

CURRICULUM VITAE

Dr. Bassam Al Aji



PERSONAL INFORMATION:

First name: Bassam
Middle name: Mahmoud
Family name: Al Aji
Date of Birth: 28th, October, 1964
Place of birth: Damascus Syria
Home City/Country: Damascus ,Syria
Nationality: Syrian
Status: Married, Two sons, Alaa and Olwan.
Work Address: Dr. Bassam Al Aji, Environmental Engineering Department / Civil Engineering Faculty/ Damascus University / Baramke- Damascus –Syria.
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Education

- **1987, Civil engineer (Bachelor):** faculty of civil engineering – Damascus University, Damascus.
- **1995, Doctor of philosophy (ph. D)** in technical sciences (water treatment, water supply, sewerage and engineering systems for protection of water resources). Moscow University of Environmental Improvement, Moscow, Russia.

**Subject: Water purification from Nitrates and Nitrites using physic
- chemical processes.**

PRESENT POSITION:

- **Member of academic staff** at the department of environmental engineering – Faculty of civil Engineering – Damascus University, since 1995.
- **Associate professor** since October / 2001 until 1996.
- **Professor** since July / 2017

- **Head of environmental engineering department**– Faculty of civil Engineering – Damascus University, since 2016 until now.

Teaching: Water treatment, Ecology and Environmental Engineering, Environmental Protection, Solid waste Management, Water and Wastewater Net and Advanced Industrial Water Treatment.

Research Field: Water Treatment, Industrial Water and Wastewater Treatment, Ecosystem Ecology, EIA, Environmental Pollution Control, Physic-Chemical Process (Electrocoagulation, adsorption, IX, RO...)

MSc students: Supervisor

- Possibility of using carbon filter (olive seeds) in water treatment (Master by research 2003).
- Nitrate and phosphor removal from wastewater in Adraa wastewater treatment plant (Master by research 2007).
- Studying the control of nutrients concentrations by using local plants as tertiary wastewater treatment (PhD by research 2013).
- Study of production activated carbon from agriculture solid waste (almond peels) (Master by research 2014).
- Study of treatment dairy industrial waste water using electrocoagulation process (EC) (Master by research 2017)
- The improvement of local soils properties for use as liners in solid waste landfills . (PhD by research 2017).
- Gray water treatment resulting from the mosques using electrocoagulation method (Master by research 2019)

Publications:

Publications in Russian language:

1. Lukashouf E.A., **Bassam Al Aji**, , (1993).Groundwater purification from Nitrates and Nitrites using Ion – Exchange, Moscow, ВНИИHTПИ Inst., Vol. 4, 11-20 pp.
2. Lukashouf E.A., **Bassam Al Aji**, ,(1993).Small units for water condition and disinfecting in temporary water supply systems, Moscow. ВНИИHTПИ Inst., Vol. 6, 3-10 pp.
3. Lukashouf E.A., **Bassam Al Aji**, (1994).Investigation of possibility of using Dialysis – Donan for natural water purification from Nitrates and Nitrites. Moscow. ВНИИHTПИ Inst., Vol. 1-2, 7-18 pp.
4. Lukashouf E.A., **Bassam Al Aji**, (1994).Small units for water conditioning in temporary water supply systems, hand book, vol. 1. Moscow. ВНИИHTПИ Inst., 68 p.
5. Lukashouf E.A., **Bassam Al Aji**, (1995). Small units for water conditioning in temporary water supply systems, hand book, vol. 2. Moscow. ВНИИHTПИ Inst., 68 p.
6. **Bassam Al Aji**, Lukashouf E.A., **Patent** (on an invitation) **No. 122979** Russia 1998. New method of remove Nitrates and Nitrites from water.

Publications in Arabic language:

7. **Bassam Al Aji** and Hadid M., (2001). Automatic monitoring of chemical desalting plants using Ion – Exchange methods, Damascus – Journal “Basel AL-Assad”, Vol. 13, 55-71 pp.
8. **Bassam Al Aji** and Hadid M., (2001). Investigation of possibility of using locally available olive seeds as alternative of activated carbon in water treatment, Basel AL-Assad Journal for Engineering Sciences, Vol. 14, 73-93 pp.
9. **Bassam Al Aji**, (2003), Problems resulting from using active chlorine to disinfect drain water and the possibility to utilize brome chloride instead. Kahramaa Magazine –Qatar General Electricity and Water Corporation, 16th Issue., 22-27 pp.
10. Zubaida Alkalekh, Hadid M., **Bassam Al Aji**, (2004), Possibility of using carbon filter (olive seeds) in water treatment. Damascus – Journal of Damascus University, Vol. 20. No 1. 39-58 pp.
11. **Bassam Al Aji**, Solid waste treatment, Damascus University, 2004-2005, 334 p.
12. **Bassam Al Aji**, (2007), Global warming phenomenon and its environmental effects. Albahethoon journal No.0, 36-43 pp.
13. **Bassam Al Aji**, (2007), Abundance of fresh water– one of humanity worries in the 21th century. Albahethoon journal No. 1, 46-55 pp.
14. **Bassam Al Aji**, (2007), Using of wastewater treatment sludge. Albahethoon journal No. 4, 76-88 pp.
15. **Bassam Al Aji**, (2008), Strategies of environmental protection. Albahethoon journal No.8, 137-126 pp.
16. **Bassam Al Aji**, (2007), Acid rain phenomenon in the industrial world and its environmental effects. Arabic teacher journal-1.
17. **Bassam Al Aji**, Hadid M., (2009), Adsorption of Some Heavy Metal Ions from Industrial Wastewater by Locally Produced Activated Carbon BMC-2, Basel AL-Assad Journal for Engineering Sciences, No. 25, 107-128.
18. **Helen Muslemani** and **Bassam Al Aji**, Study of production of activated carbon from agriculture waste- almond peel, Damascus University Journal, under print.

Publications in English language:

19. **Bassam Al Aji**, Yusuf Yavuz, A. Savas Koparal, (2012), Electrocoagulation of heavy metals containing model wastewater using monopolar iron electrode, **Separation and Purification Technology**, No. 86, 248-254 pp.
Contents lists available at SciVerse ScienceDirect. Journal homepage:
[www.elsevier.com/ locate/seppurs](http://www.elsevier.com/locate/seppurs)

20. **Bassam Al Aji**, (2012), Electrocoagulation of chromium containing synthetic wastewater using monopolar iron electrodes, Damascus University Journal Vol. (28) - No. (2), 79-89 pp.
21. **Bassam Al Aji**, (2014), Electrocoagulation with bipolar iron electrodes for trivalent chromium removal from synthetic wastewater, Damascus University Journal Vol. (30) - No. (2), 2014, 7-18 pp.
22. **Bassam Al Aji**, (2016), A Comparison Between monopolar and bipolar Electrode configurations on Removal of chromium from synthetic wastewater by Electrocoagulation Process, Tishreen University Journal for research and scientific studies, Vol. (38) - No. (2), 2016, 525-537 pp.
23. **Ayman Alamareen , Nazieh Abboud , Ebraheem Hammoud, Bassam Alaji**. (2017), Impact of Rising Temperatures on Volumetric Shrinkage & Hydraulic Conductivity of Compacted Natural Clay Liners. EJGE, Vol. 22, Bund. 14, 5335-5345pp.
24. **Bassam Al Aji**, Nitrate Removal from Synthetic Industrial Wastewater by Using Electrocoagulation with monopolar Fe-Fe Electrodes, Damascus University Journal, under print.
25. Fedaa Mualla and **Bassam Al Aji**, Study of treatment dairy industrial wastewater using electrocoagulation process, Damascus University Journal, under print.

CONFERENCES:

- Conference on "New technologies of water supply and sewage water", **Moscow**, 1993, "**Analysis of New technologies of remove Nitrates and Nitrites from water, and study some of them**" 54-56pp.
- Conference on "water: Pollution and Technology", **Moscow**, 1994, (**oral presentation**).
- Conference of Moscow University of Environmental Improvement "**Study of adsorption characterizations of locally produced, using pyrolysis process, activated carbon** ", **Moscow**, 2000.
- Conference on "Conservation of Damascus city Environment by Conservation of Damascus Ghota Biodiversity ", **Problems resulting from using active chlorine to disinfect wastewater and the possibility to utilize broom chloride instead**" 227-240 pp., **Damascus**, 2001.
- Adsorption of Some Heavy Metal Ions (Mn, Ni, Fe, Cu) from Industrial Wastewater by Locally Produced Activated Carbon BMC-2, water treatment conference, Hudaida University, **Yemen** 2009.
- Global warming phenomenon and its environmental effects, "Renewable Energy-gift from the nature and chance for better life" conference, **Damascus** 2009, 54-55 pp .
- Yavuz, Y., **Al Aji, B.** and Koparal, A.S., "**Treatment of Model Mixed Metal Solution Using Monopolar Iron Electrodes**", 63rd Annual Meeting of The ISE, 19 - 24 August, **Prague, Czech Republic**, 2012.

PARTICIPATION IN MAJOR PROJECTS:

- 1) Member in supervision committee of many Projects in Damascus University and Damascus city.
- 2) Project supervisor of many clinic in Tartous rural.

- 3) Evaluation of offers for many engineering projects
- 4) Study many engineering projects (water supplies and water treatment) in many regions in Syria.
- 5) Study many municipal, industrial and medical solid waste treatment projects (management and disposal) in many regions in Syria.
- 6) Study many water treatment plants (R.O) in Damascus.
- 7) Study many hospitals (water supplies and water treatment and sewage) in many regions in Syria (Yarmouk Hospital, Tal Hospital and others).
- 8) Offer Consultations for many Engineering Companies in Syria.
- 9) EIA Study of many industrial projects in Syria (EIA expert).
- 10) Ex-Consultant of Damascus Mayor.