihoglu, H.Yurtseven and Y.Engineer, Mater.Chem.Phys., 76 (2002) 59..  
“A phase diagram near the NAC point in liquid crystals”.
- 66.** H.Yurtseven and S.Salihoglu, Chinese Journal of Physics, 40 (2002) 416.  
“Critical behaviour of ammonia near the melting point”.
- 67.** H.Yurtseven and D.Kayisoglu, Spect.Chimica Acta A., 58 (2002) 1823.  
“Critical behaviour of the disorder-induced Raman modes close to the  $\lambda$ -phase transition in  $\text{NH}_4\text{Cl}$ ”.
- 68.** Ö.Tari and H.Yurtseven, Spec.Chimica Acta A, 58 (2002) 1615.  
“Spectroscopic modifications of the Pippard relations for  $\text{NaNO}_2$  in the sinusoidal antiferroelectric phase”.
- 69.** S.Salihoglu, H.Yurtseven and Y.Engineer, Solid State Sciences, 4 (2002) 529.  
“ P-T phase diagram for  $\text{NH}_4\text{F}$ ”.
- 70.** A.Nesrullajev, H.Yurtseven, S.Salihoglu and N.Kazanci, Mater.Res.Bull., 37 (2002) 2007.  
“Some peculiarities of nematic-isotropic liquid phase transitions in monomorphic and polymorphic mesogens”.
- 71.** Y.Engineer, S.Salihoglu and H.Yurtseven, Chinese Journal Phys., 40 (2002) 560.  
“A mean field model near the NAC point in liquid crystals”.
- 72.** H.Yurtseven, Spect. Chimica Acta A, 59(2003)1003.  
“ Calculation of the Raman frequencies of the translational mode in ammonia solid II”.
- 73.** H.Yurtseven and A.Yanik, J.Phase Equilibria 23(2002) 502,  
“Order-disorder phase transition in  $\text{NH}_4\text{AlF}_4$ ”.
- 74.** H.Yurtseven and Ö.E.Pitirli, Indian J.Phys., 76B(2002) 723.  
“ $\lambda$ -phase transition in liquid sulfur”.
- 75.** H.Yurtseven and H.Kaya, Chin. Phys. Lett., 20 (2003) 35.  
“Calculation of the specific heat for the II-III and II-IV phase transitions in  $\text{NH}_4\text{I}$ ”.
- 76.** H.Yurtseven and S.Ugur, Chinese J.Phys. 41(2003)140.  
“Temperature dependence of the Raman frequencies for the lattice mode in ammonia solid II”.
- 77.** Y.Engineer, S.Salihoglu and H.Yurtseven, Chinese Journal Phys. 41 (2003) 399.  
“Temperature dependence of susceptibility in the ferroelectric phase of ammonium sulphate”.

- 78.** H.Yurtseven and D.Kayisoglu, High Temperatures-High Pressures 35 / 36 (2003 / 2004) 471.  
"Frequency shifts of the disorder-induced modes close to the critical phase transition in  $\text{NH}_4\text{Cl}$ ".
- 79.** H.Yurtseven and A.Yanik, High Temperatures- High Pressures 35 / 36 (2003 / 2004) 321.  
"Specific heat calculated from the Raman frequency shifts close to the  $\lambda$ -phase transition in  $\text{NH}_4\text{Br}$ ".
- 80.** H. Yurtseven, Chinese Journal Phys. 42 (2004) 209  
" Raman frequencies calculated as a function of pressure for the rotatory lattice mode in ammonia solid II near the melting point."
- 81.** S. Salihoğlu, H. Yurtseven and Y. Enginer, Chinese Journal Phys. 43 (2005) 103.  
"T-X phase diagram of  $\text{Na}_2\text{S}_2\text{O}_7\text{-NaHSO}_4$ ".
- 82.** H. Yurtseven and I. Yıldız, Spect. Chimica Acta A 61 (2005) 2543.  
"Spectroscopic modification of the Pippard relation applied for the translational mode in ammonia solid II near the melting point".
- 83.** H.Yurtseven and H.Karaçalı, Philosophical Magazine 85(2005)2913.  
"Critical behaviour of the Raman frequency shifts for translational modes near the melting point of ammonia solid I based on Pippard relations"
- 84.**H.Karaçalı and H.Yurtseven, J.Phys.Chem.B 109(2005)16974.  
"Raman frequency shifts for the rotatory lattice mode close to the melting point in ammonia solid I".
- 85.**H.Karaçalı and H.Yurtseven,Physica Status Solidi a 242(2005)2803.  
"Correlations between Raman frequency shifts and thermodynamic quantities close to the melting point in  $\text{D}_2\text{O}$  ice".
- 86.**H.Yurtseven, Spectrochimica Acta Part A,62(2005)910.  
"Bandwidths studied as a function of temperature in ammonium halides near  $T_\lambda$ ".
- 87.**H.Yurtseven and M.H. Tümkaya,Spectrochimica Acta Part A 62(2005) 926.  
"Raman Frequency shifts of an Internal mode near the tricritical and second order phase transitions in  $\text{NH}_4\text{Cl}$ ".
- 88.**H.Karaçalı and H.Yurtseven,J.Chem.Sciences 117(2005)677.  
"Modified Pippard relationship describing the Raman frequency shifts of the rotatory lattice mode of ammonia solid II in the vicinity of its melting point".
- 89.**H.Yurtseven,High Temperature Materials and Processes 24(2005) 315.  
"Pippard relation modified for the rotatory lattice mode in ammonia solid II".
- 90.**H.Yurtseven and A.Yanik,J.App.Phys. 98(2005)094104.  
"Specific heat of  $\text{NH}_4\text{Br}$  and  $\text{NH}_4\text{Br}_x\text{Cl}_{1-x}$  crystals close to the antiferroelectric transition".
- 91.**H.Karaçalı and H.Yurtseven,Journal of Quantitative Spectroscopy and Radiative Transfer 98 (2006) 57.

“Specific heat related to the Raman frequency shifts for the rotatory mode in ammonia solid I close to the melting point”.

**92.**H.Karaçalı and H. Yurtseven,Philosophical Magazine 86 (2006) 189.

“Temperature dependence of the Raman bandwidths and intensities of a lattice mode near the tricritical and second order phase transitions in  $\text{NH}_4\text{Cl}$ ”.

**93.**H.Yurtseven and H.Karaçalı,Spectrochimica Acta Part A 64 (2006) 772.

“Temperature and pressure dependence of the Raman frequency shift near the melting point in ice I”.

**94.**H.Yurtseven and H.Karaçalı,Spectrochimica Acta Part A 65 (2006) 421.

“Temperature dependence of the damping constant and the order parameter close to the  $\lambda$ -phase transitions in ammonium halides”.

**95.**H. Yurtseven and M.H. Tümkaya, Chem.Phys. 323 (2006) 574.

“Analysis of the Raman frequencies of a lattice mode in  $\text{NH}_4\text{Cl}$  close to the tricritical and second order phase transitions”.

**96.**H.Yurtseven and F.Eraslan, Journal of Quantitative Spectroscopy and Radiative Transfer 102 (2006) 513.

“Spectroscopic modifications of Pippard relations:tricritical phase transitions in  $\text{NH}_4\text{Cl}$ ”

**97.** H.Yurtseven, Journal of Quantitative Spectroscopy and Radiative Transfer 102 (2006) 409.

“Pressure dependence of the Raman frequencies for the translational mode in ammonia solid II”.

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- 53.** H. Yurtseven and M. Kurt, 2nd Int. Conf. on Biochemistry and Medical Chemistry (Biomedch '11), University of Cambridge, UK, February 23-25, 2011. ID: 650-351.  
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- 54.** E. Kilit and H. Yurtseven, European Meeting on Ferroelectricity, Bordeaux, France, June 26-July 1, 2011. “First-order transition of the smectic A-isotropic liquid in ferroelectric liquid crystals”.
- 55.** E. İşeri and H. Yurtseven, 16th ICPPP, International Conference on Photoacoustic and Photothermal Phenomena, Nov. 27-Dec. 1, 2011, Merida, Yucatan, Mexico. “Calculation of the Raman frequencies of the lattice modes as a function of temperature at higher pressures for solid nitrogen”.
- 56.** H. Yurtseven, The 3rd Chongqing International Clinical Neuroscience Forum and Neurodrug Conference, 21-23 October 2011, Chongqing, China.  
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- 58.** H. Yurtseven, The Third Asian Spectroscopy Conference (ASC 2011), Nov. 28-Dec.1, 2011, Xiamen, China. “Raman frequency shift as an order parameter in biphenyl”.

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**61.** B. Emre and H. Yurtseven, Int. Conference on Superconductivity and Magnetism (ICSM 2012), 29 April-4 may 2012, Istanbul-Turkey  
"Metamagnetic phase transitions in La<sub>1-x</sub>Nd<sub>x</sub>Mn<sub>2</sub>Si<sub>2</sub>"

**62.** H. Yurtseven and O. Tari, Ohio State University, 67 International Symposium on Molecular Spectroscopy, 18-22 June, 2012, colombus, Ohio, USA  
"Calculation of the Raman frequencies as a function of pressure in the solid phases II and III (III') of benzene".

**63.** A. Kiraci and H. Yurtseven, The 8 th Asian Meeting on Ferroelectrics (AMF-8), 9-14 December 2012, Pattaya, Thailand  
"Damping constant calculated as a function of temperature for the tetragonal Raman mode close to the paraelectric-ferroelectric transition in BaTiO<sub>3</sub>"

**64.** H. Yurtseven and A. Kiraci , The 8 th Asian Meeting on Ferroelectrics (AMF-8), 9-14 December 2012, Pattaya, Thailand  
"Temperature dependence of the polarization and the dielectric constant near the paraelectric- ferroelectric transitions in BaTiO<sub>3</sub>

## THESIS AWARDS

**1.** METU (Middle East Technical University)  
Graduate School of Natural and Applied Sciences  
Best Thesis Award Winner (Physics)  
Sema Şen, Ph. D. Thesis, February 2009

"Calculation of Phase Diagrams and the Thermodynamic Quantities from the Mean Field Models Close to the Phase Transitions in Molecular and Liquid Crystals"

**2.** METU (Middle East Technical University)  
Graduate School of Natural and Applied Sciences  
Best Thesis Award Winner (Physics)  
Emel Kilit, Ph. D. Thesis, February 2011

"Critical Behaviour of the Thermodynamic Quantities for the Thermotropic and Ferroelectric Liquid Crystals Close to the Phase Transitions".

**3.** METU (Middle East Technical University)  
Graduate School of Natural and Applied Sciences  
Best Thesis Award Winner (Physics)  
Dilan Kavruk, Ph. D. Thesis, February 2011

"Calculation of the Thermodynamic and Spectroscopic Quantities in Molecular Crystals Close to the Phase Transitions"

## **BOOKS**

- A. Nesrullazade, H. Yurtseven, N. Kazanci  
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## **JOURNALS AS A REFEREE**

1. Physica A, Physica D
2. Journal of Physical Chemistry
3. Chemical Engineering Communications
4. Asian Journal of Scientific Research
5. Research Journal of Physics
6. Research Journal of Environmental Sciences
7. Trends in Applied Sciences Research
8. Thermochemica Acta
9. Annals of NYAS (New York Academy of Sciences)
10. Journal of Applied Sciences
11. Turkish Journal of Physics
12. Physica Status Solidi (b)
13. International Journal of Modern Physics B
14. International Journal of Thermophysics
15. Journal of Raman Spectroscopy
16. Current Applied Physics
17. Journal of Molecular Liquids
18. International Journal of Inorganic Chemistry
19. Optoelectronics and Advanced Materials
20. Journal of Petroleum and Gas Exploration Research
21. Research Journal of Earth and Planetary Sciences
22. Journal of Superconductivity and Novel Magnetism
23. Advances in Condensed Matter Physics

## **EDITORIAL**

1. Editorial Board: Open Journal of Inorganic Chemistry (OJIC) From March 15, 2011 .
2. Editorial Board: Modeling and Numerical Simulation of Material Science (MNSMS) From December 1, 2011.
3. Editorial Board: Open Journal of Fluid Dynamics (OJFD) From January 15th, 2012.
4. Editorial Board: From European Journal of Biophysics (EJB)
5. Guest Editor: Advances in Condensed Matter Physics.  
Special Issue on Liquid Crystal Research: Current Trends and Future Perspectives  
Publication Date: 30 November 2012.
6. Lead Guest Editor: Journal of Chemistry Special Issue on Phase Diagrams of Liquid Crystals  
Publication Date: 30 July 2013.

## **Ph.D. THESIS SUPERVISED**

1. Aytekin Tüblek, Ph. D. Thesis, June 2001, İstanbul Technical University.  
"Investigation of Phase Transitions in Ammonium Halides and Liquid crystals".

2. Yücel Enginer, Ph. D. Thesis, June 2001, İstanbul Technical University.  
“The Analysis of Various Systems by using Landau Mean field Theory”.
3. Hüseyin Karaçalı, Ph. D. Thesis, December 2005. Middle East Technical University.  
“Correlations between the Spectroscopic Parameters and the Thermodynamic Quantities for Systems Exhibiting Phase Transitions”.
4. Sema Şen, Ph. D. Thesis, February 2009. Middle East Technical University.  
“Calculation of Phase Diagrams and the Thermodynamic Quantities from the Mean Field Models Close to Phase Transitions in Molecular and Liquid Crystals”.
5. Emel Kilit, Ph.D. Thesis, February 2011, Middle East Technical University.  
“Critical Behaviour of the Thermodynamic Quantities for the Thermotropic and Ferroelectric Liquid Crystals Close to the Phase Transitions”.
6. Dilan Kavruk, Ph.D. Thesis, February 2011, Middle East Technical University.  
“Calculation of the Thermodynamics and Spectroscopic Quantities in Molecular Crystals Close to the Phase Transitions”.
7. Ali Kiracı, Ph. D. Thesis, Middle East Technical University, July 2015. “Investigation of the dynamic properties of ferroelectric crystals close to the phase transitions”.