



# Curriculum Vitae



وحدة ضمان  
الجودة

## Personal information

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Nationality	Egyptian		
Date of birth	20/1/1959		
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الدرجة الاكاديمية	Associate Prof.		
الاسم العلمى للنشر	Fatma A. Morsy		

## Education

	جامعة الحصول عليها	السنة	التخصص
Ph.D	Helwan University	1994	Chemical Technology
M.Sc	Helwan University	1988	Applied Chemistry
B.Sc	Cairo University	1981	Chemistry

## التسلسل الوظيفي (Current / Previous positions)

Title	السنة	التخصص
Demonstrator	1982-1988	Chemistry
Ass. Lecturer	1989-1994	Applied Chemistry
Lecturer	1994-2007	Applied Chemistry
Ass. Prof	2007- till now	Applied Chemistry


### الأنشطة العلمية و البحثية

م	البند خلال السنة			
1	المشاركة في الخطة البحثية للقسم	√		
2	المشاركة في إنشاء / تطوير المعامل البحثية	√		
3	عدد رسائل الماجستير / الدكتوراه التي تقوم بالاشراف عليها		الماجستير 5	الدكتوراه 1
4	عدد رسائل الماجستير / الدكتوراه التي تقوم بتحكيمها		الماجستير 3	الدكتوراه 0
5	الاشتراك في لجان امتحان القبول للدبلوم / للماجستير/ الدكتوراه			
6	المشاركة بالمحاضرات العامة و ندوات الرسائل العلمية بالقسم	√		

## Publications الأبحاث

م		البلد	اسم المجلة	سنة النشر
1.	Application of nanostructured titanium dioxide pigments in paper coating: a comparison between prepared and commercially available ones. <b>Fatma A. Morsy</b> , Samya El-Sherbiny, Marwa Samir, Osama A. Fouad	uk	Journal of Coatings Technology and Research Published on line:21, September, DOI:10.1007/s11998-015-9735-7	2015
2.	Synthesis and Evaluation of some food grade lubricating greases from local materials <b>Fatma A. Morsy</b> , Ahmed M. Ramdan, Mohamed F. EL-menier, Hesham M. Salah and Walaa M. Mahmmoud		Researcher 2015;7(4),	2015
3.	Enhancing egyptian kaolinite via calcination and dealumination for application in paper coating, accepted in Journal of Coatings Technology and Research, Samya El-Sherbiny, <b>Fatma A. Morsy</b> , Mervat S. Hassan and Heba F. Mohamed,	uk	Journal of Coatings Technology and Research, 12(4), 739–749	2015
4.	Nano-silica and SiO <sub>2</sub> /CaCO <sub>3</sub> nanocomposite prepared from semi-burned rice straw ash as modified papermaking fillers <b>Fatma A. Morsy</b> , Said M. El-Sheikh, Ahmed Barhoum ,	KSA	Arabian Journal of Chemistry	In press accepted 17 November 2014
5.	A new double layer epoxy coating for corrosion protection of Petroleum Equipments. Maher A. El Sockary, Ashraf M. El-Saeed, Samya I. El Sherbiny, <b>Fatma A. Morsy</b> , Ehab A. Dawood, and Mohamed A. ELleithy,	us	Int. Journal of Engineering Research and Applications Vol. 4, Issue 11 (Version - 5 , pp.65-73,	November 2014
6.	Preparation of superhydrophobic nanocalcite crystals using Box-Behnken design. SM El-Sheikh, A Barhoum, S El-Sherbiny, <b>F Morsy</b> ,	KSA	Arabian Journal of Chemistry	2014
7.	Modification and evaluation of Egyptian kaolinite as pigment for paper coating. <b>Fatma A. Morsy</b> a, Samya El-Sherbiny a, Mervat S. Hassanb, Heba F. Mohammed b	us	Powder Technology, 264 (2014) 430–438	2014
8.	Preparation and characterization of ultra-hydrophobic calcium carbonate nanoparticles- IOP Conference Series. A Barhoum, SM El-Sheikh, <b>F Morsy</b> , S El-Sherbiny, F Reniers, T Dufour	us	Materials Science and Engineering 64 (1), 012037	2014

9.	Preparation of Water Based Polymeric Binders and their Application in Paper Coating. Samya El-Sherbiny, <b>Fatma Morsy</b> , Ayman M. Atta, Salwa A. Ahmed	USA	j. Surf. Eng. Mater. & Adv. Techol., 4,140-154	2014
10.	Synthesis, characterization and application of TiO <sub>2</sub> nanopowders as special paper coating pigment. Samya El-Sherbiny • <b>Fatma Morsy</b> • Marwa Samir • Osama A. Fouad	Germany	Appl. Nanosci. On line 2 March	2013
11.	Synthesis and Characterization of Polymeric Additives and their Effect on Flow Properties of Waxy Egyptian Crude Oil. Ayman M. Atta, Rasha A., El-Ghazawy , <b>Fatma A, Morsy</b> , Ali Mohamed Salah Ali & Abdullah Elmorsy	US	Global Journal of Science Frontier Research Chemistry, 2013 13 ( 3 ) 21-27,	2013
12.	Fabrication and characterization copper/diamond composites for heat sink application using powder metallurgy. Zeinab Abdel Hamid <sup>1*</sup> , Sayed F. Moustafa, <b>Fatma A. Morsy</b> , Nevien Abdel Atty khalifa, Fatma Abdel Mouez.	China	Natural Science, 3 (11), 936-947 (2011)	2011
13.	Synthesis of New Cationic Surfactants Based on Recycled Poly(ethylene terephthalate) for Deinking of Solvent-Based Ink from Low-Density Polyethylene Surface Samya I. El-Sherbiny, <sup>1</sup> <b>Fatma A. Morsy</b> , <sup>1</sup> Ayman M. Atta <sup>2</sup>	US	Journal of Applied Polymer Science, (2010) 118, 1160–1172	2010
14.	Phytochemical and antimicrobial studies on Acacia Saligna Leaves. Sayed A.A. El-Toumy, Josline Y. Salib, Wessam M. Mohamed, <b>Fatma A. Morsy</b> , Samir Y. Elsayad.	Spain	Polyphenols Communications, Vol. 2, pp. 803-804, Salamanca, Spain 2008.	2008
15.	ECO-Friendly Dyeing of Chrome- Tanned Leather by Using the Extract of Acacia Leaves. Sayed A. A. El-Toumy, Josline Y.Salib, Wessam M Mohamed, Ahmed A. Haroun, <b>Fatma A. Morsy</b> , Samir Y. Elsayad,	Egypt	the 6th Al-Azhar International Scientific Conference, (AISC'08), Cairo, 24-26 March 2008	2008
16.	Adsorption of various surfactants in aqueous solutions and their application in water based inks. <b>Fatma A. Morsy</b> ,	USA	Ink Maker, Vol. 85, No. 5, pp.18-23	2007
17.	Surface properties and printability of polypropylene film treated by an air dielectric barrier discharge plasma. <b>F. A. Morsy</b> , S. Y. Elsayad, A. Bakry, and M. A. Eid,	UK	Surface Coatings International Part B : Coatings Transactions, Vol.89, B1, p.49-55,	2006
18.	A systematic approach to Egyptian ballpoint ink analysis for forensic science application. <b>Fatma A. Morsy</b> , Samya I. El-sherbiny and	Taiwan	Forensic Science Journal, Vol.4, No.1, p.1-13,	2005

	Mohamed Awadalla,			
19.	the role of some retention aids in water based gravure printing", Samya El-Sherbiny, <b>Fatma A. Morsy</b> and Essam S. Abdel- Saied,	UK	Paper technology, Vol. 46, No. 4, p.39-46,	2005
20.	Dielectric properties of coated paper and the effect of various soluble thickeners. <b>Fatma A. Morsy.</b>	USA	Polymer-Plastics technology & engineering, Vol. 44, No. 3, p. 351-362,	2005
21.	Thermal behaviour of paperboard: Influence on mechanical properties, fibre morphology and print quality. Samya El-sherbiny , <b>Fatma A. Morsy</b> , Samir Elsayad and Hanan Abd El-Kader,	UK	Paper Technology, Vol. 46, No. 2, p.33-38, 40-42,	2005
22.	Mechanical properties of coated paper: Influence of coating properties and pigment blends. <b>F. A. Morsy</b> and S. El-Sherbiny,	USA	Journal of Materials Science , Vol. 39, No. 24, p. 7327-7332	2004
23.	Factors affecting optical density in gravure printing. S. Elsayad., <b>F. Morsy</b> , S. El-Sherbiny and E. Abdou.,	USA	Gravure, Vol. 16, No.6, pp 80-86,	2002
24.	Some Factors Affecting Ink Transfer in Gravure Printing. S. Elsayad., <b>F. Morsy</b> , S. El-Sherbiny and E. Abdou,	UK	Pigment and Resin Technology , Vol. 31, No. 4, pp 234-240	2002
25.	Effect of some paper coating parameters on print gloss of offset prints. Elsayad. S., El-Sherbiny, S., <b>Morsy F.</b> , Wiseman. N., Houssni El-Saied ,	UK	Surface Coatings International, Vol. 85, A 5, p. 205-210,	2001
26.	The influence of some paper coating parameters on ink transfer. Elsayad, S., El-Sherbiny, S., <b>Morsy, F.</b> , Wiseman, N., Pearson, K.	UK	International symposium on printing and coating technology, 6-9 September, (1998), Swansea, UK.	1998
27.	The printing industry: a new application field for inductively coupled plasma spectrometry. El-Sherbiny, S., Elsayad, S., Barakat, A., <b>Morsy, F.</b> , Wiseman, N	Switzerland	Euroanalysis 10, September 6-11, (1998), Basel, Switzerland.	1998
28.	The rheological properties of paper coating suspensions and their application. Properties of coated paper and their relation to the flow properties of coating suspensions. A. H. Basta, H. El-Saied, S. Y. Elsayad and <b>F. Morsy.</b> , "	UK	Surface Coatings International, Vol.81, No. 9, p. 426-434,	1998
29.	The rheological properties of paper coating suspension and its application Part 1: The influence of solid content and ionic strength	UK	Pigment & Resin Technology, Vol. 25, No. 4, p.15-	1996

	on flow properties. Houssni El-Saied, Altaf H. Basta, Samir Y Elsayad and <b>Fatma Morsy</b> ,		24,	
30.	Some Aspects of the rheological properties of paper coating suspension and its application: 2 Influence of pigment composition, binder level, co-binder and simple electrolytes on flow properties. Houssni El-Saied, Altaf H. Basta, Samir Y Elsayad and <b>Fatma Morsy</b>	USA	Polymer, Vol. 36, No. 22, p. 4267-4274	1995

### Teaching/Research Hours ( المواد – ساعات عمل التدريس – ساعات عمل الأبحاث )

	Courses (المواد)	الساعات	عدد الأبحاث	الساعات	الساعات المكتبية	مجموع الساعات
<b>1<sup>st</sup> Term</b>	Applied Chem.10 Ink technology(post)	2+2 1	1	4	6	15
<b>2<sup>nd</sup> Term</b>	- Applied Chem.12 -Applied Chem.13 -Technology of packaging materials (post)	4 2+2 3	1	4	6	22

### Social Actives (خدمة المجتمع) :

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### مؤتمرات – ندوات – إجتماعات – إشراف

	اسم المؤتمر او الندوة	المكان (البلد)	سنة
ندوات			
مؤتمرات	1. El-Sherbiny, S., Elsayad, S., Barakat, A., <u>Morsy, F.</u> , Wiseman, N. "The printing industry: a new application field for inductively coupled plasma spectrometry". Euroanalysis 10, September 6-11, (1998), Basel, Switzerland.	Basel, Switzerland	1998
	2. Elsayad, S., El-Sherbiny, S., <u>Morsy, F.</u> , Wiseman, N., Pearson, K., "The influence of some paper	Swansea, UK.	1998

	<p><i>coating parameters on ink transfer</i>", International symposium on printing and coating technology, 6-9 September, (1998), Swansea, UK.</p> <p>3. Sayed A. A. El-Toumy, Josline Y.Salib, Wessam M Mohamed, Ahmed A. Haroun, <b>Fatma A. Morsy</b>, Samir Y. Elsayad, <i>ECO-Friendly Dyeing of Chrome-Tanned Leather by Using the Extract of Acacia Leaves</i>, the 6<sup>th</sup> Al-Azhar International Scientific Conference, (AISC'08), Cairo, 24-26 March (2008).</p> <p>4. Sayed A.A. El-Toumy, Josline Y. Salib, Wessam M. Mohamed, <b>Fatma A. Morsy</b>, Samir Y. ElSayad. "<i>Phytochemical and antimicrobial studies on Acacia Saligna Leaves</i>" Polyphenols Communications, Vol. 2, pp. 803-804, Salamanca, Spain (2008).</p>	Cairo	2008
		Salamanca,Spain	2008
إشراف رسائل	<p><b>Supervising MSc research projects entitled:</b></p> <p>1. An investigation of some factors affecting ink splitting in gravure printing and application to the quantitative transfer equation, 1999.</p> <p>2. A study in locally produced ballpoint inks for the identification of questioned documents` age, 2001.</p> <p>3. An investigation into the influence of paperboard temperature on ink transfer and print quality, 2004</p>	Helwan Univ.  Helwan Univ.  Helwan Univ.	1999  2001  2004

4. An investigation into the interrelationship between the dielectric properties of uncoated and coated paper and their printability, 2005	Helwan Univ.	2005
5. Efficiency of polypropylene film as a packaging material - A comparative study between Egyptian and imported polypropylene, 2005.	Helwan Univ.	2005
6. Prolongation of shelf life of certain Egyptian food products, 2007	Helwan Univ.	2007
7. Phytochemical studies on the phenolic constituents of Genus Acacia and its applications in industry, 2009.	Helwan Univ.	2009
8. Preparation of Nano-calcium Carbonate, nano silica and their Composite for Application in Papermaking Industry, 2011	Helwan Univ.	2011
9. A Study in Processing of Copper/Diamond Composites and Their Effects on Physical and Mechanical Properties, 2011	Helwan Univ.	2011
10. Synthesis of Some Water Soluble Polymeric Dispersants and Their Application in Paper Coatings, 2013	Helwan Univ.	2013
11. Preparation and Application of Nano Structured Titanium Dioxide in Paper Coating, 2013.	Helwan Univ.	2013
12. Synthesis of Vinyl Acetate Copolymers and Their Evaluation as Petroleum Crude Oil Additives, 2013.	Helwan Univ.	2013
13. Preparation and Application of	Helwan Univ.	



	<p>modified Egyptian kaolin for paper coating.</p> <p>14. Effect of alloying elements and operating conditions on the formation of nano and hard anodizing film on Aluminum alloys.</p> <p>15. Preparation of epoxy coating composite based on zinc oxide nano particles for corrosion protection of petroleum equipments.</p> <p>16. Synthesis and Evaluation of Some Food Grade Lubricating Grease From Local Materials</p> <p>17.</p> <p><b>Supervising the current M.Sc. research project entitled:</b></p> <p>1. Synthesis of Azoles and Anthraquinone Reactive Dyes and Their Applications in Ink Production.</p> <p>2. Surface Modification of white pigments and their applications in Printing Inks.</p> <p>3. Synthesis and characterization of cobalt ferrite nano-particles coated with silica for magneto-optical applications.</p> <p>4. Metal Nanoparticles-Based Inks For Advanced Flexible Printed Circuit Boards Applications.</p> <p><b>Supervising one Ph.D. research</b></p>	<p>Helwan Univ.</p> <p>Helwan Univ.</p> <p>Helwan Univ.</p> <p>Helwan Univ.</p> <p>Tanta Univ.</p> <p>Helwan Univ.</p> <p>Helwan Univ.</p> <p>Helwan Univ.</p>	<p>2014</p> <p>2014</p> <p>2015</p> <p>2015</p>
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	<b>projects entitled:</b> - An investigation into the quality and mechanics of deformation of papermaking fibres, 2000. Supervising the current Ph.D. - Upgrading Some Egyptian Pigments via Surface Modification for Paper Coating Application	Helwan Univ.  Helwan Univ.	2000  2016
انشطة اخرى (المناقشات المفتوحة)			
المشاركة في الانشطة الريادة الطلابية	- تنظيم الزيارات العلمية لطلبة شعبة الكيمياء التطبيقية - المشاركة في تجهيز بروتوكول تعاون مع شركة ايماك لصناعة الورق لتدريب الطلاب والاستشارات العلمية - منسق شعبة الكيمياء التطبيقية بقسم الكيمياء بالكلية		
الانشطة المحلية و القومية و العالمية			

### الاعمال المتعلقة بتعزيز / تحسين العملية التعليمية :

1	المشاركة في تطوير و تحديث اللوائح الدراسية	أسم اللوائح الساعات المعتمده
2	المشاركة في متابعة تنفيذ خطط تحسين البرامج	عدد البرامج 1 أسماء البرامج الكيمياء التطبيقية
3	المشاركة في تطوير المعامل	نوع المشاركة: - تجهيز معامل الكيمياء بمبنى قسم الرياضيات (مشروع تطوير تدريس الكيمياء) - تطوير معمل الورق والطباعة وحصوله على الاعتماد المحلى والدولى
4	المشاركة في التدريب الصيفى	عدد الطلاب 25 المقررات المستفيدة: ك ت 4, 5, 6, 8, 10, 12, 13
5	المشاركة فى الاشراف على مشروع التخرج	عدد الطلاب 4 عدد مشروعات التخرج 4
6	الارشاد الاكاديمي لمجموعة من الطلاب	عدد الطلاب 5
7	المشاركة فى أعمال الكنترول / الامتحانات	كنترول الدراسات العليا
8	المشاركة فى وحدة ضمان الجودة	نوع المشاركة : منسق شعبة الكيمياء التطبيقية (تجهيز ومراجعة برنامج الشعبة ومراجعة توصيف المقررات والتقارير)
9	المراجعة الخارجية بمؤسسات تعليمية أخرى	
10	أخرى – إن وجد	