

IOANNIS KONIDAKIS

Curriculum Vitae, November 2020

1. PERSONAL DETAILS

Name : Ioannis
Surname : Konidakis
Date of birth : 4/9/1980
Nationality : Greek
Military service : 11/2006-10/2007 (obligatory in Greece)
Work address : Institute of Electronic Structure and Laser (IESL),
Foundation for Research and Technology-Hellas (FORTH),
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2. EDUCATION

- 7/2006: Ph.D. in Chemistry, University of Aberdeen, UK.
Ph.D. Thesis title: “Activation volumes and ion transport mechanisms in glasses and polymers”.
Thesis advisors: Prof. M.D. Ingram, Prof. C.T. Imrie.
- 7/2002: B.Sc. Honours in Chemistry, University of Aberdeen, UK.

3. AWARDS & DISTINCTIONS

- 1/2014-12/2015: IKY Fellowship of Excellence for Post-graduate Research in Greece - Siemens Program, awarded from the State Scholarships Foundation (IKY).
- 7/2014: Post-deadline acceptance of paper: “All-optical optofluidic switching in a ZnO-overlaid microstructured optical fiber”, BGPP 2014 - OSA, Barcelona, Spain.
- 9/2002-7/2006: Ph.D. Studentship, awarded from the Engineering and Physical Sciences Research Council (EPSRC, UK).
- 9/2000: COUTTS PRIZE, awarded from the Department of Chemistry for excellent performance in level 2 Chemistry, University of Aberdeen, UK.

4. RESEARCH APPOINTMENTS

- 5/2016- : Post-doctoral Researcher, Ultrafast Laser Micro and Nano-Processing Laboratory (ULMNP), Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece.
- 9/2011-4/2016: Post-doctoral Researcher, Photonic Materials and Devices Laboratory (PMDL), Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece.
- 6/2008-8/2011: Post-doctoral Researcher, Theoretical and Physical Chemistry Institute (TPCI), National Hellenic Research Foundation (NHRF), Athens, Greece.

5. EXPERIENCE & MAIN RESEARCH INTERESTS

- Laser-assisted synthesis and characterization of composite glasses and perovskites for advanced photonic and photovoltaic applications.
- Time-resolved femtosecond Transient Absorption Spectroscopy - Charge dynamics and relaxation phenomena in photovoltaic, thermoelectric, and optoelectronic materials.
- Non-linear optical properties of oxide glasses and crystals.
- Growth of glassy and crystalline materials inside photonic crystal fibers (PCFs), towards sensing, switching, opto-fluidic and photonic bandgap applications.
- Structure-properties correlation of inorganic oxide glasses.
- Physical chemistry of glasses and polymers - Ion transport and conductivity mechanisms.
- Investigation of ion dynamics in glasses and polymers - Impedance spectroscopy (IS) under Variable Pressure - Variable Temperature (VPVT) conditions.
- Thermal and mechanical properties of glasses and polymers (DSC, DTA, TGA).

6. EXTERNAL FUNDING

- 11/2019: **InComEss**, H2020, LC-NMBP-32-2019, “Innovative polymer-based composite systems for high-efficient energy scavenging and storage”, 42 months, 258K €.
- 11/2019: **LASERGRAPH**, FLAG-ERA ERA-net, “In-situ laser fabrication of graphene electrodes and interlayers for next generation CIGS/Perovskite solar cells”, 36 months, 250K €.
- 12/2013: State Scholarships Foundation (IKY), “Development of optical materials inside photonic bandgap optical fibers for advanced sensing applications”, 24 months, 39K €.

7. TEACHING ACTIVITIES

- 9/2011-9/2017: Part-time Lecturer, undergraduate course: “Science of Ceramic Materials”, Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece.
- 11/2015-7/2016: Part-time Lecturer, foundation courses: “Inorganic and Physical Chemistry” and “Organic Chemistry”, MBS College of Crete, Heraklion, Crete, Greece.
- 10/2012-6/2013: Part-time Laboratory Assistant, undergraduate laboratory courses: “Soft Matter” and “Solid State Materials”, Department of Materials Science and Technology, University of Crete, Heraklion, Crete, Greece.
- 9/2002-5/2006: Laboratory Demonstrator, undergraduate laboratory courses: “General Chemistry level 1” and “Physical Chemistry level 2”, Department of Chemistry, University of Aberdeen, UK.

8. PROFESSIONAL AFFILIATIONS

- Reviewer in several international scientific journals.
- “Certificate of Outstanding Contribution in Reviewing”, Journal of Non-Crystalline Solids, Elsevier, 3/2018.
- Member of the following scientific Societies: Optical Society of America (OSA), Greek Chemical Society, Royal Society of Chemistry (RSC) from 2003 to 2006.

9. ANNOUNCEMENTS IN INTERNATIONAL CONFERENCES

(* denotes the presenter)

- **Society of Glass Technology Conference, Birmingham, United Kingdom (4/2003).**
Oral: “Variable-Pressure Variable-Temperature ionic conductivities in sodium aluminoborate glasses”, I. Konidakis*, C.T. Imrie and M.D. Ingram.
- **7th ESG Conference of Glass Science and Technology, Yalos 2004, Athens, Greece (4/2004).**
Poster: “Activation volumes and ion-coupling mechanisms in mixed-cation glasses”, I. Konidakis*, C.T. Imrie and M.D. Ingram.
- **Ionic and Electronic Properties of Solids, Dalton Discussion 7, University of St Andrews, United Kingdom (7/2004).**
Oral: “What Variable-Pressure Variable-Temperature measurements are telling us about ion transport in glass”, C.T. Imrie, I. Konidakis and M.D. Ingram*.

- **11th International Conference on the Structure of Non-Crystalline Materials, NCM-11, Paris, France (6/2010).**
Poster: “Effect of synthesis method on the structure and properties of fast ion conducting glasses”, I. Konidakis*, C.P.E. Varsamis and E.I. Kamitsos.
- **Photonics Europe 2012, SPIE, Brussels, Belgium (4/2012).**
Oral: “Photonic bandgap guiding into a composite AgPO₃-glass/silica microstructured optical fibre”, I. Konidakis, G. Zito and S. Pissadakis*.
- **Specialty Optical fibers, SOF-OSA 2012, Colorado, United States (6/2012).**
Oral: “Photosensitive all-glass AgPO₃/silica photonic bandgap fibre”, G. Zito, I. Konidakis and S. Pissadakis*.
- **4th International Symposium on Transparent Conductive Materials, TCM-2012, Hersonissos, Crete, Greece (10/2012).**
Oral: “Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres”, I. Konidakis*, M. Androulidaki, G. Zito and S. Pissadakis.
- **15th International Conference on Transparent Optical Networks, ICTON-2013, Cartagena, Spain (6/2013).**
Invited oral: “Electric field induced polarization effects in AgPO₃/silica photonic bandgap fiber”, I. Konidakis* and S. Pissadakis.
- **23rd International Congress on Glass, ICG-2013, Prague, Czech Republic (7/2013).**
Poster: “Contamination of phosphate glasses prepared from melts in alumina crucibles”, I. Konidakis, D. Palles*, C.P.E. Varsamis and E.I. Kamitsos.
- **Photonics West 2014, SPIE, San Francisco, United States (2/2014).**
Invited oral: “Materials growth and processing in the capillaries of photonic crystal fibres: towards the lab-in-a-fibre protocol”, I. Konidakis, M. Konstantaki and S. Pissadakis*.
- **Bragg Gratings, Photosensitivity and Poling in Glass Waveguides, BGPP-2014, Barcelona, Spain (7/2014).**
Oral: “Enhancement of plasmonic properties of an all-glass AgPO₃/silica photonic bandgap fiber using thermal poling”, I. Konidakis* and S. Pissadakis.
Post-deadline oral: “All-optical optofluidic switching in a ZnO-overlaid microstructured optical fiber”, I. Konidakis*, M. Konstantaki, K. Kosma and S. Pissadakis.
- **5th International Symposium on Transparent Conductive Materials, TCM-2014, Platani-Chania, Crete, Greece (10/2014).**

Oral: “An optical optofluidic switch developed in a ZnO-overlaid microstructured optical fiber”, I. Konidakis, M. Konstantaki, K. Kosma and S. Pissadakis*.

- **Photonics West 2015, SPIE, San Francisco, United States (2/2015).**

Oral: “Fiber endface Fabry-Perot vapor microsensors fabricated by multiphoton polymerization technique”, V. Melissinaki*, I. Konidakis, M. Farsari and S. Pissadakis.

- **3rd EOS Conference on Optofluidics, EOSOF-2015, Munich, Germany (6/2015).**

Oral: “A light-controlled optofluidic switch using ZnO as actuating material”, I. Konidakis*, M. Konstantaki and S. Pissadakis.

- **2nd Israel-Greece Joint Meeting on Nanotechnology and BioNanoscience, Heraklion, Crete, Greece (10/2016).**

Poster: “Organic- and all inorganic- lead halide perovskites: from material synthesis to advanced photovoltaic applications”, I. Konidakis*, A. Kostopoulou*, G. Kakavelakis, T. Maksudov, E. Kymakis and E. Stratakis.

- **Merging Micro- and Nano-Optics: 3D Printing for Advanced and Functional Optics, Bad Honnef, Bonn, Germany (1/2017).**

Poster: “Fiber endface Fabry-Perot microsensors for gaseous and liquid species fabricated by multiphoton polymerization technique”, V. Melissinaki*, I. Konidakis, M. Farsari and S. Pissadakis.

- **Bragg Gratings, Photosensitivity and Poling in Glass Waveguides & Materials, BGPP-2018, Zurich, Switzerland (7/2018).**

Oral: “Toward bioresorbable photosensitive fibers for theranostics”, M. Konstantaki, S. Pissadakis, D. Pugliese, E. Ceci-Ginistrelli, N.G. Boetti, D. Milanese, I. Konidakis and D. Janner*.

- **11th International Symposium on Flexible Organic Electronics, ISFOE-2018, Thessaloniki, Greece (7/2018).**

Poster: “Charge carrier dynamics in perovskite solar cells probed by femtosecond transient absorption spectroscopy”, E. Serpetzoglou*, I. Konidakis, T. Maksudov, A. Panagiotopoulos, G. Kakavelakis, E. Kymakis and E. Stratakis.

- **1st International Conference on Nanotechnologies and Bionanoscience, NanoBio-2018, Heraklion, Greece (9/2018).**

Oral: “Improved charge carrier dynamics of CH₃NH₃PbI₃ perovskite films probed by femtosecond transient absorption spectroscopy”, I. Konidakis*, E. Serpetzoglou, T. Maksudov, G. Kakavelakis, E. Kymakis and E. Stratakis.

- **7th International Symposium on Transparent Conductive Materials, TCM-2018, Platanias-Chania, Crete, Greece (10/2018).**

Oral: “Charge carrier transport dynamics in perovskite solar cells by means of transient absorption spectroscopy”, E. Serpetzoglou*, I. Konidakis, T. Maksudov, G. Kakavelakis, A. Panagiotopoulos, E. Kymakis and E. Stratakis.

- **28th International Conference on Nanoscience and Nanotechnology, Nanoscience-2018, Barcelona, Spain (11/2018).**

Keynote oral: “Composite glasses and perovskites for advanced photovoltaic and photonic applications”, I. Konidakis* and E. Stratakis.

10. PAPERS IN REFEREED JOURNALS

1. “Significance of activation volumes for cation transport in glassy electrolytes”, M.D. Ingram, C.T. Imrie, I. Konidakis and S. Voss, *Phys. Chem. Chem. Phys.* **6**, 3659 (2004).
2. “What variable-pressure variable-temperature measurements are telling us about ion transport in glass”, C.T. Imrie, I. Konidakis and M.D. Ingram, *Dalton Trans.*, 3067 (2004).
3. “A mechanistic approach to conductivity relaxation in ionic glasses”, M.D. Ingram, R.D. Banhatti and I. Konidakis, *Z. Phys. Chem.* **218**, 1401 (2004).
4. “Pressure dependence of the ionic conductivity of Na- and Na-Rb borate glasses”, A.W. Imre, S. Voss, F. Berkemeier, H. Mehrer, I. Konidakis and M.D. Ingram, *Solid State Ionics* **177**, 963 (2006).
5. “Activation volumes and site relaxation in mixed alkali glasses”, M.D. Ingram, C.T. Imrie and I. Konidakis, *J. Non-Cryst. Solids* **352**, 3200 (2006).
6. “Structure and properties of mixed strontium-manganese metaphosphate glasses”, I. Konidakis, C.P.E. Varsamis, E.I. Kamitsos, D. Moncke and D. Ehrt, *J. Phys. Chem. C* **114**, 9125 (2010).

7. "Effect of synthesis method on the structure and properties of AgPO₃-based glasses", I. Konidakis, C.P.E. Varsamis and E.I. Kamitsos, *J. Non-Cryst. Solids* **357**, 2684 (2011).
8. "Photosensitive, all-glass AgPO₃/silica photonic bandgap fiber", I. Konidakis, G. Zito and S. Pissadakis, *Opt. Lett.* **37**, 2499 (2012).
9. "Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres", I. Konidakis, M. Androulidaki, G. Zito and S. Pissadakis, *Thin Solid Films* **555**, 76 (2014).
10. "Silver plasmon resonance effects in AgPO₃/silica photonic bandgap fiber", I. Konidakis, G. Zito and S. Pissadakis, *Opt. Lett.* **39**, 3374 (2014).
11. "Optical spectra tuning of all-glass photonic bandgap fiber infiltrated with silver fast-ion-conducting glasses", I. Konidakis and S. Pissadakis, *Materials* **7**, 5735 (2014).
12. "Photorefractive tuning of whispering gallery modes of a spherical resonator integrated inside a microstructured optical fibre", K. Kosma, I. Konidakis and S. Pissadakis, *Eur. Phys. J. Spec. Top.* **223**, 2035 (2014).
13. "Light driven optofluidic switch developed in a ZnO-overlaid microstructured optical fiber", I. Konidakis, M. Konstantaki, G.D. Tsibidis and S. Pissadakis, *Opt. Express* **23**, 31496 (2015).
14. "Vibrational spectroscopic and bond valence study of structure and bonding in Al₂O₃-containing AgI-AgPO₃ glasses", D. Palles, I. Konidakis, C.P.E. Varsamis and E.I. Kamitsos, *RSC Adv.* **6**, 16697 (2016).
15. "Silver iodide phosphate glass microsphere resonator integrated on an optical fiber taper", K. Milenko, I. Konidakis and S. Pissadakis, *Opt. Lett.* **41**, 2185 (2016).
16. "Fiber endface Fabry-Perot microsensors with distinct response to vapors of different chlorinated organic solvents", V. Melissinaki, I. Konidakis, M. Farsari and S. Pissadakis, *IEEE Sens. J.* **16**, 7094 (2016).

17. “The role of chemical structure in indacenodithienothiophene-*alt*-benzothiadiazole copolymers for high performance organic solar cells with improved photo-stability through minimization of burn-in loss”, C.L. Chochos, N. Leclerc, N. Gasparini, N. Zimmerman, E. Tatsi, A. Katsouras, D. Moschovas, E. Serpetzoglou, I. Konidakis, S. Fall, P. Leveque, T. Heiser, M. Spanos, V.G. Gregoriou, E. Stratakis, T. Ameri, C.J. Brabec and A. Avgeropoulos, *J. Mater. Chem. A* **5**, 25064 (2017).
18. “Improved carrier transport in perovskite solar cells probed by femtosecond transient absorption spectroscopy”, E. Serpetzoglou, I. Konidakis, G. Kakavelakis, T. Maksudov, E. Kymakis and E. Stratakis, *ACS Appl. Mater. Interfaces* **9**, 43910 (2017).
19. “Effect of composition and temperature on the second harmonic generation in silver phosphate glasses”, I. Konidakis, S. Psilodimitrakopoulos, K. Kosma, A. Lemonis and E. Stratakis, *Opt. Mater.* **75**, 796 (2018).
20. “Bioresorbable optical fiber Bragg gratings”, D. Pugliese, M. Konstantaki, I. Konidakis, E. Ceci-Ginistrelli, N.G. Boetti, D. Milanese and S. Pissadakis, *Opt. Lett.* **43**, 671 (2018).
21. “Enhancement of the power-conversion efficiency of organic solar cells via unveiling an appropriate rational design strategy in indacenodithiophene-*alt*-quinoxaline π -conjugated polymers”, C.L. Chochos, R. Singh, V.G. Gregoriou, M. Kim, A. Katsouras, E. Serpetzoglou, I. Konidakis, E. Stratakis, K. Cho and A. Avgeropoulos, *ACS Appl. Mater. Interfaces* **10**, 10236 (2018).
22. “ α,β -Unsubstituted meso-positioning thienyl BODIPY: a promising electron deficient building block for the development of near infrared (NIR) p-type donor-acceptor (D-A) conjugated polymers”, B.M. Squeo, V.G. Gregoriou, Y. Han, A. Palma-Cando, S. Allard, E. Serpetzoglou, I. Konidakis, E. Stratakis, A. Avgeropoulos, T.D. Anthopoulos, M. Heeney, U. Scherf and C.L. Chochos, *J. Mater. Chem. C* **6**, 4030 (2018).
23. “Improved charge carrier dynamics of $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite films synthesized by means of laser-assisted crystallization”, I. Konidakis, T. Maksudov, E. Serpetzoglou, G. Kakavelakis, E. Kymakis and E. Stratakis, *ACS Appl. Energy Mater.* **1**, 5101 (2018).

24. “Erasable and rewritable laser-induced gratings on silver phosphate glass”, I. Konidakis, E. Skoulas, A. Papadopoulos, E. Serpetzoglou, E. Margariti and E. Stratakis, *Appl. Phys. A* **124**, 839 (2018).
25. “Limitations of a polymer-based hole transporting layer for application in planar inverted perovskite solar cells”, M. Petrovic, T. Maksudov, A. Panagiotopoulos, E. Serpetzoglou, I. Konidakis, M.M. Stylianakis, E. Stratakis and E. Kymakis, *Nanoscale Adv.* **1**, 3107 (2019).
26. “*In situ* monitoring of the charge carrier dynamics of CH₃NH₃PbI₃ perovskite crystallization process”, E. Serpetzoglou, I. Konidakis, T. Maksudov, A. Panagiotopoulos, E. Kymakis and E. Stratakis, *J. Mater. Chem. C* **7**, 12170 (2019).
27. “Nitrogen-doped carbon nanotube/polypropylene composites with negative Seebeck coefficient”, B. Krause, I. Konidakis, M. Arjmand, U. Sandararaj, R. Fuge, M. Liebscher, S. Hampel, M. Klaus, E. Serpetzoglou, E. Stratakis and P. Pötschke, *J. Compos. Sci.* **4**, 14 (2020).
28. “Highly luminescent and ultrastable cesium lead bromide perovskite patterns generated in phosphate glass matrices”, I. Konidakis, K. Brintakis, A. Kostopoulou, I. Demeridou, P. Kavatzikidou and E. Stratakis, *Nanoscale* **12**, 13697 (2020).
29. “Robust B-exciton emission at room temperature in few-layers of MoS₂:Ag nanoheterojunctions embedded into a glass matrix”, A.S. Salam, I. Konidakis, I. Demeridou, E. Serpetzoglou, G. Kioseoglou and E. Stratakis, *Sci. Rep.* **10**, 15697 (2020).

11. PAPERS IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

1. “Photonic bandgap guiding into a composite AgPO₃-glass/silica microstructured optical fibre”, I. Konidakis, G. Zito and S. Pissadakis, *Photonics Europe 2012*, Brussels, Belgium, *Proc. SPIE* **8426**, 842607 (2012).
2. “All-glass AgPO₃/silica photonic band-gap fibre”, G. Zito, I. Konidakis and S. Pissadakis, *Specialty Optical Fibers-OSA 2012*, Colorado, United States, *SM3E.6* (2012).

3. Invited: “Electric field induced polarization effects in AgPO₃/silica photonic bandgap fiber”, I. Konidakis and S. Pissadakis, 15th International Conference on Transparent Optical Networks, ICTON-2013, Cartagena, Spain, We.B6.6 (2013).
4. Invited: “Materials growth and processing in the capillaries of photonic crystal fibres: towards the lab-in-a-fibre protocol”, I. Konidakis, M. Konstantaki and S. Pissadakis, Photonics West 2014, San Francisco, United States, Proc. SPIE **8982**, 89820C (2014).
5. “Enhancement of plasmonic properties of an all-glass AgPO₃/silica photonic bandgap fibre using thermal poling”, I. Konidakis and S. Pissadakis, Bragg Gratings, Photosensitivity and Poling in Glass Waveguides, BGPP-2014, Barcelona, Spain, JTU2C.4 (2014).
6. Post-deadline: “All-optical optofluidic switching in a ZnO-overlaid microstructured optical fiber”, I. Konidakis, M. Konstantaki, K. Kosma and S. Pissadakis, Bragg Gratings, Photosensitivity and Poling in Glass Waveguides, BGPP-2014, Barcelona, Spain, JTU6A.2 (2014).
7. “Fiber endface Fabry-Perot vapor microsensors fabricated by multiphoton polymerization technique”, V. Melissinaki, I. Konidakis, M. Farsari and S. Pissadakis, Photonics West 2015, San Francisco, United States, Proc. SPIE **9374**, 93740D (2015).
8. Invited: “All glass photonic bandgap fibers and fiber-tapers infiltrated with silver fast-ion-conducting glasses”, I. Konidakis and S. Pissadakis, 17th International Conference on Transparent Optical Networks, ICTON-2015, Budapest, Hungary, We.A5.2 (2015).
9. “Toward bioresorbable photosensitive fibers for theranostics”, M. Konstantaki, S. Pissadakis, D. Pugliese, E. Ceci-Ginistrelli, N.G. Boetti, D. Milanese, I. Konidakis and D. Janner, Bragg Gratings, Photosensitivity and Poling in Glass Waveguides & Materials, BGPP-2018, Zurich, Switzerland, BTU4A.4 (2018).

12. CHAPTERS IN BOOKS

1. “Molten glass-infiltrated photonic crystal fibers”, I. Konidakis, in *Optofluidics, Sensors and Actuators in Microstructured Optical Fibers*, S. Pissadakis and S. Selleri (Eds.),

Woodhead Publishing, Cambridge, UK, 2015, Chapter 5, pp. 111-136, ISBN: 978-1-78242-329-4.

13. REFERENCES

- Dr. E. Stratakis, Director of Research, Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), P.O. Box 1385, 71110 Heraklion, Crete, Greece. (Supervisor of current IESL research appointment)
e-mail: stratak@iesl.forth.gr, tel.: +30-2810-391274.
- Dr. S. Pissadakis, Director of Research, Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), P.O. Box 1385, 71110 Heraklion, Crete, Greece. (Supervisor of first IESL research appointment)
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- Prof. C. Fotakis, former President of the Foundation for Research and Technology-Hellas (FORTH), and former Director of the Institute of Electronic Structure and Laser (IESL), P.O. Box 1385, 71110 Heraklion, Crete, Greece.
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- Dr. E.I. Kamitsos, Director of Theoretical and Physical Chemistry Institute (TPCI), National Hellenic Research Foundation (NHRF), 48 Vassileos Constantinou Ave., 11635 Athens, Greece. (Supervisor of NHRF research appointment)
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- Prof. G. Kioseoglou, Department of Materials Science and Technology, University of Crete, P.O. Box 2208, 71003 Heraklion, Crete, Greece.
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- Prof. D. Vlassopoulos, former Head of Department, Department of Materials Science and Technology, University of Crete, P.O. Box 2208, 71003 Heraklion, Crete, Greece.
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- Emeritus Prof. M.D. Ingram, former Head of Chemistry Department, The School of Natural and Computing Sciences, University of Aberdeen, Meston Building, Meston Walk, AB24 3UE Aberdeen, Scotland, UK. (Ph.D. Thesis Supervisor)
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