

SELECTED PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

Stefanos Zaoutsos

1. **S.P. Zaoutsos**, G. C. Papanicolaou „On the Influence of Preloading in the Nonlinear Viscoelastic Response of Carbon Epoxy Composites“ Composite Science and Technology, 2010, Vol. 70, pp. 922-929.
2. G. C. Papanicolaou, A. G. Xepapadaki, S Pavlopoulou, **S. P. Zaoutsos**, „On the Investigation of the Stress Threshold from Linear To Nonlinear Viscoelastic Behaviour of Polymer-Matrix Particulate Composites“, Journal of the Mechanics of Time Dependent Materials, 2009, May, Vol. 13(3), pp. 261-274.
3. G.C. Papanicolaou, A.G. Xepapadaki, K. Karagounaki, **S. P. Zaoutsos**, „Time and Temperature Effect on the Linear-Nonlinear Viscoelastic Transition Threshold of a Polymeric System“, Journal of Applied Polymer Science, 2008, January, Vol. 108, pp. 640-649
4. G.C. Papanicolaou, **S. P. Zaoutsos**, E. Kontou., „Effect of The Fiber Orientation On The Nonlinear Viscoelastic Behavior Of Fibrous Polymer Composites“, Composites Science and Technology, 2004, December, Vol. 64 (16), pp. 2535-2545
5. Papanicolaou, **S. P. Zaoutsos**, A.H. Cardon „Further Development of A Data Reduction Method for the Nonlinear Viscoelastic Characterization of FRP“ s“, Composites Part A : Applied Science and Manufacturing, 1999, June, Vol. 30, No 7, pp. 838-849 .
6. **S. P. Zaoutsos**, G.C. Papanicolaou, A.H. Cardon, „Prediction Of The Non-Linear Viscoelastic Behaviour Of Polymer Matrix Composites“, Composites Science and Technology, 1999, July, Vol. 59, pp. 1311-1319
7. Bruggeman, Q. Yang, **S. P. Zaoutsos**, F. Boulpaep, S. Dumortier, A.H. Cardon, „Study of the Nonlinear Material Behavior Of Fibredux 920-C-TS-5-42“, Journal of the Mechanical Behavior of Materials, 1998, Vol 9, No 1, pp. 91-96.
8. **S. P. Zaoutsos**, G. C. Papanicolaou, A. H. Cardon „On the Nonlinear Viscoelastic Behavior of Polymer Matrix Composites“, Composites Science and Technology, 1998, July, Vol 58, No 6, pp. 883-886. (38)

D.E. Mouzakis

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

[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
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)

EXPERIMENTAL-IMPACT FRACTURE -COMPOSITES 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

EXPERIMENTAL-FRACTURE –HYBRID COMPOSITES 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

EXPERIMENTAL-FRACTURE –POLYMERS 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
EXPERIMENTAL-FRACTURE –COMPOSITES 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
EXPERIMENTAL-FRACTURE –COMPOSITES IF:0.816
- [8] INSTRUMENTED TENSILE AND FALLING WEIGHT IMPACT RESPONSE OF
- -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
EXPERIMENTAL-IMPACT –POLYMERS IF:1.072
- [9] RELATIONSHIP BETWEEN MORPHOLOGY AND MECHANICAL PROPERTIES OF
POLYPROPYLENE/ETHENE-CO-BUTENE BINARY BLENDS
D.E. Mouzakis, D. Mäder, R. Mülhaupt and J. Karger-Kocsis
Journal of Material Science 35, (2000) 1-12
EXPERIMENTAL-FRACTURE –POLYMER BLENDS 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
EXPERIMENTAL-FRACTURE –COMPOSITES
- [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
MODELLING–FRACTURE BEHAVIOUR -POLYMER BLENDS 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
EXPERIMENTAL-FRACTURE –COMPOSITES 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
EXPERIMENTAL-FRACTURE –COMPOSITES 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
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)
EXPERIMENTAL-FRACTURE –POLYMER BLENDS 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
EXPERIMENTAL-DMA –BIOMATERIALS 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
 EXPERIMENTAL-DMA/DSC –NANOCOMPOSITES 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
 EXPERIMENTAL –BIOMATERIALS-HARDNESS 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
 EXPERIMENTAL-DMA –BIOMATERIALS 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
 EXPERIMENTAL-NDT-MAGNETOELASTICITY 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
 MODELLING –COMPOSITES 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
 EXPERIMENTAL-DSC –NANOCOMPOSITES 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 EXPERIMENTAL-FRACTURE –ADVANCED POLYMERS 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: IJAIM, 1 (1), 2007, 55 – 67. MODELLING –COMPOSITES 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
 EXPERIMENTAL –BIOMATERIALS FRACTURE IF:N.A

[25] EARLY FAILURE OF A ZIRCONIA FEMORAL HEAD PROSTHESIS: FRACTURE OR FATIGUE?
 Elias C. Panagiotopoulos, Alkiviadis G. Kallivokas, Ioannis Kouloumpas, D.E. Mouzakis
 Clinical Biomechanics, Volume 22, Issue 7, 2007, 856-860
 EXPERIMENTAL –BIOMATERIALS FRACTURE 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
 EXPERIMENTAL – COMPOSITES 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. Siamblis, 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
 EXPERIMENTAL-DSC –NANOCOMPOSITES 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
MODELLING –COMPOSITES
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 EXPERIMENTAL –AGEING-COMPOSITES 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. Siambilis, E. Liatsikos
Journal of Endourology , Volume 22, Number 8, August 2008, Pp. 1761–1769
EXPERIMENTAL-DMA –BIOMATERIALS 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. Journal of Materials and Product Technology - IJMPT – IN PRESS
IF:0.291
- [32] POLYMER NANOCOMPOSITES TOUGHNESS STUDY AND RESIDUAL PROPERTY MODELLING
D.E. Mouzakis, G.C. Papanicolaou, Chr. Argyrakakis, G. Kandilioti, D. Kontarinis and V.G. Gregoriou
Journal of Nanostructured Polymers and Nanocomposites, Vol 4, Issue3, 2008, pp100-109 IF:N.A
- [33] Μητανικές Ιδιότητες των Ταινιών Ελεσθέρας Τάξεως: Πειραματική Μελέτη
N. Φεράκης, Δ. Μοσζάκης, N. Μποσρόπουλος, N. Χαραλαμπογιάννης, K. Μποσρόπουλος, A. Φαρμάκης, H. Πούλιας
ΕΛΛΗΝΙΚΗ ΟΥΡΟΛΟΓΙΑ 2008, 20: 297-302
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
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
CRYSTAL RESEARCH TECHNOGY 45, NO. 3, 239 – 243 (2010) / DOI10.1002/CRAT.200900551
IF: 0.921
- [36] STUDY OF THE STRESS OSCILLATION PHENOMENON IN SYNDIOTACTIC POLYPROPYLENE/MONTMORILLONITE NANOCOMPOSITES
D.E. Mouzakis
EXPRESS POLYMER LETTERS VOL.4, NO.4 (2010) 244–251 IF: 1.45
INVITED PAPER 2010
- [37] APPLICATION OF THIN-FILM CONTACT-FREE MAGNETO-ELASTIC SENSORS AND STOCHASTIC NONLINEAR MODELING TO SYSTEM DAMAGE DIAGNOSIS
Dimitrios G. Dimogianopoulos, Dionysios E. Mouzakis Science of Advanced Materials, Vol. 2,1–9, 2010 IF: N.A.
INVITED PAPER 2010
- [38] DYNAMIC MECHANICAL PROPERTIES OF CALCIUM ALGINATE-HYDROXYAPATITE NANOCOMPOSITE HYDROGELS
N. Bouropoulos A. Stampolakis, D.E. Mouzakis
Science of Advanced Materials, Vol. 2, 1–4, 2010 IF: N.A.
- [39] EXPERIMENTAL AND NUMERICAL DETERMINATION OF THE MECHANICAL RESPONSE OF TEETH WITH REINFORCED POSTS
Triantafillos Papadopoulos, Dimitris Papadogiannis, Dionysios E. Mouzakis, Konstantinos Giannadakis & George Papanicolaou
Journal of Biomedical Materials, accepted May 2010 (in press) IF: 1.8

[40] DYNAMIC PROPERTIES OF A MAXILLOFACIAL SILICONE ELASTOMER INCORPORATED WITH ZNO ADDITIVE: THE EFFECT OF ARTIFICIAL AGING

DE Mouzakis, T D Papadopoulos, G L Polyzois And P G Griniari

ACCEPTED IN PRESS TO JOURNAL OF MAXILLOFACIAL SURGERY, APRIL 2010

[41] NANO-PARTICLE REINFORCED DENTAL CEMENTS

Bairami Vakina, Kourtis Stefanos, Mouzakis E. Dionysios, Bouropoulos Nikolaos, Kalampaliki Theodora, Hellenic Dental Journal (in press) 2010