

## Dr. Mohamed-Ali ALSAYED-ALI

UPDATED!

January 2020



PhD: <b>Physics (Nanotechnology and Surfaces Diagnostics)</b>	(2008 – France)
MSc of Researches: <b>Physics of Interfaces</b>	(2006 - France)
MSc Scientific: <b>Physics and Chemistry of Plasma</b>	(2001 - Russia)
Engineer: <b>Applied Physics</b>	(1995 - Syria)
<b>Consultant Engineer: Specialty Engineering Education</b>	<b>2011</b>



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[Mohamed\\_Ali\\_Alsayed-Ali](https://www.researchgate.net/profile/Mohamed-Ali-Alsayed-Ali)

Born: 21-March /1971

Married, with five children (Male –Born 1999, Female –Born 2001, Male –Born 2004, Female –Born 2005, Male –Born 2007).

Author of more than 30 journal Articles and books (in [English](#), [French](#), [Russian](#) and [Arabic](#)).

Researcher and Lecturer at HIAST and Damascus University for more than 10 years.

More than 2000 hours of engineering and master education.

Supervisor to 4 master degrees, engineers studies projects and many of research studies.

Consultant Engineer in Engineering Education.

Member of Editorial Board of [Journal of Chemical Engineering and Materials Science](#).

The Winner of Alsabah Arab Prize for young Scientists.

Chef Editor of [Syrnano](#), [hasorc](#) and [mhdcv](#) websites.

## **Specialist Subjects**

Educational activities, Human developments, Nanotechnology and Its Applications, AFM, STM, Plasma, Lasers, Materials, Applied Physics engineering.

I have worked mainly in engineering education and master of physic, in addition to many research works lie broadly in the identification of innovative and cost-effective solutions to real world process engineering problems within the fields of Nanotechnology, Plasma and the engineering applications of applied physics in materials and Nanomaterials synthesis.

I have developed a highly successful research portfolio pursuing high quality curiosity-driven and strategically significant research.

Since 1996, I have more than 30 journal Articles and books (in English, French, Russian and Arabic) publications. My work has also been published widely in highly reputable journals and refereed international conference proceedings.

I have participated in many international research events. I have also been invited to act as a member of the scientific committees in international conferences and delivered a number of invited lectures around the world. I have made lots of contributions to discussion panels on nanotechnology and its applications.

I have established a wide range of international research collaborations.

I had earned the award of the prestigious Kuwait Prize of Scientific Innovation in the Arabic World for the year 1995. This prize is one of the highest scientific honors', which is awarded in the Middle East for intellectual achievement. Also, I had awarded Moscow prize for the best article 2001, and Glasgow 3<sup>rd</sup> best participation 2006.

I had been awarded the PhD from the University of Rennes in 2008, in recognition of an outstanding research contribution in the field of Carbon Nanoparticles and Scanning Probe Microscopy Science and Technology.

## **Current Research**

My current research activity focuses on techniques and calculations of nanomaterials (fibers, powder, particles) synthesis, to develop novel membrane separation processes, membrane nanotechnology, and the applications of Scanning Probe Microscopy (SPM) (AFM and STM) to characterization and process engineering.

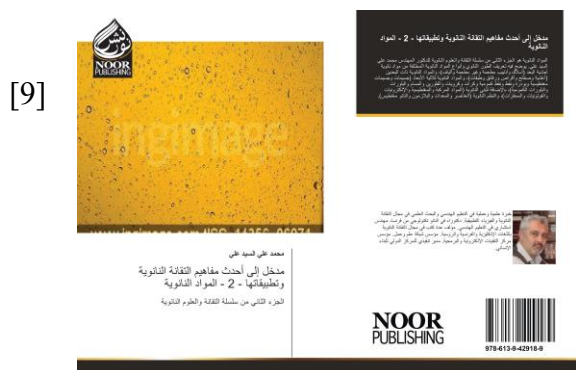
I am now in Syria recognized as a leader in developing and applying the nanotechnology tools to the study and researches.

## Publications

### Books



[10] Hamdi Khashan and Mohamed Ali Alsayed Ali, 2019. [Addiction to deal with a child's electronic devices - its effects and methods of treatment](#). Noor Edition. 249 Page, ISBN-13: 978-620-0-06326-7



[9] Mohamed Ali Alsayed Ali, 2019 [Introduction to Nanotechnology -2- NanoMaterials](#), Noor Edition. 97 Pages. ISBN-13: 978-613-9-42918-9



[8] Mohamed Ali Alsayed Ali, 2018 [Introduction to Nanotechnology -1- NanoGeneralities](#), Noor Edition. 240 Pages ISBN-13: 978-620-2-35835-4



[7] My Posts [خواطري](#) Free 2015; 238 Pages. In Arabic

[6]



ALSAYED ALI Mohamed Ali, (In Arabic)  
[Nanogeneralities](#); Edition of SNNSA; 2014, 238 Pages.  
ISBN-13: 978-9933406585

[5]



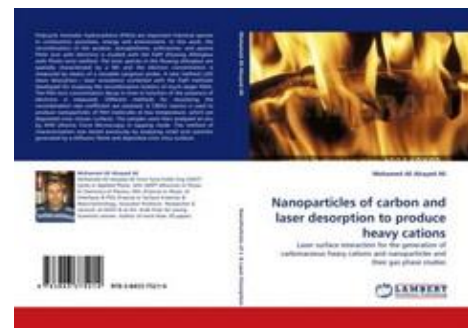
ALSAYED ALI Mohamed Ali, (In French)  
[Mécanisme ionique de formation des nanoparticules](#),  
Editions universitaires européennes, France, 2011.  
(80p.). ISBN-13: 978-6131562921

[4]



Мохамед Али Алсайд Али, (In Russian)  
[Исследование нанопорошка пучковой плазмы зондовыми методами](#), (Nanopowder in Electron beam plasma, diagnostics by Langmuir probe), LAMBERT, Germany, 2011. (92p.) ISBN-13: 978-3-8433-1057-4

[3]




Mohamed Ali Alsayed Ali, (In English)  
[C-Nanoparticles Laser desorption ionization to produce heavy cations](#), LAMBERT, Germany, 2010. (176 p.)  
ISBN-13: 978-3-8433-7521-4

[2]



Mohamed Ali Alsayed Ali, (In Arabic)  
NDT Practical experiments MT- PT, HIAST, Syria, 2010. (64 p.)

- [1]  Thèse doctorat : (In English)  
Mohamed Ali Alsayed Ali ; [sous la direction de] Ludovic Biennier,  
Bertrand Rowe.  
Laser surface interaction for the generation of heavy cations and  
nanoparticles and their gas-phase studies.  
Physique : Rennes 1 : 2008. 1 vol. (151 p.) : ill. en noir et en coul. ;  
30 cm. ISBN: 2008REN1S027.

### Papers in international journals with lecture committee

- [15] Amjad Alnakawa, Mohamed Ali Alsayed Ali,. Field research study to localize nanotechnology in the textile industry. Damascus University, Journal of engineering science N 2, 2015.
- [14] Ahmad Abd Alkarim, Mohamed Ali Alsayed Ali, Ibrahim Alghoraibi,. Study of Effect Applied Voltage on Morphology of polyamide -6.6 Nanofiber Formed by Electrospinning Technique. Damascus University Journal Vol. (30) - No. (1) 2014..
- [13] Firas Albalkhi, Mohamed Ali Alsayed Ali, Khaled Maya,. (FeCrAlY-7YSZ) TBC System Fabricated by Cathodic Arc & EB-PVD Processes. Damascus University, [Journal of engineering science N 2, 2012.](#)
- [12] Mohamed-Ali Alsayed-Ali, Nanotechnology for sustainable energy. [Journal of Science Vision](#) Vol.16 and 17; 2011.
- [11] AlSayed-Ali. M.A., Zakaria Zalam., Modeling of the electric field in plasma reactor at nano-scale. Aleppo University research journal N 73, 2010.
- [10] M.A. Alsayed-Ali, Journal of social affairs. 97 (Rabi 2008) 205-219.
- [9] BIENNIER L., ALSAYED-ALI M.A., FOUTEL-RICHARD A., NOVOTNY O., CARLES S., REBRION-ROWE C., ROWE B.R. "Laboratory measurements of the recombination of PAH ions with electrons: implications for the PAH charge state in interstellar clouds." [Faraday discussions](#), 133, 289-301 (2006). <http://www.rsc.org/Publishing/Journals/FD/>
- [8] M.A. Alsayed-Ali, Experimental study of electronic beams and of dusty plasma of electronic beams - Part II, Journal Researched in Russia, (2001)  
<http://zhurnal.ape.relarn.ru/articles/2001/021.pdf>
- [7] M.A. Alsayed-Ali, Experimental study of electronic beams and of dusty plasma of electronic beams - Part I, Journal Researched in Russia, (2001)  
<http://zhurnal.ape.relarn.ru/articles/2001/020.pdf>
- [6] M.A. Alsayed-Ali, Diagnostics of plasma of electronic beams in a magnetic field by methods of single electrical probes, Journal Researched in Russia, (2001)

<http://zhurnal.ape.relarn.ru/articles/2001/019.pdf>

- [5] M.A ALSAYED ALI, The effect of civilization on climate of Damas and Aleppo, Proc. Symp. 38th Inter Conference's week at Albath university, october (1998)
- [4] M.A ALSAYED ALI, Programmable Logic Controllers - PLC, Arabic journal of sciences and technology, 1998.
- [3] M.A ALSAYED ALI, Warming and Refrigerating by using solar energy, Arabic journal of sciences and technology, Tunis. 1998.
- [2] M.A ALSAYED ALI and K. BACH, Advertisement and propaganda, Journal of social affairs, U.A.E, (1997).
- [1] M.A ALSAYED ALI and K. BACH, Middle East market and sharing Arabic market, Journal of social affairs. U.A.E, (1997).

### **Cultural papers**

- [6] M.A. Alsayed-Ali, Basic of Nanotechnology. Engineering journal No 177, Syria, 2012.
- [5] M.A. Alsayed-Ali, Nanotechnology in Health and Industry. Engineering journal No 173, Syria, 2012.
- [4] M.A. Alsayed-Ali, Flagellum-NanoMotors end of Darwinism. J. Engineering No 171, 2011.
- [3] M.A. Alsayed-Ali, What is Nanotechnology?. Engineering journal No 169, Syria, 2011.
- [2] M.A. Alsayed-Ali, Flagellum-NanoMotors. Science Fiction No 17, Syria, 2010.
- [1] M.A. Alsayed-Ali, Maintenance planning. Engineering journal No 140, Syria, 2003.

### **Scientifics activities**

#### **Participation with papers – posters - presentations**

- [24] M.A. Alsayed-Ali, Nanotechnology for sustainable energy. International Conference on Nanomaterials and Nanoethics. 1<sup>st</sup>-3<sup>rd</sup> December 2011, COMSATS, Lahore campus, Pakistan.
- [23] M.A. Alsayed-Ali, Water Purification using Nanotechnology. 3<sup>rd</sup> International Conference on Nanotechnology. November 28 - 30, 2011, Al-Ain, United Arab Emirates.
- [22] M.A. Alsayed-Ali, Nanotechnology and applications – Importance and strategies, 1st International Conference on Condensed matter physics and applications (CMP-1), 28-30 November 2010, Al Baath University, Homs; Syria.
- [21] M.A. Alsayed-Ali, Characterization of carbon nanoparticles formed in diluted environments, International Workshop on Nano-Technology: Present Status and Future Prospects in Developing Countries. Kashan, Iran. 18-20 May 2009.



- [20] M.A. Alsayed-Ali, ND Surface science Techniques on a nanoscopic scale. Workshop on NDT and Syrian Industry, Damascus university, Damascus, Syria, 3-5 May 2009.
- [19] Developing Thin Films and its applications by using NanoTechnology, Thin films workshop, Albaath Univ, Homs, Syria, 24-25 Nov2008.
- [18] M.A. Alsayed-Ali, L. Biennier, and B. Rowe, Using laser desorption/laser ionization to produce heavy PAH cations 4<sup>th</sup> workshop on laser science and applications. Syria, Damascus, May 19-22, 2008
- [17] SABBAH Ha., SIMS I.R., ROWE B.R., ROLLAND D., ALSAYED-ALI M.A., BIENNIER L. "Nucleation and growth of carbon nanoparticles from molecular precursors in circumstellar shells of carbon rich stars." (Poster)  
International astrophysics and astrochemistry meeting "Molecules in Space and laboratory" (14 - 18 Mai), (Paris), France (2007)
- [16] BIENNIER L., ALSAYED-ALI M.A., NOVOTNY O., TRAVERS D., ROWE B.R. "Recent results on recombination of PAH cations with electrons." The Molecular Universe network: Physics and chemistry of complex molecules: the laboratory approach in "Complex Molecules in Space: Present status and prospects with ALMA" (8 - 11 Mai), (Aarhus), Denmark (2006)
- [15] BIENNIER L., ALSAYED-ALI M.A., FOUTEL-RICHARD A., NOVOTNY O., CARLES S., REBRION-ROWE C., ROWE B.R. "Laboratory measurements of the recombination of PAH ions with electrons: implications for the PAH charge state in interstellar clouds."  
Faraday Discussion 133 "Chemical evolution of the Universe" (24 - 26 Avril), (Abbaye de Saint Jacut de la Mer ), France (2006)
- [14] ALSAYED-ALI M.A., BIENNIER L., ROWE B.R. "Recombination of two-step laser produced PAH ions with electrons in a flowing afterglow." (Poster)  
Faraday Discussion 133 "Chemical evolution of the Universe" (24 - 26 Avril), (Abbaye de Saint Jacut de la Mer ), France (2006)
- [13] ALSAYED-ALI M.A., BIENNIER L., ROWE B.R. "Recombination of PAH Ions with Electrons: Implications for Astrochemistry." (Poster)  
Annual meeting of the "Astrochemistry Group of the RSC & RAS": The Chemistry of Planets and where they come from (5 - 6 Janvier), (Glasgow), Ecosse (2006) (Get the 3d reward of the Meeting)
- [12] M.A. Alsayed-Ali, L. Biennier, et B. Rowe, Mise au point d'une technique de désorption laser / ionisation laser pour la mesure de la recombinaison d'ions hydrocarbures aromatiques polycycliques (HAP<sup>+</sup>) avec des électrons dans un écoulement en post-décharge, Proc. de la journée des doctorants de Rennes, France, Octobre (2005)

- [11] L. Biennier, M.A. Alsayed-Ali, A. Foutel-Richard, O. Novotny, C. Rebrion-Rowe, and B. Rowe, Laboratory Measurements of the Recombination of PAH Ions with Electrons: Implications for Interstellar Chemistry, Proc. Inter. Symp. International Astronomical Union - IAU Of Astrochemistry Throughout the Universe: Recent Successes and Current Challenges, Monterey in California USA, August (2005)
- [10] M.A. Alsayed-Ali, A. Foutel-Richard, O. Novotny, L. Biennier, C. Rebrion-Rowe, et B. Rowe, Développement d'une méthode de désorption/ionisation laser pour mesurer la recombinaison d'ions hydrocarbures aromatiques polycycliques (HAP<sup>+</sup>) avec des électrons, Proc. Symp de La réunion annuelle du Groupe Français de Cinétique et Photochimie. Rennes, France, Juin (2005)
- [9] A. Foutel-Richard, M.A. Alsayed-Ali, O. Novotny, L. Biennier, C. Rebrion-Rowe, et B. Rowe, Mesures expérimentales de la recombinaison d'hydrocarbures aromatiques polycycliques (HAP) photoionisés avec des électrons Proc. Symp de La réunion annuelle du Groupe Français de Cinétique et Photochimie - GFCP. Rennes, France, Juin (2005)
- [8] M.A. Alsayed-Ali, A. Foutel-Richard, L. Biennier, C. Rebrion-Rowe, and B. Rowe, Experimental determination of the recombination rate coefficient of photoproducted PAH ions, Proc. Symp of 2nd meeting of Physics and Engineer institute of Rennes. Milbohrn, France, April (2005)
- [7] M.A. Alsayed-Ali, Lasers for plasma generation, Proc. Symp of Lasers Industry, Lasers Technology institute of Damascus. Damascus, Syria, (2004)
- [6] M.A. Alsayed-Ali, Quality and maintenance of industrials establishments, Proc. Symp of Quality and engeneering, Aleppo, Syria, (2003)
- [5] M.N. VASILIEV and M.A. Alsayed-Ali, Experimental study of dusty plasma of electronic beams, Proc II. Inter. Symp. 13th Symposium on Application of Plasma Processes - SAPP13th, Tale, low Tatras, Slovakia, January, (2001)
- [4] M.A ALSAYED ALI, V.G. LEIMAN and A.P. OFCHINIKOV, Diagnostics of plasma of electronic beams in a magnetic field by methods of single electrical probes, Proc II. Inter. Symp. 13th Symposium on Application of Plasma Processes - SAPP13th, Tale, low Tatras, Slovakia, January, (2001)
- [3] M.A ALSAYED ALI, V.G. LEIMAN and A.P. OFCHINIKOV, Experimental study of dusty plasma of electronic beams, Proc. Inter. Symp. XLIII international scientific conference, MIPT, Dolgabrydni, Moscow, RUSSIA. 2000
- [2] M.A ALSAYED ALI, V.G. LEIMAN and A.P. OFCHINIKOV, Diagnostics of plasma of electronic beams in a magnetic field by methods of single electrical probes, Proc. Inter. Symp. XLIII international scientific conference, MIPT, Dolgabrydni, Moscow, RUSSIA. December (2000) (Get the 1st reward of the conference)



[1] M.A ALSAYED ALI, Deposition of AlGaAsSb film on GaSb using technology of Layer Deposition from liquid phase, Proc. Inter. Symp. Of Syria-Lebanon's researches days, December (1998)

## Discussions

[7] HPC Workshop- Using High Performance computing in Scientific Computation, Damascus-SYRIA, 14-16 December 2010, HIAST, Damascus; Syria.

[6] Workshop on, Membrane and its use in desalination and waste treatment, 27 September 2010, Higher institute for applied sciences and technology (HIAST), Damascus; Syria.

[5] Workshop on, Engineering Education, Present Status, Trends and Challenges, 19-21 July, 2010, Arab School for Science and Technology (ASST), Damascus; Syria.

[4] Atelier de travail « Découverte des aspects pédagogiques et psychologiques liés à l'apprentissage électronique », ISSAT; Damas, Syrie, 15-18 Février 2010.

[3] Seminar on CDM, Ministry of Electricity, Damascus - Syria. 8 February 2010.

[2] Seminar on Bridging Gaps for Industrial Development: Interface between Academia, Policy Making and Industry. HIAST, Damascus - Syria. 27 - 29 July 2009.

[1] Workshop on NanoTechnology and its applications, Fermeglia. M., NOSTIA, SYEA, Damascus, Syria, 16 Feb 2009.

## Skills

(A): Very good, (B): Good, (C): Acceptable, (D): Deal with, (ML): Maternal language.

### Languages:

English (A), French (A), Russian (B), Arabic (ML).

### Informatics:

Basics: ICDL (A), PhotoShop (A), MS-Flash (B),

Project Manager: MS-Project (A) , MindManager (A) , Arena (B),

Scientific: Mathcad (A) , Matlab (B) , Mathematica (B) , Origin (A), FlexPDE (B),  
Comsol (C),

Control: LabView (B), MutiSim (A),

Design: Catia (D) , SoildWorks (B), SweetHome3D (A),

Education: LATEX Arabic (A), Camtasia (A), Crocodile Physics & Chemistry (A),  
Interactive Physics (A), X-Ray DataBase (A), Nano softwares (A),

WebEducation: Moodle (A), Opale (A), OpaleSup (A), ExeLearnning (A),

WebDesign: Joomla (A), Moodle (A), Free HTML (B),

<b>Principal Axes:</b>	Educational activities, Nanotechnology and Its Applications, AFM, STM, Plasma, Lasers, Materials, Applied Physics engineering.
<b>Transversal Axes:</b>	Human development, Informatics, Education and Languages.
<b>General Capabilities:</b>	Autonomy, Autoformation, Creation, Communication, Synthesizer, redaction, Project Manager, Evaluation, Information Treatment (Researches, Organization, Treatment & Testing), Employment, Decision, International Network.

<b>Graduations</b>		
<b>2008</b>	: Phd of Physics, (Rennes –France).	<b>Mention: Very Honorable.</b>
<b>2006</b>	: Master of researches in surfaces and interfaces physics, (Rennes –France).	<b>Mention: Good.</b>
<b>2001</b>	: Msc of science in physics and chemistry of plasma, MIPT (Moscow - Russia).	<b>Mention: Excellent.</b>
<b>1995</b>	: Engineer in Applied physics HIAST- (Syria).	<b>Mention: Very good.</b>
<b>1993</b>	: Preparatory class in math sup., math spe at HIAST - (Syria).	<b>Mention: Very good.</b>

<b>Professional Experiences</b>	
Executive Director of <a href="#">ICHC</a> International Center for Human Construction, 2008-Now.	
Director of <a href="#">Syrnano</a> Syrian Nanotechnology Network for Sciences and Achievements, 2008-Now.	
General Director of <a href="#">HASORC</a> research center for university projects', 2002-Now.	
More than 10 years of teaching and researches at HIAST and Damascus University, Syria	
<b>Formations</b>	
<b>2011</b>	: ARENA simulation software, HIAST.
<b>2009</b>	: Master Practitioner of NLP, Practitioner of NLP.
<b>2008</b>	: Diploma in NLP.
<b>2006</b>	: Intense Lasers, PYLA - Bordeaux 1 University.
	: Management of Humain Resources', AITRES, Rennes 1 University.
	: Communication and Project managing, Doctorates schools, Rennes 1 University.
<b>2005</b>	: 25 Formations on Tools of Internet and documents managing; Rennes 2 University.
<b>1998</b>	: Formations on ISO9000 standards and quality control; HIAST.