

Brief Biographical Data (CV)

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| Name | IOANNIS VAMVAKAS |
| Position in the Institute | PROFESSOR OF PHYSICS/ TEI ATHENS |
| Undergraduate Studies | DEGREE IN PHYSICS FROM THE UNIVERSITY OF ATHENS. |
| Graduate and Post-graduate Studies | POSTGRADUATE DEGREE IN PHYSICS & TECHNOLOGY OF SUBSTANCES FROM THE UNIVERSITY OF NANCY. DOCTORATE IN PHYSICS FROM THE UNIVERSITY OF METZ-STRASBOURG |
| Specialized qualifications for the expertise on the subject matter of ΠΧΕΟ ¹ | LASER SPECTROSCOPY, NON DESTRUCTIVE TECHNIQUES IN INVESTIGATING MATTER ISSUES ,LASER TECHNOLOGY AND APPLICATIONS. |
| Make use of of new technologies | COMPUTER PROGRAMMING AND USAGE OF MOST SOFTWARE PACKETS ,AUTOMATION TECHNOLOGIES IN MEASUREMENTS AND SCIENTIFIC EXPERIMENTS IN PHYSICS CHEMISTRY AND MATERIALS TECHNOLOGY DEPARTMENT. |
| Experience from participation in research programmes. | SOLID STATE PHYSICS, STUDY OF CRYSTAL STRUCTURES WITH LASER SPECTROSCOPY, MEASURE OF THE ATMOSPHERIC POLLUTION WITH LASER SCATTERING (LIDAR) |
| Research team member | OPTICAL SPECTROSCOPY AND LASER, APPLICATIONS , X-RAY FLUORESCENCE SPECTROSCOPY (XRF) IN THE DEPARTMENT OF PHYSICS CHEMISTRY & TECHNOLOGY MATERIALS / TEI ATHENS. |
| Number of publications - six | 6 |
| Total number of reports | MORE THAN 12 |
| Five published titles on the subject matter of the research proposal in which two of them published within the last three years and the relevant number of reports. | 1) M.D. Fontana, G.E. Kugel, J. Vamvakas and C. Carabatos: Persistence of the tetragonal Raman lines in the cubic KNbO ₃ Solid State Communications, 45 No 10, 873 (1983) 2.)G.E. Kugel, M.D. Fontana, J. Vamvakas and C. Carabatos: Raman Spectrum of ferroelectric |

¹ ΠΧΕΟ: Proposal for Grands to Research Team

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| | <p>KNbO₃ in the rhombohedra phase Raman Spectroscopy Linear and non linear Ed. Wiley 457 (1982).</p> <p>3) G.E. Kugel, M.D. Fontana, J. Vamvakas and C. Carabatos</p> <p>Anomalous Raman Spectrum in KNbO₃ Ferroelectrics 55,27(1984)</p> <p>4) 3th European Conference on Solid State Physics Lausanne 28-30 Mars 1983</p> <p>Precursor order of a ferroelectric state in paraelectric KNbO₃ M.D. Fontana, G.E. Kugel, J. Vamvakas and C. Carabatos</p> <p>5) 8th International Conference on Raman Spectroscopy Bordeaux France 6-11.9.1982. Raman Spectrum of ferroelectric KNbO₃ in the rhombohedral phase</p> <p>G.E. Kugel, M.D. Fontana, J. Vamvakas and C. Carabatos</p> |
| <i>Monographs</i> | <p>EDUCATIONAL BOOKS AND NOTES ON GENERAL TOPICS OF PHYSICS, QUANTUM THEORY IN PHYSICS AND SPECTROSCOPY</p> |
| <i>Five most important reports</i> | <p>1) RF: FONTANA MD,1983,V45,P873 RJ: SOLID STATE COMMUNICATIONS</p> <p>AU: KLEEMANN W; SCHAFER FJ; FONTANA MD</p> <p>TI: CRYSTAL OPTICAL STUDIES OF SPONTANEOUS AND PRECURSOR POLARIZATION IN</p> <p>KNbO₃</p> <p>SO: PHYSICAL REVIEW B-CONDENSED MATTER</p> <p>VOL.30 [N3],PIG:1148-1154,1984, GENUINE-ARTICLE-N0=TC439, RN= 0033</p> <p>2) RF: FONTANA MD,1983,V45,P873 RJ: SOLID STATE COMMUNICATIONS</p> <p>AU: KUGEL G; VOGT H; KRESS W; RYTZ D</p> <p>TI: STUDY OF THE FERROELECTRIC SOFT MODE IN SOLID-SOLUTIONS OF KTA1-XNBXO₃ BY HYPER-RAMAN SCATTERING</p> |

SO: PHYSICAL REVIEW B-CONDENSED
MATTER

VOL.30 [N2],PIG:985-991,1984, GENUINE-
ARTICLE-N0=TA514, RN= 0035

3) RF: KUGEL GE,1982,V,P457 RJ: RAMAN
SPECTROSCOPY

AU: WANG CZ; YU RC; KRAKAUER H

TI: POLARIZATION DEPENDENCE OF BORN
EFFECTIVE CHARGE AND DIELECTRIC-
CONSTANT IN KNbO3

SO: PHYSICAL REVIEW B-CONDENSED
MATTER

VOL.54 [N16],PIG:11161-11168,1996 OCT 15,
GENUINE-ARTICLE-N0=VT675, RN= 0037

4) Authors: Suzuki-I Tasumi-M

Title: Infrared and Raman-Spectroscopy Literature
Data-Base - A Bibliography Covering the Period 1
January 1982 - 30 September 1984

Full source: JOURNAL OF MOLECULAR
STRUCTURE 1985, Vol 132, Iss DEC, pp 1-476
Language: English

Document type: Review

IDS/Book No.: AXM86

No. Related Records: 0

No. cited references: 5812 Cited references:

FONTANA-MD-1983-SOLID-STATE-
COMMUNICATIONS V45-P873

5) Authors: Chen-J Fan-CG Li-Q Feng-D

Title: Transmission Electron-Microscope Studies
of Paraferroelectric Phase Transitions in BaTiO3
and KNbO3

Full source: JOURNAL OF PHYSICS C-SOLID
STATE PHYSICS 1988, Vol 21, Iss 11, pp
2255-2266

Language: English

Document type: Article

IDS/Book No.: N1294

No. Related Records: 20

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| | <p>No. cited references: 30</p> <p>Cited references:</p> <p>FONTANA-MD-1983-SOLID-STATE-COMMUN-V45-P873</p> |
| <p><i>National and International distinctions (organising conferences, member of committees etc.)</i></p> | <p>PARTICIPATION IN COMMITTEES OF SCIENTIFIC CONFERENCES (TWO-DAYS CONFERENCE OF TEI ATHENS)</p> |

ΠΙΝΑΚΑΣ ΔΗΜΟΣΙΕΥΣΕΩΝ

1) M.D. Fontana, G.E. Kugel, J. Vamvakas and C. Carabatos: Persistence of the tetragonal Raman lines in the cubic KnbO_3 Solid State Communications, 45 No 10, 873 (1983)

2.)G.E. Kugel, M.D. Fontana, J. Vamvakas and C. Carabatos: Raman Spectrum of ferroelectric KnbO_3 in the rhombohedral phase Raman Spectroscopy Linear and non linear Ed. Wiley 457 (1982).

3) G.E. Kugel, M.D. Fontana, J. Vamvakas and C. Carabatos

Anomalous Raman Spectrum in KnbO_3 Ferroelectrics 55,27(1984)

4) 3th European Conference on Solid State Physics Lausanne 28-30 Mars 1983

Precursor order of a ferroelectric state in paraelectric KnbO_3 M.D. Fontana, G.E. Kugel, J. Vamvakas and C. Carabatos

5) 5th European Conference on Ferroelectricity Benalmadena Spain 26-30.9.1983
Anomalous Raman spectrum in KnbO_3 G.E. Kugel, M.D. Fontana, J. Vamvakas

6) 8th International Conference on Raman Spectroscopy Bordeaux France 6-11.9.1982. Raman Spectrum of ferroelectric KnbO_3 in the rhombohedral phase
G.E. Kugel, M.D. Fontana, J. Vamvakas and C. Carabatos