

CURRICULUM VITAE

January 2012

Name : Béchir HAMROUNI

Date of birth : 10 Mai 1952, Kairouan.

Marital status : Married and father of two children

Nationality : Tunisian

Position : Professor, Faculty of Sciences of Tunis,

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ACADEMIC QUALIFICATION

- “Doctorat d’Etat” in chemistry, Water Treatment and Desalination, University of Tunis El Manar, Faculty of Sciences of Tunis, 2001.
- PhD, Analytical Chemistry, University Paris VI, France, 1980.
- Master, Analytical Chemistry, University of Paris VI, France, 1977.

PROFESSIONAL CAREER

- Professor of higher education, Faculty of Sciences of Tunis, since October 2005.
- University lecturer, Faculty of Sciences of Tunis, October 2001.
- Professor assistant, National Institute for Scientific Research and Technology, December 1981.

SUMMARY OF ACADEMIC AND PROFESSIONAL ACTIVITIES

- Director of Research Laboratory “Desalination and Water Treatment”.
- President of the Tunisian Desalination Association (TDA).
- Person in charge of the Analytical Chemistry Master, Faculty of Sciences of Tunis.
- Member of the European Desalination Society (EDS).

- Director of dozens of masters and of PhD thesis in analytical chemistry and in the field of desalination and water treatment in particular.
- Organizer and Chairman of Maghreb Conferences on Desalination and Water treatment (CMTDE), held in Hammamet (Tunisia), in collaboration with the European Desalination Society (JNTDE 2006, CMTDE 2007, CMTDE 2009 and CMTDE 2011).
- Referee for international science journals : Desalination, Desalination and Water Treatment, Journal of Membrane Science, Chemical Engineering Journal.
- Editorial Board for Mediterranean Journal of Chemistry.
- Member of the scientific committees of international scientific events :
 - ✓ EuroMed Conferences : Desalination Strategies in South Mediterranean Countries : Cooperation between Mediterranean countries of Europe and the southern rim of the Mediterranean :
 - Euromed 2000, September 11–13, 2000 Jerba, Tunisia
 - Euromed 2002, May 4–7, 2002 Sharm El Sheikh, Egypt
 - Euromed 2004, May 30–June 2, 2004 Marrakech, Morocco
 - Euromed 2006, May 21–24, 2006 Montpellier, France
 - Euromed 2008, November 9–13, 2008 Dead Sea, Jordan.
 - ✓ Desalination and the environment, European Desalination Society, 22–25 April 2007, Halkidiki, Greece.
 - ✓ International Conference on Energy, Water & Environment (ICEWE 2010), International Association for Sharing Knowledge and Sustainability, Amman, Jordan, December 12-15, 2010.
 - ✓ IWA Regional Conference and Exhibition on Membrane Technology and Water Reuse, IWA MTWR 2010, Istanbul – Turkey, October 18-22, 2010.
 - ✓ The First International Seminar on Water, Energy and Environment. “ISWEE011”, Tipaza, Algeria, March 1-3, 2011.
- Member of the National Committee, within the framework of the LMD reform, since 2006.
- Elected member of the jury of recruitment and promotion of Professor assistant in chemistry.
- General Secretary of the National Trade Union of Higher Education and the Scientific Research, 2004 to 2009.

RESEARCH INTEREST

- Analytical chemistry and chemistry of saline solutions,
- Analysis and water treatment,
- Techniques of separation,
- Membrane processes applied to desalination and water treatment.

PUBLISHED PAPERS DURING THE LAST 10 YEARS

- ✓ **Selectivity of anion exchange membrane modified with polyethyleneimine**
F. Guesmi, Ch. Hannachi, B. Hamrouni
Ionics, Online First™, 5 October 2011, DOI 10.1007/s11581-011-0627-2
- ✓ **Influence of operating conditions on the retention of fluoride from water by nanofiltration**
I. Béjaoui, A. Mnif, B. Hamrouni
Desalination and Water Treatment, 29(2011)39-46.
- ✓ **Removal of chromium by adsorption on activated alumina**
I. Marzouk, Ch. Hannachi, L. Dammak, B. Hamrouni
Desalination and Water Treatment, 26(2011)279-286.
- ✓ **Effect of ionic strength on ion exchange equilibrium between cationic membranes and K^+/Na^+ , K^+/Li^+ and Na^+/Li^+ binary systems**
Ch. Hannachi, F. Guesmi, I. Marzouk, B. Hamrouni
Desalination and Water Treatment, 22(2010) pp. 265-270.
- ✓ **Effect of temperature on ion-exchange equilibrium between AMX membrane and binary systems**
F. Guesmi, Ch. Hannachi, B. Hamrouni
Desalination and Water Treatment, 23(2010)32-38.
- ✓ **Effect of some physical and chemical parameters on fluoride removal by nanofiltration**
Amine Mnif, Mourad Ben Sik Ali, Béchir Hamrouni
Ionics, 16 (2010) pp.245–253.
- ✓ **Electrodialytic desalination of brackish water: Effect of process parameters and water characteristics**
Mourad Ben Sik Ali, Amine Mnif, Bechir Hamrouni, Mahmoud Dhahbi
Ionics, 16 (2010) pp.621 – 629.
- ✓ **Denitrification of Brackish Water by Electrodialysis : Effect of Process Parameters and Water Characteristics**
Mourad Ben Sik Ali, Amine Mnif, Bechir Hamrouni, Mahmoud Dhahbi
Surface Engineering and Applied Electrochemistry, Vol. 46 (2010), pp. 253–262.
- ✓ **Boron removal by membrane processes**
Amine Mnif, B. Hamrouni, M. Dhahbi
Desalination and Water Treatment, volume 5 (2009) pp.119-123
- ✓ **Desalination of brackish water using electrodialysis : Effect of operational conditions**
Mourad Ben Sik Ali, Amine Mnif, Béchir Hamrouni, Mahmoud Dhahbi
Zastita Materijala, 50 (2009) pp.141–146.
- ✓ **Determination of selectivity of CMX cationic membrane at various ionic strengths.**
Ch.Hannachi, B. Hamrouni, M. Dhahi
Desalination and water Treatment, 10 (2009) pp. 47-52
- ✓ **Equilibrium and Kinetic studies of adsorption of boron onto activated alumina**
W. Bouguerra, I. Marzouk, B. Hamrouni
Water Environment Research, 12 (2009) pp. 2455-2459

- ✓ **Ion exchange equilibrium between cation exchange membranes and aqueous solutions of Na^+/K^+ , $\text{Na}^+/\text{Ca}^{2+}$ and $\text{K}^+/\text{Ca}^{2+}$**
Ch.Hannachi, B. Hamrouni, M. Dhahi
Ionics, 15 (2009) pp.445-451
- ✓ **Ion exchange equilibrium between ion exchange membranes and electrolyte solutions of Na^+/K^+ , $\text{Na}^+/\text{Ca}^{2+}$ and $\text{K}^+/\text{Ca}^{2+}$**
Ch.Hannachi, S. Bouguecha, B. Hamrouni, M.Dhabi
Desalination, 221(2008) pp.448-454.
- ✓ **RO membrane autopsy of Zarzis brackish water desalination plant**
M. Karime, S. Bouguecha, B. Hamrouni
Desalination, 220(2008)258-266.
- ✓ **Boron removal by adsorption onto activated alumina and by reverse osmosis**
W. Bouguerra, Amine Mnif, B. Hamrouni, M. Dhahbi
Desalination, 223 (2008) pp.31–37.
- ✓ **Coupling of Membrane processes for brackish water desalination**
Amine Mnif, S. Bouguecha, B. Hamrouni, M. Dhahbi
Desalination, 203 (2007) pp.331–336.
- ✓ **Equilibrium and kinetic studies of adsorption of silica onto activated alumina**
W. Bouguerra, M. Ben Sik Ali, B. Hamrouni, M. Dhahbi
Desalination, 206(2007)141-146.
- ✓ **Silica removal by ion-exchange resins,**
M. Ben Sik Ali, B. Hamrouni, S. Bouguecha, M. Dhahbi
Desalination, 167, (2004), 273-279.
- ✓ **Operating analysis of a direct energy coupled desalination family prototype,**
S. Bouguecha, B. Hamrouni, M. Dhahbi
Desalination, 168, (2004), 95-100.
- ✓ **Calco-carbonic equilibrium calculation,**
B. Hamrouni, M. Dhahbi
Desalination, 152, (2002), 167-174.
- ✓ **Calcul des coefficients d'activité et répartition des espèces ioniques en solution aqueuse d'électrolytes,**
B. Hamrouni et M. Dhahbi,
Journal Entropie, n° 237, (2002), 52-59.
- ✓ **Étude de la solubilité de la silice amorphe dans les solutions salines.**
B. Hamrouni, F. EL Mannaï et M. Dachraoui,
Journal de la Société Chimique de Tunisie, 2001, vol. IV, N° 9.
- ✓ **Analytical aspects of silica in saline waters, application to desalination of brackish waters,**
B. Hamrouni et M. Dhahbi,
Desalination, 136, (2001), 225-232.
- ✓ **Thermodynamic description of saline waters, prediction of scaling limits in desalination processes,**
B. Hamrouni et M. Dhahbi,
Desalination, 137 (2001), 275-284.