

## DIMITRIOS PALLES

### LIST OF PUBLICATIONS

Last update: March 2022

#### DOCTORATE THESIS

“Micro-Raman study of the phase separation mechanism in  $\text{RBa}_2\text{Cu}_3\text{O}_x$  in the temperature range 5-300K”, Department of Physics, School of Applied Sciences, National Technical University of Athens (NTUA) (“Ethniko Metsovio Polytechnio”), Athens, Greece (2000).

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1. “Changes induced in the Raman spectra of  $\text{SmBa}_{2-x}\text{Sr}_x\text{Cu}_3\text{O}_y$  the redistribution of carriers and the orthorhombic-to-tetragonal phase transition”, N. Poulakis, D. Palles, C. Mitros, A. Koufoudakis, D. Niarchos, and E. Liarokapis, *Physica C* 235-240, 1177 (1994).
2. “The Ca substitution for Y and Ba in the  $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$  superconductor: a Raman study”, D. Palles, N. Poulakis, Th. Leventouri, and E. Liarokapis, *Physica C* 235-240, 1179 (1994).
3. “Raman study of the oxygen vibrations in 123-superconductors”, E. Liarokapis, N. Poulakis, D. Palles, K. Conder, E. Kaldis, and K.A. Müller, *Physica B* 219-220, 139 (1996).
4. “Structural study, resistivity, magnetization and Raman measurements for the HTc superconducting compounds  $\text{SmBa}_{2-x}\text{Sr}_x\text{Cu}_3\text{O}_{6+y}$  ( $x=0.0, 0.25, 0.5, 0.75, 1.0$  and  $1.25$ )”, V. Psycharis, C. Mitros, A. Koufoudakis, H. Gamari-Seale, D. Niarchos, N. Kalitsounakis, N. Poulakis, D. Palles and E. Liarokapis, *Physica C* 267, 211 (1996).
5. “Phase separation and softening of the  $\text{O}_{2,3}$  in-phase mode in the  $\text{YBa}_2\text{Cu}_3\text{O}_x$  superconductors”, N. Poulakis, D. Palles, E. Liarokapis, K. Conder, E. Kaldis and K. A. Müller, *Phys. Rev. B* 53, Rapid Communications 534 (1996).
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7. "An IBA and Raman study of irradiated thin films of  $\text{YBa}_2\text{Cu}_3\text{O}_7$  superconductor", R. Vlastou, E.N. Gazis, C.T. Papadopoulos, E. Liarokapis, D. Palles, S. Kossionidis, M. Kokkoris, M. Pilakouta, W. Assmann, and H. Huber, *Nucl. Instr. and Meth. B* 113, 253 (1996).
8. "Raman spectroscopic study of the  $\text{La}_{0.5}\text{R}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_y$  (R=Y, rare earth) superconductors", D. Palles, N. Poulakis, E. Liarokapis, A. Gantis, M. Calamiotou, A. Koufoudakis, *Superlatt. Microstruct.* 21, 329 (1997).
9. "Low temperature Raman study of the  $\text{YBa}_2\text{Cu}_3\text{O}_x$  ( $6.44 \leq x \leq 6.98$ ) superconductor", D. Palles, D. Lampakis, N. Poulakis, K. Conder, E. Kaldis, and E. Liarokapis, *Physica C* 282-287, 1051 (1997).
10. "XRD and micro-Raman characterization of epitaxial Bi-2201, Bi-2212, and Bi-2223 thin films", M. Holiastou, N. Poulakis, D. Palles, E. Liarokapis, D. Niarchos, U. Frey, and H. Adrian, *Physica C* 282-287, 583 (1997).
11. "The effect of Ca substitution on the structure and the Raman active phonons in  $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ ", D. Palles, E. Liarokapis, Th. Leventouri, and B.C. Chakoumakos, *J. Phys.: Condens. Matter* 10, 2515 (1998).
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  18. “Phase Separation in Ca substituted YBCO”, D. Palles, D. Lampakis, G. Boettger, E. Liarokapis, and E. Kaldis, *Physica C* 341-348, 2149 (2000).
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  26. “Unusual polymerisation in low-doped lithium fulleride  $\text{Li}_4\text{C}_{60}$ ”, M. Riccò, T. Shiroka, M. Belli, D. Pontiroli, M. Pagliari, G. Ruani, D. Palles, S. Margadonna, M. Tomaselli, *Phys. Rev. B* 72, 155437 (2005).

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32. "Abnormal isotopic shift of the broad band in the Mg<sub>1-x</sub>Al<sub>x</sub><sup>10,11</sup>B<sub>2</sub> superconductor", P. Parisiades, D. Lampakis, D. Palles, E. Liarokapis, L. Simonelli, A. Bianconi, *Physica C* 460-462, 612 (2007).
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34. "Micro-Raman evidence for charge ordering in superconducting La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub>", D. Lampakis, D. Palles, E. Liarokapis, C. Panagopoulos, *Physica C* 460-462, 1174 (2007).
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44. "Structure–property correlations in highly modified Sr, Mn-borate glasses", A. Winterstein-Beckmann, D. Möncke, D. Palles, E.I. Kamitsos, L. Wondraczek, *J. Non-Cryst. Solids* 376, 165 (2013).
45. "Raman spectroscopic study of structural changes induced by micro-indentation in low alkali borosilicate glasses", A. Winterstein-Beckmann, D. Möncke, D. Palles, E.I. Kamitsos and L. Wondraczek, *J. Non-Cryst. Solids* 401, 110 (2014).
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54. "Transition and post-transition metal ions in borate glasses: Borate ligand speciation, cluster formation, and their effect on glass transition and mechanical properties", D. Möncke, E. I. Kamitsos, D. Palles, R. Limbach, A. Winterstein-Beckmann, T. Honma, Z. Yao, T. Rouxel, and L. Wondraczek, *The Journal of Chemical Physics* **145**, 124501 (2016).
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56. “Synthesis, thermal and structural properties of pure TeO<sub>2</sub> glass and zinc-tellurite glasses”, N.S. Tagiara, D. Palles, E.D. Simandiras, V. Psycharis, A. Kyritsis, E.I. Kamitsos, J. Non-Cryst. Solids 457, 116 (2017). (highly cited paper: As of January/February 2021, this highly cited paper received enough citations to place it in the top 1% of the academic field of Physics based on a highly cited threshold for the field and publication year)
57. “Structural Stability, Vibrational Properties, and Photoluminescence in CsSnI<sub>3</sub> Perovskite upon the Addition of SnF<sub>2</sub>”, A.G. Kontos, A. Kaltzoglou, E. Siranidi, D. Palles, G.K. Angeli, M.K. Arfanis, V. Psycharis, Y.S. Raptis, E.I. Kamitsos, P.N. Trikalitis, C.C. Stoumpos, M.G. Kanatzidis, and P. Falaras, Inorg. Chem. 56, 84 (2017).
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60. “A multi technique study of a new lithium disilicate glass-ceramic spray-coated on ZrO<sub>2</sub> substrate for dental restoration”, D. Möncke, R. Ehrt, D. Palles, I. Efthimiopoulos, E.I. Kamitsos, and M. Johannes, Biomed. Glasses 3, 41 (2017).
61. “Effects of hydrogen pressure on hydrogenated amorphous silicon thin films prepared by low-temperature reactive pulsed laser deposition”, A. Mellos, M. Kandyla, D. Palles, M. Kompitsas, Physica Status Solidi C 14, 1600088 (2017).
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  66. "Phosphate recovery from real fresh urine by  $\text{Ca(OH)}_2$  treated natural zeolite", D. Mitrogiannis, M. Psychoyou, N. Koukouzas, N. Tsoukalas, D. Palles, E.I. Kamitsos, A. Pantazidis, G. Oikonomou, I. Baziotis, Chem. Eng. J. **347**, 618 (2018).
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  71. "Calcium modified clinoptilolite as a recovery medium of phosphate and potassium from anaerobically digested olive mill wastewater", D. Mitrogiannis, M. Psychoyou, M. E. Kornaros,



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75. “Phosphorus and potassium recovery from anaerobically digested olive mill wastewater using modified zeolite, lignite fly ash and zeolitic fly ash: a comparative study”, D. Mitrogiannis, M. Psychogiou, G. Manthos, K. Tsigkou, M. E. Kornaros, N. Koukouzas, D. Michailidis, D. Palles, E. I. Kamitsos, C. Mavrogonatos and I. Baziotis, *Journal of Chemical Technology & Biotechnology* (2022), DOI 10.1002/jctb.7059.

## **PUBLICATIONS IN INTERNATIONAL CONFERENCE PROCEEDINGS**

1. “A Refined Picture of the YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> Structure: Sequence of Dimpling-Chain Superstructures, 1D-Modulation of the Planes, Phase Separation Phenomena”, E. Kaldis, E. Liarokapis, N. Poulakis, D. Palles, K. Conder, “Stripes and Related Phenomena”, Eds. A. Bianconi & N. Saini (Proceedings of the International Conference ‘Stripes 1998’, Rome, June 1998), Kluwer Academic / Plenum Publishers, New York, 2000, ISBN 0-306-47100-0, p.211-217.
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## **PUBLICATIONS IN NATIONAL CONFERENCE PROCEEDINGS**

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38. "Late Bronze Age Borosilicate Layers: Possible Use of Borax as Adhesive for Gold Covers on Mycenaean Vitreous Relief Fragments", D. Möncke\*, F. Drünert, D. Palles, E. Palamara, M. Kaparou, E.I. Kamitsos, N. Zacharias, 40<sup>th</sup> International Symposium on Archaeometry – ISA2014, Los Angeles, USA; May 19-23, 2014 (oral).
39. "Structure of densified Na<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glasses Part I: Indentation – room temperature compression", A. Winterstein-Beckmann\*, D. Möncke, D. Palles, P. Malchow, K. Durst, E.I. Kamitsos, L. Wondraczek, 1st Joint Meeting of DGG and ACerS GOMD, Aachen, Germany; May 25-30, 2014 (oral).
40. "Antimonates as Colorants and Opacifiers in Mosaic tesserae, Glasses, and Glazes from Antiquity to the 17th Century" (POSTER / 3rd PRIZE), F. Drünert\*, D. Möncke, E. Palamara, O. Mecking, E. I. Kamitsos, L. Wondraczek, N. Zacharias, 1st Joint Meeting of DGG and ACerS GOMD, Aachen, Germany; May 25-30, 2014 (poster).
41. "Near and medium range order in borosilicate glasses probed by vibrational and NMR spectroscopy", D. Möncke\*, E. I. Kamitsos, A. Winterstein-Beckmann, L. Wondraczek, D. Ehrt, G. Tricot, 1st Joint Meeting of DGG and ACerS GOMD, Aachen, Germany; May 25-30, 2014 (oral).
42. "Contamination of phosphate glass melts prepared in alumina crucibles. The case of AgI-AgPO<sub>3</sub> as studied by IR, Raman and NMR spectroscopy", D. Palles\*, G. Tricot, and E.I. Kamitsos, 8<sup>th</sup> International Conference on Borate Glasses, Crystals and Melts and International Conference on Phosphate Glasses, Pardubice, Czech Republic; June 30 - July 4, 2014 (poster).

43. "Structural investigation of highly modified  $\text{Eu}^{2+}$ - $\text{Sr}^{2+}$ -borate glasses", A. Winterstein-Beckmann\*, D. Möncke, D. Palles, E.I. Kamitsos, and L. Wondraczek, 8<sup>th</sup> International Conference on Borate Glasses, Crystals and Melts and International Conference on Phosphate Glasses, Pardubice, Czech Republic; June 30 - July 4, 2014 (oral).
44. "Ion-exchanged oxide glasses by vibrational spectroscopy", E. Stavrou, D. Palles, E.I. Kamitsos, A. Lipovskii\*, and D. Tagantsev, E-MRS 2014 Fall meeting, Advances on Functional Doped Glasses: Technologies, Properties and Applications, Warsaw, Poland; September 15-18, 2014 (oral).
45. "Electro-thermal-poling-induced nonlinear optical properties in tellurite glasses and correlations with structure by vibrational spectroscopy and *ab initio* studies", N.S. Tayara\*, N.K. Nasikas, D. Palles, E.D. Simandiras, A. Kyritsis, and E.I. Kamitsos, E-MRS 2014 Fall meeting, Advances on Functional Doped Glasses: Technologies, Properties and Applications, Warsaw, Poland; September 15-18, 2014 (poster).
46. "Glass-metal nanocomposites: Materials, fabrication and applications", S. Honkanen\*, Y. Svirko, S. Chervinskii, A. Matikainen, A. Lipovskii, V. Zhurikhina, E. Stavrou, D. Palles, and E. I. Kamitsos, E-MRS 2014 Fall meeting, Advances on Functional Doped Glasses: Technologies, Properties and Applications, Warsaw, Poland; September 15-18, 2014 (invited talk).
47. "A multi-technique physicochemical study of byzantine glazed pottery from Corinth Greece", E. Palamara\*, N. Zacharias, M. Xanthopoulou, D. Palles, and E.I. Kamitsos, 4<sup>th</sup> Symposium on Archaeological Research & New Technologies (ARCH-RNT), Kalamata, Greece; October 1-3, 2014 (oral).
48. "Structural changes through indentation in alkali-borosilicate glasses", A. Winterstein-Beckmann\*, D. Möncke, D. Palles, P. Malchow, K. Durst, E. I. Kamitsos, L. Wondraczek, FFAG, Weimar, Germany; October 7-10, 2014 (oral).
49. "Transition and post-transition metal borate glasses: Structure-property correlation, cluster formation and borate ligand speciation", D. Möncke\*, D. Palles, E.I. Kamitsos, and L. Wondraczek, American Ceramic Society / Glass & Optical Materials Division - German Society of Glass Technology Joint Annual Meeting (ACerS GOMD – DGG), Miami, USA; May 17-21, 2015 (oral).
50. "Provenance and technology issues of Byzantine glazed pottery from Corinth, Greece", E. Palamara\*, N. Zacharias, M. Xanthopoulou, B.Z. Kasztovszky, I. Kovács, D. Palles, and E.I.

Kamitsos, TECNART- Non-destructive and Microanalytical Techniques in Art and Cultural Heritage, Catania, Italy; April 27-30, 2015 (oral).

51. "Femtosecond-laser nanostructured silicon substrates for UV photodiodes based on p-Si/n-ZnO heterojunctions", N. Latsis\*, M. Ulmeanu, D. Palles, and M. Kandyla, 6<sup>th</sup> International Conference on Micro-Nanoelectronics, Nanotechnologies and MEMS, Athens, Greece; October 4-7, 2015 (poster).
52. "Glass, gold and borax: Borosilicate layers on late Bronze Age Mycenaean vitreous relief fragments", D. Möncke\*, F. Drünert, F. Lind, A. Kästner, P. Vontobel, D. Palles, E.I. Kamitsos, L. Wondraczek, and N. Zacharias, 41<sup>st</sup> International Symposium on Archaeometry (ISA 2016), Kalamata, Greece; May 15-21, 2016 (poster).
53. "Surface modification of Mycenaean vitreous relief fragments: May gilding result in a borosilicate layer? Results from IR spectroscopy and neutron tomography", F. Drünert, F. Lind, A. Kästner, P. Vontobel, D. Palles, L. Wondraczek, E.I. Kamitsos, N. Zacharias, and D. Möncke\*, 24th International Congress on Glass, Shanghai, China; April 7-11, 2016 (oral).
54. "Mykenische glasfragmente mit borosilicatschicht", F. Drünert\*, F. Lind, A. Kästner, P. Vontobel, D. Palles, L. Wondraczek, E.I. Kamitsos, N. Zacharias, and D. Möncke, Int. Symposium zur Erforschung mittelalterlicher und neuzeitlicher Glashütten Europas, Buhlbach, Germany; 5-8 May 2016 (oral).
55. "Second harmonic generation in tellurium oxide glasses by electro-thermal poling", N.S. Tagiara\*, D. Palles, E.D. Simandiras, and E.I. Kamitsos, 8th Mediterranean Conference on Nano-photonics (MediNano-8), Athens, Greece; 29-30 June 2016 (poster).
56. "TeO<sub>2</sub> and zinc-tellurite glasses: properties, structure and second harmonic generation by electro-thermal poling", N.S. Tagiara\*, D. Palles, E.D. Simandiras, V. Psycharis, A. Kyritsis, and E.I. Kamitsos, Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 04-08, 2016 (poster).
57. "Electro-thermal poling of new Sb<sub>2</sub>O<sub>3</sub>-based multicomponent heavy metal oxide glasses", F. Lind\*, V. Frei, D. Möncke, D. Palles, S.M. Toufik, E.I. Kamitsos, and L. Wondraczek, Society of Glass Technology Centenary Conference and ESG 2016, Sheffield, UK; September 04-08, 2016 (poster).

58. "Properties of graphene supported on gold-coated black silicon", A. Dimoulas, S.A. Giamini, E.I. Kamitsos, M. Kandyla\*, N. Kelaidis, G. Kordas, J. Marquez, and D. Palles, XXXII Panhellenic Conference on Solid State Physics and Materials Science, Ioannina, Greece; 18-21 September 2016 (oral).
59. "Basalts from Santorini Volcano: A new candidate martian analogue", A. Pantazidis, I. Baziotis\*, E. Manoutsoglou, A. Solomonidou, F. Schwandner, G. Economou, D. Palles, E. Kamitsos, N. Koukouzas, N. Keklikoglou, C. Arvanitidis, J. Martinez-Frias, and P.D. Asimow, 79<sup>th</sup> Annual Meeting of the Meteoritical Society, Berlin, Germany; August 07-12, 2016 (poster).
60. "Low alkaline borosilicate glasses with different thermal history - a multi spectroscopic study of preferential bonding, phase-separation and dopant site", D. Möncke\*, D. Palles, G. Tricot, D. Ehrt, and E. I. Kamitsos, Dynamics of glass-forming liquids: will theory and experiment ever meet? Carlsberg Academy, Copenhagen, Denmark; April 5-7, 2017 (poster).
61. "Thermal-electric-field poling in bioactive sodium-calcium phospho-silicate glass: Second harmonic generation and related near-surface structural rearrangements", D. Palles\*, M. Dussauze, V. Rodriguez, C.R. Mariappan, B. Roling, and E.I. Kamitsos, The Ninth International Conference on Borate Glasses, Crystals and Melts and the Second International Conference on Phosphate Materials, Oxford, UK; July 24-28, 2017 (poster).
62. "Mixed glass former effect in ultra-fast-quenched lithium borophosphate glasses by infrared spectroscopy", D. Palles\*, M B. Raguene, G. Silly, M. Ribes, G. Tricot, A. Pradel, and E.I. Kamitsos, The Ninth International Conference on Borate Glasses, Crystals and Melts and the Second International Conference on Phosphate Materials, Oxford, UK; July 24-28, 2017 (poster).
63. "Spectroscopic study of the role of alkaline earth oxides in mixed borate glasses - site basicity, polarizability and glass structure", H. Elkholy\*, H. Othman, D. Palles, D. de Ligny, E.I. Kamitsos, and D. Möncke, The Ninth International Conference on Borate Glasses, Crystals and Melts and the Second International Conference on Phosphate Materials, Oxford, UK; July 24-28, 2017 (poster).
64. "Low alkaline borosilicate glasses – a multi spectroscopic study of preferential bonding, phase-separation and dopant sites", D. Möncke\*, D. de Ligny, D. Palles, G. Tricot, and E.I. Kamitsos, The Ninth International Conference on Borate Glasses, Crystals and Melts and the Second International Conference on Phosphate Materials, Oxford, UK; July 24-28, 2017 (oral).

65. "Fluorine evaporation and structural variations in fluoride-phosphate glasses", D. Möncke\*, D. Ehrt, H. Elkholy, H. Othman, D. Palles, E.I. Kamitsos, D. de Ligny, A.C.M. Rodrigues, and H. Eckert, The Ninth International Conference on Borate Glasses, Crystals and Melts and the Second International Conference on Phosphate Materials, Oxford, UK; July 24-28, 2017 (poster).
66. "IR and Raman study of oxy-nitride glasses", D. Möncke\*, S. Ali, N.A. Wójcik, D. Palles, E.I. Kamitsos, and B. Jonson, Society of Glass Technology Annual Meeting (SGT 2018), Cambridge, UK; 3-5 September 2018 (oral).
67. "Study of sediment from the internal surface of a Mycenaean tripod cauldron from Salamis using a combination of techniques - XRD, XRF, SEM, Raman", A. Oikonomou, Chr. Marabea, Chr. Papachristodoulou, D. Palles, 7<sup>th</sup> Symposium on Archaeometry of the Hellenic Society for Archaeometry (HSA), Athens, Greece; October 9-12, 2019.
68. "Tough polymer networks with covalent and catechol-iron coordination bonds: correlation of binding stoichiometry with mechanical performance", E. Filippidi\*, D. Palles, T.R. Cristiani, C.D. Eisenbach, and E.I. Kamitsos, European Polymer Congress, EPF 2019, Heraklion Crete, June 9-14, 2019 (oral).
69. "Lykion: A case study for medicines in Antiquity", Papageorgiou, M.,\* Boura, V.,\* Brecolaki, H., Palles, D., Kallintzi, K., Kamitsos, E.I., 2<sup>nd</sup> International Conference on *Global Issues of Environment & Culture*, Delphi, Greece; September 17-19, 2021, Sino-Hellenic Academic Project ([www.shap-conference.com](http://www.shap-conference.com)). Digital congress.