MORTEZA GANJAEE SARI, PhD

Institute for Color Science and Technology, Hossain Abad Sq., P.O. Box: 16765-654
Office: +982122944184 Ext. 138 - Cell: +989125170296
Email: ganjaee-mo@icrc.ac.ir

- ## ACADEMIC Degrees

  - **PhD in Polymer Engineering (Nanotechnology)**, Amirkabir University of Technology (Tehran Polytechnic), 2006-2010, GPA: 19.38/20
  - **MSc in Polymer Engineering (Color Science and Technology), Amirkabir** University of Technology (Tehran Polytechnic), 2004-2006, GPA: 17.72/20
  - **BSc in Polymer Engineering (Color Science and Technology), Amirkabir** University of Technology (Tehran Polytechnic), 1999-2004, GPA: 14.39/20

- ## ACADEMIC Researches

  - **PhD Dissertation (Supervisors: Prof. Siamak Moradian, Dr. Saeed Bastani)**

Investigating the Dye-ability Improvement of Polypropylene Exploiting Nano-structural Cross-linked Dendritic Polymers

  - **MSc Thesis (Supervisor: Prof. Mohsen Mohseni Bozorgi)**

Preparation and Characterization of a Hybrid Nanocomposite Network as a Solid Host for Solid-State Dye Lasers Using Sol-Gel Method

  - **Graduation Project (Supervisor: S. Mahmood Kassiriha)**

Formulation and Characterization of a Bituminous Emulsion as a Water-proofing Coating System

- ## TEACHING Experiences

  - **Graduate Level (MSc & PhD)**
    - Advanced Physical Chemistry of Surfaces
    - Interfaces and Colloids
  - **Undergraduate Level (BSc)**
    - Physical Chemistry of Paints
    - Paints and Coatings Quality Control Laboratory
    - Paint Formulation Laboratory

- ## PUBLICATIONS

  - **Journal Papers**

1. *"Developing a Niobium/Graphite like Carbon Thin film with Superior Mechanical and Anti-corrosion Performance on GTD-450 stainless steel substrate"*, **Carbon**, ***under review, 2019.***
2. *"Polyester-amide Hyperbranched Polymer as an Interfacial Modifier for Graphene Oxide Nanosheets: Mechanistic approach in an epoxy nanocomposite coating"*, **Applied Surface Science,** ***under review, 2019.***

3. *"Hydroxyl-terminated hyperbranched polyamide non-covalently assembled graphene oxide platforms-reinforced epoxy/polyamine nanocomposites with enhanced barrier anti-corrosion properties"*, **Applied Surface Science,** ***under review, 2019.***
4. *"Graphene oxide nanoflakes as an efficient dispersing agent for nanoclay lamellae in an epoxy-phenolic nanocomposite coating: Mechanistic approach",* **Composite Science and Technology**, ***under review, 2019.***
5. *"Corrosion resistance enhancement of mild steel in chloride solution by an epoxy composite reinforced with polyamidoamine dendrimer-covalently functionalized graphene oxide nanosheets",* **Applied surface science**, ***under review, 2019.***
6. *"Diamond-like Carbon-Deposited Films: A New Class of Bio-Corrosion Protective Coatings"*, **Surface Innovations**, 6, 266-176, **2018**.
7. *"Hyperbranched poly(ethyleneimine) physically attached to silica nanoparticles to facilitate curing of epoxy nanocomposite coatings",* **Progress in Organic Coatings,** 120, 100–109, **2018**.
8. *"An attempt to mechanistically explain the viscoelastic behavior of transparent epoxy/starch-modified ZnO nanocomposite coatings"*, **Progress in Organic Coatings,** 119, 171-182, **2018**.
9. *"Diamond-like carbon thin films prepared by pulsed-DC PE-CVD for biomedical applications",* **Surface Innovations**, 6, 167-175, **2018**.
10. *"Development and curing potential of epoxy/starch-functionalized graphene oxide nanocomposite coatings",* **Progress in Organic Coatings,** 119, 194-202, **2018**.
11. *"Designing a Multi-Functionalized Clay Lamella-co-Graphene Oxide Nanosheet System: An inventive approach to enhance mechanical characteristics of the corresponding epoxy-based nanocomposite coating",* **Progress in Organic Coatings,** 116, 7-20, **2018**.
12. *"Epoxy/starch-modified nano-zinc oxide transparent nanocomposite coatings: A showcase of superior curing behavior",* **Progress in Organic Coatings,** 115, 143-150, **2018**.
13. *"Epoxy/PAMAM dendrimer-modified graphene oxide nanocomposite coatings: Nonisothermal cure kinetics study"*, **Progress in Organic Coatings,** 114, 233-243, **2018**.
14. *"Fabricating an epoxy composite coating with enhanced corrosion resistance through impregnation of functionalized graphene oxide-co-montmorillonite Nanoplatelet",* **Corrosion Science,** 129, 38-53, **2017**.
15. *"Transparent nanocomposite coatings based on epoxy and layered double hydroxide: Nonisothermal cure kinetics and viscoelastic behavior assessments",* **Progress in Organic Coatings,** 113, 126-135, **2017.**
16. *"Network formation and thermal stability enhancement in evolutionary crosslinked PDMS elastomers with sol-gel-formed silica nanoparticles: Comparativeness between as-received and pre-hydrolyzed TEOS",* **Progress in Organic Coatings,** 113, 117-125, **2017.**
17. *"A physico-mechanical investigation of a novel hyperbranchedpolymer-modified clay/epoxy nanocomposite coating",* **Progress in Organic Coatings,** 99, 263-273,

2016.

18. *"Studying the effect of hyperbranched polymer modification on the kinetics of curing reactions and physical/mechanical properties of UV-curable coatings",* **Progress in Organic Coatings,** 90, 187-199, **2016.**
19. *"The chemo-rheological behavior of an acrylic based UV-curable inkjet ink: Effect of surface chemistry for hyperbranched polymers",* **Progress in Organic Coatings**, 90, 399-406, **2016**.
20. *"Influence of nanoclay particles modification by polyester-amide hyperbranched polymer on the corrosion protective performance of the epoxy nanocomposite",* **Corrosion Science**, 92**,** 162-172, **2015.**
21. *"Structure–property relationship in epoxy-silica hybrid nanocomposites: The role of organic solvent in achieving silica domains",* **Journal of Vinyl and Additive Technology**, 21, 305-313, **2015**.
22. "*Developing a Novel Hyperbranched Polymer-Modified PP/Clay Nanocomposite: Characteristics Investigation*", **Polymer-Plastics Technology and Engineering**, 53, 1561–1573, **2014**.
23. "*Dynamic Mechanical Behavior and Nanostructure Morphology of Hyperbranched-modified Polypropylene Blends*", **Polymer International**, 63, 195-205, **2014**.
24. "*SAXS Investigation of Structure-Property Relationship of Polypropylene/Montmorillonite Nanocomposites During Load-Cycling*", **Polymers for Advanced Technologies**, 24, 693–704, **2013.**
25. "*Taguchi-based analysis towards PA6/NBR/Nanoclay nanocomposites: The role of processing variables*", **Journal of Applied Polymer Science**, 130, 820–828, **2013**.
26. "*Correlation of nanostructural parameters and macromechanical behavior of hyperbranched-modified polypropylene using time-resolved SAXS measurements*", **Polymer International**, 62, 1101-1111, **2013**.
27. "*Properties and semicrystalline structure evolution of polypropylene/montmorillonite nanocomposites under mechanical load*", **Macromolecules**, 45, 962-973, **2012**.
28. "*Nanostructure Evolution Mechanisms During Slow Load-Cycling of Oriented HDPE/PA Microfibrillar Blends as a Function of Composition",* **Macromolecular Materials and Engineering**, feature article, 297, 1102-1113, **2012**.
29. "*Modification of poly(propylene) by grafted polyester-amide-based dendritic nanostructures with the aim of improving its dyeability*", **Journal of Applied Polymer Science**, 124, 2449–2462, **2012**.
30. "*Structure and Mechanical Properties of an Injection-Molded Thermoplastic Polyurethane as a Function of Melt Temperature*", **Macromolecular Chemistry and Physics**, feature article, 212, 2234-2248, **2011**.
31. "*Preparation of organically modified hybrid nanocomposites for optical applications*", **Journal of Optoelectronics and Advanced Materials**, Volume 10, No. 3, March, **2008**.
32. *"Hyperbranched Polymers-Modified Epoxy-based Nanocomposite Coatings"*, **Journal of Studies in Color World**, 7, 45-59, **2017**.
33. *"Surface modification and characterization of polyester amide hyperbranched*

polymer with 3-mercaptopropyl trimethoxysilane from sol-gel method", **J. Color. Sci. Tech.**, 11, 59-68, **2017**.

34. *"Effect of Hyperbranched Polymers on Curing Behavior of UV Curable Inks in Inkjet Printing"*, **Iran J. Polym. Sci. Technol.**, 29, 276-285, **2016**.

35. *"The effect of adding zinc oxide nanoparticles on color change and adhesion strength of polyurethane coating on wood surface"*, **Iranian Journal of Wood and Paper Science Research**, 30, 690-704, **2016**.

36. *"Dendritic Polymers: Physical properties and their applications in polymer blends"*, **Journal of Polymerization**, 5, 61-73, **2015**.

37. *"Surface Modification of Polyesteramide-Based Hyperbranched Polymer Using Acrylic Acid and Study of its Impact on the Viscosity of TMPTA"*, **Journal of Color Science & Technology**, 8, 261-270, **2015**.

38. *"A Study on modifying a hyperbranched polymer with hydroxyl end-groups using saturated fatty acid and investigating its effects on the rheological behavior of epoxy di-acrylate oligomers",* **Journal of Advanced Materials & Novel Coatings (AMNC)**, 8, 542-552, **2014**.

39. "*Polypropylene Nanocomposite based on Nanoclay and Polyester-amide Hyperbranched Polymer: Development and Characteristics Investigation*", **Journal of Color Science & Technology**, 7, 347-364, **2013**.

40. "*Dendritic Polymers: Dye-ability Enhancers*", **Journal of Studies in Color World**, 3, 13-24, **2013**.

41. "*A Study of Radiation-curable Inks in Ink-jet Printing*", **Journal of Studies in Color World**, 4, 3-12, **2013**.

42. "*Synthesis and Characterization of Organic-Inorganic Polyacrylate-Silica Nanocomposite*", **Iranian Journal of Polymer Science and Technology**, 20th Year of publication, No. 4, November, **2007.**

➢ Conference Papers

1. **Oral**: *"A Novel Hyperbranched Polymer-Modified Clay/Epoxy Nanocomposite: Physical-mechanical Properties Investigation"*, The 6th International Color & Coating Congress, 10-12 November 2015, Institute for Color Science and Technology, Tehran, Iran.

2. **Poster**: *"The effect of hyperbranched polymer on the curing behavior of uv curable inkjet ink"*, The 6th International Color & Coating Congress, 10-12 November 2015, Institute for Color Science and Technology, Tehran, Iran.

3. **Poster**: *"Rheological study of UV curable pigmented coating containing hydroxyl and mercaptan end groups hyperbranched polymers"*, The 6th International Color & Coating Congress, 10-12 November 2015, Institute for Color Science and Technology, Tehran, Iran.

4. **Oral**: *"Surface modification of nanoclay by Polyester-amide hyperbranched polymer and its effect on anti-corrosion properties of an epoxy coating",* 15th Iranian National Corrosion Conference, 22-23 October, 2014, Tehran, Iran.

5. **Oral**: *"The effect of a polyester-amide based hyperbranched polymer on curing*

behavior of UV curable multifunctional monomers", 5th International Color and Coatings Congress (ICCC 2013), 18-19 December, 2013, IUT, Isfahan, Iran.

6. **Poster**: *"Functional Block Copolymers as Compatibilizers for Nanoclays in Polypropylene Nanocomposites"*, Nordic Polymer Days, Stockholm, Sweden, 2011.
7. **Oral**: *"Relating Performance and Structure of Advanced Nanocomposites by New Methods in Time-resolved X-Ray Scattering",* The Nineteenth International Conference on Processing and Fabrication of Advanced Materials, PFAM-XIX, 14 - 17 January, 2011, Auckland, New Zealand.
8. **Oral**: *"Nanodeformation of Polymers and Polymer-based Nanocomposites Assessed by in-situ SAXS Measurements",* The Nineteenth International Conference on Processing and Fabrication of Advanced Materials, PFAM-XIX, 14 - 17 January, 2011, Auckland, New Zealand.
9. **Oral**: "*High-throughput procedures for the study of structure and its evolution in soft materials with fiber symmetry",* VIII International Conference on X-Ray Investigations of Polymer Structure XIPS, 8-10 December, 2010, Wroclaw, Poland.
10. **Oral**: *"Correlation of nano-structural parameters and mechanical behavior of dendritically modified polypropylene using in situ SAXS measurements",* VIII International Conference on X-Ray Investigations of Polymer Structure XIPS, 8-10 December, 2010, Wroclaw, Poland.
11. **Oral**: *"In-situ monitoring the transient nanostructure of polypropylene/MWCNT nanocomposite under uniaxial load-cycling by SAXS",* VIII International Conference on X-Ray Investigations of Polymer Structure XIPS, 8-10 December, 2010, Wroclaw, Poland.
12. **Oral**: "*Structure Gradients in injection molded PP and PP with CNT",* NANOTOUGH F2F-Meeting, October 2010, Rome, Italy.
13. **Poster**: *"Modification of polypropylene by grafted polyester-amide-based dendritic nanostructures with the aim of improving dyeing-ability",* 14th International Conference on "Polymeric Materials" September 15-17, 2010, Halle (Saale), Germany.
14. **Oral**: "*Structure evolution of Polypropylene/MWCNT nanocomposites under uniaxial deformation monitored by SAXS",* 14th International Conference on "Polymeric Materials" September 15-17, 2010, Halle (Saale), Germany.
15. **Oral**: "*Nanostructure Evolution of Thermoplastic Polyurethanes Under Uniaxial Deformation Monitored by SAXS"*, PPS-26 The Polymer Processing Society 26th Annual Meeting, July 4-8, 2010, Banff, Canada.
16. **Oral**: SEVENTH INTERNATIONAL CONFERENCE ON COMPOSITE SCIENCE AND TECHNOLOGY January 20–22, 2009 American University of Sharjah, Sharjah, United Arab Emirates.
17. **Oral**: The 8th International Seminar of Polymer Science and Technology, ISPST, Sharif University, Tehran, Iran, 2007.
18. **Oral**: Federation of Societies for Coatings Technology, 3-5 October, 2007 - ICE 2007 Future Coat! And International Coatings Exposition, Toronto, Ont., Canada.
19. **Oral**: Second International Nano and Hybrid Coatings Conference, 7-8 March 2007,

Royal Crown Hotel, Brussels.

20. **Oral**: First Student Seminar of Nanotechnology, 19-21 February, 2007, Tarbiat Moderres University, Tehran, Iran.
21. **Oral**: Iran 11th Congress of Chemical Engineering, 28-30 November, 2006, Tehran, Iran.

- ## Industrially funded researches

1. Designing a field-joint solvent-free epoxy-based coating for buried pipelines, **Project Manager**, ICST, 2019-present Tehran, Iran.

2. Designing an optimal formulation for Epoxy-anhydride based nanocomposites retaining high thermal and chemical properties, **Project Manager**, ICST, 2016-2017, Tehran, Iran.

3. An investigation to formulation developing of an epoxy-phenolic based anticorrosive primer for pipelines, **Project co-Manager**, ICST, 2016-2017, Tehran, Iran.

4. Developing and optimization of a polyamine-based epoxy curing agent with improved mechanical and appearance properties of the film, **Project Manager**, ICST, 2015-2016, Tehran, Iran.

5. Developing paintable PP nanocomposite using Nanoclay and polyester-amide hyperbranched polymer, **Project Manager**, ICST, 2014-2015, Tehran, Iran.

6. Developing a hybrid epoxy polyamide nanocomposite using Nanoclay and polyester-amide hyperbranched polymer with elevated mechanical and anti-corrosive properties, **Project Manager**, ICST, 2013-2014, Tehran, Iran.

7. Surface treatment of glass beads by the use of sol-gel technique in order to increase their lifetime and compatibility with traffic paints, **Project Manager**, ICST, 2012-2013, Tehran, Iran.

8. Preparation of PP-Clay nanocomposites with high toughness, The 7th framework program of the European Union (Project NANOTOUGH FP7-NMP-2007-LARGE), Project Assistant, **Project Manager: Prof. Norbert Stribeck**, Technical and Macromolecular Chemistry Department, Hamburg University, Hamburg, Germany.

- ## Graduate Students Supervisory

1. **MSc Thesis**: “Designing an inhibitor-impregnated carbon nanostructure to develop an epoxy-based nanocomposite coating with improved cathodic disbondment resistance”, Supervisor, Apr 2019- Apr 2021.

2. **MSc Thesis**: “Toughening of an epoxy-nanocomposite coating using modified

Silanized-PAMAM dendrimers/Graphene Oxide", Advisor, Feb 2019- Feb 2021.

3. **MSc Thesis**: "Toughening of an epoxy-nanocomposite coating using modified Silanized-PAMAM dendrimers/Nanoclay", Co-Supervisor, Feb 2019- Feb 2021.

4. **MSc Thesis**: "Chemical surface treatment of a Magnesium alloy by a nanostructure Praseodymium-based conversion coating and its enhancement on the performance of a polyurethane coating", Advisor, Jul 2017- July 2019.

5. **MSc Thesis**: "Surface treatment of carbon-based nanoparticles using PAMAM dendrimers and its effect on the performance of an epoxy-based nanocomposite coating", Co-Supervisor, Oct 2018- Oct 2020.

6. **MSc Thesis**: "Developing an Epoxy-Phenolic Nanocomposite Coating based on Nano Graphene Oxide- Nanoclay: Investigating the synergistic effect on the improvement of physical-mechanical and corrosion resistance properties", Supervisor, Jul 2017-Apr 2019.

7. **MSc Thesis**: "Charactering the physical-mechanical properties and corrosion resistance of an epoxy-based nanocomposite coating containing hyperbranched modified-graphene oxide nanoparticles", Supervisor, Feb 2017- Feb 2019.

8. **MSc Thesis**: "The Effect of Surface Modification of Hollow Glass Sphere and Nano Silica Particles on the Final Properties of Heat Insulation Materials", Co-Supervisor, March 2013-March 2015.

9. **MSc Thesis**: "Preparation and Properties Study of an Automotive UV-curable Pigmented Coating Containing Nano Structure Dendritic Polymers", Co-Supervisor, March 2013-March 2015.

10. **MSc Thesis**: "The Investigation of the Properties of UV-Curable Inkje Inks Containing Nano Structure Dendritic Polymers", Advisor, December 2013-December 2015.

11. **MSc Thesis**: "Investigation on the effect of Nano Zinc Oxide Particles on the Physical Properties of Polyurethane Clear Coat on Wooden Surfaces", Advisor, September 2012-September 2014.

12. **MSc Thesis**: "Investigating the Effect of Nano Dendritic Polymers on Curing Behavior and Final Properties of a UV-curable Coating Containing CNT and Graphene", Co-Supervisor, February 2012-February 2014.

13. **MSc Thesis**: "Comparing the performance of an Anticorrosive Sol-gel Nanocoating on Various Substrates", Co-supervisor, March 2012-March 2013.

14. **PhD Thesis**: "Designing an epoxy-silicone self-stratifying nanocomposite coatings", Supervisor, September 2017- Now

15. **PhD Thesis**: “Designing a self-healing anti-corrosion Polyisobutylene-based field-joint coating for buried pipeline”, Co-Supervisor, Sep 2018- Now.

16. **PhD Thesis**: “Synthesis of Carbon-coated Cerium oxide nanoparticles for improving antistatic and anticorrosion properties of an epoxy nanocomposite coating”, Advisor, Sep 2018- Now

17. **PhD Thesis**: “Studying the Physical-Mechanical Behavior of PDMS-based Silicon Elastomer Coatings Containing Nano Graphene”, Co-Supervisor, Mar 2012- Jan 2018

- ## National Patents

1. A method creation to investigate the photo-polymerization process of uv-curable systems utilizing time-resolved rheometry, 2015.

- ## Books

1. Technical Edition (in Persian) of “Training of Elements Design and Strength of Materials by ANSYS”, AFRANG Training Books Publisher, 2005.

2. Technical Edition (in Persian) of “Training of Vibration and Machine Dynamics by ANSYS”, AFRAG Training Books Publisher, 2005.

- ## Peer Review

Publons Verified Record

PREPARED BY PUBLONS ON AUGUST 26TH 2018

publons

Morteza Ganjaee

https://publons.com/a/1066569

Peer Review Summary

Performed 14 reviews for journals including *Journal of Materials Science: Materials in Electronics* and *Journal of Applied Polymer Science*; placing in the 83rd percentile for verified review contributions on Publons up until August 2018.

7	Journal of Materials Science: Materials in Electronics
4	Journal of Applied Polymer Science
1	Advances in Polymer Technology
1	Science and Engineering of Composite Materials
1	Journal of Studies in Color World

- ## Experiences

➢ ***2011-Now***

Faculty of Institute for Color Science and Technology (ICST), Department of Nanomaterials and Nanocoatings

- ***2016-Now***

Head of Supervision and Evaluation Office- ICST

- ***2016-Now***

Member of the Administration Council- ICST

- ***2016-Now***

Member of the Technical Committee of Detecting Research Misdeeds- ICST

- ***2014-2015***

Head of Public & International Relations Organization- ICST

- ***2012-2016***

Director of the Secretariat of "The National Coordinating Center for Color Science and Technology"

- ***2012-2016***

Secretary the general of "The National Coordinating Center for Color Science and Technology"

- ***2009-2010***

Hamburg University (Germany) Guest Scientist
Working with Prof. Dr. Norbert Stribeck on SAXS and WAXS experiments in DESY (Deutsches Elektronen-Synchrotron) and other academic activities in Hamburg University

- ***2008-2009***

Part-time Professor of Azad University of Iran Mahshahr Branch
Different courses, laboratories and workshops of color and polymer engineering

- ***2006-2008***

Head Chief of Coating and Polymer Section of Novin Energy Industries Co.
Floor Coatings, Concrete Coatings, Industrial Coating, Fire-retardant Coatings, Fire-resistant Coatings, FRP Lining, Elastomeric Sealants, Chemically Stable Rubber, Fire Resistant Foams, Chemically Stable Plastics, Anodizing, …

- ***2005-2006***

Designer & Consultant Engineer of Iran Polymer and Petrochemical Center
Color Master Batch, Polymer Processing, Polymer Injection, …

- ***2004-2005***

Technical Editor of Afrang Publishing Group

- ***2003-2004***

Polymer and Coating Expert Technician of Kamal Sanat Andishe CO.

- ***2003***

Apprentice in Pars Pamchal Paint Manufacturing Co.

HONORS

- 1st place in PhD entrance examination, 2006.
- 3rd place in MSc among all my classmates, 2004-2006.
- Placed top 0.5% in the nationwide university entrance examination (Konkoor), 1999.

LANGUAGE PROFICIENCY

- **Persian (Farsi)**

Mother tongue

- **ENGLISH**

Fluent

- **GERMAN**

B1

- **FRENCH**

Beginner

CERTIFICATES

- Certificate of Mountain Climbing Course from Iran Mountaineering Federation
- Certificate in Rock Climbing Course from Iran Mountaineering Federation
- Certificate in Snow and Ice Climbing Course from Iran Mountaineering Federation
- Certificate in Caving (Exploring of Caves) Course from Iran Mountaineering Federation

SOCIETY AND COMMITTEE MEMBERSHIP

- Member of Iranian Nanotechnology Society
- Member of Scientific Iranian Society of Color Technology
- Member of Amirkabir University Alumni
- Chair of Students Committee at Polymer Engineering Department
- Chair and Technical Trainer of Amirkabir University Mountain and Rock Climbing Group

- ## ACTS
  - Conducting scientific workshops on coating subjects for ICST and National Iranian Oil and Petroleum Company
  - Sabbatical leave at Hamburg University in Germany under the supervision of Prof. Dr. Norbert Stribeck, studying on nanostructure of polymeric materials by WAXS and SAXS experiments, 2010-2011
  - Lecturer, Azad University, Mahshahr Port, Iran, Courses on Polymer Engineering (Coating Technology), 2009-2010
  - Learning English as a simultaneous interpreter in ASR institute under the supervision of Prof. A. M. Rezvani, since summer 2006-2010

- ## REFERENCES

  - **Dr. Ahmad Zeinolebadi**, Polymer Consult Buchner GmbH, Hamburg, ahmad.zeinolebadi@polymer-consult.com
  - **Dr. Almut Stribeck**, Hamburg University, Professor; almut@stribeck.de
  - **Dr. Mohsen Mohseni**, Amirkabir University of Technology, Professor; mmohseni@aut.ac.ir
  - **Dr. Siamak Moradian**, Amirkabir University of Technology, Professor; moradian@aut.ac.ir
  - **Dr. Saeed Bastani**, Institute for Color Science and Technology, Associate Professor; bastani@icrc.ac.ir