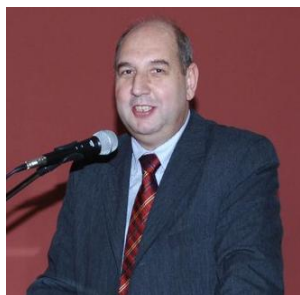


## CURRICULUM VITAE

PERSONAL INFORMATION    Stergios Ganatsios ( or Gkanatsios )



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ganatsios@teiw.mg; stergios3@hol.gr

Sex Male | Date of birth 07/06/1958 | Nationality Greek

## PROFESSIONAL EXPERIENCE

2005 – today Full Professor TEI of Western Macedonia. E5 // 2164 / 05.12.2000 (GG 295 / 12.21.2000, t.N.P.D.D.)

2002 - 2005 Associate Professor TEI of Western Macedonia

2000 - 2001 Professor TEI of Western Macedonia

1993 - 2000 Associated Professor TEI of Western Macedonia. E5 / 1422 / 09.21.1993 (GG 123 / 09.30.1993, t.N.P.D.D.)

1992 - 1994 Trainer IEK Kozani

1991 - 1992 Member of the Scientific Council ELKEPA branch Western Macedonia

1991 - 1993 Design and research private office on environment issues, electronics, information technology, energy, etc. (no. 000 691 statement) (Freelance)

1989 - 1993 Coordinator and / or rapporteur trainer ELKEPA

1986 - 1990 Fellow of the Central Institute of Physics Bucharest (ICEFIZ), linear accelerator tandem laser and materials

1987 - 1989 Temporary Assistant Professor TEI of Thessaloniki

1984 - 1993 Temporary Lecturer, Assistant Professor and full Professor at TEI Kozani

1981 - 1982 Physicist in ICEFIZ (IFA) (Central Institute of Physics Bucharest) in the nuclear technology field

## ADMINISTRATIVE EXPERIENCE

2002 - 2008 President (Rector) of TEI of Western Macedonia (twice)  
 1998 - 2002 Vice-president TEI of Western Macedonia  
 1998 - 2002 Chairman of the Council of Funds for Research Grants  
 1995 - 1998 Vice chairman of the Council of Funds for Research Grants TEI of Western Macedonia  
 2005 – now Responsible Graduate Mechatronics Program in collaboration with the UPC of Barcelona  
 1998 - 2002 Member of the Scientific Advisory Council (EGM) of (CTD) as a researcher - representative of the TEI  
 1995 - 1998 Head of the Department of Electrical Engineering  
 1993 - 1995 Head of Sector Low Voltage Electrical Department  
 2003 - 2004 Member of the Trilateral Secretariat of TEI 's Presidents  
 2007 - 2008 Member of the Trilateral Secretariat of TEI's Presidents  
 2006 - 2008 Elected member of the National Council for Lifelong Learning (unpaid)  
 2005 - 2006 President of the National Central Committee of the final judgment of the research action "Archimedes" for Technology  
 2008 - 2011 D / Director of the Center for Technological Research of Western Macedonia  
 2010 - Today President of the Interbalcanic Collaboration Centre in Western Macedonia  
 1989 - 1993 Member of the Board of the Union of Greek Physicists Western Macedonia  
 2013 - Today President of the Department of Electrical Engineering of TEI.  
 2015 – Today President of the districtional consil for research and innovation in district of Western Macedonia , Greece .  
 2016 Febr. External evaluator from abroad for the position of the general director of the Romanian National Institute for Energy.

## EDUCATION AND TRAINING

1985 - 1990 PhD thesis at the Faculty of Physics of the University of Bucharest  
 1981 - 1982 Master section of the School of Physics Nuclear. Degree graduate 9.20  
 1977 - 1981 Faculty of Physics of the University of Bucharest, specialization Nuclear Physics Degree diploma 9.00  
 1976 Baccalaureate from Valtadoreio , Kozani

## INDIVIDUAL DEXTERITIES

Native language: Greek

Other languages Understanding Speaking Writing  
 Oral Written (reading) Contact Spoken  
 English B2 B2 B2 B2 B2

Romanian C2 C2 C2 C2 C2

Italian A1 A1 A1 A1

Spanish A1 A1 A1 A1

Levels: A1 / 2: Basic user - B1 / 2: Independent user - C1 / 2: Experienced user  
Common European Framework of Reference for Languages

### Computer skills

deep knowledge of computers and networks (including software and hardware)

### ADDITIONAL INFORMATION

Recent research projects as a scientific responsible

1. FLY ASH RE-UTILIZATION FOR THE PRODUCTS OF GLASS CERAMICS, Archimedes III, 2011 –now
2. KnowEn Tech, Nr. MTKI-CT-2005-029758, Development of strategic Academia - Industry, FP6, Marie Curie action, KnowEnTech, 2005 – 2010
3. Satellite Assisted Management of Air Quality (SMAQ), LIFE Environment, 2005 - 2009

Scientific publications / Conferences / Reports

- 59 articles in international scientific journals
- 59 articles in international conferences
- 7 books in foreign languages , 2 in Greek
- more than 150 scientific citations

Invited Speech and interviews in numerous and various forums and MMs

### Seminars

Coordinator or lecturer in dozens of seminars consensing t the environment, renewable energy, computing, industrial automation etc., In TEI Western Macedonia, in TEI of Thessaloniki , in ELKEPA Western Macedonia and various other organizations

### HONORS AND AWARDS HONORARY

→ November 2005: Excellence Award of the National Institute for Research & Development of Leptomechanics, Romania.

→ November 2004: Remus Radulet Awards of Excellence from University "Politehnica" of Bucharest for contribution to Higher Education in Romania.

## RESULTS

### RESULTS DURING MY TERM AS PRESIDENT OF TEI

- I took over the management as Vice President since '99 responsibility of all the new departments mixed funded (national and EU budget), as well as other actions (mixed funded) as Bureau of Students Practice, Students Career Office, Greek universities Network, etc., which were all run by the Special Research Funds Account bringing in TEI a lot of billion of drachmas
- I took on a TEI in 10th position as far as the number of students is concerned and by the end of my term it was at the top three positions.
- I overdoubled the number of the Scientific-Educational Staff of the Institute
- I increased by 50 people the number of managerial staff of the Institute
- I increased by > 300% the annual incoming budget of the Institute when the national average for the TEI's increased by only ~50%
- I increased by over >400 % the Public Investments Program (for Infrastructures) budget of the Institute.
- When I came to term in 1998 I Took over the TEI of Kozani with 9 departments and in 2008 at the end of my term it operated with 16 departments plus another 4 the operation of which was succeeded during my term.
- I created new Branch in Grevena
- I brought 25 research programs Archimedes I and II
- I began the operation, by the approval of the ministry of Education, for three master degree Inter-Institutional programs for the first time. One in cooperation with a Greek university and two in cooperation with Universities Abroad
- In 2003 in Grevena's branch I renovated and I reconfigured a school for the operation of the first department of TEI
- I started building new infrastructure in Florina, Kastoria and Grevena. They finished and operated in Florina and Kastoria and handed in the final stages of completion - delivery in Grevena
- In Kozani I doubled the campus size for the needs of the Institute and built a new building from the remaining deductions of various international competitions.
- During my two terms as president of TEI Western Macedonia I managed and received funding from various organizations, which exceeded the funding that TEI had received throughout the previous 26-year period of operation.
- In all actions concerning either European or national funding I managed 90-120% absorbances depending on the year
- During my tenure as director of the Center for Technological Research of Western Macedonia, the submitted - approved or in the approval process was over 30 proposals - studies in various bodies of around 3.5 million Euros.

## SAMPLE SCIENCE PROJECT - RESEARCH PROJECTS

- September 1983, I participated in the Third National Conference of Physics in Kalamata
- the summer of 1987, I participated in Union Conference of Physicists Annex D. Macedonia with two tasks: 1. Diagrams Feynman 2. Pinch effect
- August 1987, I presented in the Central Romanian Institute of Physics a work on "Experimental determination of nuclear structure parameters" (Design necessary for mechanical experiment, electrical, electronic systems)
- September 1987, I was invited by the TEI of Thessaloniki for the installation of a Van der Graaff accelerator and I worked for it until March 1989
- Since September 1987, also taught in six-month term seminar ENVIRO (environmental issues), organized by the Technological Educational Institute of Thessaloniki in collaboration with AUTH
- 1987, submission to the Ministry of Education research program relating to the environment, which was adopted the same year by the Ministry of Education, the no. E58072 of 11/24/1987. The program continued later (in monitoring), having connected more with local authorities, local industries and also other higher education institutions (University of Thessaloniki and University Polytechnics from Athens)
- Since March 1988, to November of the same year I taught Hardware issues in six months seminar for engineers, organized by the TEI Kozani
- August - September 1988, I participated in the "3rd INTERNATIONAL CONFERENCE" by object "TRENDS IN QUANTUM ELECTRONICS" in Bucharest under the auspices of I. URSU Minister of Research and Technology, Professor of the School of Physics at the University of Bucharest and A.M. PROKHOROV (Physics NOBEL)
- 1989-1993, Scientific collaborator in the research program entitled "Determination of gaseous pollutants and transportation study in Kozani - Ptolemaida – Amyntaio valley "
- 1989-1993, I was Scientific collaborator of the research program entitled "Dispersion of air pollutants from industrial activity in the area of Ptolemaida - Kozani during days with western circulation "
- April 1990, I presented in Atomic Physics Institute the work on "The laser in semiconductor technology"
- 1990, I performed a research program entitled "Correlation of measurements of spectrophotometers BREWERS 036 and 041 and study of the boundary layer in the valley Kozani-Ptolemaida"
- September 1990, participation as invited lecturer in the 6th INTERNATIONAL SCHOOL ON QUANTUM ELECTRONICS on "LASERS - PHYSICS and APPLICATIONS", in Varna, Bulgaria on, "DIRECT LASER SYNTHESIS OF SURFACE COMPOUNDS (NITRIDES / OXINITRIDES)"

- In 1990, I assume to realize an environmental study-research for the relocation of the village-community KOMANOS .
- winter 91-92, I undertook environmental study-research to relocate KLEITOS community and this was the basis upon which the community of KLEITOS was relocated in the ZEP area
- February 1992, I participated as a representative of the TEI Kozani at a conference on research programs and NATO Fellowships
- 1992 - 1993, Member of the Committee for the technological development of the region of Western Macedonia
- February 93, I delivered an environmental study for the ZEP area of Kozani, Municipality of Kozani
- 1996, My proposal for a research project entitled "Study of radioactive bioaccumulation with biological indicators" in which I was the scientific responsible was approved by the City Council of Kozani (Decision approval 1 / 03.26.1996)
- 1997: approval of the proposal for a research project entitled 'Construction of portable device XRF "as project leader (Minutes Approval 4 / 06.17.1997)
- 1997: approval of a proposal from the Hellenic General Secretariat for Research and Technology of a seminar titled "Industrial Automation" funded by the OP, as project leader
- 1997 approved seminar funded by the EPEAEK entitled "Energy saving technologies"
- 1998 seminar approved funded from EPEAEK entitled 'Renewable energy technologies'
- Since 1998, scientific leader for the program internship "spasmi" EPEAEK
- From March to June 1999, radioactive isotope transport Discovery due to the war in Yugoslavia. The team in my laboratory at the Technological Educational Institute of Western Macedonia was the first, which measured and proved that in Yugoslavia were used bullets with depleted uranium cover
- June 1999, Organization of the Workshop on "The war in Serbia and impact on the environment"
- From 1998 to 2008, Institutional responsibility for European programs Erasmus / Socrates- Extension actions (entrusted the coordination of the Former ICP with 14 participating institutions abroad, for next year 2002-2003)
- 1998-2002, Scientific Institutional Head in Leonardo da Vinci. student internships abroad. In 1998 a proposal TEI submitted for the above program as national representatives for the Erasmus program in Greece was approved by Brussels.
- Since September 2000, I become Institutional responsible of TEI of Western Macedonia for the Extension of Higher Education funded by EPEAEK.
- From October 2000 until 2008, Institutional Chief Network
- From April 2000 to 2008, Head GUNET TEI Western Macedonia
- June 2000, approval of college faculty creation program funded by the World Bank at the University of Bucharest concerning the Technical Administration of SMEs
- 2002, Evaluator of research programs "Archimedes I"
- In 2004, Evaluator of research programs "Archimedes II"
- 2005-2006, President of the National Central Committee of the final evaluation of the research action "Archimedes II" on the topic "Technology"

- October 2006: Chairman of the World Scientific and Engineering Academy Society at the conference International Symposium, Advanced Measurement Methods
- October 2006: Invited Professor of the World Scientific and Engineering Academy Society at the conference International Symposium, Advanced Measurement Methods
- 2006-2008, Elected Member of the National Council for Lifelong Learning
- 2011: Approval of the research project "fly ash re-utilization for the product of ceramics" under the Archimedes III
- Reviewer for several scientific journals and have been many times member of international scientific and organizing committees, chairman or visiting professor in international conferences abroad
- I have been more than four times State 5-member international doctoral boards
- 2010 - 2012: Participated as an expert in the project of the National Romanian Academy of Economic Research Foundation funded the development sector of the EU HR 2007 - 2013 on 'employment prospects of young science in the Balkans. " POSDRU / 89 / 1.5 / S / 62988, 2010 – 2012
- 2015 – Today President of the districtional consil for research and innovation in district of Western Macedonia , Greece .
- 2016 Febr. External evaluator from abroad for the position of the general director of the Romanian National Institute for Energy.

## ANNEXES

### WRITING books and scientific monographs

1. C.Cepisca, S. Ganatsios, N. Jula, (2001), "Instrumentatie Industriala," ICPE, Bucuresti, Romania
2. C.Cepisca, M. Covrig, S. Ganatsios P.Notinger.L. Ocheana, R.Parlog-Cristian, C.L.Popescu, M.O. Popescu, D. Steflea, M. Perpelea, (2002), Compendiu de Electronica, Rm. Valcea, Bucuresti, Romania
3. SERIȚAN, G, CEPIȘCĂ, C, GANATSIOS S, Energia electrică și măsurarea ei, Ed.ELECTRA, 2004, București, 200pag., ISBN 973-7728-09-2
4. S.Ganatsios, M.Dobre, E.Nistor, (2005), Physics of rarefied gases, TEI of Western Macedonia Press, Kozani 2005
5. Physics for scientists and engineers / Randal D. Knight, 1st Volume: Engineering, translation Kon / nos Kritsas Joanna Paraskelidi? Edited by Stathis Sideris, Stergios Gkanatsios, Athens: Macedonian Publishing, c 2007
6. Physics for scientists and engineers / Randal D. Knight, 2nd Volume: Electricity, translation Kon / nos Kritsas Joanna Paraskelidi? Edited by Stathis Sideris, Stergios Gkanatsios, Athens: Macedonian Publishing, c 2007
7. Octavian Dontu, George Charalampides, Stergios Ganatsios, Sotirios Kandreli,

Bogdan Alexandrescu. Metode si mijloace pentru evaluarea gradului de poluare a aerului si apei marine. Editura Printech, Bucuresti 2009

8. Cristina Mihaela Gheorghe, Mircea Covrig, Ganatsios Stergios, Kikis Vasilis, Meghea Aurelia. «Innovation, a solution for SMEs». Publisher John, Marie Curie Actions. 2011

9. Mircea Covrig, Ganatsios Stergios editors (coordinators), "Selected Topics in Applied Electrotechnics", ISBN: 978-960-508-052-5, 2012

## PUBLICATIONS IN JOURNALS WITH SYSTEM OF REVIEWERS

1. "Transfer of  $^{121}\text{I}$  and  $^{137}\text{Cs}$  from cow milk to cheese and other products", The Australian Journal of Dairy Technology, vol 44, no 1, May 1989
2. "Direct oxinitride synthesis by multipulse excimer laser irradiation of silicon wafers in a nitrogen-containing ambient environment", Journal of Applied Physics, vol 68, issue 5, 1990
3. "Synthesis of pure titanium nitride layers by multipulse excimer laser irradiation of titanium foils a nitrogen-containing atmosphere", Journal of Applied Physics, vol. 69, issue 3, 1991
4. "Direct nitridation of a silicon surface by multipulse excimer laser irradiation in a nitrogen-containing ambient gas", Journal of Applied Physics, vol. 70, issue 4, 1991
5. "Natural  $^{228}\text{Ra}$ ,  $^{226}\text{Ra}$ ,  $^{40}\text{K}$ , and artificial  $^{137}\text{Cs}$  radionuclides distribution in soil in areas of lignite power plants of Western Macedonia", Journal of Trace and Microprobe Techniques, Volume 19, Issue 2, May 2001, pages 259-266
6. "Correlation between hardness and structure of carbon-nitride thin films obtained by reactive pulsed laser deposition", Thin Solid Films, Volume 388, pp 93-100, 2001
7. "About the power definitions for nonsinusoidal situations", Buletin Stiintific Universitatea Pitești, Seria: Metrologie, Sisteme de măsurare și Ingineria calității, nr.2-3, p.24-30, 2002, ISSN 1582-6023, (SCOPUS)
8. "Evaluation of the energetic potential of the wind on the seacoast of the Black Sea using Wavelet Transform. Section: Eolian energy evaluation wavelet transform ", Electrotehnica Electronica Automatica, Vol. 49 nr.9-10, Institutul de Cercetare, Bucuresti-Romania, sept.-oct. 2001
9. "The mathematical models of the electromechanical convertors with the intermediate magnetic field", Electrotehnica Electronica Automatica Editorial 2001 - 2002
10. "The estimate of the power potential of the wind at the seaside of the Black Sea", Electrotehnica Electronica Automatica Editorial, 2001-2002
11. "Effects of thermo-oxydative stresses on water - trees initiation", Electrotehnica Electronica Automatica Editorial, 2001-2002
12. "Industrial frequency magnetic field pollution in power plant areas" Electrotehnica Electronica Automatica Editorial, 2001-2002
13. "Trace elements distribution in soil in areas of lignite power plants of Western Macedonia", Journal of Trace and Microprobe Techniques, Volume 20, Issue 2, May



2002, pages 269-282

14. "Heavy metals distribution in some lichens, mosses, and trees in the vicinity of lignite power plants from West Macedonia, Greece. "Journal of Trace and Microprobe Techniques, Volume 20, Issue 3, August 2002, pages 395-413

15. "Evaluation of the doses of radioactive material and the population protection countermeasures in a nuclear accident", Journal of Environmental Protection and Ecology, Volume 3, No4,989-994, 2002

16. "Influence of the thermal stress in the solid active laser medium on the Technological parameters of the laser beam", Academia Romania. Romanian Journal of Technical Sciences. Applied Mechanics. "Proceedings of the International Conference on manufacturing systems ICMaS 2002 (7, pp 451-454, 2002

17. "About the performances of the electronic energy meters", Acta Electrotehnica, vol.44, nr.2, 2003, pp.97-100, ISSN 1841- 3323

18. "Energy measurement techniques for non-sinusoidal situations", Acta Electrotehnica, vol.44, nr.2, 2003, pp.91-96, ISSN 1841-3323

19. "Procese fizico-chimice care apar in fluidele combustibile tratate in camp magnetic", Revista Chimie, vol. 54, nr. 12, 2003, Revista I.S.I.

20. "Natural and artificial radionuclides distribution in some lichens, mosses and trees in the vicinity of lignite power plants from West Macedonia, Greece", J. Trace Microprobe Tech., Vol. 21 (3): 543-554

21. "Determinari experimentale privind regimul deformant la functionarea lampilor cu vapori de sodiu de inalta presiune", Buletinul Stiintific al Universitatii din Pitesti, Seria Metrologie, Sisteme de masurare si ingineria calitatii, nr.4 / 2003, pag.38-44, Ed .Universitatii Pitesti, ISSN 1582-6023

22. "Mesurage de l'energie electrique.Erreurs et compensations», Buletinul Stiintific al Universitatii din Pitesti, Seria Metrologie, Sisteme de masurare si ingineria calitatii, nr.4 / 2003, pag.84-88, Ed. Universitatii Pitesti, ISSN 1582-6023

23. "The measurements of electrical nonsinusoidal signals", Buletinul Stiintific al Universitatii din Pitesti, Seria Metrologie, Sisteme de masurare si ingineria calitatii, nr.1 / 2004, pag.22-26, Ed. Universitatii Pitesti, ISSN 1582-6023

24. "Reducerea regimului nesinusoidal in functionarea lampilor cu vapori de sodiu", Buletinul Stiintific al Universitatii din Pitesti, Seria Metrologie, Sisteme de masurare si ingineria calitatii, nr.1 / 2004, pag.82-86, Ed. Universitatii Pitesti, ISSN 1582-6023

25. "Force computation of a PM separator", Rev. Roum. Sci. Techn.- Électrotechn. et Énerg., 49, 4, p. , Bucharest, 2004

26. "Influence of Thermal Deformation in the Solid Laser Medium on the Emitted Radiation Parameters", Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science August 1, 2005 219: 823-827

27. "Increasing pumping efficiency in cavities of the laser generators with active solid medium by optimizing their profile", Romanian Journal of Optoelectronics. Revista I.S.I.2004, v. 12, "issue, January - March 2004

28. "Procese biofizico - chimice in tesuturile umane vii traumatiza tratate cu collagen si asistate ultrasonic", Revista de chimie, Revista ISI 2004

29. "Sudarea cu laser CO2 a unor oteluri inoxidabile", Revista de Mecanica Fina Optica si Mecatronica ", Nr. 4, 2004, pag.4

30. "Methodes de correction des erreurs dues aux transformateurs de courant au mesurage des energies electriques", Buletinul Institutului Politehnic din Iasi, Tom L (LIV), 2004, Fasc.5B, pag.745-755

31. "Method for determination of the equivalent network for reciprocal and symmetrical multipol circuits", Buletinul Stiintific al Universitatii din Pitesti, Seria Metrologie, Sisteme de masurare si ingineria calitatii, nr.1 / 2004, pag.82-86, Ed. Universitatii Pitesti, ISSN 1582-6023
32. "Senzor inteligent bazat pe nanotehnologii pentru determinarea concentratiei de monoxid de carbon", Buletinul Stiintific al Universitatii din Pitesti, Seria Metrologie, Sisteme de masurare si ingineria calitatii, nr.1 / 2004, pag.132-140, Ed. Universitatii Pitesti, ISSN 1582-6023
33. "Procese fizico-chimice care au loc la interactiunea dintre tesuturile umane vii traumatizate preparate chimice colagenice si ultrasunete", Revista Chimie vol. 56, nr1, 2005
34. "Sudarea cu laser a unor oteluri inoxidabile utilizate la instalatiile de process din industria chimica", Revista Chimie, vol. 56, nr 2, 2005
35. "Inoxidabile pentru imbunatatirea rezistentei la coroziune", Revista de chimie Vol.56, nr 2, 2005
36. "About of new method for Synchronizing control of an stretch-reducing mill" Buletinul Institutului Politehnic Iasi, Tomul LII (LVI), Fasc. 5A, 2006, Electrotehnica, Energetica, Electronica, pp.27-33, ISSN 1223-8139
37. "The Sensitivies in Automatic Systems Circuits Using the Relative Values", Military Technical Academy, MTA Review No.2 "Bucharest-Year XVI, 2006
38. "About the linearity of Thermocouples", Session II Sensors Technology and Signals, pp.45-49, Editura Printech, Bucuresti, ISBN (10) 973-718-512-9 ISBN (13) 978-973-718-512 -9
39. "Performances of a Waste Recycling Separator with Permanent Magnets", Journal of Materials Processing Technology, (ISI), ISSN 0035-4066, Volume 181, Issues 1-3, 1 January 2007, Pages 246-248
40. "Utilizari ale instrumentelor cu interfata Ethernet in sistemele de achizitie de date", Electrotehnica EEA 55/2007 (p.36-40)
41. "Methods for power measurement in energy meters", The scientific bulletin of electrical engineering faculty, year 8 No.2 (9), Valahia, 2008
42. "Data acquisition and assessment of the air pollution at urban background station", The scientific bulletin of Electrical Engineering Faculty. (p.93-97) 2008
43. "Passive and active compensations for current transformers", Metrologie, nr.4, 2008, Bucharest, pp. 5-10, ISSN 1220-546-x, (CNCSIS D)
44. "Laser mechatronic intelligent systems for measurement and integrated control with applications in industrial and metrological processes", The Romanian Review Precision Mechanics, Optics & Mechatronics 33/2008 (p.105-112)
45. "Production alignment of equipment and technology for micro / nanoprocessing at European and worldwide requirements and development tendencies", The Romanian Review Precision Mechanics, Optics & Mechatronics 34/2008
46. "Thermal Imaging Utilization for Analysis of Thermal Phenomena in High - Voltage Fuse-Links", EEA Electrotehnica, Electronica, Automatica, vol.57, nr.1, ianuarie-martie 2009, pp.11-16, ISSN 1582-5175
47. "Integration of rapid prototyping in manufacturing process for mechatronic systems", The Romanian Review Precision Mechanics, Optics & Mechatronics 35/2009 (p.113-118)
48. "Methods and means for assessing the degree of air pollution and marine water", PRINTECH, Bucharest, 2009

49. "Considerations on treating some fuel fluids in a magnetic field", The Romanian Review Precision Mechanics, Optics & Mechatronics, 2010
50. "On the dynamic stability analysis for compliant gripper", The Romanian Review Precision Mechanics, Optics & Mechatronics 40/2011, (p.172-174)
51. "CAD Analysis Applied to Self-Centering Compliant Grippers", The Romanian Review Precision Mechanics, Optics & Mechatronics 40/2011 (p.290-293)
52. "Porosity-Mechanical Behaviour Correlation in Cranial Implants", The Romanian Review Precision Mechanics, Optics & Mechatronics 39/2011 (p.13-16)
53. "Autonomous System of Vibro-Acoustic Monitoring of the Grinding Process to Increase the Quality of the Processed Parts", Control Engineering and applied informatics. Vol. 13, 2011 (p. 14-19)
54. "The Material's Temperature Influence on Absorption Degree of Laser Radiation in Technological Processes", The Romanian Review Precision Mechanics, Optics & Mechatronics 39/2011
55. "Quantum analysis of microwave - mud interaction", Journal of Environmental Protection and Ecology 14, No 1, pages 180 -186, 2013
56. "An innovate method for wastewater sludge drying", Journal of Environmental Protection and Ecology 14, No 1, pp 196 -203, 2013
57. "CAD Analysis Applied to Self - Centering Compliant Grippers", Applied Mechanics and Materials, Vol. 325 - 326, pp. 305-309, 2013
58. "Mechatronics Galaxy" a New Concept for Developing Education in Engineering, Applied Mechanics and Materials, Vol 371, pp.754 - 758, 2013
59. "Strategy of fem modelling of ultrasonic horn for workpiece vibration used at micro-electrical discharge machining", IJPD 5 (2), pp.99 - 114, 2014

#### ARTICLES IN INTERNATIONAL CONFERENCE WITH SYSTEM OF REVIEWERS

1. "Surface nitride / oxynitride layers obtained by multipulse excimer laser irradiation of metal and semiconductor samples" SPIE - The International Society for Optical Engineering - First International School on Laser Surface Microprocessing: proceedings: 30 October-3 November 1989, Tashkent, USSR / VI Konov, B.S. Lukyanchuk, I. Boyd, chairs / editors; 1990 (SPIE Vol. 1352), / 113
2. "New results in direct nitridation of titanium and silicon by multipulse excimer laser irradiation in a nitrogen or ammonia ambient atmospheres" Lasers: Physics and applications proceedings of the 6th International School on Quantum Electronics, Varna, Bulgaria, September 14-19, 1990 / editor, Peter Atanasov, 1991
3. "Direct laser synthesis of surface compounds (nitrides / oxinitrides)", Lasers: Physics and applications proceedings of the 6th International School on Quantum Electronics, Varna, Bulgaria, September 14-19, 1990 / editor, Peter Atanasov, 1991
4. "Laser synthesis of Titanium Silicide", International conference: Laser and their applications - Lasers 90 (IV conference), Oct.23-26, Plovdiv, Bulgaria, 1990
5. "Laser promoted Ti in-diffusion into LiNbO<sub>3</sub> single crystalline substrates for preparation of performant optical planar waveguides", CNOE '93 Prima Conferinta Nationala de Optoelectronica, Bucharest, Romania, 1993

6. "Spectrophotometric measurements of the total amount of SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> in the Kozani Ptolemais valley", 2nd Panhellenic Conference on Meteorology-Climatology and Atmospheric Physics, Thessaloniki, 29-30 Sept. 1994
7. "Analysis Recommendation fly ash with nuclear methods" Conference "Environment measurements and protection. Environment and Education ", Kozani, 8-9 April. 1994
8. "Study of accumulation of radioactivity using biological indicators", 3rd General Conference of the Balkan Physical Union (BPU-3), 2-5 September 1997, Cluj-Napoca, Romania, Proc. Suppl. Balkan Physics Letters vol.5 (1997)
9. "On the TSP concentrations and their trace elements content in Eordea basin, an industrial area in Western Macedonia, Greece", 3rd General Conference of the Balkan Physical Union (BPU-3), 2-5 September 1997, Cluj-Napoca, Romania, Proc. Suppl. Balkan Physics Letters vol.5 (1997)
10. "Concentration levels of atmospheric pollutants in the vicinity of Kozani, Greece", PROTECTION AND RESTORATION OF THE ENVIRONMENT IV, Int. Conf, Proceedings, pg.396-403, 1998
11. "Evaluation of the doses of radioactive material and the population protection countermeasures in nuclear accident", 2nd Balkan Conference on Industrial Pollution, Sofia-Bulgaria, 19-20 Nov. 1999
12. "Radiometric investigations of natural and artificial radioactive elements in Western Macedonia Valley", 3rd International Conference of Balkan Environmental Association (B.EN.A) Transboundary Pollution, Bucharest-Romania, 23-26 Novemb. 2000
13. "Investigation of the fly ash trace element pollution of the soil in the vicinity of the coal fired plants of Western Macedonia (Greece)", International Conference for promotion of Sustainable Development on Global Scale in the Context of Forthcoming Earth Summit, Cracow 11 -13/3/2002, pg. 137-150
14. "About the performances of the electronic energy meters", International Conference "Metrology & Measurement Systems METSIM'2002", Bucharest, June 27-28, 2002, Section V, CD-ROM, ISBN973-8067-57-x, Ed . ICPE (Electra)
15. "Energy measurement techniques for non-sinusoidal situations", International Conference "Metrology & Measurement Systems METSIM'2002", Bucharest, June 27-28, 2002, Section V, CD-ROM, ISBN973-8067-57-x, Ed . ICPE (Electra)
16. "Static mathematical models of the poly-phase asynchronous and synchronous electrical machines", ATEE 2002, Bucuresti, 29 November 2002
17. "Aspecte privind incertitudinea de masurare a echipamentelor digitale calitatii energiei electrice", National Conference on New and Renewable Energy Sources "CNSNRE 2003", 11- 14 September 2003, Targoviste, Romania
18. Natural and artificial Radionuclides distribution in soil in the vicinity of coal fired plants of West Macedonia, Greece. "International conference on environmental science and technology," Lemnos Greece, September 2003, pp. 824-831
19. "Aspecte privind incertitudinea de masurare a echipamentelor digitale dedicate calitatii energiei electrice", Conferinta Nationala de surse noi si regenerabile de energie CNSNRE 2003, Târgoviste, 11-13 octombrie, 2003
20. "Power and energy measurement some considerations for definitions", 4th International Conference on Electromechanical and Power Systems SIELMEN -2003, Chisinau, 26th-27th September 2003, volume II, pp.89-92, ISBN 9975-9704-9-4
21. "Measuring electrical power in energy meters", Proceeding of International

- Conference METSIM 2003 "Metrology & measurement systems", Bucharest, October 30-31, 2003, Ed.ELECTRA, ISBN 973- 8067-86-3, pp.18- 23
22. "Aspects of the digital sampling techniques in the electrical energies measurements", "Proceedings of International Conference METSIM '2003" Metrology & measurement systems ", Bucharest, October 30-31, 2003, Ed.ELECTRA, ISBN 973-8067-86 -3, pp.67-70
23. "Marquage et codage des codes a barres par laser", 6th COMEFIM Conference on Fine Mechanic and Mechatronics 2002, Romania, Brasov 10-12 October, 2002
24. "Force Computation of a PM separator", Simpozionul National de Electrotehnica Teoretica, 2004
25. "The influence of digital sampling in the electrical metrology", AQTR 2004 - THETA 14 Proceedings of 2004 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, pp.487, May 13-15, 2004, Cluj-Napoca , Romania, tome I
26. "Computation of the Magnetic Forces for a Waste Recycling Separator", RSEE 2004 International Conference, Stana de Vale - Spa Romania, 27-29 May 2004
27. "Eddy current no pollution treatment of the agriculture tools", Masa rotunda pe tema energiilor regenerabile, 26-27 Aug. 2004, Agiea
28. "Waste Recycling Separator with Permanent Magnets", Masa rotunda pe tema energiilor regenerabile, 26-27 Aug. 2004, Agiea
29. "Stand pentru testarea fiabilitatii la vibratii a aparaturii de contorizare pentru apa calda si rece", 7th International Conference on Mechatronics and Precision Engineering, Bucharest, 27-29 May 2004
30. "Methodes de correction des erreurs dues aux transformateurs de courant au mesurage des energies electriques", Proceedings of 3rd International Conference on Electrical and Power Engineering "EPE 2004", October 7-8, vol.B, pag.749-755, 2004, Iasi, (SCOPUS)
31. "Regimul deformant în funcționarea lămpilor cu vapori de sodiu de înaltă presiune", International Symposium on Electrical Engineering ISEE 2004, 5-th edition, october 27-29, 2004, Tirgoviste, CD-ROM, ISBN 973-712-038- 8
32. "Methods for modelisation and simulation in electrical systems, Conferința Internațională "Tendințe în dezvoltarea aplicațiilor ciberneticii ", Academia de Cibernetică" Ștefan Odobleja ", Felix Spa, 26-27 november, 2004, ISSN 1582-6791
33. "Performances of a Waste Recycling Separator with Permanent Magnets", JAPMED4, 17-20 September 2005, Cairo, Egypt, pp. 179-180
34. "ECG signal - Wavelet evaluations", Scientific Bulletin of Electrical Engineering Faculty, 2005
35. "ECG-signal-Wavelet Evaluations of Interactions between frequency Bands", Metsim 2005, Metrology & Measurement Systems, 3rd International Conference, Politehnica University Bucharest, 22-23 Septem. 2005
36. "ECG signal-Wavelet Evaluations", The 6th edition of International Symposium on Electrical Engineering, Section A3, October 17- 19, 2005, Targoviste
37. "About of new method for Synchronizing control of an stretch-reducing mill", 4-th International conference on electrical and power engineering
38. "About the linearity of Thermocouples", Proceedings of International Symposium, Advanced Measurement Methods ", June 22, 2006, Bucharest
39. "Materials, technologies and linearity of thermocouples", Proceedings of the 5th Edition of MMDE 2006, 3rd Edition of IEEE ROMSC 2006, Joint International

Conference "Materials for Electrical Engineering", Bucharest, Romania, 15-16 June, 2006, pp .135-138, Ed. Printech, ISBN (10) 973-718-503-x, ISBN (13) 978-973-718-503-7

40. "Battery management with float current acquisition system", Workshop "Tehnologii decizionale inteligente pentru gestionarea fluxului de putere in retelele electrice de transport", 24 nov. 2006, Universitatea Politehnica Bucuresti, Ed. NOUA, ISBN (10) 973-8987-12-1, ISBN (13) 978-973-8987-12-8, ISBN (10) 973-8987-13-X, ISBN (13) 978-973-8987- 13-5

41. "Influence of the thermal stress in the solid active laser medium on the technological parameters of the laser beam", 11th Nolamp Conference "Lappeenranta, 20-22 August, 2007

42. "Possibilities of increasing the pumping efficiency of solid active medium laser generators by optimising the pumping cavity profile", The first international conference on industrial applications of lasers, Indlas, 23-25 May, 2007

43. "Utilizari ale instrumentelor cu interfata Ethernet in sistemele de achizitie de date", Workshop "Tehnologii decizionale inteligente pentru gestionarea fluxului de putere in retelele electrice de transport", 24 nov. 2006, Universitatea Politehnica Bucuresti, Ed.NOUA, ISBN (10) 973-8987-12-1, ISBN (13) 978-973-8987-12-8, ISBN (10) 973-8987-13-X, ISBN (13) 978-973-8987- 13-5

44. "Micro-welding of stainless steel by pulsed Nd: YAG laser", INDLAS 2007: Industrial Laser Applications, SPIE Vol. 7007 70070O-6

45. "Elements of Signal ECG Evaluations with Wavelet Transform", 7th WSEAS Int. Conf.on Signal Processing, Computational Geometry & Artificial Vision, Athens, Greece, August 24-26, 2007

46. "measurements Nanoelectrical", Proceedings of the 4th International Conference "Metrology-Measurement Systems" METSIM 2007, Bucharest, 1-2 nov. 2007, pp.15-18, ISSN 1843-648X

47. "Power quality and experimental determinations of the electrical arc furnaces", IEEE MELECON'2008, The 14th IEEE Mediterranean Electrotechnical Conference on "New technologies for sustainable development" Ajaccio (France), May 5-7, 2008

48. "Ecological System for the Street Lighting", ECOIND 2009, 28-30 Oct.2009, Bucharest, Romania

49. "Sudarea cu laser CO2 a unor oteluri inoxidabile", Revista de Mecanica Fină, METSIM 2009

50. "New equipments for acquisition data and control of steel lightning", Proceedings of 5th International Conference Metrology & Measurement Systems METSIM 2009, nov.2009, Bucharest, Ed. Noua, ISBN 978-606-8082-22-6, pp.228-232

51. "Data acquisition system in photovoltaic sources area", Proceedings of 5th International Conference Metrology & Measurement Systems METSIM 2009 nov.2009, Bucharest, Ed. Noua, ISBN 978-606-8082-22-6, pp.146-154

52. "New equipments for acquisition data and control of street lightning", Proceedings of 5th International Conference Metrology & Measurement Systems METSIM 2009, nov.2009, Bucharest, Ed. Noua, ISBN 978-606-8082-22-6, pp.228-232

53. "Integrated design solutions-CNC manufacturing for complex products", MECAHITECH '10 Vol. 2 2010 (p.227-229)

54. "General considerations on human motion analysis", International conference on Mechanical Engineering, Robotics and Aerospace (ICMERA 2010). (p. 36-39)

55. "Life cycle analysis of bulk and porous fly ash glass ceramics", *4<sup>th</sup> International Conference of Engineering Against Failure, Skiathos, Greece, 24-26 June 2015*
56. "Novel bulk and porous glass ceramics produced by waste materials", *7<sup>th</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development*", University "Politehnica" of Bucharest, Romania, September 10<sup>th</sup> – 11<sup>th</sup>, 2015
57. 'Rapid prototyping technologies applied for prosthesis Tests' Analysis' 8<sup>th</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics .... **MECAHITECH '16 International Conference** Bucharest , Romania , September 8<sup>th</sup> -9<sup>th</sup> 2016
58. 'Sustainability of Waste Material reutilization into Novel Glass ceramics : A Life Cycle analysis' 8<sup>th</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics .... **MECAHITECH '16 International Conference** Bucharest , Romania , September 8<sup>th</sup> -9<sup>th</sup> 2016
59. 'The Influence of Machined Surface Microgeometry on Mechanical Hydraulic Removal Mechanism at Ultrasonically Aided EDM Finishing ' INNOVATIVE MANUFACTURING ENGINEERING & ENERGY INTERNATIONAL CONFERENCE ImanE2 2016 September 23-25, 2016 Kallithea Chalkidiki, Greece

## WRITING NOTES IN TEACHING COURSES

- Physics I Theory
- Physics II (Exercises)
- Microprocessors (Hardware) Theory
- Electrotechnics (Exercises)

## RESEARCH WORK FOR TITLES ACQUISITION

- Graduation, research thesis entitled "Spectroscopy high SPIN statements in 69As, 70As"
- Graduate (master), research thesis entitled "High SPIN statements Study 70As"
- «Experimental definition of nuclear structure parameters"
- «The laser in semiconductor technology"
- Doctoral thesis titled «Direct laser synthesis of metal and semiconductors nitrides with appropriate properties for applications in VLSI microelectronics»

## PROJECTS

- Air Pollution Assessment Study in the Komninos, Ptolemais, December 90
- Pollution Study of the candidate for the installation of the inhabitants of Kleitos region (despite the ZEP), 1992
- Measurement of suspended particles, radioactivity and noise pollution in Kleitos

area, April 1992

## SOME INDICATIVE FOREIGN REFERENCES

1. Title: A new technique of processing for waste-expanded polystyrene foams as aggregates, Author (s): Kan A, Demirboga R, Source: JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, Volume: 209, Issue: 6, Pages: 2994-3000, Published: MAR 19 2009
2. Title: AAS determination of trace metals in some moss samples from Trabzon, Turkey, Author (s): Sari H, Mendil D, Tuzen M, et al., Source: FRESNIUS ENVIRONMENTAL BULLETIN, Volume: 14, Issue: 6, Pages: 473-477, Published: 2005
3. Title: Fate of environmental pollutants, Author (s): Darnault C, Source: WATER ENVIRONMENT RESEARCH, Volume: 76, Issue: 6, Pages: 2297-2344, Published: 2004
4. Title: Fate of environmental pollutants, Author (s): Darnault C, Source: WATER ENVIRONMENT RESEARCH, Volume: 76, Issue: 6, Pages: 2297-2344, Published: 2004
5. Title: Distribution of Heavy Metals in Some Tree Leaves along the Main Road in an Agricultural Area, Author (s): Massadeh AM, Jaradat QM, Momani KA, et al., Source: COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, Volume : 40, Issue: 7-8, Pages: 1254-1267, Published: 2009
6. Title: Determination of trace elements in some moss samples by atomic absorption spectrometry, Author (s): Ozdemir T, Mendil D, Source: ASIAN JOURNAL OF CHEMISTRY, Volume: 20, Issue: 3, Pages: 1786-1790, Published : MAR 2008
7. Title: Uptake and distribution of some heavy metals in peanut (*Arachis hypogaea* L.) grown in artificially contaminated soils, Author (s): Ching JA, Binag CA, Alejandro GJD, Source: PHILIPPINE AGRICULTURAL SCIENTIST, Volume: 91, Issue : 2, Pages: 134-142, Published: JUN 2008
8. Title: Chemical investigation of lignite samples and their ashing products from Kardaria lignite field of Ptolemais, Northern Greece, Author (s): Adamidou K, Kassoli-Fournaraki A, Filippidis A, et al., Source: FUEL, Volume: 86 , Issue: 16, Pages: 2502-2508, Published: NOV 2007
9. Title: Direct major- and trace-element analyses of rock varnish by high resolution laser ablation inductively-coupled plasma mass spectrometry (LA-ICPMS), Author (s): Wayne DM, Diaz TA, Fairhurst RJ, et al., Source: APPLIED GEOCHEMISTRY, Volume: 21, Issue: 8, Pages: 1410-1431, Published: AUG 2006
10. Title: Trace metal levels in moss samples collected from the roadside in Tokat, Turkey, Author (s): Mendil D, Tuzen M, Sari H, et al., Source: TRACE ELEMENTS AND ELECTROLYTES, Volume: 22, Issue: 1, Pages: 6-10, Published: 2005
11. Title: Chemometry of the distribution and origin of Ra-226, Ra-228, K-40 and Cs-137 in the soil near the lignite fired plants of West Macedonia (Greece), Author (s): Tsikritzis LI, Source : JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Volume: 261, Issue: 1, Pages: 215-220, Published: 2004
12. Title: AAS determination of heavy metals in moss samples of Giresun-Turkey,



Author (s): Tuzen M, Mendil D, Sari H, et al., Source: FRESENIUS ENVIRONMENTAL BULLETIN, Volume: 12, Issue: 10, Pages : 1283-1286, Published: 2003

13. Title: Microwave-assisted digestion method for the determination of heavy metals in sediments and voltammetry analysis, Author (s): Bouaid A, Macaluso L, Pietrelli L, et al., Source: ANNALI DI CHIMICA, Volume: 93, Issue : 7-8, Pages: 707-711, Published: JUL-AUG 2003

14. Title: Distribution and correlation of the natural radionuclides in a coal mine of the West Macedonia Lignite Center (Greece), Author (s): Tsikritzis LI, Fotakis M, Tzimkas N, et al., Source: JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, Volume: 99, Issue: 2, Pages: 230-237, Published: FEB 2008

15. Title: A review on molybdenum determination in solid geological samples, Author (s): Das AK, Chakraborty R, Cervera ML, et al., Source: TALANTA, Volume: 71, Issue: 3, Pages: 987-1000, Published: FEB 28 2007

16. Title: An overall index of environmental quality in coal mining areas and energy facilities, Author (s): Vatalis KI, Kaliampakos DC, Source: ENVIRONMENTAL MANAGEMENT, Volume: 38, Issue: 6, Pages: 1031-1045, Published: DEC 2006

17. Title: The investigation of trace heavy metal concentrations in the street dust samples collected from Kayseri, Turkey, Author (s): Divrikli U, Soylak M, Elci L, et al., Source: JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, Volume : 21, Issue: 4, Pages: 713-720, Published: 2003

18. Title: Trace heavy metal levels in street dust samples from Yozgat city center, Turkey, Author (s): Divrikli U, Soylak M, Elci L, et al., Source: JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, Volume: 21, Issue: 2, Pages: 351-361, Published: 2003

19. Title: Column preconcentration / separation and atomic absorption spectrometric determinations of some heavy metals in table salt samples using amberlite XAD-1180, Author (s): Soylak M, Karatepe AU, Elci L, et al., Source: TURKISH JOURNAL OF CHEMISTRY, Volume: 27, Issue: 2, Pages: 235-242, Published: 2003

20. Title: Formation of carbon nitride nanospheres by ion implantation, Author (s): Thome T, Colaux JL, Colomer JF, et al., Source: MATERIALS CHEMISTRY AND PHYSICS, Volume: 103, Issue: 2-3, Pages: 290-294, Published: JUN 15 2007

21. Title: Formation of carbon nitride compounds during successive implantations in copper, Author (s): Thome T, Colaux JL, Louette P, et al., Source: JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, Volume: 151, Issue: 1, Pages: 19-23, Published: MAR 2006

22. Title: Studies of the plume emission during the femtosecond and nanosecond ablation of graphite in nitrogen, Author (s): Fuge GM, Ashfold MNR, Henley SJ, Source: JOURNAL OF APPLIED PHYSICS, Volume: 99, Issue: 1 Article Number : 014309, Published: JAN 1 2006

23. Title: Nitrogen effect on the electrical properties of CNx thin films deposited by reactive magnetron sputtering, Author (s): Derradji NE, Mahdjoubi ML, Belkhir H, et al., Source: THIN SOLID FILMS, Volume: 482, Issue: 1-2, Pages: 258-263, Published: JUN 22 2005

24. Title: Growth of Ni / Co-catalyzed crystalline CNx thin films by nitrogen-plasma-assisted pulsed laser deposition, Author (s): Li L, Lin H, Sun J, et al., Source: JOURNAL OF THE KOREAN PHYSICAL SOCIETY, Volume: 46, Pages: S56-S59, Supplement: Suppl. S, Published: JUN 2005

25. Title: Bonding characteristics of DC magnetron sputtered BCN thin films investigated by Fourier-transformed infrared spectroscopy and X-ray photoelectron spectroscopy, Author (s): Linss V, Rodil SE, Reinke P, et al., Source: THIN SOLID FILMS , Volume: 467, Issue: 1-2, Pages: 76-87, Published: NOV 22 2004
26. Title: Effect of process parameters on the mechanical properties of carbon nitride thin films synthesized by plasma assisted pulsed laser deposition, Author (s): Tabbal M, Merel P, Chaker M, Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, Volume: 79, Issue: 4-6, Pages: 1365-1367, Published: SEP 2004
27. Title: Laser Raman and X-ray photoelectron spectroscopy of phosphorus containing diamond-like carbon films grown by pulsed laser ablation methods, Author (s): Fuge GM, May PW, Rosser KN, et al., Source: DIAMOND AND RELATED MATERIALS, Volume: 13, Issue: 4-8, Pages: 1442-1448, Published: APR-AUG 2004
28. Title: CN<sub>x</sub> / Si thin heterostructures for miniaturized temperature sensors, Author (s): Simeonov S, Szekeres A, Gyorgy E, et al., Source: JOURNAL OF APPLIED PHYSICS, Volume: 95, Issue: 9, Pages: 5111 -5115, Published: MAY 1 2004
29. Title: The study of bonding composition of CN<sub>x</sub> film by thermal degradation method, Author (s): Zhang LH, Gong H, Li YQ, et al., Source: CARBON, Volume: 42, Issue: 3, Pages: 537 -545, Published: 2004
30. Title: Pressure control of properties of pulsed laser deposited carbon and carbon nitride films, Author (s): Szorenyi T, Fogarassy E, Source: JOURNAL OF APPLIED PHYSICS, Volume: 94, Issue: 3, Pages: 2097-2101, Published: AUG 1 2003
31. Title: On the growth mechanism of pulsed laser deposited carbon nitride films, Author (s): Szorenyi T, Fogarassy E, Source: APPLIED SURFACE SCIENCE, Volume: 208, Pages: 502-506, Published: MAR 15 2003
32. Title: Correlation between the chemical bonding and the physical properties of the CN<sub>x</sub> films obtained by pulsed laser deposition from C targets in low-pressure N<sub>2</sub>, Author (s): Gyorgy E, Mihallescu IN, Baleva A, et al. , Source: MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, Volume: 97, Issue: 3, Pages: 251-257, Published: FEB 15 2003
33. Title: Effect of nitrogen segregation on TED and loss of phosphorus in CZ-Si, Author (s): Fujiwara N, Saito K, Nakabayashi Y, et al., Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 186, Pages: 313-317, Published: JAN 2002
34. Title: Growth, structure, and mechanical properties of CN<sub>x</sub>H<sub>y</sub> films deposited by dc magnetron sputtering in N<sub>2</sub> / Ar / H<sub>2</sub> discharges, Author (s): Hellgren N, Johansson MP, Hjorvarsson B, et al., Source : JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A, Volume: 18, Issue: 5, Pages: 2349-2358, Published: SEP-OCT 2000
35. Title: Optical studies of carbon nitride thin films deposited by reactive pulsed laser ablation of a graphite target in low pressure ammonia, Author (s): Mihailescu IN, Gyorgy E, Alexandrescu R, et al., Source: THIN SOLID FILMS, Volume: 323, Issue: 1-2, Pages: 72-78, Published: JUN 22 1998
36. Title: Synthesis and deposition of silicon nitride films by laser reactive ablation of silicon in low pressure ammonia: A parametric study, Author (s): Mihailescu IN, Lita A, Teodorescu VS, et al., Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A-VACUUM SURFACES AND FILMS, Volume: 14, Issue: 4, Pages:

1986-1994, Published: JUL-AUG 1996

37. Title: Pulsed laser deposition of silicon nitride thin films by laser ablation of a Si target in low pressure ammonia, Author (s): Mihailescu IN, Lita A, Teodorescu VS, et al., Source: JOURNAL OF MATERIALS SCIENCE, Volume : 31, Issue: 11, Pages: 2839-2847, Published: JUN 1 1996

38. Title: Nitridation-retarded diffusion of phosphorus in <100> silicon, Author (s): Chen NK, Lee C, Source: JOURNAL OF THE ELECTROCHEMICAL SOCIETY, Volume: 143, Issue: 1, Pages: 352-355, Published : JAN 1996

39. Title: Direct carbide synthesis by multipulse excimer-laser treatment of ti samples in ambient CH<sub>4</sub> gas at superatmospheric pressure, Author (s): Mihailescu In, Chitica N, Teodorescu VS, et al., Source: JOURNAL OF APPLIED PHYSICS, Volume : 75, Issue: 10, Pages: 5286-5294, Part: Part 1, Published: MAY 15 1994

40. Title: Excimer-laser reactive ablation - an efficient approach for the deposition of high-quality tin films, Author (s): Mihailescu In, Chitica N, Teodorescu VS, et al., Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A -VACUUM SURFACES AND FILMS, Volume: 11, Issue: 5, Pages: 2577-2582, Published: SEP-OCT 1993

41. Title: Growth and characterization of thin sin films grown on si by electron-cyclotron-resonance nitrogen treatment plasma, Author (s): Moon J, Ito T, Hiraki A, Source: THIN SOLID FILMS, Volume: 229, Issue: 1, Pages: 93-100, Published: JUN 5 1993

42. Title: Synthesis of thin-films of semiconductor and refractory-metal nitrides by laser irradiation of solid samples in ambient gases, Author (s): Danna E, Leggieri G, Luches A, Source: THIN SOLID FILMS, Volume: 218, Issue: 1-2, Pages: 219-230, Published: OCT 15 1992

43. Title: Excimer laser cleaning and processing of si (100) substrates in ultrahigh-vacuum and reactive gases, Author (s): Watanabe JK, Gibson UJ, Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A-VACUUM SURFACES AND FILMS, Volume : 10, Issue: 4, Pages: 823-828, Part: Part 1, Published: JUL-AUG 1992Archi form

44. Title: First-principles study of bonding mechanisms in the series of Ti, V, Cr, Mo, and their carbides and nitrides, Author (s): Zaoui A, Kacimi S, Bouhafs B, et al., Source: PHYSICA B-CONDENSED MATTER, Volume: 358, Issue: 1-4, Pages: 63-71, Published: APR 15 2005

45. Title: Synthesis of highly oriented TiN<sub>x</sub> coatings by free-electron laser processing of titanium in nitrogen gas, Author (s): Carpene E, Shinn M, Schaaf P, Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, Volume: 80 , Issue: 8, Pages: 1707-1710, Published: MAY 2005

46. Title: Depth profiling characterisation of the surface layer obtained by pulsed Nd: YAG laser irradiation of titanium in nitrogen, Author (s): Gyorgy E, del Pino AP, Serra P, et al., Source: SURFACE & COATINGS TECHNOLOGY, Volume: 173, Issue: 2-3, Pages: 265-270, Published: AUG 22 2003

47. Title: First-principles calculations of vacancy effects on structural and electronic properties of TiC<sub>x</sub> and TiN<sub>x</sub>, Author (s): Dridi Z, Bouhafs B, Ruterana P, et al., Source: JOURNAL OF PHYSICS-CONDENSED MATTER, Volume: 14, Issue: 43, Pages: 10237-10249, Published: NOV 4 2002

48. Title: Surface nitridation of titanium by pulsed Nd: YAG laser irradiation, Author (s): Gyorgy E, del Pino AP, Serra P, et al., Source: APPLIED SURFACE SCIENCE,

Volume: 186, Issue: 1-4 , Pages: 130-134, Published: JAN 28 2002

49. Title: Laser nitriding of metals, Author (s): Schaaf P, Source: PROGRESS IN MATERIALS SCIENCE, Volume: 47, Issue: 1, Pages: 1-161, Published: 2002

50. Title: Materials surface processing spied by hyperfine interactions, Author (s): Schaaf P, Weisheit M, Krebs HU, Source: ACTA PHYSICA POLONICA A, Volume: 100, Issue: 5, Pages: 699-706, Published: NOV 2001

51. Title: Preferred growth of epitaxial TiN thin film on silicon substrate by pulsed laser deposition, Author (s): Xu S, Du L, Sugioka K, et al., Source: JOURNAL OF MATERIALS SCIENCE, Volume: 33, Issue: 7, Pages: 1777-1782, Published: APR 1 1998

52. Title: Alloying of austenitic stainless steel with nitrogen using high-intensity pulsed beams of nitrogen plasma, Author (s): Piekoszewski J, Walis L, Langner J, et al., Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B -BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 114, Issue: 3-4, Pages: 263-268, Published: JUL 1996

53. Title: Pulsed laser deposition of silicon nitride thin films by laser ablation of a Si target in low pressure ammonia, Author (s): Mihailescu IN, Lita A, Teodorescu VS, et al., Source: JOURNAL OF MATERIALS SCIENCE, Volume : 31, Issue: 11, Pages: 2839-2847, Published: JUN 1 1996

54. Title: Decontamination of radioactive milk - a review, Author (s): Patel AA, Prasad SR, Source: INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, Volume: 63, Issue: 3, Pages: 405-412, Published: MAR 1993

55. Title: Mechanism of i-131 transport from feta cheese upon immersion in water and neutral salt-solutions, Author (s): Vosniakos FK, Giouvanoudi AS, Moumtzis AA, et al., Source: AUSTRALIAN JOURNAL OF DAIRY TECHNOLOGY, Volume : 47, Issue: 1, Pages: 14-17, Published: MAY 1992

56. Title: Possibilities for radiocesium decontamination of kefalograviera cheese through modifications of the standard manufacture method, Author (s): Pappas CP, Assimakopoulos PA, Ioannides KG, et al., Source: JOURNAL OF DAIRY SCIENCE, Volume: 73, Issue: 11, Pages: 3042-3049, Published: NOV 1990

57. Title: Correction, Author (s): Vosniakos F, Source: AUSTRALIAN JOURNAL OF DAIRY TECHNOLOGY, Volume: 44, Issue: 2, Pages: 107-107, Published: NOV 1989

58. Title: Major, trace and natural radioactive elements in bituminous coal from Australia, Romania, Russia, South Africa and Ukraine: A comparative study, Author (s): Dului OG, Culicov OA, Radulescu I., Cristea C., Vasiiu T., Volume: 264, Issue: 3, Pages: 525-534, Published: 2005

59. Title: Parietaria judaica flowering phenology, pollen production, viability and atmospheric circulation, and expansive ability in the urban environment: impacts of environmental factors, Author (s): Fotiou Christina; Damialis Athanasios; Krigas Nikolaos;et al., Source: INTERNATIONAL JOURNAL OF BIOMETEOROLOGY, Volume: 55, Issue: 1, Pages: 35-50, Published: 2011

60. Title: The potential role of cAMP as a pollution biomarker of terrestrial environments using the land snail Eobania vermiculata: Correlation with lysosomal membrane stability, Author (s): Itziou A., Dimitriadis VK, Volume: 76, Issue: 10, Pages : 1315-1322, Published: 2009

61. Title: Quantification of transfer of <sup>238</sup>U, <sup>226</sup>Ra, <sup>232</sup>Th, <sup>40</sup>K and <sup>137</sup>Cs in mosses of a semi-natural ecosystem, Author (s): Dragović, S., Mihailović, N., Gajić,

B., Source: JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, Volume: 101, Issue: 2, Pages: 159-164, Published: 2010

62. Title: Natural radionuclides and <sup>137</sup>Cs in moss and lichen in Eastern Serbia, Nuclear Technology and Radiation Protection, Author (s): Čučulović, A., Popović, D., Čučulović, R., Ajtić, J., Volume: 27, Issue: 1, Pages: 44-51, Published: 2012

63. Title: A simple model for calculating the compressibility of the transition - metal carbides and nitrides alloys ZRXNB1-XC and ZRXNB1-XN, Author (s): Katsika - Tsigourakou V., Source: CENTRAL EUROPEAN JOURNAL OF PHYSICS, Volume: 9, Issue: 5, Pages: 1309-1314, Published: 2011

64. Title: Laser nitriding: Investigations on the model system Tin. A review, Author (s): Hoche D., Schaaf P., Source: HEAT AND MASS TRANSFER / WAERME-UND STOFFUEBERTRAGUNG, Volume: 47, Issue: 5, Pages: 519-540, Published: 2011

65. Title: Characterization of spectral emissions from laser irradiated titanium, Author (s): Akarapu RK, Dua P., Campbell A., Scott D., Nassar A., Todd J., Copley S., Source: MATERIALS RESEARCH SOCIETY SYMPOSIUM PROCEEDINGS 1040, Pages: 25-30, Published: 2008

66. Title: Laser processing and chemistry, Author (s): Bauerle D., Source: 3RD EDITION SPRINGER-VERLAG BERLIN HEIDELBERG, Published: 2000

67. Title: Laser processing and chemistry Book, Author (s): Bauerle D., Source: SPRINGER VERLAG, Published: 1996

68. Title: Laser nitriding of iron: influence of the laser parameters on the nitriding efficiency, Author (s): Illgner C., Lieb KP, Schaaf P., Koster H., Mann K., Marowsky G., Source: APPL PHYS A-MATER, Volume: 62, Issue: 3, Pages: 231-236, Published: MAR 1996

69. Title: Laser nitriding of iron - nitrogen profiles and phases, Author (s): Illgner C., Schaaf P., Lieb KP., Schubert E., Queitsch R., Bergmann HW, Source: APPL PHYS A-MATER, Volume: 61, Issue: 1, Pages: 1-5, Published: JUL 1995

70. Title: Ions and electrons generated by an UV excimer - laser, Author (s): Nassisi V., Source: NUCL INSTRUM METH B, Volume: 89, Issue: 1-4, Pages: 443-446, Published: MAY 1994

71. Title: Non-rutherford backscattering analysis of nitrogen-content in titanium substrates, Author (s): Foster LA., Tesmer JR., Jervis TR., Nastasi M., Source: NUCL INSTRUM METH B, Volume: 79, Issue: 1-4, Pages: 454-456, Published: JUN 1993

72. Title: Laser-induced physical vapour-deposition of diamond-like carbon films, Author (s): Muller F., Mann K., Source: DIAM RELAT MATER, Volume: 2, Issue: 2-4, Pages: 233-238, Published: MAR 31 1993

73. Title: Silicon-nitride and oxynitride films, Author (s): Habraken FHPM., Kuiper AET., Source: MAT SCI ENG R, Volume: 12, Issue: 3, Pages: 123-175, Published: JUL 1994

74. Title: Discharge impedance of an ultraviolet preionized XECL laser, Author (s): Leo M., Leo RA., Nassisi V., Marsigliante L., Pecoraro A., Source: J APPL PHYS, Volume: 70, Issue: 3, Pages: 1168-1171, Published: AUG 1 1991

75. Title: Study of carbon nitride compounds synthesised by co-implantation of <sup>13</sup>C and <sup>14</sup>N in copper at different temperatures, Author (s): Colaux JL, Louette P., Colomer J.-F., Edmondson PD, Donnelly SE, Terwagne G., Source: MATERIALS CHEMISTRY AND PHYSICS, Volume: 126, Issue: 1-2, Pages: 337-343, Published: 2011

76. Title: Effects of the plasma expansion dynamics and of the laser fluence on CNX thin films deposited by laser ablation, Author (s): Barreca F., Barletta E., Spadaro D., Spadaro S., Curro G., Trusso S., Neri F., Source: RADIATION EFFECTS AND DEFECTS IN SOLIDS, Volume: 165, Issue: 6-10, Pages: 809-814, Published: 2010
77. Title: XPS and NRA depth profiling of nitrogen and carbon simultaneously implanted into copper to synthesize C<sub>3</sub>N<sub>4</sub> like compounds, Author (s): Colaux JL, Louette P., Terwagne G., Source: NUCLEAR INSTRUMENTS AND METHODS IN PHYSICS RESEARCH, SECTION B: BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 267, Issue: 8-9, Pages: 1299-1302, Published: 2009
78. Title: Structural characterisation of CNX thin films deposited by pulsed laser ablation, Author (s): Fuge GM., Rennick CJ., Pearce SRJ., May Paul W., Ashfold Michael NR, Source: DIAM RELAT MATER, Volume: 12, Issue: 3-7, Pages: 1049-1054, Published: MAR-JUL 2003
79. Title: XPS study of pulsed-laser deposited CNX films, Author (s): Lenormand F., Hommet J., Szorenyi T., Fuchs C., Fogarassy E., Source: PHYSICAL REVIEW B, Volume: 64, Issue : 23, Pages: 235-416, Published: 2001
80. Title: Influence of the deposition configuration on the composition, structure and morphology of LA<sub>0.6</sub>Y<sub>0.07</sub>CA<sub>0.33</sub>MN<sub>3</sub>-delta thin films obtained by pulsed laser deposition, Author (s): Ghica C., Valeanu M., Nistor LC. , Szymczak R., Lewandowski SJ., Szymczak H., Baran M., Gierlowski P., Source: INTERNATIONAL JOURNAL OF INORGANIC MATERIALS, Volume: 3, Issue: 8, Pages: 1253-1256, Published: DEC 2001
81. Title: Distribution of radionuclides, major and trace elements in lignite, steriles and their ashing products -The case of Kardias coal mine in Northern Greece, Author (s): L. Tsikritzis, G. Pekridis, K. Adamidou, E. Amanatidou, R. Tsikritzi, Source: FRESN ENVIRON BULL, Volume: 20, Issue: 8, Pages: 1918-1925, Published: 2011
82. Title: Radiological investigation of ash produced by coal combustion-The case of the West Macedonia Lignite Center (Greece), Author (s): LI Tsikritzis, M. Fotakis, N. Tzimkas, R. Tsikritzi, E. Trikoilidou, N. Kolovos, Source: ENERGY SOURCES, Part: A, Volume: 31, Pages: 1256-1263, Published: 2009
83. Title: Distribution and correlation of the natural radionuclides in a coal mine of the West Macedonia Lignite Center (Greece), Author (s): Tsikritzis LI, Fotakis M., Tzimkas N, Kolovos N. and Tsikritzi R., Source: JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, Volume: 99, Issue: 2, Pages: 230-237, Published: 2008