

Stamatina Theohari, PhD
Assoc. Professor,
Graphic Arts Technology,
Graphic Design and Visual Communication Dept.
Faculty of Applied Arts and Culture
University of West Attica
Ag. Spyridonos, 12210, Egaleo, Attiki, Greece
Tel: +0030-210-5385421 & 5429
e-mail: stheochari@uniwa.gr



Academic Titles

- ✓ PhD. Chemistry, Thesis "Use of organic dyes for the coloring of anodized aluminum by electrolytic methods", Laboratory of Industrial Chemistry, Chemistry Department, University of Athens
- ✓ BSc Chemistry, Chemistry Department, University of Athens

Research & Professional experience

- ✓ Director of the Committee of the Postgraduate Program (MSc) "Intelligent Packaging. New Technologies and Marketing" of the Department of Graphic and Visual Communication, School of Applied Arts and Culture, UNIWA (2020)
- ✓ Academic Coordinator of the Department of Graphic Arts Technology for the Erasmus Studies and Placement exchange programs.
- ✓ Scientific Coordinator of Lifelong Learning Program "Training of a painter", UNIWA (2019-).
- ✓ Scientific Coordinator for the research program "The influence of the surface treatment of aluminum on the physical properties and the printing quality of aluminum oxide films" ("Internal Research Program for the Support of the TEI of Athens Researchers, 2015")
- ✓ Assoc. Scientific Responsible for SMART-TIN-PACK research program: "Structure of quality control systems for printing tin sheets on food packaging" in collaboration with PADA with the industry of manufacturing and printing of metal packaging in the context of Innovation, Research and Development (2019- 2020).
- ✓ Member of the scientific team of the Research Laboratory: "Technology of Graphic Arts and Visual Communication Media", UNIWA.
- ✓ Participant in a joint research project with the University of Zagreb, Croatia, Faculty of Graphic Arts, within the framework of the Erasmus program (2019)
- ✓ Collaboration with EUROPA Aluminum Profile SA, Aluminum Industry, Oinofyta Viotias
- ✓ Researcher for programs funded by: a) University of Athens and General Motors Corporation (Warren, Michigan, USA), b) University of Thessaloniki

Academic and educational experience

- ✓ Associate Professor at Graphic Arts Technology/ Graphic Design and Visual Communication Dept., Faculty of Applied Arts and Culture, University of West Attica. She has worked at the Technological Educational Institute (TEI) of Athens and Technological Educational Institute (TEI) of Piraeus, teaching theoretical and laboratory courses related to "Chemistry" and "Technology of Materials" in the School of Applied Arts and Culture, as well as in the School of Engineering. Recent teaching fields: "Chemistry", "Inks & Coatings", "Graphic Art Materials" & "Printing Substrates", "Chemical Technology", "Shipbuilding Technology", "Special issues in Chemistry".
- ✓ Academic Coordinator of Graphic Arts Technology/Graphic Design Department for Erasmus Programs (2012-2019). Lectures to students of HdM, University of Applied Sciences in Stuttgart Germany, Natural Sciences and Engineering, Textiles, Information and Graphic Arts Technology Department, University of Ljubljana Slovenia, Instituto Politecnico de Tomar, IPT University of Zagreb - Croatia, Leipzig Hochschule fur Technik, Leipzig University of Applied Sciences - Leipzig, Germany, ESCUELA DE ARTE 10 Madrid - Spain, University of Pardubice, Faculty of Chemical Technology, Graphic Arts and Photophysics Department, Czech Republic in the frame of Erasmus teaching staff exchange programs, Department of Arts (Graphic Design), School of Humanities, Social and Education Sciences, European University Cyprus, Accademia della Moda, Institute of Universal Art and Design Napoly- Italy, Faculty of Arts/Department of Design -Saint Petersburg State University, Russia.
- ✓ Lectures in the Postgraduate Program: "Chemistry and Materials Technology", Department of Materials Science and Engineering - University of Ioannina (2004-2019)
- ✓ Lectures in the Postgraduate Program: "Advanced Technologies in Naval and Naval Engineering" University of West Attica (2017-2020)
- ✓ Lectures in the Postgraduate Program: "Intelligent Packaging. New Technologies and Marketing" University of West Attica (2017-2020).
- ✓ Notes about the theoretical and laboratorial courses "Inks", "Chemistry for Graphic Arts Technology" and "Laboratory Exercises on Chemistry for Graphic Arts Technology", "Graphic Arts Materials", University of West Attica.
- ✓ Notes about "Corrosion and anti-corrosion methods for metals. Examples and Applications", for the Postgraduate Program "Chemistry and Materials Technology" University of Ioannina, Greece.
- ✓ Presentations in English for the lectures in the frame of Erasmus programs (in electronic form) (2012-2019).
- ✓ Presentations for Open Academic Courses of TEI of Athens and the e-class educational system of TEI of Athens (Chemistry in Graphic Arts, Inks and Coatings, Graphic Arts Materials, Printing Substrates)
- ✓ Supervisor of graduate and postgraduate dissertations.
- ✓ Translation and Editing of the Chapter 17: "Electroanalytical Techniques" of the book "Instrumental Analysis", Granger N. Jill, Granger II M. Robert, Yochum M. Hank, Sienerth D. Karl, Ed. 1st / 2020, Broken Hill Publishers Publications, ISBN: 9789925575954
- ✓ Author of the book "Printing inks and coatings ", Ed. 1st / 2021, Tsotras Publications, Athens, ISBN: 978-618-5495-44-2

Publications in peer reviewed journals

- ✓ S. Theohari, I. Tsangaraki-Kaplanoglou, «Improvement of DC coloring of anodized aluminum with the use of certain dimethylmethane derivatives», *Plat. & Surf. Fin.*, 86-90, (Sept. 1997)
- ✓ S. Theohari, I. Tsangaraki-Kaplanoglou, «Direct current electrodeposition of tin for the colouration of aluminium oxide films, in the presence of Malachite Green» *Trans. IMF*, 76 (1), 45-50, (1998)
- ✓ S. Theohari, I. Tsangaraki-Kaplanoglou, R. Moshohoritou «The use of the dye CI Acid Blue 45 in the electrolytic colouring of anodised aluminium» *JSDC*, 114, 199-202, (Jul/Aug. 1998)
- ✓ I. Tsangaraki- Kaplanoglou, S. Theohari, Th. Dimogerontakis, Yar-Ming Wang, Hong -Hsiang (Harry) Kuo, Sheila Kia. «Effect of alloy types on the anodizing process of aluminum» *Surf. & Coat. Technology* 200, 2634-2641, (2006)
- ✓ I. Tsangaraki- Kaplanoglou, S. Theohari, Th. Dimogerontakis, N. Kallithrakas-Kontos, Yar-Ming Wang, Hong-Hsiang (Harry) Kuo, Sheila Kia «Effect of alloy types on the electrolytic coloring process of aluminum» *Surf. & Coat. Technology* 200, 3969-3979, (2006)
- ✓ I. Tsangaraki- Kaplanoglou, S. Theohari, Th. Dimogerontakis, N. Kallithrakas– Kontos, Yar-Ming Wang, Hong-Hsiang (Harry) Kuo, Sheila Kia «An investigation of electrolytic coloring process of anodized aluminum coatings» *Surf. & Coat. Technology* 201, 2749-2759, (2006)
- ✓ L. Kompotiatis, S. Theohari, Th. Dimogerontakis and I. Tsangaraki – Kaplanoglou «Investigation of the influence of certain dyes on the cathodic behavior of anodized aluminum using Electrochemical Impedance Spectroscopy (EIS)» *ATB Metallurgie*, Vol. 37, No 2-3-4, 217-220, (1997)
- ✓ I. Tsangaraki – Kaplanoglou, V. Katsoulas, S. Theohari, L. Kompotiatis, «Effect of certain inorganic additives on the anodizing process of aluminium in function with its pretreatment» *ATB Metallurgie*, Vol.45, No 1-4, 446-451, (2006)
- ✓ I. Tsangaraki-Kaplanoglou, A. Kanta, S. Theohari and V. Ninni, «Acid-dyes as corrosion inhibitors for mechanically pretreated aluminum» *Anti-Corrosion Methods and Materials*, Vol. 57, No 1, 6-12 (2010) (Highly Commended Award, Emerald Literati Network Awards for Excellence 2011)
- ✓ P. Gondolias, I. Tsangaraki-Kaplanoglou, S. Theohari*, «An Investigation of the Effect of Nile Blue on the Electrodeposition of Nickel on Brass from a Watts type Bath» *Plating & Surface Finishing*, October, 38-45, 2010
- ✓ S. Theohari* and Ch. Kontogeorgou, «Effect of temperature on the anodizing process of aluminum alloy AA 5052», *App. Surf. Sci.* 284 611-618, 2013
- ✓ Stamatina Theohari*, Isidoros Iakovidis, Athanasios Karampotsos, Ioannis Sianoudis, «Printing on Anodized Aluminium Surface» *Open Journal of Applied Sciences*, 6, 783-795, 2016.
- ✓ Stamatina Theohari* and Chrysa Kontogeorgou, “Study of the electrochemical behavior of the commercial AA5052 during anodizing in phosphoric acid solution in relation to the Mg species content in the film”, “*Surface Engineering and Applied Electrochemistry*”, 2020, 56(1), 71-82.
- ✓ DOI 10.3103/S1068375520010159.

Presentations in Congresses/Symposia/Conferences

- ✓ I. Tsangaraki- Kaplanoglou, S. Theohari, "Methods of enlargement of aluminum coloring", "Special Surface Treatments. Technology and Applications in Greece", Technical Chamber of Greece (TEE) (Athens, Greece 1995)
- ✓ I. Tsangaraki - Kaplanoglou, St. Theohari, R. Moschochoritou, "Enlargement of Colors of anodized aluminum by the use of an organic dye during its electrolytic coloring", *Proceedings of 16th PanHellenic Congress of Chemistry*, pp. 547-550 (Athens, Greece 1995)

- ✓ L. Kompotiatis, S. Theohari, Th. Dimogerontakis and I. Tsangaraki – Kaplanoglou, "Investigation of the influence of certain dyes on the cathodic behavior of anodized aluminum using electrochemical impedance spectroscopy (EIS)" (poster), Aluminum Surface-Science and Technology Conference ("Elzenveld" Antwerp, Belgium, 1997)
- ✓ I. Tsangaraki- Kaplanoglou, R. Moschohoritou, S. Theohari, "The use of Xanthene Colors Matters on Aluminum" (poster), International Conference of Chemical Associations of Southeast European Countries, (Chalkidiki, Greece 1998)
- ✓ I. Tsangaraki – Kaplanoglou, V. Katsoulas, S. Theohari, L. Kompotiatis, "Effect of Certain Inorganic Additives on the Anodizing Process of Aluminum in function with its Pretreatment" (poster), Aluminum Surface Science and Technology Conference, (Beaune, France, 2006)
- ✓ St. Theohari, D. Tsimis, D. Mantis, V. Haropoulou, D. Mantis, "Comparison of a water based ink with an organic solvent ink during printing on packaging paper", 12th International Symposium of Colors, Paints, Varnishes & Inks Dept of the Association of Greek Chemicals, NTUA, Athens -Greece (2012)
- ✓ Sp. Nomikos, St. Theohari, V. Belessi, E. Paganni, Th. Philippakopoulou, "Digital Printed Circuits for Children's Board Games" (poster), Workshop on "Commercializing Organic Electronics in Greece - I", (Thessaloniki, Greece 2012)
- ✓ St. Theohari, "Materials, Inks and Substrates for printed electronics", Educational Seminar on "Printed Electronics. Applications in Packaging ", Technological Educational Institute of Athens, 2014
- ✓ St. Theohari, Ef. Fraggedakis and D. Tsimis, "Effect of paper properties on the print quality by flexographic method" at International Circle of Educational Institutes for Graphic Arts: Technology and Management, IC 2014 (Athens - Corinthia, Greece 2014)
- ✓ St. Theohari and F. Petri, "Packaging Design and Production - Melinikon" (Poster) at the International Circle of Educational Institutes for Graphic Arts: Technology and Management, IC 2014 (Athens - Corinth, Greece 2014)
- ✓ St. Theohari and M. Dimopoulou, "Roneo - Mimeograph" (Poster) at International Conference International Circle of Educational Institutes for Graphic Arts: Technology and Management, IC 2014, Athens - Corinth, Greece, 2014
- ✓ St. Theohari and P. Gioti, "Aluminum Surface Treatment for Coloring, Corrosion Protection and Printing" Conference for Research at TEI of Athens (Technological Educational Institute of Athens, Greece, 2014)
- ✓ St. Theohari, «Pigmentos e corantes para tinta. Materials para embalagem» Momentum ARTEC24, Simposio se Design e Artes Graficas, Istintuto Polytecnico de Tomar, Portugal, 2014
- ✓ Stamatina Theohari*, Paraskevi Gioti, "Effect of aluminum surface treatment parameters on print quality by screen printing method", Science in Technology, Athens, Greece, November 5-7, 2015
- ✓ St. Theohari, A. Kanta, I. Tsangaraki-Kaplanoglou, "Chemical etching of aluminum as a pre-treatment improving the anti-corrosive properties of certain organic compounds", 4th International Conference of Engineering Against Failure (ICEAF IV), Skiathos, Greece, 2015
- ✓ A. Michailidou, St. Theohari and D. Tsimis "Water-based flexographic lamination inks", 48th International Conference IC Leipzig, Germany 2016
- ✓ St. Theohari, P. Gioti, I. Iakovidis, A. Tsigonias, I. Sianoudis, "Improvement of Printing Quality of Aluminum Substrate", 48th International Conference IC Leipzig, Germany 2016
- ✓ St. Theohari, A. Michailidou, "Water-based flexographic lamination printing inks", 6th World Congress of Typography and Visual Communication -ICTVC-, Thessaloniki, Greece 2016
- ✓ St. Theohari, D. Tsimis, A. Michailidou, V. Belessi and Sp. Nomikos "Development of new printing inks for flexible packaging applications", 4th International Conference in Design and Graphic Arts - CIDAG, Barcelona, Spain, 2016

- ✓ St. Theohari, D. Tsimis and D. Mantis, "Special effect of printing inks and overprint varnishes for packaging structures", 4th International Conference in Design and Graphic Arts - CIDAG, Barcelona, 2016
- ✓ St. Theohari, S. Kalogeropoulou, P. Pantazopoulou, V. Argyropoulos, "Corrosion behavior of anodic films on aluminum and aluminum alloy in seawater", 6th Pan-Hellenic Conference on Metallic Materials, Ioannina, Greece, 2016
- ✓ St. Theohari, I. Iakovidis and A. Karampotsos, "Printing on anodized aluminum surface", 6th Pan-Hellenic Conference on Metallic Materials, Ioannina, Greece, 2016
- ✓ M. Nomikou, St. Theohari*, S. Nomikos «Inks and Materials for anti-counterfeiting prints», Proceedings pp. 100-109, 5^o Scientific Conference "Smart Packaging. New types of Communication". ISBN 978-618-84016-0-0, Athens, 2018
- ✓ El. Louraki, St. Theohari*, "Special effects of printing inks and coatings for packaging applications", Proceedings p.282, 13th Paints Symposium "Research and Technology of Paints, Varnishes & Inks, Building a lasting Future" Paints-Varnishes-Inks Division of Greek Chemists Association, NTUA, Athens, March 2018
- ✓ E.Erga, M.Stagaki, I.Iakovidis, St. Theohari*, E.Tsaousoglou, "Modern approaches to marine antifouling paints", Proceedings p.291, 13th Paints Symposium "Research and Technology of Paints, Varnishes & Inks, Building a lasting Future" Paints-Varnishes-Inks Division of Greek Chemists Association, NTUA, Athens, March 2018
- ✓ T. Merteki, St. Theohari*, "In-Mould Labeling (IML)", Proceedings p.285, 13th Paints Symposium "Research and Technology of Paints, Varnishes & Inks, Building a lasting Future" Paints-Varnishes-Inks Division of Greek Chemists Association, NTUA, Athens, March 2018
- ✓ G. M. Koltzia, El. Kalatzi, Sp. Nomikos, St. Theohari*, "Quality control of inks for digital printing on flexible printing substrates", Proceedings p.283, 13th Paints Symposium "Research and Technology of Paints, Varnishes & Inks, Building a lasting Future" Paints-Varnishes-Inks Division of Greek Chemists Association, NTUA, Athens, March 2018
- ✓ A. Michailidou, St. Theohari*, "Technical issues relating to the pH of water-based printing inks", Proceedings p.284, 13th Paints Symposium "Research and Technology of Paints, Varnishes & Inks, Building a lasting Future" Paints-Varnishes-Inks Division of Greek Chemists Association, NTUA, Athens, March 2018
- ✓ St. Theohari*, S. Nomikos, M. Nomikou, "Inks, materials and technologies for security printing and authenticity – anticounterfeiting applications", Book of Abstracts, p.58, 5th International Conference in Design and Graphic Arts -CIDAG, Lisboa, 2018
- ✓ E. Kalaitzi, St. Theohari* « Looking to the future: Assessment of material life cycle when designing and manufacturing new products for modern printing applications», Book of Abstracts p. 88-89, 7^o International Conference of Typography and Visual Communication–7th ICTVC, Patras, 2019
- ✓ A. Michailidou, St. Theohari*, St. Gogou, Th. Thanopoulou «Packaging Design and Sustainability», Books of Abstracts p. 90-91, 7^o International Conference of Typography and Visual Communication–7th ICTVC, Patras, 2019
- ✓ Sanja Mahović Poljaček*, Tamara Tomašegović, Stamatina Theohari, G. Komporozou, M. Nikolaou and S.Tsoukala «The influence of certain characteristics of screen printing plates and inks on deposition of ink coatings on anodized aluminum substrates», 52nd International Circle Conferences, Athens, Greece, Sept. 2021.
- ✓ Iris Crete, Stamatina Theohari*, "Circular Economy and Packaging Materials", 52nd International Circle Conferences, Athens, Greece, Sept. 2021.
- ✓ Stamatina Theohari*; Maria-Georgia Nomikou; Konstantina Kolonia; Evangelia Pappa; Athanasios Karambotsos; Christos Kelemenis; Giota Tsitsirikou, "Materials and Printing process that improve

sustainability of tinfoil food cans, *Following good practices for a green future*", 6th CIDAG - International Conference in Design and Graphic Arts, Oct. 2021.

- ✓ Spyridon Nomikos*; Stamatina Theohari; Maria-Georgia Nomikou; Christos Kelemenis; Giota Tsitsirikou "Improving print quality and sustainability of tinfoil for food packaging", 6th CIDAG - International Conference in Design and Graphic Arts, Oct. 2021.

Other scientific articles

- ✓ Ir. Tsangaraki - Kaplanoglou, St. Theohari, V. Karagianni, R. Moschochoritou, "Methods of Enlargement of Aluminum Colors", "Χημικά Χρονικά" in Greek, Journal of the Association of Greek Chemists- General Edition, issue 10, pp. 241-243 (1995)
- ✓ St. Theohari, "The Developments Concerning Paint Powders in the European & American Market", Extra Profile & Constructions (6th edition for Aluminum, Glass & Manufacturing), (1), pp. 98-100, (1997)
- ✓ St. Theohari, A. Vafiadou, El. Goupiou, "Dyes as an Essential Component of Printing Inks", "Χημικά Χρονικά" in Greek, Journal of the Association of Greek Chemicals - General Edition, (7), pp. 24-27, (2011)
- ✓ St. Theohari, M. Stefani, G. Vittas "Aluminum as a material of lithographic printing plates" – Typography, Greek Edition (December 2011)
- ✓ St. Theohari, D. Tsimis, I. Metaxakis, D. Bahoumas "The role of Chemistry in the deinking and recycling of paper" in "Χημικά Χρονικά", Journal of the Association of Greek Chemists- General Edition, issue of August - September, pp. 20-24, (2012)
- ✓ El. Kalaitzi and St. Theohari, "Looking to the future: Estimation of the life cycle of materials during the design and manufacture of new products for modern printing applications", "Chemical Chronicles" (Official Journal of the Hellenic Chemical Association) - General Edition, issue 05, volume 82 June 2020, pp. 16-24.
- ✓ Con. Colonia and St. Theohari, "Coating materials for the protection of metal containers for food packaging from corrosion", Chemical Chronicles (Official Journal of the Hellenic Chemical Association) - General Edition, issue 09, volume 82 November 2020, pp. 16-24.
- ✓ Con. Colonia and St. Theohari, "Bisphenol A (BPA) and alternative metallic coating materials packaging without BPA ", Chemical Chronicles (Official Journal of the Hellenic Chemical Association) - General Edition, issue 03, volume 83 April 2021, pp. 9-13.

Research fields of interest

- ✓ Surface treatment of materials for aesthetic applications and protection against surface corrosion
- ✓ Processing and applications of printing substrates (paper, cardboard, metals, glass, textiles)
- ✓ Print Inks, Printing Materials, 3D Printing: materials, Quality Control, Applications
- ✓ Dyes, pigments, colors-paints: materials, quality control, applications

Referee/Reviewer for international scientific journals

- ✓ Int. J. of Surface Science and Engineering (IJSURFSE) (2021)
- ✓ Surface and Coatings Technology – Elsevier (2020)
- ✓ Coloration Technology, Society of Dyers and Colourists (2018)
- ✓ Acta Graphica (2016)
- ✓ Applied Surface Science – Elsevier (2015)
- ✓ Materials – MDPI (2015)

Awards

- ✓ Highly Commended Award for Excellence 2011 (Emerald Literati Network) for the research article: I. Tsangaraki-Kaplanoglou, A. Kanta, S. Theohari and V. Ninni, «Acid-dyes as corrosion inhibitors for mechanically pretreated aluminum» published in “Anti-Corrosion Methods and Materials”, Vol. 57, No 1, 6-12 (2010)
- ✓ Award for the educational presentations “Open Academic Courses” of TEI of Athens (GUnet), 2015

Member of scientific and professional associations

Member of the Scientific Association of Greek Chemists (EEX) and of the Scientific Department "Paints, Varnishes and Inks"