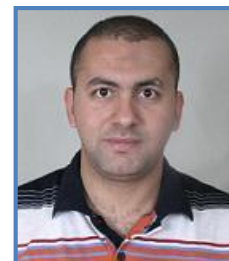


## Curriculum Vitae " C.V. "



- ❖ **Name** : **Emad Abd El-Mwla Abd El-Aal Matter**
- ❖ **Date of birth** : 8 / 8 / 1982.
- ❖ **Place of birth** : Ebshady, El-Shohadaa, Menofiya, Egypt.
- ❖ **Gender** : Male.
- ❖ **Marital status** : Married.
- ❖ **Citizenship** : Egyptian.
- ❖ **Religion** : Islam.
- ❖ **Military Service:** Exempted.
- ❖ **Academic Field:** Physical Chemistry (Electrochemistry)
- ❖ **Last highest Degree:** M.Sc. degree in Chemistry.
- ❖ **Languages** : Arabic (native)  
English (fluent in listening, speaking and writing)
- ❖ **Current Positions:** Assistant Lecturer (teaching the practical part of physical and inorganic chemistry to the undergraduate students)
- ❖ **Current Work Address:** Chemistry department, Faculty of Science, Damanhour University, Egypt, since 1 / 9 / 2007 until now.
- ❖ **Previous Work Address:** Chemistry department, Faculty of Science, South Valley University, Qena 83523, Egypt since 12/2003 to 9/2007.
- ❖ **Current scientific research situation:** Working over the PhD degree since 1/2009.
- ❖ **Honors Occasions:** I have been honored from the president of the Arab republic of Egypt for obtaining the first grade over all faculties of south valley university (in the studying) at 23/7/2004.
- ❖ **Pre-Master Courses:**
  - Advanced Instrumentation Analysis.
  - Advanced Inorganic Chemistry.
  - Molecular Spectroscopy and Their Applications.
  - Solid State Chemistry.
  - Special Electrochemistry Course.
  - English Course.
  - Advanced Electrochemistry.
- ❖ **Pre-PhD Courses:**
  1. Properties, selection and testing of materials, (6/6);
  2. Intercalation chemistry, (5.75/6).
  3. English language,(5.5/6)
  4. Modern methods in theoretical chemistry, (6/6).
  5. Equilibrium and kinetic of the heterogeneous processes (5.5/6)
- ❖ **Academic Background:**
  - (1) B. Sc. (Chemistry), Department of Chemistry, Faculty of Science at Qena, South Valley University, Egypt, 2003. General mention: very good with grade of honor (83.85%).

(2) M. Sc. (Chemistry) at 6 / 2007, South Valley University, Qena, Egypt, under the title:

**"Studies on the electrochemical behavior of Zn-Ni-Co alloy in different media".**

(3) Currently working over the Ph.D. study under the title,

**"Corrosion and protection of AA2024 aluminium alloy by cerium compounds in chloride medium."**

Supervised By

DSc. Prof. Dr. Vladimir Kozhukharov  
Head of LAMAR  
Department of Silicate Technology, UCTM

Prof. Dr. Maria. Machkova  
Associated Professor of Physical Chemistry  
Director of the Chemical Sciences Faculty  
Physical Chemistry Department, UCTM

❖ **Previous And Current Professional Positions:**

- (1) *Demonstrator, Department of Chemistry at Qena, South Valley University, 12/2003 - 5/2007.*
- (2) *Assistant Lecturer, Department of Chemistry at Qena, South Valley University, 5/2007- 9/2007.*
- (3) *Assistant Lecturer, Department of Chemistry at Damanhour, Alexandria University, 9/2007- 9/2010.*
- (4) *Assistant Lecturer, Department of Chemistry, Damanhour University, 9/2010 - till now.*

❖ **Current Scientific Interest**

- Sol-gel synthesis and its properties characterization for various applications,
- Nano-composite hybrid sol-gel coatings,
- Corrosion and corrosion protection of aluminium alloys,
- Electrodeposition of metals and alloys,
- Rare earth elements.

❖ **Participation in the conferences:**

**2.1 International Conferences:**

- 7.1 First International Conference on Materials for energy, 4 - 8 July, 2010, Karlsruhe, Germany.
- 7.2 9<sup>th</sup> European Symposium on Electrochemical Engineering, (9<sup>th</sup> ESEE)", 19-23 June, 2011, Chania, Crete, Greece.

**2.2 National conferences:**

- [1]. Annual conference for Chemical technologies, Biotechnologies, and Food technologies, 2009, University of Russe, Razgrad, Bulgaria.
- [2]. Sofia Electrochemical Days, Bulgarian Academy of the Sciences, May 11-13, 2010, Sofia, Bulgaria.
- [3]. 12<sup>th</sup> International Workshop NANOSCIENCE & NANOTECHNOLOGY, Technical University, 26-27 November, 2010, Varna, Bulgaria.
- [4]. Annual Conference of Ruse University, 2010, Razgrad, Bulgaria.
- [5]. Annular Conference of Young Scientists, 2010", University of Chemical Technology and Metallurgy, Sofia, Bulgaria.

- [6]. Fifth Balkan Conference on Glass Science & Technology and 17th - Conference on Glass and Ceramics, 25 – 29 September, 2011, Nessebar, Bulgaria.
- [7]. Annular Conference of Young Scientists 2011”, University of Chemical Technology and Metallurgy, Sofia, Bulgaria.
- [8]. Annual Conference of Ruse University, 4-5 November, 2011, Razgrad, Bulgaria.

❖ **LIST OF PUBLICATIONS:**

- [1]. Mortaga M. Abou-Krishna, H. Rageh and E. A. Matter, Electrochemical studies of zinc-nickel-cobalt codeposition in sulphate bath, the fifth international conference on electrochemistry and its applications, South Valley University, Qena, Egypt (2006)].
- [2]. M. M. Abou-Krishna, H. M. Rageh and E. A. Matter, "Electrochemical studies on the electrodeposited Zn-Ni-Co ternary alloy in different media" J. Surface & Coatings Technology 202 (2008) 3739-3746.
- [3]. E. Matter, S. Kozhukharov, M. Machkova and V. Kozhukharov, Influence of the interactions between the corrosion inhibitor and nano-containers over the corrosion protective capability of hybrid nano-composite pre-treatments, Proceeds. Ruse Union of Scientists, Ruse University 48 (2009) 19-23.
- [4]. Emad Matter and Stephan Kozhukharov, Correlation between preliminary pretreatments and the behaviour of AA2024 - aluminium alloy in 3.5% NaCl model corrosive medium, Proceeds. Ruse University 49, (2010), 14-19.
- [5]. Stephan Kozhukharov and Emad Matter, Comparative evaluation over self-healing effect of hybrid nano-composite pre-treatments, Proceeds. First International Conference on Materials for energy 4 - 8 July (2010) Karlsruhe (Germany) B 966-968.
- [6]. E.A. Matter, S.V. Kozhukharov and M.S. Machkova, “Effect of the preliminary treatments of AA2024 aluminium alloy on the superficial morphology and the corrosion behaviour in chloride solution”, Bulgarian Chemical Communications 43 (1) (2011) 23-30.
- [7]. E.A. Matter and S. Kozhukharov, Assessment of the self healing abilities of hybrid nano-composite pre-treatments with artificial defects in chloride solution Nanosci-Nanotech. 11 (2011) 72-75.
- [8]. E.A. Matter, S. Kozhukharov, A. Gyofova, M. Machkova, V. Kozhukharov AA2024 corrosion protection by hybrid coatings incorporated with Ce(III) and Ce(IV) inhibitors Univ. Chem. Technol. Met. (2011). (In press)
- [9]. E.A. Matter, S. Kozhukharov and M. Machkova, SEM & EDX determination of the impact of inhibitor containing corrosive media over the AA2024 superficial morphology Annual Proceeds of “Angel Kounchev” Ruse University (2011). (In press)
- [10]. E.A. Matter, S. Kozhukharov, M. Machkova and V. Kozhukharov, Electrochemical studies on the corrosion inhibition of AA2024 aluminium alloy by rare earth ammonium nitrates in 3.5 % NaCl solutions, Materials and Corrosion, 2011, 62, No. 9999, DOI: 10.1002/maco.201106349.

- [11]. E.A. Matter, S. Kozhukharov, M. Machkova and V. Kozhukharov, Reproducibility of the corrosion parameters for AA2024 aluminium alloy in chloride solution at different preliminary treatments, Corrosion Science (2011) (In press).
- [12]. E.A. Matter, S. Kozhukharov, M. Machkova and V. Kozhukharov, Comparison between the inhibition efficiencies of Ce(III)/Ce(IV) ammonium nitrates against corrosion of AA2024 aluminium alloy in low concentrated chloride medium, Corrosion Science, (2011). (In press)

❖ **Awarded Certificates**

Certificate for 2<sup>nd</sup> place in the best 3 papers presented during the participants in Sofia Electrochemical Days conference, Bulgarian Academy of the Sciences, May 11-13, 2010, Sofia, Bulgaria.

❖ **Training and Development:**

- 1- Cultural Course for Teaching Staff Assistants sponsor leaders preparing institution at Helwan.
- 2-Teaching assistant preparing course at presentation skills sponsor south valley university (Faculty of Education) (period: June 2003).

❖ **OTHER ACTIVITIES:**

- ❖ *Participated in the workshop program (DONACC) about Development of New Analytical Chemistry Curriculum in Faculties of Science in Upper Egypt, 2005, Faculty of Science, Assiut University.*
- ❖ *Participation in the preparing and organizing committee of the fifth international conference on electrochemistry and its applications, South valley University, 2006, Luxor, Egypt.*
- ❖ *Participated in the training program for (Atomic Absorption, HPLC and Instrumental Analysis for Environmental Research) held from the 18 - 3-2007 to 21-3-2007 at the center for environmental research and applied science in Qena.*
- ❖ *Participated in the training program for Faculty and Leadership Development Project FLDP, about preparing academic researches, 2006, South Valley University.*
- ❖ *Participated in the training program for Faculty and Leadership Development Project FLDP, about teaching by technique, 2006, South Valley University.*
- ❖ *Participated in the training program for Faculty and Leadership Development Project FLDP, about skills of effective presentation, 2007, South Valley University.*
- ❖ *Participated in the training program for Faculty and Leadership Development Project FLDP, about New Trends in Teaching (T<sub>2</sub>) , 2007, Alexandria University.*
- ❖ *Lecturer and computer trainer in the project of Training University graduates on Information Technology and Microsoft office group programs.*
- ❖ *Lecturer and computer trainer in the project of Training University Assistant Lecturers and Demonstrates on Information Technology and Microsoft office group programs.*

- ❖ *Lecturer and computer trainer of Information Technology and Microsoft office group programs through Graduates Training Program supported by the Arab Academy for Sciences and Technology in cooperation with the Ministry of Communication and Information Technology at Women's Health Improvement Association from 2003-2005.*
- ❖ *Lecturer and computer trainer in the project of Training University Assistant Lecturers and Demonstrates on Information Technology and Microsoft office group programs supported by central unit of ICT training (CUICTT) about improving higher education workforce ICT skills project.*

❖ **COMPUTER SKILLS**

Name the software(s) and the nature & purpose for using such software(s):	
1-Information Technology	Windows Xp, vista, and 7.
2- Microsoft Office 2007 and 2010.	Writing and preparing different documents, papers, reports and lecture. Presentation of results, drawing Figures and other data for publication, seminars, lectures, conferences and other presentations.
3- TG/DSC and DTA	For thermal analysis
4- Sigma Plot, Photoshop 8 CS, Adobe Illustrator, Origin, End Note, Internet and Movie Maker	As above.
5-Other software such as: Isis and chemdraw software	For chemical compounds structure drawing
6-JEOL and LYRA/TESCAN software, SEM and EDX.	For superficial morphology and chemical composition measurements
7-EG&G Potentiostat / Galvanostat 352, and AUTOLAB PG 30/2 of ECOCHEMIE.	GPES, FRA and Nova corrosion software for the electrochemical measurements
8- Atomic Absorption Spectroscopy (AAS)	For quantitative analysis measurements
9- Atomic Force Microscope (AFM)	For surface topography measurements

❖ **Personal Qualities:**

Very good communication skills, committed, punctual, able to work under stress, good team player, hard worker.

❖ **Contacts:**

**Tel.:**

❖ **Cell** : 002 / 010 23 83 394

**Home** : 002 / 048 27 76 043

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➤ **Email<sub>1</sub>**: e\_a\_matter@yahoo.com

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*Signature*

**Emad Abd El-Mwla Matter**