

Dionysios E.
Mouzakis, Dr-Ing.

DETAILED CURRICULUM VITAE



Current Professional Position:

**Associate Professor
Director of Mechanics of Materials Laboratory**

**Hellenic Army Academy, Department of Military Sciences
Sector of Mathematics and Engineering Applications
Varis - Koropiou Avenue P.O. 16673 –Vari, Greece**

cell: +30 6972426200
email: demouzakis@sse.gr

Personal Data

Birth Date: September 13th 1971

Place of Birth: Patras, Greece

Marrital Status: Married

Children: 2

Military Service: 23 Months Compulsory (March 2000- Feb 2002),
Hellenic Army Technical Corps, **2nd Lieutenant**, Class Leader (2000B-265)

mobile: +30 6972 426 200

e-Profiles:

<http://scholar.google.gr/citations?user=ejfsdrsAAAAJ&hl=el>



https://www.researchgate.net/profile/Dionysios_Mouzakis?ev=hdr_xprf



<https://gr.linkedin.com/in/mouzakis-dionysios-ε-6944b258>



ORCID:
0000-0001-5842-5202



Higher Education Studies:

1. Undergraduate: Department of Mechanical and Aeronautics Engineering, University of Patras-Greece (1989-1995)

2. Post-Graduate: Institute for Composite Materials, IVW GmbH/ Department of Chemical and Mechanical Engineering, Technical University of Kaiserslautern, DE
PhD Studies and work as research associate. (Jan 1997-Nov 1999)
Title of PhD Thesis: "Application of the Essential Work of Fracture Method for Ductile Polymer Systems"

Academic Teaching Experience:

A. Undergraduate courses:

1. Oct 2003-Aug 2005

Lecturer (non-tenure), Department of Materials Science, University of Patras

Subjects: a. Continuum Mechanics, b. Polymers and Composites, c. Materials Science and Engineering, d. Industrial applications of Materials (industrial seminars), e. Physics Laboratories

2. Sep 2005-Aug 2008

Assistant Professor (non-tenure), Dept. of Materials Science, University of Patras

Subjects: a. Materials Science and Engineering (labs), b. Industrial applications of Materials (industrial seminars)

3. Sep 2008-Aug 2009

Visiting Lecturer, Hellenic Naval Academy

Subjects: a. Naval Materials Science & Technology, b. Strength of Materials

4. Sep 2008- Mar 2016

Visiting Lecturer, Hellenic Military Academy

Subjects: a. Mechanics of Materials b. Strength of Materials (labs)

5. Sep 2009-Mar 2016

Assistant (till 2015) and Associate Professor in the Higher Technological Educational Institute of Larisa, Thessaly, Greece, Department of Mechanical Engineering.

Subjects: a. Mechanics of Materials (deformable and non-deformable solid body mechanics), b. Introduction to Finite Elements, c. Steel Structures, d. Laboratories of Strength of Materials.

6. Mar 2016-today

Associate Professor, of the Hellenic Army Academy, Tenure position.

Subjects: a. Mechanics of Materials (deformable and non-deformable solid body mechanics), b. Specialty courses on advanced applied Mechanics and Ballistics, and advanced materials.

Also, supervision of graduation Theses of 4th year Cadets.

B. Post-graduate (Masters) courses:

1. 2007-2009

MSc Course in "Polymers Science and Technology", University of Patras

Subject: a. Composite Materials (by invitation teaching)

2. 2008-2010

MSc Course in "Metabolism Diseases of Bones"

National and Kapodistrian University of Athens- Medical School

*Subjects: a. Mechanics of Muscoskeletal System, b. Mechanics of Human Motion
(by invitation teaching)*

3. 2016- today a. MSc Interdepartmental Masters in "Systems Engineering)" –

*Hellenic Army Academy and Univ. of Crete- Dept of Industrial
Engineering (by appointment teaching)*

*Courses: Weapons Systems (3rd Semester-Winter) and Systems Design-
Reliability (2nd Semester- Summer)*

4. 2018-today a. MSc Interdepartmental Masters in "Nanomedicine" (Medical and Pharmaceutical Schools of the University of Athens)

*Courses: Introduction to Nanotechnology and Nanomechanics
Biomaterials-Biosensors-Smart Materials-Legislation-Ethics
Unit2-3 Winter and Summer Semester teaching*

(by appointment teaching)

C. Professional Experience:

1. Jan 1996-Dec 1996. Structural Engineer in Constructions Company in Zakynthos-Greece.

Role: Mechanical Engineer, Field Engineer

2. Nov 2004- Oct 2006. Research Engineer in Polymer Optics Fabrication in Patras-Greece

Role: Research Project Supervision

3. Since 2017 External Reviewer and Auditor for EKAPTY (The National Quality Assessment Center of Technology in Health)

D. Research Experience:

1. Jan 1997-Nov 1999: Research Associate, Institut fuer Verbundwekstoffe GmbH, Univ. of Kaiserslautern, Germany

2. Jul 2001- Dec 2008. Post Doctoral Research Assistant at Foundation for Research and Technology Hellas, Institut for Chemical Engineering and High Temperature Processes, Materials Sector, (FORTH/ICE-HT)

3. **Jan 2009-Mar 2016:** Research Associate at the Laboratory of Advanced Materials and Constructions (LAMCO), Technological Educational Institute of Larisa, Dept. of Mechanical Engineering : <http://www.mech.teilar.gr/lamco/>
4. **Jan 2016-today:** Collaborating Researcher of the National Hellenic Research Foundation, Scanning Electron Microscopy Laboratory.

E. Research Interests:

1. Smart health monitoring of structures by using: Magnetoelastic contactless sensors in conjunction with wireless networks for data collection.
2. Aging Health Assessment of various structures including composite ones.
3. Smart Polymers and Materials for Structural Applications
4. Biomaterials & Biomechanics
5. Polymer Composites Materials & Polymer Nanocomposites
6. Experimental & Stochastic Fracture Mechanics

F. Foreign Languages

Language	ORAL CAPABILITIES	WRITING CAPABILITIES	CERTIFICATION
<i>ENGLISH</i>	<i>excellent</i>	excellent	(PROFICIENCY TOEIC LEVEL 975/990)
<i>GERMAN</i>	<i>excellent</i>	excellent	GOETHE INSTITUT ZERTIFIKAT, German University Exams
<i>ITALIAN</i>	Good	<i>Good</i>	(TAS –Universität Kaiserslautern) (Technical Academy of University)
<i>FRENCH</i>	Mediocre	Mediocre	(TAS –Universität Kaiserslautern) (Technical Academy of University)
<i>GREEK</i>	Native	native	-

G. Reviewer Activities:

- **EXTERNAL REVIEWER EXPERIENCE**

1. DEUTSCHE FORSCHUNGSGEMEINSCHAFT, DFG, 2004
2. CZECH SCIENCE FOUNDATION PROJECTS: 2008-TODAY
3. **FP7 EXPERT** PEOPLE 2010-2011, RESEARCH EXECUTIVE AGENCY BRUSSELS OCTOBER 2011

- **SCIENTIFIC JOURNALS**

1. **ADVANCED COMPOSITE LETTERS** SINCE 2003
2. **POLYMER JOURNAL: ELSEVIER** SINCE APRIL 2005
3. **COMPOSITES PART B JOURNAL** SINCE APRIL 2006
4. **JOURNAL OF NANOSTRUCTURED POLYMERS AND NANOCOMPOSITES** SINCE SEPT 2007
5. **POLYMER ENGINEERING AND SCIENCE** SINCE 2007

- **EDITORIAL BOARD MEMBER IN:**

1. Journal of Nanoengineering and Nanomanufacturing, May 2011
2. EC ORTHOPEDICS Journal, since 2017

H. Research Project Participation

[1] **GERMAN NATIONAL FUND**: «DEFORMATION AND FRACTURE BEHAVIOUR OF CORE-SHELL TYPE RUBBER TOUGHENED POLY(BUTYLENE TEREPHTHALATE)» BETWEEN THE IVW GMBH AND POHANG UNIVERSITY OF SCIENCE AND TECHNOLOGY. FUNDED BY THE DFG (DEUTSCHE FORSCHUNGS GEMEINSCHAFT) PROJECT NO: KA 1202/3-1

ROLE: SCIENTIFIC CO-WORKER

[2] **GERMAN NATIONAL FUND** «ZÄHIGKEITSERHÖHUNG BEI POLYMEREN DURCH PHASENUMWANDLUNGSPROZESSE» BETWEEN THE IVW GMBH AND THE INSTITUT FÜR WERKSTOFFWISSENSCHAFT, MARTIN-LUTHER-UNIVERSITÄT, HALLE WITTENBERG. FUNDED BY THE DFG (DEUTSCHE FORSCHUNGS GEMEINSCHAFT). PROJECT NO: KA 1202/4-1

ROLE: SCIENTIFIC CO-WORKER

[3] **GERMAN NATIONAL FUND** «TOUGHENING RECYCLED POLYETHYLENE TEREPHTHALATE (PET) BY FUNCTIONALIZED ELASTOMERS» BETWEEN THE IVW GMBH AND THE HKUST (HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY). FUNDED BY THE DAAD. PROJECT NO: 332 4 00 138

ROLE: SCIENTIFIC CO-WORKER

H1. European Commission funded projects:

[4] «DEVELOPMENT OF A MW SCALE WIND TURBINE FOR HIGH WIND COMPLEX TERRAIN SITES (MEGAWIND)», CONTRACT NO ENKT-5-CT-2000-00328
ROLE: SCIENTIFIC CO-WORKER

[5] «WIND TURBINE ROTOR BLADES FOR ENHANCED AEROELASTIC STABILITY AND FATIGUE LIFE USING PASSIVELY DAMPED COMPOSITES (DAMPBLADE)», 2000/C73/10, ENERGIE
ROLE: SCIENTIFIC CO-WORKER

H2. GREEK STATE-FUNDED PROJECTS:

[6] **ΣΥΝ-ΣΥΓΓΡΑΦΕΑΣ ΚΑΙ ΣΥΝΤΟΝΙΣΗΣ ΣΕ ΤΜΗΜΑΤΑ ΤΟΥ ΕΡΓΟΥ:**
ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ ΔΥΤΙΚΗΣ ΕΛΛΑΔΑΣ 2000-2006, ΚΟΙΝΟΠΡΑΞΙΕΣ ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ», ΑΝΑΚΥΚΛΩΜΕΝΑ ΠΛΑΣΤΙΚΑ ΚΑΙ ΣΥΝΘΕΤΑ ΥΛΙΚΑ ΑΚΡΩΝΥΜΙΟ ΕΡΓΟΥ: ΑΝΑ.ΠΛΑ.Σ.Υ., Κ.ΓΑΛΙΩΤΗΣ. Δ. ΚΑΤΕΡΕΛΟΣ, ΔΕ ΜΟΥΖΑΚΗΣ ΤΟΥ ΜΕΤΡΟΥ 3.4 ΤΟΥ Ε.Π. ΔΥΤΙΚΗΣ ΕΛΛΑΔΑΣ
‘ΔΙΑΣΥΝΔΕΣΗ ΕΡΕΥΝΑΣ ΚΑΙ ΠΑΡΑΓΩΓΗΣ- ΠΡΟΩΘΗΣΗ ΤΗΣ ΚΑΙΝΟΤΟΜΙΑΣ’
BUDEGT: 700,000 €
ROLE: SCIENTIFIC CO-WORKER AND WORKPACKAGE COORDINATION

[7] **ΣΥΝ-ΣΥΓΓΡΑΦΕΑΣ ΚΑΙ ΣΥΝΕΡΓΑΖΟΜΕΝΟΣ ΕΡΕΥΝΗΤΗΣ ΣΤΟ ΠΡΟΓΡΑΜΜΑ:**
Κ. ΚΑΡΑΘΕΟΔΩΡΗ 2007. Υπεύθυνος Έργου: Ν. Μπουρόπουλος, «ΜΕΛΕΤΗ ΤΗΣ ΜΥΞΟΜΑΤΟΕΙΔΟΥΣ ΕΚΦΥΛΙΣΗΣ ΑΝΘΡΩΠΙΝΩΝ ΜΗΝΙΣΚΩΝ: ΣΥΣΧΕΤΙΣΗ ΤΩΝ ΔΥΝΑΜΙΚΩΝ ΜΗΧΑΝΙΚΩΝ ΙΔΙΟΤΗΤΩΝ ΜΕ ΑΛΛΟΙΩΣΕΙΣ ΤΗΣ ΔΟΜΗΣ»
ROLE: CO-AUTHOR AND SCIENTIFIC CO-WORKER

[8] **2011-2015 ΣΥΝ-ΣΥΓΓΡΑΦΕΑΣ ΚΑΙ ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΥΠΕΥΘΥΝΟΣ-ΕΡΕΥΝΗΤΗΣ ΤΗΣ ΚΥΡΙΑΣ ΕΡΕΥΝΗΤΙΚΗΣ ΟΜΑΔΑΣ ΣΤΟ ΠΡΟΓΡΑΜΜΑ:**
“NANOstructured GEOPolymerS and CALcium PHOSphate based biocements and impLants Design”- NANO.GEO.S.CA.PHO.L.D. «Θαλής» 2011, **BUDEGT: 540,000 €**
ROLE: SCIENTIST IN CHARGE OF PROGRAMME

I.Distinctions

- a. Elected Member of the board of the Hellenic Society for Thermal Analysis since 2011
- b. Elected Secretary General of the Hellenic Society for Biomaterials (board member 2008-2017)
- c. Chairman of the Hellenic Society for Biomaterials, Apr. 2017-today (2nd term)
- d. Vice – Chair of the European Conference for Biomaterials in Athens –Greece September 2017

J. Journal Peer Reviewed Publications:

1997

- [1] **RESIDUAL TENSILE STRENGTH MODELLING OF POLYMER POLYMER MICROLAYER COMPOSITES AFTER LOW ENERGY IMPACT.**

G.C. Papanicolaou , C.D. Stavropoulos , D.E. Mouzakis and J. Karger-Kocsis
Plastics, Rubber and Composites Processing and Applications, Sept. 1997, 26 No. 9, 1

IF: 0.439

- [2] **PERFORATION IMPACT RESPONSE OF A HDPE AND HDPE WITH DISCONTINUOUS SELAR MICROLAYERS.**

J. Karger-Kocsis , E. Moos and D.E. Mouzakis
Plastics, Rubber and Composites Processing and Applications 1997, Vol. 26. No.4 , 1

IF: 0.439

1998

- [3] **EFFECTS OF GASOLINE ABSORPTION ON THE TENSILE IMPACT RESPONSE OF HDPE/SELAR® LAMINAR MICROLAYER COMPOSITES.**

D.E. Mouzakis and J. Karger-Kocsis,
Journal of Applied Polymer Science, Vol. 68, 561-569 (1998)

IF:1.072

- [4] **FRACTURE BEHAVIOUR OF POLYPROPYLENE/GLASS BEAD/ ELASTOMER COMPOSITES BY USING THE ESSENTIAL WORK OF FRACTURE METHOD**

D.E. Mouzakis F. Striker, R.Mühlhaupt, and J. Karger-Kocsis
Journal of Materials Science, 33 (1998) 2551-2562

IF:0.901

- [5] **TOUGHNESS ASSESSMENT OF ELASTOMERIC POLYPROPYLENE (ELPP) BY THE ESSENTIAL WORK OF FRACTURE METHOD**

D.E. Mouzakis, M. Gahleitner and J. Karger-Kocsis
Journal of Applied Polymer Science, Vol. 70, (1998) 873-881

IF:1.072

- [6] **EFFECTS OF INJECTION MOLDING-INDUCED MORPHOLOGY ON THE WORK OF FRACTURE PARAMETERS IN RUBBER-TOUGHENED POLYPROPYLENES**

J. Karger-Kocsis and D.E. Mouzakis
Polymer Engineering and Science, 39 (1999) 1365/1374

IF:1.076

1999

- [7] **FRACTURE BEHAVIOR OF KAOLIN-REINFORCED HIGH DENSITY POLYETHYLENE**

R. Wetherhold and D.E. Mouzakis
Journal of Engineering Materials Technology, Transactions of the ASME 121, (1999) 483/487

Also Published at:

American Society of Mechanical Engineers, Materials Division (Publication) MD 84, pp. 349-355

IF:0.816

- [8] **INSTRUMENTED TENSILE AND FALLING WEIGHT IMPACT RESPONSE OF INJECTION MOLDED □- AND □-PHASE POLYPROPYLENE HOMOPOLYMERS WITH VARIOUS MELT FLOW INDICES**

J. Karger-Kocsis, D.E. Mouzakis, G.W. Ehrenstein and J. Varga
Journal of Applied Polymer Science, Vol. 73, (1999) 1205-1214

- IF:1.072**
[9] **RELATIONSHIP BETWEEN MORPHOLOGY AND MECHANICAL PROPERTIES OF POLYPROPYLENE/ETHENE-CO-BUTENE BINARY BLENDS**
D.E. Mouzakis, D. Mäder, R. Mühlaupt and J. Karger-Kocsis
Journal of Material Science 35, (2000) 1-12

- IF:0.901**
[10] **ESSENTIAL WORK OF FRACTURE: APPLICATION FOR POLYMERS SHOWING DUCTILE TO BRITTLE TRANSITIONS DURING FRACTURE**
D.E. Mouzakis, and J. Karger-Kocsis;
Polymer Bulletin 42, 473-480 (1999)

- IF:0.904**
[11] **ESSENTIAL WORK OF FRACTURE: SIMULATING THE TOUGHNESS RESPONSE OF THE DEEPLY DOUBLE-EDGE NOTCHED SPECIMENS**
D.E. Mouzakis and J. Karger-Kocsis
Polymer Bulletin, 43 (1999) 449-456

- IF:0.904**
[12] **EFFECTS OF TESTING SPEED AND HEAT TREATMENT ON THE FRACTURE OF KAOLIN- REINFORCED HIGH DENSITY POLYETHYLENE**
R. Wetherhold, D. Mouzakis and K. Friedrich
Journal of Materials Science Letters 19 (2000), 179-182

- IF:0.711**
2000
[13] **FRACTURE BEHAVIOUR OF DISCONTINUOUS LONG GLASS FIBER REINFORCED INJECTION MOLDED POLYPROPYLENE**
D.E. Mouzakis T. Harmia and J. Karger-Kocsis
Polymer & Polymer Composites, Vol. 8, No. 3, (2000), 167-175

- IF:0.47**
[14] **INTERRELATION BETWEEN ENERGY PARTITIONED WORK OF FRACTURE PARAMETERS AND THE CRACK TIP OPENING DISPLACEMENT ON THE EXAMPLE OF AMORPHOUS POLYESTER FILMS**
D.E. Mouzakis J. Karger-Kocsis and E.J. Moskala
Journal of Materials Science Letters 19 (2000) 1615-1619

- IF:0.711**
2001
[15] **FRACTURE TOUGHNESS ASSESSMENT OF POLY(ETHYLENE TEREPHTHALATE) BLENDS WITH A GLYCIDYL METHACRYLATE MODIFIED POLYOLEFIN ELASTOMER BY USING THE ESSENTIAL WORK OF FRACTURE METHOD**
D.E. Mouzakis, N. Papke, J.S. Wu, and J. Karger-Kocsis
Journal of Applied Polymer Science, Vol. 79, 842-852, (2001)

IF:1.072

2005-REVIEWED ABSTRACT

DYNAMIC MECHANICAL ANALYSIS OF DIFFERENT TYPES OF ENCRUSTED POLYMERIC URINARY STENTS BY MATERIAL DEGRADATION ASSESSMENT
E. Liatsikos, D. Mouzakis, N. Bouropoulos, G. Bithelis and G. Barbalias
European Urology Supplements, Volume 4, Issue 3, March 2005, Page 28

IF:3.174

- 2006**
[16] **ULTRAVIOLET RADIATION INDUCED COLD CHEMI CRYSTALLIZATION IN SYNDIOTACTIC POLYPROPYLENE CLAY-NANOCOMPOSITES**
Dionysios E. Mouzakis, G. Kandilioti and Vasilis G. Gregoriou

Journal of Macromolecular Science Part A: Pure and Applied Chemistry, A43 (2): 259-267
2006

IF:0.749

- [17] **VICKERS HARDNESS STUDIES OF CALCIUM OXALATE MONOHYDRATE AND BRUSHITE URINARY STONES**

N. Bouropoulos, D.E. Mouzakis and G. Bithelis,
Journal of Endourology, 20 (1): 59-63 JAN 2006

IF:1.5

- [18] **AGING ASSESSMENT BY DYNAMIC MECHANICAL ANALYSIS OF IN VIVO ENCRUSTED POLYMERIC URINARY STENTS**

D.E. Mouzakis, N. Bouropoulos, G. Bithelis, E. Liatsikos and G. Barbalias.
Journal of Endourology, 20 (1): 64-68 JAN 2006

IF:1.5

- [19] **A 2826 MB METGLAS RIBBON AS A STRAIN SENSOR FOR REMOTE AND DYNAMIC MECHANICAL MEASUREMENTS**

D. Kouzoudis and D.E. Mouzakis
Sensors and Actuators Part A: Physical., 127 (2), pp. 355-359, 2006

IF:1.363

- [20] **STATIC AND DYNAMIC BEHAVIOR OF SINGLE-EDGE NOTCHED GLASS FABRIC COMPOSITES**

G.C.Papanicolaou, D.E. Mouzakis, G.Economopoulos, Th.V.Kosmidou,
Polymer Composites 2006, Volume 27, Issue 2 , Pages 177 – 183

IF:0.628

- [21] **EFFECT OF CARBOXY-FUNCTIONALIZED MULTIWALL NANOTUBES (MWNT-COOH) ON THE CRYSTALLIZATION AND CHAIN CONFORMATIONS OF POLY(ETHYLENE TEREPHTHALATE) PET IN PET-MWNT NANOCOMPOSITES**

Spiros Tzavalas, Vasilis Drakonakis, Dionysis E. Mouzakis, Dieter Fischer, Vasilis G. Gregoriou
MACROMOLECULES, Vol 39, Issue 26, 2006, 9150-9156

IF:4.024

- [22] **INVITED PAPER 2006**
EFFECTS OF ORIENTATION AND TEST SPEED ON THE ESSENTIAL WORK OF FRACTURE TOUGHNESS OF POLY(ETHER-KETONE-KETONE) FILMS

D.E. Mouzakis, C. Constantinidou
In: MECANICA RUPERII Buletinul Asociației Române de Mecanica Ruperii ARMR (ROMANIAN ASSOCIATION FOR FRACTURE JOURNAL)
Nr 20 - December 2006, pp 1-13, ISSN 1453-8148

IF:N.A

2007

- [23] **VISCOELASTIC BEHAVIOR OF POLYMER CONCRETE**

G.C. PAPANICOLAOU, D.E. Mouzakis, A.G. XEPAPADAKI
AES Technical Reviews International Journal, Part B: IJAMAIM, 1 (1), 2007, 55 – 67.

IF:N.A

- [24] **GAMMA NAIL BREAKAGE: A REPORT OF 4 CASES**

I. Panagiotopoulos, G. Kassimatis, D. Giannikas and D.E. Mouzakis
Journal of Orthopaedic Surgery 2007;15(3):368-72

IF:N.A

- [25] **EARLY FAILURE OF A ZIRCONIA FEMORAL HEAD PROSTHESIS: FRACTURE OR FATIGUE?**

Elias C. Panagiotopoulos, Alkiviadis G. Kallivokas, Ioannis Koulioumpas, D.E. Mouzakis
Clinical Biomechanics, Volume 22, Issue 7, 2007, 856-860

IF:1.505

[26] **MANUFACTURING AND TESTING of POLYMER CONCRETE REINFORCED WITH UD-CFRP**

G.C. Papanicolaou, D.E. Mouzakis, A.G. Xepapadaki, D. Fakos, E. Koundouraki
Revista De Chimie, Vol 58, Chem. Abs. RCBUAU 58(9), 2007

IF:0.278

2007 REVIEWED ABSTRACTS

VISCOELASTIC PROPERTY MAPPING ALONG ENCRUSTED POLYMERIC URINARY CATHETERS

Liatsikos, E. Bouropoulos, N. Kallidonis, P. Karnabatidis, D. Katsanos, K. Christeas, N. Siambliis, D. Mouzakis, D.

JOURNAL OF ENDOUROLOGY, 2007, VOL 21; SUPP/1, pages MP35-23

IF:1.5

2008

[27] **POLYETHYLENE TEREPHTHALATE (PET) - MULTIWALL NANOTUBES (MWNT) NANOCOMPOSITES; EFFECT OF NANOTUBES ON THE CONFORMATIONS, CRYSTALLINITY AND CRYSTALLIZATION BEHAVIOUR OF PET.**

S. Tzavalas, D.E. Mouzakis, V. Drakonakis, V.G. Gregoriou,
Journal of Polymer Science: B, Volume 46, Issue 7, April 2008, 668-676

IF:1.739

[28] **INTERPHASE MODELING OF COPPER-EPOXY PARTICULATE COMPOSITES SUBJECTED TO STATIC AND DYNAMIC LOADING**

G.C. Papanicolaou, A.G. Xepapadaki, A. Kotrotsos, D.E. Mouzakis
Journal of Applied Polymer Science, Vol. 109, 1150–1160 (2008)

IF:1.072

[29] **ACCELERATED ENVIRONMENTAL AGEING STUDY OF POLYESTER/GLASS FIBRE REINFORCED COMPOSITES (GFRPCs)**

Dionysis E. Mouzakis, Helen Zoga, and Costas Galiotis
Composites Part B; Volume 39, Issue 3, April 2008, Pages 467-475

IF:1.121

[30] **VISCOELASTIC PROPERTY MAPPING ALONG ENCRUSTED POLYMERIC URINARY CATHETERS**

D.E. Mouzakis, N. Bouropoulos, D. P. Kallidonis, Karnabatidis, K. Katsanos, C. Constantinidis, P. Perimenis, D. Siambliis, E. Liatsikos
Journal of Endourology, Volume 22, Number 8, August 2008, Pp. 1761–1769

IF:1.5

[31] **STATISTICAL DAMAGE DIAGNOSIS IN SMART SYSTEMS USING NON-CONTACT MAGNETOELASTIC METGLAS SENSORS AND STOCHASTIC MODELING OF SYSTEM OUTPUT DATA”**

D.G. Dimogianopoulos, D.E. Mouzakis, D. Kouzoudis
Presented at the 4th International Conference on NDT organized by Hellenic Society for NDT on October 2007 in Crete-Greece and selected for publication in the Special issue of *Int. J. Materials and Product Technology, Vol. 41, Nos. 1/2/3/4, 2011*

IF:0.291

[32] **POLYMER NANOCOMPOSITES TOUGHNESS STUDY AND RESIDUAL PROPERTY MODELLING**

D.E. Mouzakis, G.C. Papanicolaou, Chr. Argyrakis, G. Kandilioti, D. Kontarinis and V.G. Gregoriou
Journal of Nanostructured Polymers and Nanocomposites, Vol 4, Issue3, 2008, pp100-109

- IF:N.A*
[33] **Μηχανικές Ιδιότητες των Ταινιών Ελευθέρως Τάσεως: Πειραματική Μελέτη**
N. Φεράκης, Δ. Μουζάκης, N. Μπουρόπουλος, N. Χαραλαμπογιάννης, K. Μπουρόπουλος, A. Φαρμάκης, H. Πούλιας
ΕΛΛΗΝΙΚΗ ΟΥΡΟΛΟΓΙΑ 2008, 20: 297-302

IF:N.A

2008-REVIEWED ABSTRACT

European Urology Supplements , Volume 7 , Issue 3 , Page 316 , 2008
VISCOELASTIC RELAXATION ASSESSMENT OF A POLYPROPYLENE SLING USED IN THE TREATMENT OF FEMALE STRESS URINARY INCONTINENCE
Poulias I., Ferakis N., Bouropoulos C., Nikolaou N., Mouzakis D., Bouropoulos N., Farmakis A.
EUROPEAN UROLOGY SUPPLEMENTS 2008;7(3):316

IF:3.174

2009

- INVITED PAPER 2009*
[34] **CONTACT-FREE MAGNETOELASTIC THIN-FILM SMART SENSORS WITH STOCHASTIC NOISE FILTERING FOR ORTHOPEDIC APPLICATIONS**
D. E. MOUZAKIS, D. DIMOGIANOPOULOS, D. GIANNIKAS
MEMS special section in the IEEE Transactions on Industrial Electronics, *volume 56, issue 4, 2009, pages 1092-1100*

IF:2.126

2010

- [35] **PREPARATION AND CHARACTERIZATION OF BIOCERAMICS PRODUCED FROM CALCIUM PHOSPHATE CEMENTS**
O. Andriotis, O.L. Katsamenis, D.E. Mouzakis, and N. Bouropoulos
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- [55] **TIME TEMPERATURE SUPERPOSITION RESPONSE OF CARBON FIBER REINFORCED COMPOSITES PLAQUES UNDER ACCELERATED AGING CONDITIONS**
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- [56] **AN IMPLICIT REPRESENTATION OF THE FIBER/MATRIX INTERFACE VIA THE LEVEL SET METHOD IN CONNECTION WITH A SHEAR-LAG CONCEPT TO PROPOSE A DAMAGE MECHANISM IN COMPOSITES**
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- [57] **APPLICATIONS OF STOCHASTIC MODELING CONCEPTS IN AGEING DETECTION OF STRUCTURAL COMPOSITES**
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- [58] **APPLICATION OF TIME TEMPERATURE SUPERPOSITION IN CARBON FIBER REINFORCED COMPOSITE PLAQUES UNDER ACCELERATED AGING CONDITIONS"**
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- [59] **OUT-OF-PLANE COMPRESSION AFTER IMPACT RESPONSE OF CARBON FIBER EPOXY LAMINATED SKIN AND POLYURETHANE CORE SANDWICH COMPOSITES**
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- [60] **EXPERIMENTAL CHARACTERIZATION OF CREEP-FATIGUE INTERACTION LOADING MODES ON CARBON FIBER REINFORCED POLYMERS**
Stefanos. P. Zaoutsos, Dionysios E. Mouzakis, Panagiotis Vouthounis
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- [61] **MECHANICAL CHARACTERIZATION OF NANO COMPOSITE CALCIUM PHOSPHATE BONE CEMENTS**
S.P. Zaoutsos, D.E. Mouzakis, N.Bouropoulos
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- [62] **EXPERIMENTAL DETERMINATION OF THE IMPACT RESPONSE OF NOVEL CLAY BASED CERAMICS**
D. Kalogiannis, X. Spiliotis, D.E. Mouzakis, S.P. Zaoutsos
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- [63] **LABORATORY INVESTIGATION OF FAILURE PROCESSES IN HETEROGENEOUS MEDIA**
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- [64] **FRACTURE TOUGHNESS RESPONSE OF NOVEL CLAY BASED CERAMICS**
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- [67] **MECHANICAL RESPONSE OF CALCIUM PHOSPHATE BIOCEMENTS**
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- [68] **ACOUSTIC EMISSION DETECTION AND STOCHASTIC ANALYSIS OF ACCELERATED AGING RELATED DAMAGE IN CARBON FIBER REINFORCED COMPOSITES**
D. Mouzakis and D. G. Dimogianopoulos
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- [69] **STOCHASTIC AND ACOUSTIC EMISSION DETECTION OF ACCELERATED AGING RELATED DAMAGE IN CARBON FIBER REINFORCED COMPOSITES**
Dionysios E. Mouzakis
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- [70] **PHOSPHATE-HYDROXYAPATITE CEMENTS: MECHANICAL STRESS ANALYSIS AND OSTEOLASTIC INDUCTION**
Toshimi Kano, Stamatia Rokidi, Eumorphia Remboutsika, Dionysios Mouzakis, Stefanos Zaoutsos, Nikolaos Bouropoulos, Eleni Douni
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- [71] **STOCHASTIC AND ACOUSTIC EMISSION DETECTION OF ACCELERATED AGING RELATED DAMAGE IN CARBON FIBER REINFORCED COMPOSITES**
D. E. Mouzakis, D. G. Dimogianopoulos, S. Zaoutsos
4th International Conference of Engineering Against Failure, 24-26 June 2015, Skiathos, GREECE
- [72] **DURABILITY ANALYSIS AND CREEP-FATIGUE INTERACTIONS IN COMPOSITES DUE TO ACCELERATED AGING**
S. Zaoutsos, D. E. Mouzakis,
4th International Conference of Engineering Against Failure, 24-26 June 2015, Skiathos, GREECE
- [73] **EXPERIMENTAL AND NUMERICAL ANALYSIS OF UNBALANCED BORON/EPOXY-ALUMINUM SINGLE LAP JOINTS SUBJECTED TO A CORROSIVE ENVIRONMENT**
P.J. Charitidis, G.C. Papanicolaou, D.E. Mouzakis, G. Jiga
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- [74] **TIME TEMPERATURE SUPERPOSITION PRINCIPLE: APPLICATION TO PROCESS DYNAMIC MECHANICAL ANALYSIS DATA OF ENVIRONMENTALLY AGED CARBON FIBER REINFORCED COMPOSITES**
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- [75] **POROSITY RELATED MECHANICAL PROPERTIES AND OSTEOBLASTIC INDUCTION RESPONSE OF A-TCP/HYDROXYAPATITE BONE CEMENTS**
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10th World Biomaterials Congress held on May 17-22, 2016 in Montreal, Canada
- [76] **SYNTHESIS, CHARACTERIZATION AND VISCOELASTIC RESPONSE PROPERTIES OF COMPOSITE CALCIUM ALGINATE/CALCIUM PHOSPHATE HYDROGEL BEADS**
Athanasios Missirlis, Ioanna Kontopoulou, Dionysios Mouzakis, Nikolaos Bouropoulos
28th ANNUAL CONFERENCE OF THE EUROPEAN SOCIETY FOR BIOMATERIALS (ESB) September 4-8, 2017 ATHENS – GREECE
- [77] **A COMPARATIVE STUDY BETWEEN A-TCP AND A-TCP/GEOPOLYMER ON CRITICAL-SIZED DEFECT IN NEW ZEALAND WHITE RABBITS. A HISTOLOGICAL STUDY OF THE INTERFACE REACTION**
Christos Zafeiris, Lubna Khaldi, Nikos Bouropoulos, Nikitas Schizas, Dionysios Mouzakis, Ismene Dontas, Nikolaos Papaioannou
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- [78] **PHOSPHATE-HYDROXYAPATITE CEMENTS: POROSITY RELATED MECHANICAL RESPONSE AND OSTEOBLASTIC INDUCTION BEHAVIOR**
Toshimi Kano, Vagelis Rinotas, Stamatia Rokidi, Dionysios E. Mouzakis, Stefanos Zaoutsos, Nikolaos Bouropoulos, Eleni Douni
28th ANNUAL CONFERENCE OF THE EUROPEAN SOCIETY FOR BIOMATERIALS (ESB) September 4-8, 2017 ATHENS – GREECE
- [79] **EXPERIMENTAL VERIFICATION OF FRACTIONAL MODELLING OF THE VISCOELASTIC RESPONSE IN POLYMER BIOMATERIALS**

Dionysios E. Mouzakis, Anastasios K. Lazopoulos
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Dionysios E. Mouzakis, Anastasios K. Lazopoulos
EUROMAT 2017, Thessaloniki, Macedonia, Northern Greece, from 17 - 22 September, 2017.
- [81] **ACOUSTIC EMISSION: A USEFUL TOOL FOR DAMAGE EVALUATION IN COMPOSITE MATERIALS**
D.E. Mouzakis
ICSAAM 2017, The 7th International Conference on Structural Analysis of Advanced Materials, 19-22 September 2017 Bucharest, Romania
- [82] **ACOUSTIC EMISSION DETECTION OF ACCELERATED AGING INFLICTED DAMAGE IN CARBON FIBER REINFORCED COMPOSITES**
D.E.MOUZAKIS and D.G.DIMOGIANNOPOULOS⁴th International Conference on Operational Planning, Technological Innovations and Mathematical Applications (OPTIMA) Hellenic Army Academy (Vari Attikis) May 25 – 26, 2017
- [83] **ACOUSTIC EMISSION DETECTION OF DAMAGE INDUCED BY SIMULATED ENVIRONMENTAL CONDITIONING IN CARBON FIBER REINFORCED COMPOSITES**
Dionysios Mouzakis, Dimitrios Dimogianopoulos
ICF14 -14th International Conference on Fracture, Rhodes, Greece, June 18-23, 2017
- [84] **ADVANCED TECHNOLOGIES IN 3D MATERIALS MANUFACTURING FOR DEFENCE APPLICATIONS**
Dionysios Mouzakis
Ministry of National Defence
General Directorate for Defence Investments and Armaments
Science and Technology Symposium, October 22-23, 2018- ATHENS
- [85] **EXPERIMENTAL AND THEORETICAL VERIFICATION OF A SILICON MICRO-BEAM BENDING RESPONSE**
Mouzakis D.E., Manoli Ch.
ICEAF V -5th International Conference of Engineering Against Failure
20 - 22 June 2018 - Chios Island, Greece
- [86] **ACOUSTIC EMISSION TESTING: EVALUATION OF DAMAGE IN COMPOSITE MATERIALS**
Mouzakis D.E.
ICEAF V -5th International Conference of Engineering Against Failure
20 - 22 June 2018 - Chios Island, Greece
- [87] **EXPERIMENTAL AND THEORETICAL STUDY OF A SILICON MICRO-BEAM BENDING RESPONSE VIA RAMAN SPECTROSCOPY**
Manoli Chrysoula, Dionysios E Mouzakis,
1st International Conference on Welding & NDT of the Hellenic Society of NDT (HSNT) and the Welding Greek Institute , 1st ICWNDT-2018, Athens Greece, 22-23 October 2018
- [88] **SMART SENSOR SYSTEMS IN COMPOSITE MATERIALS**
Dionysios E Mouzakis, D. Dimogianopoulos
1st International Conference on Welding & NDT of the Hellenic Society of NDT (HSNT) and the Welding Greek Institute, 1st ICWNDT-2018, Athens Greece, 22-23 October 2018

- [89] **THE EFFECT OF GRAPHENE OXIDE ON THE THERMOMECHANICAL PROPERTIES OF VARIOUS POLYMERS**
E.Kontou, I.Charitos, D.Mouzakis
Frontiers in polymer science, 5-8 May 2019, Budapest, Hungary
- [90] **LOW-BANDGAP CONJUGATED POLYMER NANOPARTICLES AS FLUORESCENT CONTRAST AGENTS FOR IN VITRO BIOLOGICAL IMAGING**
L. E. Vagiaki, A. Negka, P. Koralli, A. Dimitrakopoulou-Strauss, D. Mouzakis, V. Gregoriou, C. Chochos
30th Annual Conference of the European Society for Biomaterials together with the 26th Annual Conference of the German Society for Biomaterials (DGBM)
9-13 September, Dresden- Germany
- [91] **INVESTIGATING THE ROLE OF EXOSOMES IN MODELED OSTEOPOROSIS**
P. Pantelidou, V. Rinotas, A. Papadopoulos, E. Efstathopoulos, D. Mouzakis, K. Bakirtzi, E. Douni
30th Annual Conference of the European Society for Biomaterials together with the 26th Annual Conference of the German Society for Biomaterials (DGBM)
9-13 September, Dresden- Germany

N2. National Hellenic Conferences

- [1] **ΜΕΛΕΤΗ ΤΗΣ ΕΠΙΔΡΑΣΗΣ ΤΗΣ ΕΠΙΤΑΧΥΝΟΜΕΝΗΣ ΠΕΡΙΒΑΛΛΟΝΤΙΚΗΣ ΓΗΡΑΝΣΗΣ ΣΕ ΠΟΛΥΜΕΡΗ ΚΑΙ ΣΥΝΘΕΤΑ ΥΛΙΚΑ**
Ε. Ζωγά, Δ. Μουζάκης και Κ. Γαλιώτης, ΠΑΝΕΛΛΗΝΙΟ ΣΥΝΕΔΡΙΟ ΧΗΜΙΚΗΣ ΜΗΧΑΝΙΚΗΣ, ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ, Πρακτικά Συνεδρίου, Σελ 329
- [2] **ΔΟΚΙΜΕΣ ΣΚΛΗΡΟΤΗΤΑΣ ΚΑΤΑ VICKERS ΣΕ ΟΥΡΟΛΙΘΟΥΣ ΜΟΝΕΝΥΔΡΟΥ ΟΞΑΛΙΚΟΥ ΑΣΒΕΣΤΙΟΥ ΚΑΙ ΒΡΟΥΣΙΤΗ**
Μπιθέλης Γ., Μουζάκης Δ., Μπουρόπουλος Ν., Λιάτσικος Ε., Μπαρμπαλιάς Γ.
17^ο Πανελλήνιο Ουρολογικό Συνέδριο, Αλεξανδρούπολη, Ιούνιος 2004.
- [3] **ΤΟ ΦΑΙΝΟΜΕΝΟ ΤΗΣ ΨΥΧΡΗΣ-ΧΗΜΕΙΟΚΡΥΣΤΑΛΛΩΣΗΣ ΣΕ ΝΑΝΟΣΥΝΘΕΤΑ ΥΛΙΚΑ ΥΠΟ ΤΗΝ ΕΠΙΔΡΑΣΗ ΥΠΕΡΙΩΔΟΥΣ ΑΚΤΙΝΟΒΟΛΙΑΣ**
Δ. Ε. Μουζάκης, Γ. Κανδυλιώτη και Β.Γ. Γρηγορίου
20^ο Πανελλήνιο Συνέδριο Χημείας : Ιωάννινα 20-24 Σεπτεμβρίου 2005
- [4] **ΜΕΛΕΤΗ ΤΩΝ ΜΕΤΑΣΧΗΜΑΤΙΣΜΩΝ ΦΑΣΕΩΝ ΤΩΝ ΝΑΝΟΣΥΝΘΕΤΩΝ ΣΥΝΔΙΟΤΑΚΤΙΚΟΥ ΠΟΛΥΠΡΟΠΥΛΕΝΙΟΥ (SPP) ΚΑΙ ΥΨΗΛΗΣ ΠΥΚΝΟΤΗΤΑΣ ΠΟΛΥΑΙΘΥΛΕΝΙΟΥ (HDPE) ΚΑΤΑ ΤΗ ΜΗΧΑΝΙΚΗ ΚΑΙ ΘΕΡΜΙΚΗ ΤΟΥΣ ΕΠΕΞΕΡΓΑΣΙΑ ΜΕ ΔΟΝΗΤΙΚΗ ΦΑΣΜΑΤΟΣΚΟΠΙΑ ΚΑΙ ΔΙΑΘΛΑΣΗ ΑΚΤΙΝΩΝ-Χ (XRD).**
Γ. Κανδυλιώτη, Σπ. Τζαβαλάς, Δ.Ε. Μουζάκης, Κ.Α. Macchiarola και Β.Γ. Γρηγορίου
5^ο ΠΑΝΕΛΛΗΝΙΟ ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΥΝΕΔΡΙΟ ΧΗΜΙΚΗΣ ΜΗΧΑΝΙΚΗΣ
26-28 Μαΐου 2005, Θεσσαλονίκη
- [5] **ΠΟΛΥΜΕΡΙΚΑ ΜΙΓΜΑΤΑ ΕΤΕΡΟΕΠΑΦΗΣ ΓΙΑ ΧΡΗΣΗ ΤΟΥΣ ΣΕ ΠΛΑΣΤΙΚΑ ΦΩΤΟΒΟΛΤΑΪΚΑ ΚΕΛΙΑ. ΜΕΛΕΤΗ ΚΑΙ ΣΥΣΧΕΤΙΣΜΟΣ ΜΟΡΦΟΛΟΓΙΑΣ ΚΑΙ ΕΝΕΡΓΕΙΑΚΗΣ ΑΠΟΔΟΣΗΣ ΤΩΝ ΦΩΤΟΒΟΛΤΑΪΚΩΝ ΔΙΑΤΑΞΕΩΝ.**
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SYNOPSIS



Dionysis (Denis) E. Mouzakis PhD (born 1971), obtained his mechanical engineering degree in 1995 (University of Patras, Greece) and his Doctoral Diploma in 1999 (Dr.-Ing., University of Kaiserslautern, Germany). He is the author of >50 peer reviewed Journal Articles with more than 950 international citations (H-index=17) and has participated with presentations in more than 100 International and National Conferences with respect to materials science and engineering topics. He has invested considerable effort in studying the structure-mechanical property relationships in polymers, polymer blends, composite materials, and biomaterials. He is also active in the area of nanocomposites' property assessment and smart sensors applications. He has already accumulated extended experience in composing large research projects, supervising work packages and collaborating with wide international scientific teams. The research projects he has participated are of national character (German and Greek-State funds) and also EU-funded ones. His academic career involves lecturing for 6 years at the Department of Materials Science at the University of Patras and scientific work as a research associate of the Institute of Technology and Research FORTH/ICE-HT in Patras-Greece. He has also worked for two years as a research engineer in “Karamouzis SA” organic lenses manufacturing plant in Patras–Greece as a thin metal coating expert. He is currently working as assistant professor of Mechanics of Materials at the Hellenic Military Academy (top 10 ranking Mil.Academies). He is, for a second term, the elected Chairman of the Hellenic Society for Biomaterials.