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Education Information

Doctorate, University of London-Kings College London, United Kingdom 1980 - 1984
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Turkey 1972 - 1977

Dissertations

Doctorate, Analysis of the Critical Phenomena using Raman data, University Of London-Kings College London, 1984

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2003 - Continues
Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, 1994 - 2003
Associate Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, 1988 - 1994
Assistant Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, 1987 - 1988
Research Assistant, Ankara University, Fen Fakültesi, 1985 - 1987

Courses

Thermodynamics and Statistical Mechanics, Undergraduate, 2020 - 2021

Advising Theses

YURTSEVEN H. H., Thermodynamic properties of the high-pressure phases in solid nitrogen close to phase transitions, Doctorate, Ö.Akay(Student), 2020

YURTSEVEN H. H., Critical behaviour of the thermodynamic quantities close to phase transitions in molecular crystals using raman data, Doctorate, H.ÖZDEMİR(Student), 2017
YURTSEVEN H. H., First order and second order phase transitions in quartz and related materials, Doctorate, M.CEM(Student), 2017
YURTSEVEN H. H., Investigation of the dynamic properties of ferroelectric crystals close to phase transitions, Doctorate, A.KİRACI(Student), 2015
YURTSEVEN H. H., Calculation of the thermodynamic and spectroscopic quantities in molecular crystals close to the phase transitons, Doctorate, D.KAVRUK(Student), 2011
YURTSEVEN H. H., Critical behaviour of the thermodynamic quantities for the thermotropic and ferroelectric liquid crystals close to the phase transitions, Doctorate, E.KİLİT(Student), 2011
YURTSEVEN H. H., Calculation of the Raman frequencies using volume data in various phases of solid nitrogen and benzene, Postgraduate, E.Çetinbaş(Student), 2011
YURTSEVEN H. H., Alpha - beta transition in quartz, Postgraduate, M.Cem(Student), 2011
YURTSEVEN H. H., Calculation of phase diagrams and the thermodynamic quantities from the mean field models close to phase transitions in molecular and liquid crystals, Doctorate, S.ŞEN(Student), 2009
YURTSEVEN H. H., Correlations between the spectroscopic parameters and the thermodynamic quantities for systems exhibiting phase transitions, Doctorate, H.Karaçalı(Student), 2005
YURTSEVEN H. H., Correlations between the spectroscopic parameters and the thermodynamic quantites for systems exhibiting phase transitions, Doctorate, H.KARAÇALI(Student), 2005
YURTSEVEN H. H., The Analysis of various systems by using landau mean field theory, Doctorate, Y.ENGİNER(Student), 2001
YURTSEVEN H. H., Amonyum halojenler ve sıvı kristallerde faz geçişlerinin incelenmesi, Doctorate, A.TÜBLEK(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Tricritical behavior of the smectic-hexatic phase transitions in binary mixtures using the landau mean field theory**
YURTSEVEN H. H., Kilit Doğan E.
PHASE TRANSITIONS, vol.96, no.6, pp.383-399, 2023 (SCI-Expanded)

II. **Calculation of the T - X phase diagram and the thermodynamic quantities for the binary mixtures of Tetradecane + Hexadecane using the Landau mean field model**
YURTSEVEN H. H., Tari O.
Physics and Chemistry of Liquids, vol.61, no.5, pp.340-364, 2023 (SCI-Expanded)

III. **Investigation of the complex magnetic behavior of Ni46.86Co2.91Mn38.17Sn12.06(at%) magnetic shape memory alloy at low temperatures**
Ylldlrlm O., Yuce S., Bruno N. M., Doğan E. K., YURTSEVEN H. H., DUMAN E., EMRE Ş. B.
Physica Scripta, vol.97, no.8, 2022 (SCI-Expanded)

IV. **Calculation of the T – X phase diagram of tetradecane + hexadecane and tetradecane + pentadecane under high pressure by the landau mean field theory**
Tari O., YURTSEVEN H. H.
Fluid Phase Equilibria, vol.559, 2022 (SCI-Expanded)

V. **Calculation of the phase diagram of n-alkanes (CnH2n+2) by the Landau mean field theory**
YURTSEVEN H. H., Kilit Dogan E.
Fluid Phase Equilibria, vol.556, 2022 (SCI-Expanded)

VI. **Calculation of the T-X phase diagram for the first-order smectic-hexatic transitions in binary mixtures**
Kilit Dogan E., YURTSEVEN H. H.
Physics of Fluids, vol.34, no.4, 2022 (SCI-Expanded)

VII. **Magnetic transitions in two novel mixed-valence iron(II)–iron(III) metal formate frameworks: Two**

sublattice model
YURTSEVEN H. H., Tari O.
Journal of Magnetism and Magnetic Materials, vol.546, 2022 (SCI-Expanded)

VIII. **Calculation of the magnetization and the heat capacity for [NH2 NH3][M(HCOO)3] (M=Fe, Mn) near the phase transitions**
YURTSEVEN H. H., Doğan E.
Ferroelectrics, vol.600, no.1, pp.73-87, 2022 (SCI-Expanded)

IX. **Calculation of the spin-lattice relaxation time and the activation energy near the IV–III phase transition in pyridinium fluorosulfonate (C5NH6)FSO3**
Kara N., Kiraci A., YURTSEVEN H. H.
Ferroelectrics, vol.589, no.1, pp.45-54, 2022 (SCI-Expanded)

X. **Magnetic, thermal and ferroelectric properties of MOFs (MHyM, M = Fe, Mn) close to phase transitions**
YURTSEVEN H. H., Kilit Dogan E.
Journal of Magnetism and Magnetic Materials, vol.540, 2021 (SCI-Expanded)

XI. **Calculation of the Liquid-Solid Phase Diagram and the Thermodynamic Quantities of the Binary System of Tetradecane and Hexadecane Using the Mean Field Theory**
Yurtseven H., Emirosmanoglu T., Tari O.
JOURNAL OF SOLUTION CHEMISTRY, vol.50, no.11-12, pp.1335-1362, 2021 (SCI-Expanded)

XII. **Landau phenomenological model for the alpha-INC (incommensurate)-beta transition in quartz**
Yurtseven H. H., Ates S.
PHILOSOPHICAL MAGAZINE, vol.101, no.21, pp.2331-2353, 2021 (SCI-Expanded)

XIII. **Investigation of vibrational, elastic and dielectric properties of cubic gauche nitrogen (cg-N)**
Akay Ö., YURTSEVEN H. H.
Optik, vol.236, 2021 (SCI-Expanded)

XIV. **Calculation of the damping constant and the relaxation time of the LA mode in the incommensurate phase of quartz**
Ates S., Yurtseven H.
FERROELECTRICS, vol.573, no.1, pp.9-22, 2021 (SCI-Expanded)

XV. **Phenomenological approaches on the Nd3+ doped ferroelectric LaBGeO5**
Kara N., Kiraci A., YURTSEVEN H. H.
FERROELECTRICS, vol.572, no.1, pp.13-26, 2021 (SCI-Expanded)

XVI. **Calculation of the inverse relaxation time and the activation energy as a function of temperature for the Raman modes close to the phase transitions in solid nitrogen**
Yurtseven H., Akay O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1226, 2021 (SCI-Expanded)

XVII. **Calculation of Magnetization and Magnetic Susceptibility Close to Magnetic Phase Transitions in (CH3)2NH2FeIIINiII(HCOO)6 and (CH3)2NH2FeIIICuII(HCOO)6**
YURTSEVEN H. H., Tari O.
Journal of Low Temperature Physics, vol.202, pp.145-159, 2021 (SCI-Expanded)

XVIII. **Analysis of the IR-Raman Modes and the Heat Capacity Near the α-Inc-β Transitions in Quartz**
YURTSEVEN H. H., Günay E., Karacali H., Ateş S.
Ferroelectrics, vol.577, no.1, pp.125-142, 2021 (SCI-Expanded)

XIX. **Temperature dependence of the piezoelectric resonance frequency in relation to the anomalous strain near the incommensurate phase of quartz**
Ates S., Yurtseven H.
FERROELECTRICS, vol.571, no.1, pp.39-49, 2021 (SCI-Expanded)

XX. **Calculation of the thermodynamic functions from the Raman frequency shifts close to the epsilon - delta(loc) - delta transitions and Pippard relations in nitrogen**
Akay O., Yurtseven H.
MODERN PHYSICS LETTERS B, vol.34, no.33, 2020 (SCI-Expanded)

XXI. **Thermodynamic study on the magnetic transition and structural phase transition in [(CH3)(2)NH2] [Na0.5Fe0.5(HCOO)(3)] by using the Landau phenomenological model**
Yurtseven H., Tari O.
JOURNAL OF APPLIED PHYSICS, vol.128, no.20, 2020 (SCI-Expanded)

XXII. **Magnetization Studied as a Function of Temperature and Magnetic Field for Ferromagnetic Transition in DMNaFe**
Kilit Dogan E., Yurtseven H.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.11, pp.6388-6393, 2020 (SCI-Expanded)

XXIII. **Raman bandwidths calculated for the librational (a -phase) and internal (8, d loc and d phases) modes in solid N 2 using pseudospin-phonon coupling (PS) and energy-fluctuation (EF) models**
Yurtseven H., Akay O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1217, 2020 (SCI-Expanded)

XXIV. **Calculation of the Raman frequency and linewidth of vibrons using anharmonic self energy model for the ε, δloc and δ phases in solid nitrogen**
Akay Ö., YURTSEVEN H. H.
Optik, vol.219, 2020 (SCI-Expanded)

XXV. **Landau mean-field model with the cubic term for the alpha-beta transition in quartz**
Ates S., Yurtseven H.
BULLETIN OF MATERIALS SCIENCE, vol.43, no.1, 2020 (SCI-Expanded)

XXVI. **Calculation of the thermodynamic functions using a mean field model for the fluid-solid transition in nitrogen**
AKAY Ö., YURTSEVEN H. H.
Revue Roumaine de Chimie, vol.65, no.5, pp.425-432, 2020 (SCI-Expanded)

XXVII. **Liquid-(Solid plus Liquid) Transitions in a Two-Component System of (CH3)CCl3 + CCl4**
Yurtseven H., Akayu O.
JOURNAL OF SOLUTION CHEMISTRY, vol.49, no.2, pp.195-209, 2020 (SCI-Expanded)

XXVIII. **Sm A - ferroelectric-Sm C transition in the mixture of C7+10.O.4 and in the ferroelectric C7**
Aksoy S., Kurt M., Yurtseven H.
FERROELECTRICS, vol.554, no.1, pp.21-29, 2020 (SCI-Expanded)

XXIX. **Magnetic ordering in two ferromagnetic sublattices of two mixed-valence iron(II)-iron(III) metal formate frameworks**
Yurtseven H., Dogan E. K.
MATERIALS RESEARCH BULLETIN, vol.119, 2019 (SCI-Expanded)

XXX. **Temperature dependence of the IR mode frequency calculated from the volume data for DMNaFE**
Alguel G., Enginer Y., Yurtseven H.
FERROELECTRICS, vol.551, no.1, pp.229-234, 2019 (SCI-Expanded)

XXXI. **Order-disorder transition in the ferroelectric LiTaO3**
KİRACI A., Yurtseven H.
FERROELECTRICS, vol.551, no.1, pp.235-244, 2019 (SCI-Expanded)

XXXII. **Analysis and calculation of the magnetization, magnetic susceptibility and the specific heat close to phase transitions in heterometallics**
Dugan E. K., Yurtseven H.
CURRENT APPLIED PHYSICS, vol.19, no.10, pp.1096-1102, 2019 (SCI-Expanded)

XXXIII. **Damping constant and the inverse relaxation time calculated as a function of pressure using the X-ray diffraction data close to the cubic-tetragonal phase transition in SrTiO3**
YURTSEVEN H. H., Kiraci A.
FERROELECTRICS, vol.551, no.1, pp.143-151, 2019 (SCI-Expanded)

XXXIV. **Calculation of the infrared frequency and the damping constant (full width at half maximum) for metal organic frameworks**
Kurt M., Yurtseven H., Kurt A., Aksoy S.
CHINESE PHYSICS B, vol.28, no.6, 2019 (SCI-Expanded)

XXXV. **Calculation of the thermodynamic quantities of perovskite metal organics DMAKCr and perovskite HyFe close to the weakly first-order relaxor-like structural transformation using the mean field theory**
Yurtseven H., Tari O.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.11, 2019 (SCI-Expanded)

XXXVI. **Temperature dependence of magnetic and thermal properties of chiral HyFe and HyMn close to phase transitions by using the Landau mean field model**
Tari O., Yurtseven H.
MATERIALS CHEMISTRY AND PHYSICS, vol.228, pp.118-123, 2019 (SCI-Expanded)

XXXVII. **Calculation of the Raman and IR frequencies as order parameters and the damping constant (FWHM) close to phase transitions in methylhydrazinium structures**
KURT M., YURTSEVEN H. H., Kurt A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1181, pp.488-492, 2019 (SCI-Expanded)

XXXVIII. **Resonant frequency shifts related to the elastic constants near the alpha-beta transition in quartz**
YURTSEVEN H. H., Ates S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1179, pp.421-424, 2019 (SCI-Expanded)

XXXIX. **CALCULATION OF THE PHASE DIAGRAMS FOR THE FLUID-SOLID AND SOLID-SOLID (delta-delta(loc)-epsilon) TRANSITIONS IN MOLECULAR NITROGEN BY USING MEAN FIELD MODEL**
Yurtseven H., Akay O.
REVUE ROUMAINE DE CHIMIE, vol.64, no.3, pp.249-258, 2019 (SCI-Expanded)

XL. **Calculation of the heat capacity Cp from the temperature-induced and pressure-induced Raman frequency shifts for solid benzene, naphthalene and anthracene**
Ozdemir H., Yurtseven H. H.
Optik, vol.178, pp.774-784, 2019 (SCI-Expanded)

XLI. **Calculation of the T-P Phase Diagrams for the Halogenomethane Compounds (CCl4-nBrn, n=0, 1, 2, 4) Using the Mean Field Theory**
Yurtseven H., Isik S. B., Dogan E. K.
PHYSICS OF THE SOLID STATE, vol.61, no.2, pp.201-206, 2019 (SCI-Expanded)

XLII. **Temperature and the field dependence of the magnetization close to order-disorder phase transitions in DMMn and the chromium-doped DMMn**
YURTSEVEN H. H., Doğan E.
POLYHEDRON, vol.154, pp.132-137, 2018 (SCI-Expanded)

XLIII. **Calculation of the tilt angle and susceptibility as functions of temperature and the electric field close to the Sm A - Sm C* transition in C7**
AKSOY S., YURTSEVEN H. H., KURT M.
CANADIAN JOURNAL OF PHYSICS, vol.96, no.7, pp.688-692, 2018 (SCI-Expanded)

XLIV. **Thermodynamic Parameters of Cholesteric/Smectic A Transition in Cholesteric Myristate and Its Binary Mixture CM/PCPB**
YURTSEVEN H. H., Doğan E.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.92, no.6, pp.1208-1212, 2018 (SCI-Expanded)

XLV. **Correlations between the resonant frequency shifts and the thermodynamic quantities for the alpha-beta transition in quartz**
Lider M. C., YURTSEVEN H. H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1159, pp.1-4, 2018 (SCI-Expanded)

XLVI. **T-P Phase Diagram of Nitrogen at High Pressures**
Algul G., Enginer Y., YURTSEVEN H. H.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.39, no.5, 2018 (SCI-Expanded)

XLVII. **Analysis of the Specific Heat of Ru Doped LiKSO4 Close to Phase Transitions**
YURTSEVEN H. H., Tirpanci D. V., KARACALİ H.
HIGH TEMPERATURE, vol.56, no.3, pp.462-465, 2018 (SCI-Expanded)

XLVIII. **Pressure-dependent Raman modes near the cubic-tetragonal transition in strontium titanate**

KİRACI A., YURTSEVEN H. H.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.101, no.3, pp.1344-1355, 2018 (SCI-Expanded)

XLIX. **Calculation of the Raman frequency and the damping constant (linewidth) of the stretching modes for the metal-organic compound DMMg close to the paraelectric-ferroelectric transitions**
YURTSEVEN H. H., Aslan A.
FERROELECTRICS, vol.526, no.1, pp.9-15, 2018 (SCI-Expanded)

L. **Calculation of the C-P-C-V as a function of temperature close to the melting point in benzene**
Tari O., YURTSEVEN H. H.
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.56, no.5, pp.660-673, 2018 (SCI-Expanded)

LI. **Calculation of the Raman and IR frequencies from the volume data at high pressures in N-2**
AKAY Ö., YURTSEVEN H. H.
OPTIK, vol.160, pp.227-233, 2018 (SCI-Expanded)

LII. **Calculation of the thermodynamic quantities from the Raman frequency shifts and the Pippard relations for the alpha, -alpha and alpha ' phases of oxygen**
Tari O., YURTSEVEN H. H.
OPTIK, vol.158, pp.699-704, 2018 (SCI-Expanded)

LIII. **ANALYSIS OF THE INTEGRATED INTENSITY OF THE CENTRAL PEAKS CALCULATED AS A FUNCTION OF TEMPERATURE IN THE FERROELECTRIC PHASE OF LITHIUM TANTALATE**
Kiraci A., Yurtseven H. H.
THERMAL SCIENCE, vol.22, 2018 (SCI-Expanded)

LIV. **Calculation of the P-T phase diagram of nitrogen using a mean field model**
Enginer Y., Algul G., YURTSEVEN H. H.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.31, no.31, 2017 (SCI-Expanded)

LV. **Analysis of Magnetization as a Function of Temperature for CoMn1-x Fe (x) Ge**
YÜCE EMRE S., Doğan E., Emre B., Bruno N. M., Karaman I., YURTSEVEN H. H.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.12, pp.3587-3594, 2017 (SCI-Expanded)

LVI. **Calculation of the Spontaneous Polarization and the Dielectric Constant for the Ferroelectric N(CH3)(4)HSO4 Using the Mean Field Model**
YURTSEVEN H. H., ÇELİK M., KARACALİ H.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.36, no.9, pp.863-869, 2017 (SCI-Expanded)

LVII. **Pressure dependence of the heat capacity near the melting point in benzene**
YURTSEVEN H. H., Tari O.
JOURNAL OF MOLECULAR LIQUIDS, vol.241, pp.59-63, 2017 (SCI-Expanded)

LVIII. **Calculation of the tilt angle and susceptibility for the alpha-beta transition in quartz using a mean field model**
YURTSEVEN H. H., Ipekoglu U., Ates S.
MODERN PHYSICS LETTERS B, vol.31, no.9, 2017 (SCI-Expanded)

LIX. **Analysis of the susceptibility of condensed oxygen under high pressures and in strong magnetic fields**
Doğan E., YURTSEVEN H. H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1131, pp.236-241, 2017 (SCI-Expanded)

LX. **Analysis of the Magnetic Susceptibility as a Function of Temperature for the alpha, beta and gamma Phases of Oxygen**
YURTSEVEN H. H., Avci C.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.3, pp.831-838, 2017 (SCI-Expanded)

LXI. **Temperature dependence of the damping constant and the relaxation time close to the tetragonal-cubic phase transition in SrZrO3**
YURTSEVEN H. H., Kiraci A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1128, pp.51-56, 2017 (SCI-Expanded)

LXII. **Raman frequencies calculated as functions of temperature and pressure using volume data for solid phase I of benzene**

YURTSEVEN H. H., Ozdemir H.
OPTIK, vol.144, pp.224-231, 2017 (SCI-Expanded)

LXIII. **Calculation of the Raman frequency shifts for the alpha phase of solid oxygen**
YURTSEVEN H. H., Tari O.
OPTIK, vol.128, pp.113-120, 2017 (SCI-Expanded)

LXIV. **Analysis of vibrational spectra in relation to the thermodynamic quantities close to the phase transitions in ammonium halides (NH4F and NH4I)**
Tari O., YURTSEVEN H. H.
OPTIK, vol.135, pp.244-251, 2017 (SCI-Expanded)

LXV. **Pressure dependence of the Raman frequency calculated from the volume data close to the ferroelectric-paraelectric transition in PbTiO3**
YURTSEVEN H. H., KİRACI A.
FERROELECTRICS, vol.520, no.1, pp.245-255, 2017 (SCI-Expanded)

LXVI. **Temperature dependence of the polarization, dielectric constant, damping constant and the relaxation time close to the ferroelectric-paraelectric phase transition in LiNbO3**
Kiraci A., YURTSEVEN H. H.
OPTIK, vol.132, pp.183-191, 2017 (SCI-Expanded)

LXVII. **Calculation of the raman frequency, damping constant (Linewidth) and the relaxation time near the tetragonal-cubic transition in PbTiO3**
KİRACI A., YURTSEVEN H. H.
OPTIK, vol.142, pp.311-319, 2017 (SCI-Expanded)

LXVIII. **Damping Constant (Linewidth) and the Relaxation Time of the Brillouin LA Mode for the Ferroelectric-Paraelectric Transition in PbZr1-xTixO3**
YURTSEVEN H. H., Kiraci A.
IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL, vol.63, no.10, pp.1647-1655, 2016 (SCI-Expanded)

LXIX. **Variation of the molar volume with the temperature and the Pippard relations near the melting point in benzene**
Tari O., YURTSEVEN H. H.
JOURNAL OF MOLECULAR LIQUIDS, vol.220, pp.883-887, 2016 (SCI-Expanded)

LXX. **Temperature and pressure dependence of the Raman frequency shifts in anthracene**
Ozdemir H., YURTSEVEN H. H.
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.54, no.8, pp.489-494, 2016 (SCI-Expanded)

LXXI. **Analysis of the Heat Capacity for Pure CH4 and CH4/CCl4 on Graphite Near the Melting Point and Calculation of the T-X Phase Diagram for(CH3)CCl3+CCl4**
YURTSEVEN H. H., Yilmaz A.
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LXXII. **Analysis of the orientational order parameter and the magnetic field as functions of temperature for p-anisaldazine**
YURTSEVEN H. H., Kaya E.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.68, no.11, pp.1317-1321, 2016 (SCI-Expanded)

LXXIII. **Temperature effect on the structural ferroelectric - paraelectric transition in Li2Ge7O15**
YURTSEVEN H. H., Tari O.
FERROELECTRICS, vol.494, no.1, pp.170-181, 2016 (SCI-Expanded)

LXXIV. **Molar volume calculated at various pressures and the Pippard relations close to the melting point in benzene**
YURTSEVEN H. H., Tari O.
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.54, no.2, pp.182-192, 2016 (SCI-Expanded)

LXXV. **Analysis of the peak position and linewidth as a function of temperature for the phase transitions in LiKSO4**
YURTSEVEN H. H., KURT M.

MODERN PHYSICS LETTERS B, vol.30, no.5, 2016 (SCI-Expanded)

LXXVI. **Analysis of the dielectric constant, spontaneous polarization and the coersive field close to the phase transitions in ferroelectric K2CoCl4**
YURTSEVEN H. H., Doğan E.
FERROELECTRICS, vol.504, no.1, pp.15-21, 2016 (SCI-Expanded)

LXXVII. **Calculation of the soft-mode frequency for the alpha - beta transition in quartz**
YURTSEVEN H. H., Tari O.
OPTIK, vol.127, no.10, pp.4470-4472, 2016 (SCI-Expanded)

LXXVIII. **Pressure effect on the cholesteric - smectic A transition in cholestryl myristate**
YURTSEVEN H. H., Yolal B., Tari O.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.632, no.1, pp.97-105, 2016 (SCI-Expanded)

LXXIX. **Damping constant and the relaxation time calculated for the lowest-frequency soft mode in the ferroelectric phase of Cd2Nb2O7**
Kiraci A., YURTSEVEN H. H.
OPTIK, vol.127, no.23, pp.11497-11504, 2016 (SCI-Expanded)

LXXX. **Calculation of the spontaneous polarization for Pb1-xCaxTiO3 close to the tricritical point**
Tari O., YURTSEVEN H. H.
FERROELECTRICS, vol.505, no.1, pp.24-33, 2016 (SCI-Expanded)

LXXXI. **Temperature and pressure dependence of the Raman intensity and frequency of a soft mode near the tricritical point in the ferroelectric SbSI**
YURTSEVEN H. H., Duman S.
FERROELECTRICS, vol.500, no.1, pp.241-249, 2016 (SCI-Expanded)

LXXXII. **Calculation of the T-P phase diagram for oxygen using the mean field theory**
Yurtseven H. H., Şenol M. G.
CALPHAD-COMPUTER COUPLING OF PHASE DIAGRAMS AND THERMOCHEMISTRY, vol.51, pp.272-281, 2015 (SCI-Expanded)

LXXXIII. **Calculation of the H-T phase diagram, magnetization and susceptibility in layered structures**
YURTSEVEN H. H., Doğan E., Emre B., Acet M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.393, pp.544-550, 2015 (SCI-Expanded)

LXXXIV. **Temperature and Pressure Effect on the Raman Frequencies Calculated from the Crystal Volume in the gamma-Phase of Solid Nitrogen**
YURTSEVEN H. H., Unlu D.
JOURNAL OF APPLIED SPECTROSCOPY, vol.82, no.4, pp.700-704, 2015 (SCI-Expanded)

LXXXV. **Calculation of the Resonant Frequencies in the Vicinity of the Transition in Quartz**
Lider M. C., YURTSEVEN H. H.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.36, no.7, pp.1585-1597, 2015 (SCI-Expanded)

LXXXVI. **Calculation of the specific heat using the Raman frequency shifts for the solid I-II transition in benzene**
YURTSEVEN H. H., Ozdemir H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1090, pp.53-57, 2015 (SCI-Expanded)

LXXXVII. **Raman frequency shifts calculated from the volume data in naphthalene**
Ozdemir H., YURTSEVEN H. H.
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LXXXVIII. **Ferromagnetic and antiferromagnetic properties in layered structures (La0.6Nd0.4Mn2Si2)**
Doğan E., Emre B., YURTSEVEN H. H.
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