CURRICULUM VITAE

Dr. Vasilis Pagonis
McDaniel College
Physics Department
Westminster, MD 21157, USA

Academic Rank: Full Professor
E-mail: vpagonis@mcdaniel.edu
Marital Status: Married, 2 children.

PROFESSIONAL PREPARATION

University of Athens, Athens, Greece	Major: Physics B.S. 1976
University of Birmingham, Birmingham, England	Major: Physics M.Sc. 1978 Specialty: Applied Radiation Physics
Northeastern University, Boston, Massachusetts	Major: Physics M.S. 1979
Northeastern University, Boston, Massachusetts	Major: Physics Ph.D. 1982 Specialty: Experimental Solid State Physics

Title of Master's Thesis:	Thermoluminescence study of meteorites
Title of Doctoral Dissertation:	Neutron studies of ferromagnetic materials
Name of Doctorate Supervisor:	Prof. C. Perry.

ACADEMIC AND PROFESSIONAL EXPERIENCE:

McDaniel College	(8/96 to Present)	Professor Dept. of Physics
McDaniel College	(9/07 to 9/14)	Kopp Endowed Chair Professor of Physics
McDaniel College	(9/12 to 2014)	Department Chair Dept. of Physics
McDaniel College	(8/87 to 2001)	Department Chair Dept. of Physics
McDaniel College	(8/89 to 8/96)	Associate Professor Dept. of Physics
McDaniel College	(8/86 to 8/89)	Assistant Professor Dept. of Physics
Allegheny College	(8/82 to 8/86)	Assistant Professor Dept. of Physics
Northeastern University	(8/79 to 8/82)	Lecturer Dept. of Mathematics
Northeastern University	(8/79 to 8/82)	Research Assistant Dept. of Physics

Awards:

McDaniel College *Special Achievement Professional Publications award:* 2016
McDaniel College *Faculty Book award:* 2011
McDaniel College *Kopp Endowed Chair in the sciences award*: 2007-present
McDaniel College *Faculty Book award:* 2006
McDaniel College *Faculty Research award for Scholarly publications:* 2006
McDaniel College *Faculty Research award for Scholarly publications:* 2002
McDaniel College *Faculty Research award for Scholarly publications:* 1998

PUBLISHED GRADUATE TEXTBOOKS

1. Dr. Pagonis is the co-author of a graduate-level book entitled ***"Practical and Numerical Exercises in Thermoluminescence"***. The book is co-authored with Dr. George Kitis of the Aristotle University in Thessaloniki-Greece, and with Dr. Claudio Furetta of the University of Rome-Italy. This is a graduate level textbook that is meant to be used for training graduate students in the field of Thermoluminescence, and contains complete numerical and theoretical exercises and their solutions. The textbook was published in 2006 by Springer-Verlag-USA.

2. Dr. Pagonis is the co-author of the book "Thermally and Optically Stimulated Luminescence: A simulations approach". The book is co-authored with Dr. Reuven Chen, Professor Emeritus of Tel-Aviv University, Israel. The book was published in spring 2011 by Wiley.

3. Dr. Pagonis is the co-editor of the book "Recent Advances in Physics and Applications of TL and OSL". The book was published in spring 2019 by World Scientific. This is an Advanced Topics Review book containing 12 authoritative chapters written by experts in the field of TL/OSL.

BOOK CURRENTLY IN PROGRESS

4. Pagonis, V., and Kulp, C., 2018. Classical Mechanics: a computational approach (under contract to CRC Press). This undergraduate physics textbook is currently in the editing stage, with an anticipated publications date in Spring 2020.

Editorial work

Reviewer for the following international peer reviewed journals:
Journal of Luminescence
Radiation Measurements
The Physics Teacher
Int. Journal of Radiation Effects and Isotopes
Journal of Physics D: Applied Physics
Physica B
Nuclear Instruments Methods and Instruments B
European Journal of Physics
Journal of Archaeological Science
Applied Radiation and Isotopes
Mediterranean Archaeology
Boreas
Journal of Archaeology Science Reports

PAPERS CO-AUTHORED WITH MCDANIEL STUDENTS

The following are publications in refereed journals, co-authored with McDaniel students:
Bold indicates McDaniel College undergraduate students

1. Thermoluminescence due to tunneling in nanodosimetric materials: A Monte Carlo study
Vasilis Pagonis , **Phuc Truong**
Physica B: Condensed Matter 531 (2018) 171–179

2.The effect of crystal size on tunneling phenomena in luminescent nanodosimetric materials
Vasilis Pagonis, **Shannon Bernier, Francisco Marques dos Santos Vieira, Shane Steele**
Nuclear Inst. and Methods in Physics Research, B 412 (2017) 198–206

3.Quantum tunneling recombination in a system of randomly distributed trapped electrons and positive ions
Vasilis Pagonis, Christopher Kulp, **Charity-Grace Chaney** and M Tachiya
J. Phys.: Condens. Matter 29 (2017) 365701

4.Mathematical characterization of continuous wave infrared stimulated luminescence signals (CW-IRSL) from feldspars
V. Pagonis, **Huy Phan, Rebecca Goodnow, Sara Rosenfeld**, P.Morthekai
Journal of Luminescence 154 (2014) 362–368

5.Vasilis Pagonis, **Ethan Gochnour, Michael Hennessey, Charles Knower**
Monte Carlo simulations of luminescence processes under quasiequilibrium (QE) conditions
Radiation Measurements 67 (2014) 67-76

6.Vasilis Pagonis, **Huy Phan, David Ruth**, George Kitis
Further investigations of tunneling recombination processes in random distributions of defects. Radiation Measurements (2013),
http://dx.doi.org/10.1016/j.radmeas.2013.08.006

7. Vasilis Pagonis, **Leigh Blohm, Mark Brengle, Gina Mayonado, Patrick Woglam**.
Anomalous heating rate effect in thermoluminescence intensity using a simplified semi-localized transition (SLT) model. Radiation Measurements (2013)
http://dx.doi.org/10.1016/j.radmeas.2013.01.025

8. Vasilis Pagonis, Reuven Chen, **John W. Maddrey, Benjamin Sapp**. Simulations of timeresolved photoluminescence experiments in a-Al2O3:C . Journal of Luminescence 131 (2011) 1086–1094

9. Vasilis Pagonis, **Atlee Baker, Meredith Larsen, Zachary Thompson**. Precision and accuracy of two luminescence dating techniques for retrospective dosimetry: SAR-OSL and SARITL.
Nuclear Instruments and Methods in Physics Research B 269 (2011) 653–663

10. Pagonis, S. Mian, **R. Mellinger**, **K. Chapman** (2009). Thermoluminescence kinetic study of binary lead-silicate glasses. *Journal of Luminescence* 129 (2009) 570–577.

11. V Pagonis, S M Mian, M L Chithambo, E Christensen and **C Barnold** (2009) Experimental and modelling study of pulsed optically stimulated luminescence in quartz, marble and beta irradiated salt**.** *J. Phys. D: Appl. Phys.* 42 (2009) 055407.

12. V. Pagonis, **E. Balsamo, C. Barnold, K. Duling, S. McCole** (2008) Simulations of the predose technique for retrospective dosimetry and authenticity testing. *Radiation Measurements* 43 (2008) 1343–1353.

13. C. Soares, **C. Drupieski, B. Wingert, G. Pritchett**, V. Pagonis, M. O'Brien, A. Sliski, P. Bilski and P. Olko (2006). Absorbed dose measurements of a handheld 50 kvp x-ray source in water with thermoluminescence dosemeters. *Radiation Protection Dosimetry,* Vol. 120, pp. 78–82.

14. Vasilis Pagonis and **Hezekiah Carty** (2004). Simulation of the experimental pre-dose technique for retrospective dosimetry in quartz. *Radiation Protection Dosimetry* (2004), Vol. 109, No. 3, pp. 225-234.

15. G. Kitis, V. Pagonis, and **C. Drupieski** (2003). Cooling rate effects on the thermoluminescence glow curves of Arkansas quartz. Phys. stat. sol. (a) 198, No. 2, 312- 321 (2003).

16. V. Pagonis, E. Tatsis, G. Kitis and **C. Drupieski** (2002). Search for common characteristics in the glow curves of quartz of various origins *Radiation Protection Dosimetry* (2002), Vol. 100, Nos. 1-4, pp. 373-376.

17. G. Kitis, V. Pagonis, **H. Carty** and E. Tatsis (2002). Detailed kinetic study of the thermoluminescence glow curve of synthetic quartz. *Radiation Protection Dosimetry* Vol. 100, Nos. 1-4, pp. 225-228.

18. V. Pagonis and **C. Shannon** (2000). An improved experimental procedure of separating a composite thermoluminescence glow curve into its components. *Radiation Measurements*, 32, 805-812.

19. V. Pagonis, **R. Drake, M. Morgan, T. Peters, C. Riddle, and K. Rollins**, (1999). "Modeling the forces on the human body using Interactive Physics," *The Physics Teacher* 37:8, 469-474.

20. Vasilis Pagonis, **Sean Chauduri, Brian Hornbecker,** and **Nathan Smith**, (1997). "Video measurements: Effects of air resistance," *The Physics Teacher* 35:6, 364-369 (1997).

21. V. Pagonis, **E. Allman,** and **A. Wooten Jr.**, (1996)."Thermoluminescence from a distribution of trapping levels in UV irradiated calcite," *Radiation Measurements*, 26, 265-280 (1996)

PUBLISHED ARTICLES IN REFEREED JOURNALS

120. Thermoluminescence due to tunneling in nanodosimetric materials: A Monte Carlo study
Vasilis Pagonis , Phuc Truong
Physica B: Condensed Matter 531 (2018) 171–179

119. Anomalous fading in TL, OSL and TA – OSL signals of Durango apatite for various grain size fractions; from micro to nano scale
G.S. Polymeris, I.K. Sfampa, M. Niora, E.C. Stefanaki, L. Malletzidou, V. Giannoulatou,V. Pagonis, G. Kitis
Journal of Luminescence 195 (2018) 216–224

118. The effect of crystal size on tunneling phenomena in luminescent nanodosimetric materials
Vasilis Pagonis, Shannon Bernier, Francisco Marques dos Santos Vieira, Shane Steele
Nuclear Inst. and Methods in Physics Research, B 412 (2017) 198–206

117. Can thermoluminescence be used to determine soil heating from a wildfire?
Francis K. Rengers, Vasilis Pagonis, Shannon A. Mahan
Radiation Measurements 107 (2017) 119-127

116. Sublinear dose dependence of thermoluminescence as a result of competition between electron and hole trapping centers
S.V. Nikiforov , V. Pagonis , A.S. Merezhnikov
Radiation Measurements 105 (2017) 54-61

115. Quantum tunneling recombination in a system of randomly distributed trapped electrons and positive ions
Vasilis Pagonis, Christopher Kulp, Charity-Grace Chaney and M Tachiya
J. Phys.: Condens. Matter 29 (2017) 365701

114. Tunnelling recombination in conventional, post-infrared and post-infrared multi-elevated temperature IRSL signals in microcline K-feldspar
Eren Şahiner, George Kitis, Vasilis Pagonis, Niyazi Meriç, George S. Polymeris
Journal of Luminescence 188 (2017) 514–523

113. Quartz radiofluorescence: a modelling approach
Johannes Friedrich, Vasilis Pagonis, Reuven Chen, Sebastian Kreutzer, Christoph Schmidt
Journal of Luminescence, 186 (2017) 318-325

112. The influence of competition effects on the initial rise method during thermal stimulation of luminescence: A simulation study
George Kitis, Vasilis Pagonis, S. E. Tzamarias
Radiation Measurements 100 (2017) 27-36

111. Thermoluminescence associated with two-electron traps
R. Chen , J.L. Lawless, V. Pagonis
Radiation Measurements 99 (2017) 10-17

110. An overview of recent developments in luminescence models with a focus on localized transitions
Vasilis Pagonis, Reuven Chen, Christopher Kulp, George Kitis
Radiation Measurements 106 (2017) 3-12

109. New expressions for half life, peak maximum temperature, activation energy and kinetic order of a thermoluminescence glow peak based on the Lambert W function
George Kitis , Vasilis Pagonis
Radiation Measurements 97 (2017) 28-34

108. Thermoluminescence glow curves in preheated feldspar samples: An interpretation based on random defect distributions
George S. Polymeris, Vasilis Pagonis, George Kitis
Radiation Measurements 97 (2017) 20-27

107. Quantitative analysis of time-resolved infrared stimulated luminescence in feldspars
Vasilis Pagonis, Christina Ankjærgaard, Mayank Jain, Makaiko L. Chithambo
Physica B 497 (2016) 78–85

106. On the intrinsic accuracy and precision of the standardised growth curve (SGC) and global-SGC (gSGC) methods for equivalent dose determination: A simulation study
Jun Peng, Vasilis Pagonis , Bo Li
Radiation Measurements 94 (2016) 53-64

105. Monte Carlo simulations of tunneling phenomena and nearest neighbor hopping mechanism in feldspars
Vasilis Pagonis, Christopher Kulp
Journal of Luminescence 181 (2017) 114–120

104. Reliability of single aliquot regenerative protocol (SAR) for dose estimation in quartz at different burial temperatures: A simulation study
D.K. Koul , V. Pagonis, P. Patil
Radiation Measurements 91 (2016) 28-35

103. Spectral and kinetic analysis of thermoluminescence from manganiferous carbonatite
M.L. Chithambo, V. Pagonis, F.O. Ogundare
Journal of Luminescence 145 (2014) 180–187

102. Prompt isothermal decay of thermoluminescence in MgB4O7:Dy, Na and LiB4O7:Cu, In dosimeters
G. Kitis , G.S. Polymeris , I.K. Sfampa, M. Prokic, N. Meriç , V. Pagonis
Radiation Measurements 84 (2016) 15-25

101. Simulating comprehensive kinetic models for quartz luminescence using the R program KMS
Jun Peng, Vasilis Pagonis
Radiation Measurements, Vol. 86, (2016), 63–67

100. Mathematical aspects of ground state tunneling models in luminescence materials
Vasilis Pagonis , George Kitis
Journal of Luminescence 168 (2015) 137–144

99. Time-resolved luminescence from quartz: An overview of contemporary developments and applications
M.L. Chithambo, C.Ankjærgaard, V.Pagonis
Physica B 481 (2016) 8–18

98. Time and dose-rate dependence of TL and OSL due to competition between excitation and fading
R. Chen , V. Pagonis , J.L. Lawless
Radiation Measurements 82 (2015) 115-121

97. Dating quartz near saturation – Simulations and application at archaeological sites in South Africa and South Carolina
James K. Feathers , Vasilis Pagonis
Quaternary Geochronology xxx (2015) 1-6

96. On the effect of optical and isothermal treatments on luminescence signals from feldspars
Vasilis Pagonis, George Polymeris, George Kitis
Radiation Measurements 82 (2015) 93-101

95. Correlation of basic TL, OSL and IRSL properties of ten K-feldspar samples of various origins
I.K. Sfampa, G.S. Polymeris, V. Pagonis, E. Theodosoglou, N.C. Tsirliganis, G. Kitis
Nuclear Instruments and Methods in Physics Research B 359 (2015) 89–98

94. Monte Carlo simulations of TL and OSL in nanodosimetric materials and feldspars
Vasilis Pagonis, Reuven Chen
Radiation Measurements (2015), http://dx.doi.org/10.1016/j.radmeas.2014.1

93. Radiation-induced growth and isothermal decay of infrared-stimulated luminescence from feldspar
Benny Guralnik, Bo Li, Mayank Jain, Reuven Chen, Richard B. Paris, Andrew S. Murray, Sheng-Hua Li, Vasilis Pagonis, Pierre G. Valla, Frédéric Herman
Radiation Measurements (2015),
DOI: 10.1016/j.radmeas.2015.02.011

92. Study of the stability of the TL and OSL signals
R. Chen, V. Pagonis
Radiation Measurements (2015),
http://dx.doi.org/10.1016/j.radmeas.2015.01.006

91. Intrinsic superlinear dose dependence of thermoluminescence and optically stimulated luminescence at high excitation dose rates
R. Chen, J.L. Lawless, V. Pagonis
Radiation Measurements 71 (2014) 220-225

90. Mathematical characterization of continuous wave infrared stimulated luminescence signals(CW-IRSL) from feldspars
V. Pagonis, Huy Phan, Rebecca Goodnow, Sara Rosenfeld, P.Morthekai
Journal of Luminescence 154 (2014) 362–368

89. Monte Carlo simulations of luminescence processes under quasiequilibrium (QE) conditions
Vasilis Pagonis, Ethan Gochnour, Michael Hennessey, Charles Knower

Radiation Measurements 67 (2014) 67-76

88. Kinetic analysis of thermoluminescence glow curves in feldspar: evidence of a continuous distribution of energies
Vasilis Pagonis, P. Morthekai and George Kitis
GEOCHRONOMETRIA 41(2) 2014: 168–177

87. On the shape of continuous wave infrared stimulated luminescence signals from feldspars: A case study
Vasilis Pagonis, M.Jain, K.J.Thomsen , A.S.Murray
Journal of Luminescence 153 (2014) 96–103

86. Properties of thermoluminescence glow curves from tunneling recombination processes in random distributions of defects
George Kitis and Vasilis Pagonis
Journal of Luminescence 153 (2014) 118–124

85. The role of simulations in the study of thermoluminescence (TL)
Reuven Chen, Vasilis Pagonis
Radiation Measurements (2014), http://dx.doi.org/10.1016/j.radmeas.2013.12.011

84. Prompt isothermal decay of thermoluminescence in an apatite exhibiting strong anomalous fading
I.K. Sfampa, G.S. Polymeris, N.C. Tsirliganis, V. Pagonis, G. Kitis
Nuclear Instruments and Methods in Physics Research B 320 (2014) 57–63

83. Further investigations of tunneling recombination processes in random distributions of defects
Vasilis Pagonis, Huy Phan, David Ruth, George Kitis
Radiation Measurements (2013), http://dx.doi.org/10.1016/j.radmeas.2013.08.006

82. Modeling TL-like thermally assisted optically stimulated luminescence (TA-OSL)
R. Chen, V. Pagonis
Radiation Measurements 56 (2013) 6-12

81. On the expected order of kinetics in a series of thermoluminescence (TL) peaks
R. Chen and V. Pagonis
Nuclear Instruments and Methods in Physics Research B 312 (2013) 60–69

80. THERMAL DEPENDENCE OF LUMINESCENCE LIFETIMES AND RADIOLUMINESCENCE IN QUARTZ
V. Pagonis, M.L. Chithambo, R. Chen, A. Chruścińska, M. Fasoli, S.H. Li, M. Martini, K. Ramseyer
Journal of Luminescence 145(2014)38–48

79. Anomalous heating rate effect in thermoluminescence intensity using a simplified semi-localized transition (SLT) model
Vasilis Pagonis, Leigh Blohm, Mark Brengle, Gina Mayonado, Patrick Woglam
Radiation Measurements 51-52 (2013) 40-47

78. Analytical solutions for stimulated luminescence emission from tunneling recombination in random distributions of defects
George Kitis and Vasilis Pagonis
Journal of Luminescence 137 (2013) 109–115

77. Anomalous fading of OSL signals originating from very deep traps in Durango apatite
G. Kitis , G.S. Polymeris, V. Pagonis , N.C. Tsirliganis
Radiation Measurements 49 (2013) 73-81

76. Thermal dependence of time-resolved blue light stimulated luminescence in a-Al2O3:C
Vasilis Pagonis, Christina Ankjærgaard, Mayank Jain, Reuven Chen
Journal of Luminescence 136 (2013) 270–277

75. On the quasi-equilibrium assumptions in the theory of thermoluminescence(TL)
R. Chen and V.Pagonis
Journal of Luminescence 143 (2013) 734–740

74. Time-resolved infrared stimulated luminescence signals in feldspars: Analysis based on exponential and stretched exponential functions
V. Pagonis, P.Morthekai, A.K.Singhvi, J.Thomas, V.Balaram, G.Kitis, R.Chen
Journal of Luminescence 132 (2012) 2330–2340

73. Reconstruction of thermally quenched glow curves in quartz
Bhagawan Subedi, George S. Polymeris, Nestor C. Tsirliganis, Vasilis Pagonis and George Kitis
Radiation Measurements 47 (2012) 250-257

72. Modeling of the shape of infrared stimulated luminescence signals in feldspars
Vasilis Pagonis, Mayank Jain, Andrew S. Murray, Christina Ankjærgaard and Reuven Chen
Radiation Measurements (2012), doi:10.1016/j.radmeas.2012.02.012

71. Superlinear dose response of thermoluminescence (TL) and optically stimulated luminescence (OSL) signals in luminescence materials: An analytical approach
Vasilis Pagonis, Reuven Chen and John L. Lawless
Journal of Luminescence 132 (2012) 1446–1455

70. A model for explaining the concentration quenching of thermoluminescence
R. Chen , J.L. Lawless, V. Pagonis
Radiation Measurements 46 (2011) 1380-1384

69. Two-stage thermal stimulation of thermoluminescence
R. Chen, J.L. Lawless, V. Pagonis
Radiation Measurements 47 (2012) 809-813

68. Prevalence of first order kinetics in thermoluminescence materials: An explanation based on multiple competition processes
Vasilis Pagonis and George Kitis Phys. Status Solidi B, 1–12 (2012) / DOI 10.1002/pssb.201248082

67. Preliminary results towards the equivalence of transformed continuous wave OSL (CW-OSL) and LM-OSL signals in quartz
G. Kitis, G. Polymeris, N. Kiyak and V.Pagonis
GEOCHRONOMETRIA (2011), DOI 10.2478/s13386-011-0031-8

66. Analytical expressions for time-resolved optically stimulated luminescence experiments in quartz
V. Pagonis, J. Lawles, R. Chen, M.L. Chithambo

Journal of Luminescence 131 (2011) 1827–1835

65. Simulations of thermally transferred OSL signals in quartz: Accuracy and precision of the protocols for equivalent dose evaluation

Vasilis Pagonis, Grzegorz Adamiec, C. Athanassas, Reuven Chen, Atlee Baker, Meredith Larsen, Zachary Thompson
Nuclear Instruments and Methods in Physics Research B 269 (2011) 1431–1443

64. On the intrinsic accuracy and precision of luminescence dating techniques for fired ceramics
Vasilis Pagonis, Reuven Chen, George Kitis
Journal of Archaeological Science 38 (2011) 1591-1602

63. Dissolution and subsequent re-crystallization as zeroing mechanism, thermal properties and dose response of salt (NaCl) for retrospective dosimetry
G. Polymeris, G. Kitis, N. Kiyak, I. Sfamba,B.Subedi, V.Pagonis
Applied Radiation and Isotopes 69 (2011) 1255–1262

62. Precision and accuracy of two luminescence dating techniques for retrospective dosimetry: SAR-OSL and SAR-ITL
Vasilis Pagonis, Atlee Baker, Meredith Larsen, Zachary Thompson
Nuclear Instruments and Methods in Physics Research B 269 (2011) 653–663

61. Simulations of time-resolved photoluminescence experiments in a-Al2O3:C
Vasilis Pagonis, Reuven Chen, John W. Maddrey, Benjamin Sapp
Journal of Luminescence 131 (2011) 1086–1094

60. Simulation of the Nonlinear Dose Dependence of Stabilized Point Defects
R Chen, V Pagonis and J L Lawless
IOP Conf. Series: Materials Science and Engineering 15 (2010) 012071
doi:10.1088/1757-899X/15/1/012071

59. Simulation of the influence of thermal quenching on thermoluminescence glow-peaks
B. Subedi, G. Kitis and V. Pagonis
Phys. Status Solidi A 207, No. 5, 1216–1226 (2010)

58. Simulations of isothermal processes in the semilocalized transition (SLT) model of thermoluminescence (TL)
V. Pagonis and C. Kulp
J. Phys. D: Appl. Phys. 43 (2010) 175403 (8pp)

57. On the initial-occupancy dependence of some luminescence phenomena under the one-trap-one-recombination-center (OTOR) model
R.Chen, V. Pagonis, J. Lawless, 2010
Radiation Measurements 45 (2010) 147–150

56. Nonlinear dose dependence of TL and LM-OSL within the one trap-one center model
R.Chen, V. Pagonis, J. Lawless
Radiation Measurements 45 (2010) 277–280

55. Investigation of OSL signals from very deep traps in unfired and fired quartz samples
G. Kitis, N.G. Kiyak, G.S. Polymeris, V. Pagonis
Nuclear Instruments and Methods in Physics Research B 268 (2010) 592–598

54. Mixed-order kinetics model for optically stimulated luminescence
G. Kitis, C. Furetta and V.Pagonis
Modern Physics Letters B, Vol. 23, No. 27 (2009) 3191–3207

53. Modelling the thermal quenching mechanism in quartz based on time-resolved optically stimulated luminescence
V. Pagonis, C. Ankjærgaard, A.S. Murray, M. Jain, R. Chen, J. Lawless, S. Greilich
Journal of Luminescence 130 (2010) 902–909

52. Sublinear dose dependence of thermoluminescence and optically stimulated luminescence prior to the approach to saturation level
J.L. Lawless, R. Chen , V. Pagonis
Radiation Measurements (2009), doi:10.1016/j.radmeas.2009.03.003

51. Simulations of thermally transferred OSL experiments and of the ReSAR dating protocol for quartz
Vasilis Pagonis , Ann G. Wintle, Reuven Chen, X.L. Wang
Radiation Measurements (2009), doi:10.1016/j.radmeas.2009.02.009

50. Radioluminescence in Al2O3 : C – analytical and numerical simulation results
V Pagonis, J Lawless, R Chen and C Andersen
J. Phys. D: Appl. Phys. 42 (2009) 175107 (9pp)

49. On the theoretical basis for the duplicitous thermoluminescence peak
J L Lawless, R Chen and V Pagonis
J. Phys. D: Appl. Phys. 42 (2009) 155409 (8pp)

48. A new look at the linear-modulated optically stimulated luminescence (LM-OSL) as a tool for dating and dosimetry
Reuven Chen, Vasilis Pagonis, John L. Lawless
Radiation Measurements 44 (2009) 344–350

47. Optically stimulated exoelectron emission processes in quartz: comparison of experiment and theory
V. Pagonis, C. Ankjærgaard, A.S. Murray, R. Chen
Journal of Luminescence 129 (2009) 1003–1009

46. Simulations of the predose technique for retrospective dosimetry and authenticity testing
V. Pagonis, E. Balsamo, C. Barnold, K. Duling, S. McCole
Radiation Measurements 43 (2008) 1343–1353

45. Thermoluminescence kinetic study of binary lead-silicate glasses
V. Pagonis, S. Mian, R. Mellinger, K. Chapman
Journal of Luminescence 129 (2009) 570–577

44. Experimental and modelling study of pulsed optically stimulated luminescence in quartz, marble and beta irradiated salt
V Pagonis, S M Mian, M L Chithambo, E Christensen and C Barnold
J. Phys. D: Appl. Phys. 42 (2009) 055407 (12pp)

43. A simulation of OSL pulse annealing at different heating rates: Conclusions concerning the evaluated trapping parameters and lifetimes
V. Pagonis, R. Chen
GEOCHRONOMETRIA, 30 (2008), pp xx-xx: DOI 10.2478/v10003-008

42. A theoretical model for a new dating protocol for quartz based on thermally transferred OSL (TT-OSL)V. Pagonis, A.G.Wintle, R. Chen, X.L.Wang
Radiat. Meas. (2008), doi: 10.1016/j.radmeas.2008.01.025

41. Computerized curve deconvolution analysis for LM-OSL
G. Kitis, V. Pagonis
Radiat. Meas. (2008), doi: 10.1016/j.radmeas.2007.12.05

40. Duplicitous thermoluminescence peak associated with a thermal release of electrons and holes from trapping states
R. Chen, V. Pagonis, J.L. Lawless
Radiat. Meas. (2007), doi: 10.1016/j.radmeas.2007.09.021

39. Dependence of the anomalous fading of the TL and blue-OSL of 0uorapatite on the occupancy of the tunnelling recombination sites
N.C. Tsirliganis, G.S. Polymeris, G. Kitis, V. Pagonis
Journal of Luminescence 126 (2007) 303–308

38. A quantitative kinetic model for Al2O3:C: TL response to UV-illumination
Pagonis, V., Chen, R. and Lawless, J.L.
Radiation Measurements (2007), doi:10.1016/j.radmeas.2007.10.046

37. Simulations of the effect of pulse annealing on optically-stimulated luminescence of quartz
V. Pagonis, A.G.Wintle, R. Chen
Radiation Measurements 42 (2007) 1587 – 1599

36. Thermoluminescence glow-peak shape methods based on mixed order kinetics
George Kitis, Reuven Chen, and Vasilis Pagonis
phys. stat. sol. (a), 1– 9 (2008) / DOI 10.1002/pssa.200723470

35. A unified presentation of thermoluminescence (TL), phosphorescence and linear-modulated optically stimulated luminescence (LM-OSL)
Reuven Chen and Vasilis Pagonis
J. Phys. D: Appl. Phys. **41** (2008) 035102

34. Peak shape methods for general order TL glow-peaks: A reappraisal
G. Kitis and V Pagonis
Nuclear Instruments and Methods in Physics Research B 262 (2007) 313–322s

33. Modelling thermal transfer in optically stimulated luminescence of quartz
V Pagonis, R Chen and AG Wintle
J. Phys. D: Appl. Phys. 40 (2007) 998–1006

32. Thermoluminescence response and apparent anomalous fading factor of Durango fluorapatite as a function of the heating rate
G. Kitis, G. Polymeris, V. Pagonis, and N. Tsirliganis
phys. stat. sol. (a) 203,No. 15, 3816-3823 (2006)

31. The effects of annealing and irradiation on the sensitivity and superlinearity properties of the 110 0C thermoluminescence peak of quartz
G. Polymeris, G. Kitis, V. Pagonis
Radiation Measurements 41 (2006) 554 – 564

30. Thermoluminescence under exponential heating function I: Theory
G. Kitis, R. Chen, V. Pagonis, E. Carinou and V. Kamenopoulou
J. Phys. D: Appl. Phys. 39, 1500-1507 (2006).

29. Thermoluminescence under exponential heating function II: Deconvolution of experimental glow-curves
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