

Hot Topics in Thermal Analysis and Calorimetry 10

Imre Miklós Szilágyi
György Liptay *Editors*

Who is Who in Thermal Analysis and Calorimetry

 Springer

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Hot Topics in Thermal Analysis and Calorimetry

Volume 10

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Judit Simon, Budapest, Hungary

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Imre Miklós Szilágyi · György Liptay
Editors

Who is Who in Thermal Analysis and Calorimetry

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Foreword

If I easily agreed to preface this second edition of the “Who is Who in Thermal Analysis and Calorimetry”, it was essentially because I consider it as a valuable tool at the service of our community. Ten years ago indeed, when Dr. Judit Simon and Prof. György Liptay’s had the idea of the first edition, I must confess that I had no precise idea of its possible usefulness; but this is not any more the case since I experienced a number of situations when one could draw a real benefit from such a book:

- If you are a conference organizer (which necessarily happens for a few of us and is always a more demanding job than expected!) you find the book helpful for the selection of invited lecturers.
- Also, when you are chairing a session and want to introduce a lecturer warmly and properly, the corresponding page of the Who is Who provides you with all the desired material; and, as we know, introducing a lecturer nicely makes him feel better and allows him to deliver his lecture with more pleasure ... not only for him but also for the audience!
- When you receive a request or proposal from a member of our community whom you still do not know much, having a look at his picture and page makes the contact more friendly and adequate.
- If you happen to set up a Committee or Working Group and wish it to be truly international (like in ICTAC), this book makes it easier to involve people from other countries and continents; the same if you wish to start any other type of international collaboration.
- In the more common case when you simply have a glance at the whole book, it favors your acquaintance of scientists whom you may have heard about or even already met: this allows to know each other better and develop tighter links.
- All this tends to build up a family spirit in our community and make the work in our area more enjoyable.

All reasons of interest above apply of course to the new edition, whose justification is the normal renewal of our vivid community, since about two-thirds of the scientists listed here were not in the previous edition!

I also wish to stress that the two Editors of this second edition are themselves full members of our Thermal Analysis and Calorimetry community: Prof. Gyorgy Liptay as the Editor of an original and well-known Atlas of Thermoanalytical Curves in five volumes, as the organizer of the seventh ESTAC Symposium (in Balatonfüred 1998) and as the recipient of the ICTAC Distinguished Service Award in 2008. Dr. Imre Miklós Szilágyi, as the recipient of the ICTAC—PerkinElmer Young Scientist Award in 2008 and, more recently, as the Editor of one of the two main journals devoted to our field of science.

Finally, the scientists appearing in this Who is Who are entitled to have two prides: that, well-deserved, of having been selected for publication of their picture and CV, but also that of being members of a vivid community for whom this book will be a helpful tool.

I therefore wish to thank the Editors for their initiative and for the nice work done, and to encourage the readers to keep the book in a good place for easy access in their office!

Prof. Dr. Jean Rouquerol
(ICTAC President 2000–2006)

Preface

The success of the first “Who is Who in Thermal Analysis and Calorimetry” book (2004) encouraged us that after a decade we publish a broadened, second edition. After the pioneers of thermal analysis, now the second generation of thermal analysts is about to retire. Sadly, some of the previous outstanding scientists have passed away. Parallely, in the recent decade a great deal of young researchers have joined thermal analysis. In addition, there has been a large change in the publication and scientometric trends, and the research infrastructure and data evaluation have also developed continuously.

The broadening of thermal analysis is clearly marked by that while in the first edition ca. 240 researchers were presented, now ca. 340 of them are featured in the present, second edition. 60–70 % of the people presented in the book are new names, compared to the first edition, which clearly shows the generation change in thermal analysis. The distribution of scientists from the various countries has also changed.

The selection of the candidates was based on the outstanding publication activity in thermal analysis, professional activity, awards, etc. To find suitable candidates for the book, the authors have consulted the regional and associate editors of the Journal of Thermal Analysis and Calorimetry and several other well-known scientists in thermal analysis. Their contribution is highly appreciated and acknowledged: S.R. Bharadwaj, J. Blumm, G. Bruni, P. Budrugaec, É.T.G. Cavalheiro, E.L. Charsley, V.A. Drebushchak, J. Dweck, M. Feist, E. Füglein, C. Giancola, K. Györiová, J. Hanss, W.B. Hu, M. Jemal, L. Judovits, T. Kaljuvee, M.F. Kotkata, M.V. Kök, M. Lalia-Kantouri, V.P. Lehto, M. Liška, V. Logvinenko, D.M. Lőrinczy, B.V. L’vov, T.M.R. Maria, A. Małeckki, J.D. Menczel, A. Michnik, S.C. Mojumdar, C.G. Mothé, R. Ozao, B. Pacewska, L.A. Pérez-Maqueda, A. Rotaru, J. Rouquerol, P. Šimon, P. Šulcová, J.J. Sunol, P.J. van Ekeren, S. Vecchio Cipriotti, S. Yariv, Z.W. Yu, M.I. Zaki. The help of D. Hunyadi in arranging parts of the manuscript is acknowledged.

We would like to commemorate those who passed away in the last decade, and who were key players in the development of the theory, instrumentation, and application of thermal analysis in various fields: Z. Adonyi (Hungary), T. Atake

(Japan), D. Fatu (Romania), B. Małecka (Poland), M. Ollivon (France), T. Ozawa (Japan), F. Paulik (Hungary), M.J. Richardson (UK), E. Segal (Romania), O.T. Sørensen (Denmark), E.T. Stepkowska (Poland), H.G. Wiedemann (Switzerland), B. Wunderlich (USA), W. Zielenkiewicz (Poland).

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Deputy editor-in-chief

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Researcher Profiles

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and Calorimetry*, Hot Topics in Thermal Analysis and Calorimetry 10,
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Education and scientific degrees: Ph.D. in Chemical Engineering—Faculty of Engineering—University of Cairo—1976

Workplaces: The Chemical Engineering Department—Faculty of Engineering—University of Cairo—Giza—

Egypt (1976-to date); The American University in Cairo (1981–1991)

Main fields of interest: kinetics of solid state reactions, phase equilibrium diagrams of ceramic systems

Relevant categories in thermal analyses: fields (ceramics, nano); methods (DTA, TGA, DTG)

Awards and acknowledgments: Cairo University award for the highest I.F. publication (5.1)—Faculty of Engineering (2012)

Professional activities: Head of the Chemical engineering Department, University of Cairo 2005–2008; Member of the advisory board of the 12th International Ceramics Congress—Grosseto—Italy—June 2010

Publication record: papers (84), books (2), citations (270), h-index (9), sum of impact factors (56)

Equipments: Thermal analyzer (Shimadzu)

5 most important publications: [1] Kinetics of oxidation of Cr_3B_4 cemented by different metallic binders (part 1), *ThermoChimica Acta*, 1991, 180, 269; [2] The effect of magnesium chloride on the fire retardation of cellulosic fibers, *Journal of Thermal analysis and Calorimetry*, 2001, 63, 831; [3] The use of thermal analysis in the approximate determination of the cement content in concrete, *Journal of Thermal Analysis and Calorimetry*, 2004, 76(3), 713; [4] Catalytic oxidation of CO gas over nanocrystallite $\text{Cu}_x\text{Mn}_{1-x}\text{Fe}_2\text{O}_4$, *Topics in Catalysis*, 2008, 47, 66; [5] Novel CdPdS/PVAc core-shell nanofibers as an effective photocatalyst for organic pollutants degradation, *Journal of Molecular Catalysis, A* 2012, 363–364, 186.



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Date and place of birth: 1942, Catania, Italy

Present position and address: Retired from the University of Catania in the position of full Professor. Address: DII Department, University of Catania, Building 10, Viale A. Doria, 6, 95125 Catania (Italy)

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Education and scientific degrees: Laurea degree in Industrial Chemistry (1966); Associate professor of Chemistry (1985); Full professor (2001) all at the University of Catania

Workplaces: Department of Chemical Sciences, University of Catania; Department of Physical and Chemical Methodologies for Engineering, University of Catania

Main fields of interest: synthesis by solid–solid interactions and thermal decomposition of complexes between inorganic compounds and organic ligands; thermodynamics of model molecules; kinetics of the thermal degradation of polymers and nanocomposites

Relevant categories in thermal analyses: fields (complexes, organic, polymers, nano); methods (DSC, TG, DTA, calorimetry, molar heat capacity, kinetics of degradation)

Professional activities: Referee of J. Therm. Anal. Calorim., Polym. Degrad. Stab., Thermochim. Acta and other Journals; member of organizing committees of several Meetings and Conferences; Honorary Board Member of Journal of Thermal Analysis and Calorimetry

Publication record: papers (83)

Equipments: Mettler DSC 20, DSC 30 and TG; Shimadzu DSC 60 and DTG 60

5 most important publications: [1] L. Abate, G. Della Gatta, G. Somsen: Heat capacities of sixteen small peptides (N-acetyl-N'-methylamino acid amides) measured by differential scanning calorimetry, *Thermochim Acta*, 239 (1994) 7; [2] L. Abate, S. Calanna, A. Pollicino, A. Recca: Thermal behaviour of some polyaryleneethers: a comparative study of the kinetics of degradation, *Macromol. Chem. Phys.* 198 (1997) 1437; [3] L. Abate, I. Blanco, O. Motta, A. Pollicino, A. Recca: The isothermal degradation of some polyetherketones: a comparative kinetic study between long-term and short-term experiments, *Polym. Degrad. Stab.* 75 (2002) 465; [4] I. Blanco, L. Abate, F. A. Bottino, P. Bottino, M. A. Chiacchio: Thermal degradation of differently substituted Cyclopentyl Polyhedral Oligomeric Silsesquioxane (CP-POSS) nanoparticles, *J. Therm. Anal. Calorim.* 107(3) (2012) 1083; [5] I. Blanco, L. Abate, M. L. Antonelli, F. A. Bottino: The regression of isothermal thermogravimetric data to evaluate degradation E_a values of polymers: a comparison with literature methods and an evaluation of lifetime predictions reliability. Part II, *Polym. Degrad. Stab.* 98 (11) (2013) 2291.



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Present position and address: Faculté des Sciences, Département de Chimie, Université Badji Mokhtar, Sidi-Amar, Annaba (23200), Algeria

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Education and scientific degrees: B.S.: Université d'Annaba, Algeria, 1983; Master of Science: University of Maryland at College Park, USA, 1986; Ph.D.: University of Maryland at College Park, USA, 1991; Master Professional: Université Louis Pasteur, Strasbourg, France 2007

Workplaces: Université d'Annaba, Algeria; Science Expert

Main fields of interest: modeling thermodynamic properties of fluids, ionic liquids; specific heat, calorimetry

Professional activities: Advisor, Reviewer, Expert (FP7-MARie Curie Action program), editorial memberships for several journals

Publication record: papers (30), books (1), h-index (04), sum of impact factors (12.60)

5 most important publications: [1] Z.Y. Chen, A. Abbaci, S. Tang and J.V. Sengers, *Phys. Rev. A* 42, 4470, 1990; [2] A. Rizi and A. Abbaci, *J. Mol. Liq.*, 64–70, 2012; [3] A. Abbaci and A. Rizi, I. M. Abdulagatov, *Thermochimica Acta*, vol. 567, pp. 65–72, 2013; [4] A. Acidi, M. Hasib-ur-Rahman, F. Larachi, A. Abbaci, *Korean J. Chem. Eng.*, 31(6), 1043–1048, 2014; [5] Utilisation des technologies de l'information et de la communication dans l'enseignement et la formation [texte imprimé]/Alger: OPU, 2010. 111p; 24*17, ISBN 9961013519.



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Education and scientific degrees: B.S., Chemistry, University of Valladolid, 1977; M.S., Chemistry, University of Valladolid, 1978; Ph.D., Chemistry, University of Madrid, 1981

Workplaces: Research scientist, DOW Chemical Europe, Spain and at the Institute of Molecular Biophysics, Florida State University, USA.; Professor at the FAMU-FSU College of Engineering, Tallahassee, Florida, USA

Main fields of interest: polymer characterization, polymer crystallization, physical properties of macromolecules, structure-properties relations of polymers, morphology of crystalline polymers

Relevant categories in thermal analyses: fields (phase transitions of polymers, kinetics, crystallization of polymers); methods (DSC, DMA, TGA, dilatometry)

Awards and acknowledgments: NATAS Award for Outstanding Achievement (Mettler-Toledo) Award (2009), American Physical Society Fellow (2012), Distinguished Research Professor, FSU (2013), Professional Development Award, FAMU-FSU College of Engineering (2000, 2005, 2008)

Publication record: papers (125), books/book chapters (15), patents (5), h-index (35)

5 most important publications: [1] Alamo, RG et al. "Thermodynamic and Structural Properties of Copolymers of Ethylene" *J. Phys. Chem.*, 88, 6587–6595, 1984; [2] Alamo, R. G., et al. "Morphological partitioning of ethylene defects in random propylene-ethylene copolymers" *Macromolecules*, 33, 6094–6105, 2000; [3] Hosier, I. L., Alamo, R. G., et al. "Formation of the alpha and gamma polymorphs in random metallocene-propylene copolymers. Effect of concentration and type of comonomer" *Macromolecules*, 36, 5623–5636, 2003; [4] Jeon, K. Alamo, R. G., et al. "Low electrical conductivity threshold and crystalline morphology of single-walled carbon nanotubes—high density polyethylene nanocomposites characterized by SEM, Raman spectroscopy and AFM" *Polymer*, 48, 4751–4764, 2007; [5] Alamo, R. G., et al. "Crystallization of Polyethylenes Containing Chlorines: Precise vs. Random Placement:" *Macromolecules*, 41, 7141–7151, 2008.



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Date and place of birth: 1949, Brasov, Romania

Present position and address: 1st degree senior scientist, Atomistilor street 105 bis, Magurele 077125, Ilfov, Romania (work place)

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Researcher ID/ORCID: C-2165-2011/0000-0002-3131-7698

Education and scientific degrees: Bucharest University, Faculty of Physics (1967–1972), Ph.D. (1997)

Workplaces: National Institute of Materials Physics (NIMP), Magnetism and Superconductivity Laboratory (1976-to date)

Main fields of interest: superconductivity, thermal analysis, spark plasma sintering

Relevant categories in thermal analyses: fields (inorganic, materials, nano, minerals, complex, organic, polymer, glass, ceramics); methods (TG, DTA, DSC, kinetics, cryo, extremely high temperature (above 1,000 °C) specific heat, mass spectrometry)

Awards and acknowledgments: Romanian Academy Award for Physics—"Constantin Miculescu"—1989; Certificate de apperceive, World Congress on Superconductivity, 1992

Professional activities: Head of Thermal Analysis Center (2004-to date); member of National Organizing Committee of CEEC-TAC1/2011

Publication record: papers (149), books (2), patents (4), citation (467), h-index (11), sum of impact factors (134)

Equipments: TGA-DSC Setaram Sestys Evolution+QMS 200, Netzsch DSC Apparatus DSC 204 F1+LN2 cooling CC200F1, Diamond TG-DTA PerkinElmer Instruments

5 most important publications: [1] G. Aldica, S. Popa, M. Enculescu, P. Badica, Scripta Materialia 68(6), (2013) 428; [2] G. Aldica, S. Polosan, J. Non-Crystalline Solids 358 (2012) 1221; [3] G. Aldica, M. Secu, J. Non-Crystalline Solids 356 (2010) 1631; [4] P. Badica, G. Aldica, A. Crisan, J. Mater. Sci. 37 (2002) 585; [5] S. Mihaiu, S. Scarlat, G. Aldica, M. Zaharescu, J. European Ceram. Soc. 21(10–11) (2001) 1801.



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Education and scientific degrees: Bachelor in Chemistry, Federal University of Rio Grande do Norte (1983–1986); Master in Chemistry, Federal University of Paraiba (1986–1988); Doctor in Science, Institute of Chemistry—University

of Sao Paulo (1989–1992); Post-Doctoral: Kent State University, Ohio, USA (1998–1999).

Workplaces: Petrochemical Pole of Camacari, BA, Brazil (1988–1989); Titular Professor at Federal University of Rio Grande do Norte (1992–actual)

Main fields of interest: hydrothermal synthesis of microporous, mesoporous and hybrid materials; nanostructured materials; adsorption and catalysis; characterization of heterogeneous catalyst; petroleum and petrochemistry

Relevant categories in thermal analyses: fields (inorganic, materials, nanoscience and nanotechnology); methods (TG, DTA, DSC, kinetics)

Awards and acknowledgments: Fellow of Research Productivity of the Brazilian Council of Science and Technology (1993–actual); Honorary membership of the Thermoanalytical Group of the Hungarian Chemical Society (2007, 2010); Member of the International Advisory Committee of International Symposium on Nanoporous Materials (2011, 2014)

Professional activities: Membership of the Brazilian Association of Thermal Analysis and Calorimetry; Brazilian Society of Catalysis; organizing committee of national and regional meetings of catalysis, thermal analysis and adsorption

Publication record: papers (122), books (1), patents (3), citations (1260), h-index (18)

Equipments: SDTA 851 Mettler; STD Q600 TA (TG-DTA), PDSC 204 (High Pressure) Netsch.

5 most important publications: [1] Morgado, E., de Abreu, M. A. S., Pravia, O. R. C., Marinkovic, B. A., Jardim, P. M., Rizzo, F. C., Araujo, A. S., A study on the structure and thermal stability of titanate nanotubes as a function of sodium content. *Solid State Science*, 8 (2006) 888–900; [2] Morgado, E., de Abreu, M. A. S., Moure, G. T., Marinkovic, B. A., Jardim, P. M., Araujo, A. S., Characterization of nanostructured titanates obtained by alkali treatment of TiO₂-anatases with distinct crystal sizes, *Chemistry of Materials*, 19 (2007) 665–676; [3] Polli, H., Pontes, L. A. M., Araujo, A. S., Application of model-free kinetics to the study of thermal degradation of polycarbonate, *Journal of Thermal Analysis and Calorimetry*, 79 (2005) 383–387; [4] Souza, M. J. B., Silva, A. O. S., Aquino, J. M. F. B., Fernandes, V. J., Araujo, A. S., Kinetic study of template removal of MCM-41 nanostructured material, *Journal of Thermal Analysis and Calorimetry*, 75 (2004) 693–698; [5] Araujo, S. A., Ionashiro, M., Fernandes, V. J., Araujo, A. S., Thermogravimetric investigations during the synthesis of silica-based MCM-41, *Journal of Thermal Analysis and Calorimetry*, 64 (2001) 801–805.



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Education and scientific degrees: Laurea in Industrial Chemistry

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Chemistry Chair, University of Messina (1985). Analytical Chemistry Chair, University of Catania (1990–). NATO Senior Scientist, Thermochemical Institute, Brigham Young University (BYU), Provo, Utah, USA (1984). Lecturer, Chemistry Dept., BYU, USA (1984). NATO Senior Scientist, BYU, USA (1989). Visiting Professor, BYU, USA (1998).

Relevant categories in thermal analyses: fields (equilibria in solution, supramolecular chemistry, bio-inorganic chemistry); methods (micro- and Nano-ITC)

Awards and acknowledgments: Sunner Memorial Award, The Calorimetry Conference (USA), Oak Ridge, Tennessee (USA, 1989); Canneri Medal, Italian Chemical Society-Division of Analytical Chemistry (Italy, 2013).

Professional activities: Member elected of the Board of Directors of the Calorimetry Conference (1990); Member of the Editorial Board of *Thermochim. Acta* (1992–2001), *J. of Inclusion Phenomena and Molecular Recognition* and *Journal of Supramolecular Chemistry*. Regional Editor of *Journal of Thermal Analysis and Calorimetry*; Deputy-Chairman of the Division of Analytical Chemistry, Italian Chemical Society (SCI) for two terms (1997–2000 and 2000–2003); Member of the Board of Directors of the Italian Association of Calorimetry and Thermal Analysis (AICAT) and President of the Italian Group of Calorimetry and Thermal Analysis. Chairman elected of AICAT (2014–); Coordinator of the Ph.D. Chemistry Program, University of Catania, (1997–2003); Chairman of the Division of Analytical Chemistry-SCI (2010–2012) and member of the Board of Directors of the same Institution (2013–); Chairman elected of AICAT.

Publication record: papers (103), books (5), citations (2250), h-index (29), sum of impact factors (317)

Equipments: Isoperibol and isothermal calorimeters, nano-ITC calorimeters

5 most important publications: [1] *Anal Bioanal Chem.*, 2013, 405, 1085–1094; [2] *Chem. Commun.*, 2010, 46, 7139–714; [3] *Chem. Commun.*, 2011, 47 (21), 6117–6119; [4] *J. Am. Chem. Soc.*, 2010, 132(3), 1005–1009; [5] *Chem. Eur. J.*, 1999, 5, 738–744.



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Assoc. Prof. (2006–2012), Prof. (2012–).

Workplaces: Nigde University (1995–1998), Mersin University (1998–).

Main fields of interest: Synthesis and characterization of novel thiourea derivatives, N-heterocyclic carbene derivative ligands and redox active ligands and their metal complexes, thermal behavior and decomposition kinetic studies, single crystal and powder X-ray diffraction studies, theoretical molecular spectroscopy, and vibrational spectroscopy

Relevant categories in thermal analyses: Fields (inorganic, materials, complex, organic, pharmaceutical); methods (TG, DTA, DSC, kinetics)

Awards and acknowledgements: Second place in the undergraduate degree (1993); Second place in the research project competition sponsored by TUBITAK in 1999–2000 (2000); Scholarship for oversee graduate study in biochemistry (1994).

Professional activities: Editor: European Journal of Chemistry (2009–). Associate Editor: Journal of Medicinal Plants Research (2010–2011) (Isi Journal-Sci), International Journal of Chemical Research (2009–). Editorial Board Member: E-Journal of Chemistry (ISI Journal-Sci) (2009–2012), Journal of Chemistry (Isi Journal-Sci) (2012–), Natural Science (2009–), International Journal of Inorganic Chemistry (2008–), etc.

Publication record: papers (114), citations i (1143), h-index (21)

Equipments: (1) Shimadzu model DT-40 simultaneous TG, DTA thermal analysis system (2) Shimadzu model DTG/60H TG, DTA combined system

5 most important publications: [1] Arslan, H., Ozpozan, N., Ozpozan, T. *Thermochimica Acta*, 329, (1), 57–65, (1999); [2] Arslan, H., Kulcu, N., Florke, U., *Transition Metal Chemistry*, 28, (7), 816–819, (2003); [3] Arslan, H., Mansuroglu, D. S., VanDerveer, D., Binzet, G., *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*, 72, (3), 561–571, (2009); [4] Akbay, C., Hoyos, Y., Hooper, E., Arslan, H., Rizvi, S. A. A., *Journal of Chromatography A*, 1217, (32), 5279–5287, (2010); [5] Ozdemir, I., Arslan, H., Demir, S., VanDerveer, D., Cetinkaya, B., *Inorganic Chemistry Communications*, 14, (5), 672–675, (2011).



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Workplaces: University of A Coruña

Main fields of interest: thermal properties of complex materials

Relevant categories in thermal analyses: fields [inorganic, materials, nano, minerals, complex, organic, polymer, food, other (metal organic frameworks, multiferroic)]; methods (TG, DSC, kinetics, specific heat, calorimetry, other [DEA, DMA, PDSC, TMDSC, pressure-TMDSC, photocuring])

Professional activities: Teaching and researching at the University of A Coruña; Coordinator on the Spanish side of the double Master in Complex Materials: Thermal Analysis and Rheology (Univ of A Coruña)/Physics of Soft Matter (Univ. Paris 7-Paris Diderot)

Publication record: papers (52), books (1), citations (380), h-index (11)

Equipments: TMDSC, PDSC, TG, STA (DSC+TG), DMA, DEA

5 most important publications: [1] Thermal analysis. Fundamentals and applications to material characterization/Ramón Artiaga Díaz (ed.) A Coruña: Universidade da Coruña, 2005. ISBN: 84-9749-100-9; [2] López-Beceiro, J., Gracia-Fernández, C., Artiaga, R. A kinetic model that fits nicely isothermal and non-isothermal bulk crystallizations of polymers from the melt (2013) *European Polymer Journal*, 49(8), pp. 2233–2246; [3] López-Beceiro, J., Gracia-Fernández, C., Gómez-Barreiro, S., Castro-García, S., Sánchez-Andújar, M., Artiaga, R. Kinetic study of the low temperature transformation of $\text{Co}(\text{HCOO})_3[(\text{CH}_3)_2\text{NH}]_2$ (2012) *Journal of Physical Chemistry C*, 116(1), pp. 1219–1224; [4] C. Gracia-Fernández, J. Tarrío-Saavedra, J. López-Beceiro, S. Gómez-Barreiro, S. Naya, R. Artiaga. Temperature modulation in PDSC for monitoring the curing under pressure. *Journal of Thermal Analysis and Calorimetry*. *Journal of Thermal Analysis and Calorimetry* 106(2011) pp. 101–107; [5] C. A. Gracia Fernández, S. Gómez Barreiro, J. López Beceiro, J. Tarrío Saavedra, S. Naya, R. Artiaga. Comparative study of the dynamic glass transition temperature by DMA and TMDSC. *Polymer Testing* 29(2010) pp. 1002–1006.



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Education and scientific degrees: Chemical Engineer (1968), Ph.D. (1973) University Lyon1, Director of research (2000)

Workplaces: INSA de Lyon (1968–1975), CNRS—IRCÉLYON (1975–)

Main fields of interest: catalysis, clean and renewable energies, hydrogen production and storage, heat measurements, acid-base properties of solids, water and air depollution; determination of surface properties of solid catalysts by adsorption calorimetry of probe molecules; scales of acidity/basicity in number and strength for numerous oxide and zeolite catalysts have been established; clean and renewable energies: relationships are established between acid/base properties of catalysts (as determined by adsorption calorimetry both in liquid phase or gas phase) and selectivity or conversion

Relevant categories in thermal analyses: fields (materials, inorganic, catalysis); methods (microcalorimetry, DSC, TG)

Awards and acknowledgments: “I.G. Murgulescu” prize of the Romanian Academy of Sciences (2003); Calvet Prize in calorimetry (2007)

Professional activities: Organization of 3 international congresses (CTEC2000, CTEC2004, CTEC2012), one national congress (JCAT2013) and 7 international summer schools in calorimetry and thermal analysis (from 2007 to 2013); Active member of the Société Chimique de France. Guest editor of 3 issues of *Thermochimica Acta*, Editor of a calorimetry book (Springer-2013)

Publication record: papers (288), books (1 book and 16 chapters in 13 books), patents (1), citations (6918), h-index (40)

Equipments: heat flow calorimeters: one MS80, two C80, two HT, two Titrys; TG-DSC: one TG-DSC111-MS, one Labsys, two TA

List of 5 most important publications: [1] A. Auroux, *Calorimetry and thermal methods in catalysis*, A. Auroux Ed., Springer series in Materials Science, 2013, vol 154, 561 pp; [2] A. Auroux, *Microcalorimetry, Molecular sieves—Science and technology: Acidity and Basicity*, Vol. 6, Springer Ed., 2008, 45–152; [3] L. Damjanovic, A. Auroux, *Heterogeneous catalysis on solids, Handbook of Thermal Analysis and Calorimetry, Further advances, Techniques and applications*, M. E. Brown, P. K. Gallagher Eds, Elsevier, Amsterdam, vol 5, Chap 11 (2008) 387–438; [4] *Microcalorimetric studies of the acidity and basicity of metal oxide surfaces*. A. Auroux, A. Gervasini, *J. Phys. Chem.*, 94 (1990) 6371; [5] *Acidity characterization by microcalorimetry and relationship with reactivity*. A. Auroux, *Acidity in Aluminas, Amorphous and Crystalline Silica-aluminas*, G. Somorjai and J.M. Thomas Eds., *Topics in Catalysis*, 4 (1997) 71–89.



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Education and scientific degrees: Prof.; Ph.D.; D.Sci

Workplaces: Institute Physical Chemistry, Sofia, Bulgaria

Main fields of interest: glasses, kinetics of phase transitions, thermal analyses

Relevant categories in thermal analyses: fields (DTA, DSC, photoacoustics)

Publication record: papers (150), books (chapters in 3 books), patents (5)

Equipments: DTA/TG, DSC

5 most important publications: [1] I. Avramov, *Thermochimica Acta* 280 (1996) 363–382 “Kinetics of Structural relaxation of glass-forming melts”; [2] I. Avramov *J. Non-Cryst. Sol.* 351 (2005) 3163–3173 “Viscosity in disordered media”; [3] I. Avramov *Journal of Volcanology and Geothermal Research*, Volume 160, Issues 1–2, 1 February 2007, Pages 165–174; [4] I. Avramov, *Nanoscale Res Lett* (2007) 2:235–239 “Kinetics of growth of nano-whiskers (nanowires and nanotubes)”; [5] I. Avramov, C. Rüssel Chapter 18 “Controlled Nucleation and Crystallization for Nanoparticle Synthesis” Springer, Ed. J. Sestak, P. Simon; “Thermal Analysis of Micro, Nano- and Non-Crystalline Materials Transformation, Crystallization, Kinetics and Thermodynamics”, Springer (2013) ISSN 1571–3105.



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Present position and address: Senior Lecturer, Department of Chemistry, Faculty of Sciences, University of Craiova, Str. Calea Bucuresti 107 I, 200512 Craiova, Romania

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Education and scientific degrees: Degree in Food Chemistry and Engineering (1992) and Ph.D. in Chemical Engineering (2001), University Dunarea de Jos of Galati

Workplaces: Faculty of Sciences, University of Craiova, tenured position (1994–); Department of Chemistry, Uni-

versity of Turin, fellowships and research contracts (2002–2010); National Research and Development Institute for Textiles and Leather, Senior Research Scientist Appointments (2007–2008, 2012–)

Main fields of interest: plant biochemistry; solution thermodynamics of non-electrolytes; thermodynamics of phase transition; thermodynamics of model molecules; physical-chemical properties of collagen-based heritage materials

Relevant categories in thermal analyses: fields (biology, life, cultural heritage); methods (isothermal microcalorimetry, DSC)

Awards and acknowledgments: NATO Outreach Fellowship granted by the Italian National Research Council (2001)

Professional activities: president and founder of the the Romanian Association Science and Cultural Heritage in Connection (i-CON); representative of the Romanian Chemistry Society to the EuCheMS Working Party on Chemistry for Cultural Heritage (WP CCH); chair of scientific committee: 1st and 2nd International Conference Matter and Materials in/for Heritage Conservation (MATCONS 2009 and MATCONS 2011), Craiova, Romania; conference chair: 1st and 3rd International Seminar and Workshop Cultural Heritage–Emerging Technology and Innovation, Bucharest, Romania (2012 and 2013) and Sibiu, Romania (2014)

Publication record: papers (73), books (2), Romanian patent pending (2), h-index (9)

5 most important publications: [1] E. Badea, D. D'Angelo, B. Brunetti, Z. Rečková, G. Della Gatta, Odd-even effect in melting properties of twelve alkane- α , ω -diamides, *J. Chem. Thermodyn.* 38 (2006) 1546; [2] G. Della Gatta, E. Badea, M. Józwiak, P. Del Vecchio, Thermodynamics of solvation of urea and some mono-substituted *N*-alkylureas in water at 298 K, *J. Chem. Eng. Data* 52 (2007) 419; [3] E. Badea, L. Miu, P. Budrugaec, M. Giurginca, A. Mašić, N. Badea, G. Della Gatta, Study of deterioration of historical parchments by various thermal analysis techniques, complemented by SEM, FTIR, UV-Vis-NIR and unilateral NMR investigations, *J. Therm. Anal. Calorim.* 91, (2008) 17; [4] E. Badea, G. Della Gatta, T. Usacheva, Effects of temperature and relative humidity on fibrillar collagen within parchment: a micro Differential Scanning Calorimetry (micro DSC) study, *Polym. Degrad. Stabil.*, 97 (2012) 346; [5] E. Badea, B. Nowicka, G. Della Gatta G., Thermodynamics of fusion and sublimation for a homologous series of eleven alkane- α , ω -diols HO-(CH₂)_n-OH: Structure-related odd–even effect, *J. Chem. Thermodyn.* 68, (2014) 90.



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Present position and address: assisted professor, Faculty of Chemistry, University of Bucharest, 90 Panduri Str., Sect. 5, Bucharest, Romania

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Education and scientific degrees: M.Sc. Physical Chemistry (1988) Polytechnic Institute of Bucharest; Ph.D. Chemistry (1990) University of Bucharest

Workplaces: 1988–1990 Petrochemical Factory Brazi; April 1990–November 1990 Institute of Physics and Technology of Radiation Devices—IFA Magurele; November 1990—up

to the present Faculty of Chemistry, University of Bucharest

Main fields of interest: the main research domain is coordination chemistry namely complexes with potential biologic activity: synthesis strategies, chemical analyses, physico-chemical and biologic characterization as well as synthesis of materials with special properties

Relevant categories in thermal analyses: fields (inorganic, complex, pharmaceutical, materials, nano, minerals); methods (TG, DTA, DSC, kinetics)

Professional activities: editorial board member of *Biointerface Research in Applied Chemistry*; scientific vice-president of Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC); member in organizing committees of CEEC-TAC1 and CEEC-TAC2 conferences; member in local committee of Romanian Chemistry Society; member of International Confederation for Thermal Analysis and Calorimetry (ICTAC) since 2004

Publication record: papers (68), books (5), patents (1), citations (327), h-index (11), sum of impact factors (129,695)

Equipments: TG, DTA LABSYS 1200 from SETARAM Instrumentation; DSC 550 from CAHN Instrument Corp.

5 most important publications: [1] M. Badea, P. Budrugaec, A. Cucos, E. Segal, Thermal decomposition kinetics of bis(pyridine)manganese(II) chloride, *J. Therm. Anal. Calorim.*, 115 (2014) 1999–2005; [2] I.D. Vlaicu, M. Constand, R. Olar, D. Marinescu, M. N. Grecu, V. Lazar, M. C. Chifiriuc, M. Badea, Thermal stability of new biologic active copper (II) complexes with 5,6-dimethylbenzimidazole, *J. Therm. Anal. Calorim.*, 113 (2013) 1369–77; [3] M. Badea, R. Olar, V. Uivarosi, D. Marinescu, V. Aldea, Synthesis and characterization of some vanadyl complexes with flavonoid derivatives as potential insulin-mimetic agents, *J. Therm. Anal. Calorim.*, 107 (2012) 279–285; [4] M. Badea, R. Olar, D. Marinescu, V. Uivarosi, T. O. Niculescu, D. Iacob, Thermal study of some new quinolone ruthenium (III) complexes with potential cytostatic activity, *J. Therm. Anal. Calorim.*, 99 (2010) 829–834; [5] M. Badea, R. Olar, D. Marinescu, G. Vasile, B. Jurca, A. M. Madalan, M. Andruh, a Michael-type reaction between acrylate ions and ethylenediamine coordinated to Ni(II). Synthesis, crystal structure and magnetic properties of $[\text{Ni}_2(\text{EDDP})_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$ (H_2EDDP = ethylenediamine-N, N-dipropionic acid), *Inorg. Chem. Comm.*, 12 (2009) 555–557.



Name: Harvey E. Bair

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Date and place of birth: 1936, Williamsport, Pennsylvania

Present position and address: Consultant, 17 Seminole Ct., Newton, NJ 07860

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Education and scientific degrees: Dickinson College, Carlisle, PA, BS Chemistry (1958); Penn State University, State College, PA, MS Chemistry (1964); General Electric Research Laboratory, Schenectady, NY, Research Training Program in Polymers, mentor: Prof. F.E. Karasz; (1962–64)

Workplaces: John's Hopkins Univ. Applied Physics Laboratory, Silver Spring, MD (1964–65); Bell Labs, Lucent

Technologies (formerly AT&T), Murray Hill, NJ (1965–2001)

Main fields of interest: innovating TA techniques for the solution of plastics engineering problems in areas such as performance, processing and reliability in engineering applications, i.e. after a device's laser is aligned and secured in front of an optical fiber with an epoxy, completion of cure can only be carried out in its glassy state or alignment will be lost; DSC enthalpy relaxation studies determined the maximum heating rate that will not exceed T_g and, hence, remain rigid and aligned is about 24°C/h (US Patent 4,978,712)

Relevant categories in thermal analysis: fields (materials, organic, polymers, glasses); methods (DSC, TG, TMA, DMA, cryo, specific heat, calorimetry and instrument development)

Awards and acknowledgments: Mettler Award (1987); SPE Conley Award for engineering technology (1998); SPE International Award for "outstanding contributions in the field of plastics" (2000); NATAS Lifetime Achievement Award (2008); NATAS Fellow (1984) and APS Fellow, High Polymer Physics Division (1987)

Professional activities: NATAS—Symp. Organizer, 1980; Notes Editor, 1981, President, 1984, Program Co-chair, 1985, Chairman, Gordon Conf. on Thermosetting Polymers, 1990; Chairman, ACS Symp. on "TA of Polymers", Boston 1990; Co-chair on "Chemical and Physical Effects on the Long Term Performance of Polymers" Boston 1995; Co-chair, Int. Congress of TA on "Polymer Blends and Blocks", Philadelphia, 1996; Polymer Webinars—"Small Molecules, Fast-Scans and Blocks and Blends" with Harvey Bair at jgotro@innocentrix.com, 2011

Publication record: papers (188), book chapters (7), patents (7)

List of 5 most important publications: [1] H. E. Bair, "Glass Transition Measurements by DSC," in Assignment of the Glass Transition, ASTM STP 1249, R.J. Seyler, ed., ASTM, Philadelphia, pp. 50–74, (1994); [2] F.E. Karasz, H.E. Bair and J.M. O'Reilly, "Thermal Properties of Atactic and Isotactic Polystyrene," J. Phys. Chem. 69, 2657 (1965); [3] F.S. Bates, M.A. Hartney and H.E. Bair, "Block Copolymers near the Microphase Separation Transition" Macromolecules 17, 1987–1993 (1984); [4] F.C. Schilling, H.E. Katz and H.E. Bair, "Structure and Morphology of a Polyether/Polyacrylate Semi-interpenetrating Polymer Network", J. Therm. Anal. Calorim. 58, 83–92 (2000); [5] H.E. Bair, "Thermomechanical Analysis and Thermodilatometry-4.7 Selected Industrial Applications" in Thermal Analysis of Polymers: Fundamentals and Applications, J.D. Menczel and R.B. Prime, eds., Wiley, Hoboken, NJ, pp. 363–386 (2009).



Name: Peter Baláž

Country: Slovakia

Date and place of birth: 1947, Nitra, Slovakia

Present position and address: Leading scientist at Institute of Geotechnics of Slovak Academy of Sciences Košice and profesor at Technical University of Košice; Prof. Peter Baláž, Institute of Geotechnics, SAS, Watsonova 45, 040 01 Košice, Slovakia

Email: balaz@saske.sk

Education and scientific degrees: M.Sc. degree in chemistry, Faculty of Sciences, P.J. Šafárik University Košice; Ph. D. and D.Sc. degrees in mineral processing, Institute of Geotechnics, Slovak Academy of Sciences Košice; Associ-

ate Professor and Professor—Berg Faculty, Technical University Košice

Workplaces: Faculty of Sciences, P.J. Šafárik University Košice (1972–1977); Institute of Geotechnics, Slovak Academy of Sciences Košice (1977–)

Main fields of interest: the basic and applied research in mechanochemistry; study of the properties of minerals and advanced materials with various methods including thermoanalytical ones

Awards and acknowledgments: prizes of Slovak Literary Fond for books published in Elsevier and Springer including prizes for outstanding citations in technical sciences; Gold medal of Slovak Academy of Sciences

Professional activities: member of scientific boards of international conferences on mechanochemistry; invited lectures on scientific conferences; broad international cooperation; elaboration of mechanochemical technology for treatment of non-ferrous ores with application of mechanical and thermal procedures

Publication record: papers (417), books (3 and 14 chapters in books), patents (4), citations (>1200), h-index (21)

List of the 5 most important works: [1] P. Baláž, I. Ebert: *Hydrometallurgy* 27 (1991) 14; [2] P. Baláž: *Extractive Metallurgy of Activated Minerals*, Elsevier, Amsterdam 2000, 278 pp; [3] P. Baláž, E. Boldižárová, E. Godočíková, J. Briančin: *Materials Letters* 57 (2003) 1586; [4] P. Baláž: *Mechanochemistry in Nanoscience and Minerals Engineering*, Springer, Berlin Heidelberg 2008, 413 pp; [5] P. Baláž, M. Achimovičová, M. Baláž et al.: *Chemical Society Reviews* 47 (2013) 7521



Name: Wojciech Balcerowiak

Country: Poland

Date and place of birth: 1946. Szamotuły, Poland

Present position and address: Lecturer of Thermal Analysis Lab., Institute of Heavy Organic Synthesis, 9 Energetyków Str., PL-47-232 Kędzierzyn-Koźle, Poland

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Education and scientific degrees: M.Sc. A. Mickiewicz University, Poznań (1969); Ph.D. Research Institute of Industrial Chemistry, Warszawa (1988)

Workplaces: Institute of Heavy Organic Synthesis in Kędzierzyn-Koźle, Poland (1969 –)

Main fields of interest: determination of composition and thermal behaviour of organic-inorganic materials; cation exchangers; catalysts; heat and kinetic of organic syntheses, calcium lime analysis.

Relevant categories in thermal analyses: fields (organic-inorganic materials, polymers, kinetic of homogenous syntheses); methods (TG, DTA, DSC)

Professional activities: Analyst and R&D in organic syntheses; member and executive council member (1997–2006) of Polish Society of Thermal Analysis and Calorimetry; Lecturer of schools on TA.

Publication record: papers (50), patents (50)

Equipments: Mettler-Toledo TGA/SDTA 851° and DSC 822°

5 most important publications: [1] W. Balcerowiak, W. Jerzykiewicz, H. Szewczyk: Differential thermal analysis using closed pans. The ethoxylation of n-dodecylamine, *Tenside Deterg.*, 21 (1984) 10; [2] W. Balcerowiak: The thermal decomposition of sodium formate in presence of sodium hydroxide, *Thermochim. Acta*, 92 (1985) 661; [3] W. Balcerowiak: Speciation analysis of sulfonic groups of cation exchanger using thermogravimetry, *Reactive and Functional Polymers*, 33 (1997) 323; [4] W. Balcerowiak, J. Hetper, B. Kałędkowski, M. Gryta: A new approach to the determination of the heat of phenolic resole synthesis, *Thermochim. Acta*, 320 (1998) 209; [5] W. Balcerowiak: Phase analysis of high-calcium lime by TG, *J. Therm. Anal. Calorim.*, 60 (2000) 67.



Name: Aparna Banerjee

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Date and place of birth: India

Present position and address: Associate Professor of Homi Bhabha National Institute and Scientific Officer, Product Development Division, Bhabha Atomic Research Centre, Mumbai, India

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Education and scientific degrees: Ph.D. from Mumbai University, India, M.Phil, M.Sc.

Workplaces: Bhabha Atomic Research Centre, Mumbai, India.

Main fields of interest: thermodynamics of oxides and

alloys: solid state electrochemistry, calorimetry, vapour pressure measurements, ionic conductivity in solids, thermal expansion.

Relevant categories in thermal analyses: fields (Inorganic, materials, ceramics, alloys); methods (TG, DTA, DSC, Dilatometry, Calorimeters, Galvanic cell, transpiration, KEML)

Awards and acknowledgments: Bronze medal for outstanding contribution to solid state chemistry

Professional activities: Executive council member of Indian Thermal Analysis Society. Editorial board of Society for Materials Chemistry. Presented Invited talk in several International symposia and member of organising committee

Publication record: papers (28 journal + 60 symposia papers)

Equipments: DSC, TGA, Galvanic cells, Dilatometry, Calvet calorimeter, Multi-HTC, Impedance Spectroscopy with HT furnace, HT-XRD, Transpiration, KEML, KEMS

5 most important publications: [1] "The System Yb–Ru–O: High Temperature studies of the Ternary Oxides $\text{Yb}_2\text{Ru}_2\text{O}_7(\text{s})$ and $\text{Yb}_3\text{RuO}_7(\text{s})$ " Aparna Banerjee, Ziley Singh Chaudhary. *Mat. Chem. Phys.*, 42 (2013) 12; [2] "System Er–Ru–O: High temperature study of the heavy rare earth pyrochlore $\text{Er}_2\text{Ru}_2\text{O}_7(\text{s})$ by electrochemical cell and differential scanning calorimeter" Aparna Banerjee, *Solid State Ionics*, 253 (2013) 70; [3] "Solid Oxide Electrochemical Cell and Differential Scanning Calorimetry used for Thermodynamic Measurements of the Ternary Oxides: $\text{Nd}_2\text{RuO}_5(\text{s})$ and $\text{Nd}_2\text{Ru}_2\text{O}_7(\text{s})$ " Aparna Banerjee and Ziley Singh Chaudhary, *Mat. Chem. Phys.*, 138 (2013) 417; [4] "The Lu–Ru–O System: Thermodynamic Properties and Impedance Measurements of the Pyrochlore $\text{Lu}_2\text{Ru}_2\text{O}_7(\text{s})$ " Aparna Banerjee, R. Mishra and Ziley Singh, *Solid State Ionics*, 201 (2011) 42; [5] "Heat capacity and Gibbs energy of formation of the ternary oxide $\text{CdRh}_2\text{O}_4(\text{s})$ " Aparna Banerjee, Z. Singh, V. Venugopal, *Solid State Ionics*, 180 (2009) 1337.



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Education and scientific degrees: 2007—Graduated chemist-biochemistry, Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad; 2011—Ph.D., Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad

Workplaces: Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Serbia

Main fields of interest: complexes, polymers and their thermal analysis

Relevant categories in thermal analyses: fields (materials, complex, polymer); methods (TG, DTA, EGA, DSC)

Publication record: papers (13), citations (29), h-index (3), sum of impact factors (22.336)

Equipments: TAI SDT Q600 Simultaneous TG/DSC

5 most important publications: [1] Holló, B., Tomić, Z. D., Pogány, P., Kovács, A., Leovac, V. M., Mészáros Szécsényi, K., *Polyhedron*, 28 (2009) 3881; [2] Holló, B., Jašo, V., Leovac, V. M., Divjaković, V., Kovács, A., Mészáros Szécsényi, K., *J.Coord. Chem.*, 66 (2013) 453; [3] Holló, B., Rodić, M. V., Vojinović-Ješić, L.S., Živković-Radovanović, V., Vučković, G., Leovac, V.M., Mészáros Szécsényi, K., *J. Therm. Anal. Cal.*, 116 (2014) 655; [4] Holló, B., Rodić, M.V., Bera, O., Jovičić, M., Leovac, V. M., Tomić, Z. D., Mészáros Szécsényi, K., *Struct. Chem.*, 24 (2013) 2193; [5] Poręba, R., Špirková, M., Pavličević, J., Budinski-Simendić, J., Mészáros Szécsényi, K., Holló, B., *Compos. Part B Eng.*, 58 (2014) 496.



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Education and scientific degrees: M.Sc. (Hons. Sch.) (1960) Punjab University, Chandigarh; Ph.D. (1963) Gorakhpur University, Gorakhpur

Workplaces: Punjabi University, Patiala (1964–1967); Regional Engineering College, Srinagar (1967–1969); Jammu University, Jammu (1969–1981), Guru Nanak University, Amritsar, (1981–1998); Environmental Protection Division Laboratory, Atlanta, GA (2001-to date).

Amritsar, (1981–1998); Environmental Protection Division Laboratory, Atlanta, GA (2001-to date).

Main Fields of Interest: solid state reactions, thermal decompositions, applications of thermal analysis, ferrites—preparation and characterization, solid-liquid phase equilibria, eutectics—crystallization, micro-structure and strength properties.

Relevant categories in thermal analysis: fields (inorganic materials, decompositions, kinetics); methods (TG, DTA, DTG, DSC, kinetics)

Professional activities: National symposium, 'Reactivity of Solids,' Jammu 1974, Director; National symposium, 'Reactivity of Solids,' Amritsar 1981, Director; National seminar, 'Trends in Structure determination,' Amritsar 1983, Director; Binational Seminar at Novosibirsk 1986, Indian delegate, presented paper; National symposium on thermal analysis, Jammu 1998, Keynote address; President, Indian Association of Solid State Chemists and Allied Sciences ISCAS, 1999–2001, 2001–2008

Publication record: papers (101)

List of the 5 most important publications: [1] P. S. Bassi, P. C. Kalsi and C. M. Khajuria; Thermal decomposition of copper (II) phthalate monohydrate, *J. Thermal Anal.* 18(1980) 77; [2] P. S. Bassi and G. S. Chopra; Solid state reactivity of organic compounds with inorganic compounds, *J. Solid State Chem.* 62(1986)253; [3] P. S. Bassi, G. S. Chopra, and Kanwaljit Kaur; EPR and thermal studies on the reaction of copper acetate with 8-hydroxyquinoline in the solid phase, *Ind. J. Chem.* 29A (1990) 454; [4] P. S. Bassi and G. S. Chopra and Rajinder Singh; Linear free energy relationships in solid state reactions, *Indian J. Chem.* 35A (1996) 458; [5] P. S. Bassi, Applications of thermal analysis in some solid state reactions, *J. Thermal Anal.* 49 (1997) 1153.