

CURICULUM VITAE

Areej ADRA

Birthdate : 3 / 3 / 1985

Nationality: Syrian



Doctor at Higher institute of environmental research (HIER),
Department of Environmental Chemistry
Tichreen university, Lattakia, Syria.

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EDUCATION

2010 – 2014: Ph.D in Geosciences and Natural Resources, at Laboratory of Environmental Mineralogy. University of Paris 6 (UPMC)- France. Dissertation title : « Structure and reactivity of nanocrystalline iron-aluminium oxides downstream of acid mine drainage». Supervisors: Prof. Guillaume Morin.

2008 - 2010 : Master's Degree (M2) in Earth Sciences at the university of Paris 6 (UPMC)-France. Dissertation title : « Crystal chemistry of nickel-bearing silicate minerals study in New Caledonia ». Supervisors: Prof. Jean-Louis Robert and Emmanuel Fritsh.

2006-2007: M1 in geochemistry and petrology, Damascus University - Syria.

2002-2006 : B. Sc. in Applied Geology at Faculty of Sciences- Tishreen University- Syria.

2002: “Baccalauréat” in Sciences. Lattakia – Syria.

WORK HISTORY

February 2015 – Present. Academic Lecturer in the departement of Environmental Chemistry in the Higher Institute of Environmental Research (HIER), Tishreen University - Syria. I teach the modules of Environmental Geochemistry, Aquatic Environmental Chemistry, and Environmental Pollution Control Measures for graduate students in the HIER.

2010 - 2014. I was involved by the Laboratory of environmental Mineralogy - IMPMC for studying Ph.D at university of Paris 6 (UPMC)- France.

2009-2010. I studied for Master degrees at the Laboratory of environmental Mineralogy – IMPMC at university of Paris 6 (UPMC)- France.

2008. Teaching Assistant at the Department of environmental chemistry - Higher Institute of Environmental Research, Tichreen University- Syria.

CURRENT LABORATORY RESEARCH ACTIVITIES.

- Removal of As(V) , Pb (II) and Cu(II) from industrial wastewater using Natural Zeolite from southwest Syria.

- Geochemistry of ground waters associated with the Ophiolite Rocks at Baer Bassit-Lattakia (N of Syria).

In addition to that I am now responsible of the quality assurance in the HIER. This administrative title includes insuring the availability of HIER laboratories, the quality of laboratories materials and their arrangement. This title also involves ensuring the quality of teaching process.

PUBLICATION

Adra, A ; Morin, G ; Ona-Nguema, G ; Menguy, N ; Maillot, F ; Casiot, C ; Bruneel, O; Lebrun, S; Juillot, F; Brest, J. **(2013)** Arsenic Scavenging by Aluminum-Substituted Ferrihydrites in a Circumneutral pH River Impacted by Acid Mine Drainage. Environ. Sci. Technol., 47, 12784–12792. doi: 10.1021/es4020234

Adra, A., Ona-Nguema, G. and Brest, J. **(2016)** Arsenate and Arsenite Adsorption onto Al-containing ferrihydrites. Implications for Arsenic Immobilization After Neutralization of Acid Mine Drainage. Applied Geochemistry, volume 64 : 2-9. doi:10.1016/j.apgeochem.2015.09.015.

Jennyfer Miot, Shipeng Lu, Guillaume Morin, **Areej Adra**, Karim Benzerara, Kirsten Küsel. **(2016)** Iron mineralogy across the oxycline of a lignite mine lake. Chemical Geology 434 : 28-42 .doi:10.1016/j.chemgeo.2016.04.013.

SCIENTIFIC CONFERENCE

Guillaume Morin , **Areej Adra** , Georges Ona -nguema , Yuheng wang , Fabien Maillot , Jennyfer Miot , Corinne Casiot , Odile bruneel , Marion Egal and, française elbaz - poulichet. **(2015)** Arsenic removal processes in mine drainage impacted systems. **Goldschmidt 2015, Prague, Czech.**

Guillaume Morin, Fabien Maillot, **Areej Adra**, Marc Blanchard, Georges Ona-Nguema, Yuheng Wang, Nicolas Menguy, Gordon E. Brown Jr. **(2013)** Structure and reactivity of nanocrystalline iron oxides in the environment **Goldshmidt 2013, Florence, Italy.**

Adra, A ; Morin, G ; Ona-Nguema, G ; Menguy, N . **(2013)** Arsenic Scavenging by Aluminum-Substituted Ferrihydrites in a Circumneutral pH River Impacted by Acid Mine Drainage. **Meeting American Geophysical Union (AGU), San Francisco,USA.**

Juillot F., Dublet G., Lequerré G., **Adra A.**, Fonteneau L., Morin G., Fritsch E., Robert J.-L. **(2011)** Approche cristallochimique et spectroscopique de l'origine hydrothermale ou supergène des garniérites de Nouvelle-Calédonie. **Colloque Groupe français d'argile (GFA), Paris, France.**

Yuheng WANG , **Areej ADRA** , Maya IKOGOU , Georges ONA-NGUEMA, Farid JUILLOT , Nicolas MENGUY, Guillaume MORIN; **(2016)** Environmental issues addressed by analytical TEM and X-rays absorption spectroscopies. **The 16th European Microscopy Congress, Lyon, France.** August 28 - September 2, 2016.

PROFESSIONAL SKILLS

- Experienced user in X-ray absorption spectroscopy (EXAFS, XANES), data acquisition, fitting and interpretation.
- Powder X-ray diffraction (XRD), Fourier transform infrared (ATR-FTIR) spectroscopy, Atomic absorption spectroscopy (AAS), and Scanning Electron Microscopy (SEM).
- Good understanding and practice of solid chemistry, especially iron oxides.
- Good practice of anoxic sampling and analysis in laboratory.

COMPUTER SKILLS

Mac OS, Windows and Linux.

Microsoft® Office (Word, Excel, Access, Power Point, IT), GIS, Kaleidagraph®, iXAFS, Matlab®, PHREEQC, Mendeley.

LANGUAGES

Excellent at Arabic, French and good at English.

ACTIVITIES

Fête de la Science (2013 and 2014) Institute of Mineralogy, Materials Physics and Cosmochemistry (Paris, France): University science open day for schools.

Supervision of Erwan Gelbert (2013) (PTS in Chemistry) UPMC-France:"As(III) adsorption on Al-ferrihydrite".

Fondation member of young reserchers in environnemental studies club (2015) at Tishreen university-Syria.

Member in AMAP assossiation (2012-2015): Community-Supported Agriculture (CSA), Paris-France.