

Curriculum Vitae

Name : Olfat Abdel Chafi Fadali

Place & Date of birth : 9/11/1946 Beneesweef-Egypt

Address : Department of Chemical Engineering, Faculty of Engineering,
Minia University, El-Minia, Egypt
Phone: (086)2342337 (Home). E-mail: olfat.fadali@yahoo.com

Present Position : emeritus professor, chemical engineering.

Education

- B. Sc. Chemical Engineering, Faculty of Engineering, Alexandria University, Egypt 1970.
- Diploma, Chemical Engineering Department, Technical University of Norway, Trondheim, Norway-1974.
- M. Sc. Chemical Engineering, Faculty of Engineering, Alexandria University, Egypt-1978.
- Ph. D. Chemical Engineering, Chemical Engineering Department, Minia University, Egypt-1980.

Experience : From 1970 to 1973, Lecturer, teaching general Chemistry and Pollution in Technical Health Institute, Alexandria, Egypt.

From 1973 to 1974, Post graduate student for the Diploma in pulp and paper technology, Technical University of Norway, Trondheim, Norway.

From 1974 to 1975, doing research in pulp technology, Technical University of Norway, Trondheim, Norway.

From 1975 to 1976, doing research in the area of industrial air and water pollution, in Alexandria High Health Institute, Alexandria, Egypt.

From 1976 to 1978, Demonstrator in Chemical Engineering department, Faculty of Engineering, Minia University El-Minia, Egypt.

From 1978 to 1980, Assistant Lecturer in Chemical Engineering department, Faculty of Engineering, Minia University El-Minia, Egypt.

From 1980 to 1984, Visiting Doctor, Department of Chemical Engineering, Technical University of Nova Scotia, Nova Scotia, Canada.

From 1984 to 1989, Associate Professor, Chemical Engineering Department, Faculty of Engineering, Minia University, El-Minia, Egypt.

From 1989 to 1994, Professor in chemical Eng. Dept., Minia University,

Joint Supervision for PhD studies, Chemical Engineering Department, Technical University of Denmark, Denmark (1994-1995).

Joint Supervision for PhD studies, Chemical Engineering Dept., University of Bradford, UK (1995-1996).

Joint Supervision for PhD studies, Institute of Thermal Engineering, University of Kassel, Germany (2000-2001)

From 1994 to 1997, Head of the chemical Engineering Dept., Minia, Univ., El-Minia, Egypt.

From 1997 - 2000, Professor, same Department

From 2000-2003, Head of Chem. Eng. Dept., Minia Univ. El-Minia

From 2003-2005, Professor, same Department

From 2005-2006 Head of Petroleum Engineering Department, Minia Univ., El-Mina

Emeritus Professor since November 2006, Chemical Engineering Dept. Minia Univ., El-Minia

A permanent member of the Scientific Committee for promotion Professors and Assistance Professors, from 2005 to 2008 and from 2012 to 2015.

Field of Research: pollution control by electrochemical techniques & corrosion.

Published Book:

"Magic of magnetic field: Influence of Magnetic Field on Removal of Copper Ions from Waste-Water"

**Mohamed Obaid and Olfat Fadali
Lambert Academic Publishing, 2012**

List of publications is attached.

LIST OF PUBLICATIONS

By

Prof. Dr. Olfat A. Fadali

1. G. H. Sedahmed, H. Farag, M. M. Nassar and Olfat. A. Fadali.
“Mass Transfer Enhancement by Gas Stirring in the Extraction of Copper by Naphthenic Acids”.
29th Canadian Chemical Engineering Conference, Ontario, Canada (September 1979)
2. G. H. Sedahmed, H. M. Asfour, M. M. Nassar and Olfat. A. Fadali.
“The effect of drag reducing polymer on the rate of mass transfer in electrochemical machining”.
Corrosion Science, 22, 8, 807-812, (1982).
3. H. Sedahmed, H. Farag, M. M. Nassar and Olfat. A. Fadali.
“Effect of Drag Reducing Additives on the rate of Mass Transfer in a Parallel Plate Electrochemical Flow Reactor”.
Journal of Applied Electrochemistry 12, 7-11, (1982).
4. M. Al Taweel, Olfat. A. Fadali, G. M. Mackay, W. Mckee and J. Kwak.
“Rheological Properties of Coal / Water and Coal / Oil / Water Mixtures”.
Fourth International Symposium On Coal Slurry Combustion, Florida, U. S. A. (May, 1982).
5. M. Nassar, Olfat A. Fadali and G. H. Sedahmed.
“A New Electrochemical Technique for Bleaching Cellulose Pulp”.
Journal of Applied Electrochemistry, 13, 663-667 (1983).
6. M. M. Nassar, Olfat. A. Fadali and G. H. Sedahmed.
“Decolorization of Pulp Mill Bleaching Effluents by Electrochemical Oxidation”.
Pulp and Paper Canada, 84, 12, T275-T278 (1983).
7. M. Al Taweel, H. A. Farag, Olfat. A. Fadali and G. D. M. Mackay.
“A method For Determining the Settling Behavior of Dense Suspensions”.
The Canadian Journal of Chemical Engineering, 61, 534-540 (1983).
8. Olfat. A. Fadali, J. Kwak and A. M. Al Taweel.
“Rheology of Coal / Water Suspensions”.
57th Colloid & Surface Science Symposium, Toronto. Canada (June, 1983).
9. Olfat. A. Fadali, J. Kwak, H. A. Hamza and A. M. Al Taweel.
“The Role of Surface Forces In the Compaction and Dewatering of Coal Fines”.
57th Colloid & Surface Science Symposium, Toronto, Canada (June 1983).
10. Olfat. A. Fadali.
“Desulfurization of Flue Gas by Anodic Oxidation of SO₂ In A Parallel Plate Diaphragm Cell”.

The Bulletin of the Faculty of Engineering & Technology, Minia University, 3, 1, 50-66, (1984).

11. Mamdouh M. Nassar and Olfat. A. Fadali.
"Flue gas desulphurization by electrolytic reduction of SO₂ to elemental Sulfur".
International Society of Electrochemistry 33 th Meeting, Berkely, California, August 5-10, (1984).
12. Mamdouh M. Nassar and Olfat A. Fadali.
"Morphological Study and Fiber Length distribution of Sugarcane".
Indian Pulp & Paper 5, 17-20, (1984).
13. M. Al-Taweel and Olfat. A. Fadali.
"Study on the Fundamentals of the use of coal / oil aggregates to form coal / liquid fuel".
Mixtures, Report Submitted to **N R C C, Ottawa (April 1984).**
14. M. I. Ismail, Olfat. A. Fadali and M. M. Nassar .
"On Corrosion and Electrochemical Characteristics of some perovskites".
8th International Congress CHISA'84, Praha-Czechoslovakia.
15. O. A. Fadali
"Electrochemical production of sulfuric acid from flue gas sulfur dioxide"
Indian Journal of Technology, 29 (8) 392-394 (1984).
16. H. M. Asfour, M.M. Nassar, Olfat. A. Fadali and M. S. El-Geundi .
"Colour Removal from Textile Effluents Using Hardwood Saw-dust As an Adsorbent".
J. Chem. Tech. Biotechnol. 35 A, 28-35, (1985).
17. H. M. Asfour, Olfat. A. Fadali, M.M. Nassar and M. S. El-Geundi .
"Equilibrium Studies on Adsorption of Basic dyes On Hardwood".
J. Chem. Tech. Biotechnol. 35 A, 21-27, (1985).
18. M. M. Nassar, Olfat. A. Fadali and M. Z. Ebrahim .
"Studies on SO₂ removal from effluent using an electrochemical Fluidized bed".
2nd Arab Regional conference on Sulphur and its uses in the Arab world, Soudi Arabia, Vol. II, 301, (March 1985).
19. M. Al-Taweel, Olfat. A. Fadali and J. C. T. Kwak .
"Production of Stable and pumpable coal / water Mixtures".
Report Submitted to **NRCC Atlantic Research Laboratory (June 1985).**
20. M. Al-Taweel, Olfat. A. Fadali and J. C. T. Kwak .
"Effect Coal properties on the rheology and stability of CWS fuels".
7th International symposium on coal slurry Technology New Orleans, (May 1985).
21. M. Al-Taweel, Olfat. A. Fadali, J. Kwak and H. A. Hamza .
"Influence of aggregate formation on the rheology and stability of coal / water slurries".
4th International Symposium on agglomeration Toronto pp. 607-615, (June 1985).

22. M. Al-Taweel, Olfat. A. Fadali and J. Kwak.
“Influence of coal characteristics on the rheology and stability of coal slurry fuels”.
35th Canadian chemical Engineering Conf., Calgary, Canada. vol. 1, pp. 266-277, (October 1985).
23. L. M. Farag and Olfat. A. Fadali .
“Kinetic Studies on thermal degradation of rice hulls”.
Bull. NRC, Egypt, 10, 1, 43-52, (1985).
24. Olfat A. Fadali .
“Flue gas desulphurization using anodic oxidation”.
Sulphur, no. 187, 23-25, November-December (1986).
25. Olfat. A. Fadali and M. El-Shayeb .
“A kinetic study on the production of copper powder from dilute solution by cementation on a fixed bed of zinc pellets”.
Bulletin of Electrochemistry, 2, 4, 397-399 (1986).
26. S. Mansour, Olfat. A. Fadali, M. M. Nassar and E. E. Ebrahim.
A thermodynamic study of the solvent extraction of proton ionization of the p-ethoxy anilinium ion”.
The 2nd Minia Conference on energy and its the applications pp. 362-370 January (1988).
27. G. H. Sedahmed, I. A. Mansour, Olfat. A. Fadali, M. M. Nassar and M. M. El-Shayeb .
“Effect of drag-reducing polymer on the rate of mass transfer in fixed bed reactors”.
Journal of Applied Electrochemistry, 17, 583-588, (1987).
28. M. Bastaweesy, Olfat. A. Fadali and I. H. Aly .
“Wear behavior of Cr-plated nodular cast iron”.
3rd Cong. of Chem. Eng., March 1988. TESCE, 14, 2, pp. 115-124 (1988).
29. Olfat A. Fadali.
“Production of H₂SO₄ by electrochemical oxidation of sulphur”.
Annali di Chimica, 78, 715-720, (1988).
30. Olfat A. Fadali.
“Flue gas desulphurization of S and H₂SO₄ production using two-compartment cell”.
Bulletin of electrochemistry, 4, 1, 49-54, (1988).
31. Olfat A. Fadali.
“Electrochemical decolorization of waste solutions containing basic dye”.
Bulletin of the faculty of engineering & technology, Minia Univ. 7, 1, 109-120 (1988).
32. Olfat A. Fadali.
“Electrochemical removal of glucose from waste solutions by anodic oxidation at rotating cylinder anode”.
Indian Chemical Engineer, 43 (T-106) xxx1, 3 (1989).
33. Mamdouh M. Nassar, Olfat A. Fadali and A. M. El-Kersh.

- “Flow behaviour Index of Coal-water mixture”.
Bulletin of the Faculty of Engineering & Technology, Minia University, 7, 1. 23-39, (1988).
34. Mamdouh M. Nassar, Olfat A. Fadali and G. H. Sedahmed .
“Effect of Drag Reducing polymer on the rate of cementation of copper from dilute solutions on rotating zinc cylinder”.
Metalkund-60-Bd 80 (1989).
35. Mamdouh M. Nassar, Olfat A. Fadali and Mohsen Akel .
“The influence of surfactants on the performance of air crystallizer”.
Bulletin of the Faculty of Eng. & Tech. Minia University, 9 (1990).
36. Zaatoot, Olfat. A. Fadali, I. H. Aly and A. F. Abdel-Salam .
“Fertilizer from Natural Egyptian sources”.
Bulletin of Faculty of Eng. & Tech. Minia University, 9 (1990).
37. Olfat A. Fadali.
“Electrochemical production of sulphuric acid from flue gas sulphur dioxide”.
Indian Journal of Technology, Vol. 29, 392-394, August (1991).
38. Olfat A. Fadali and Asma A. El-Sattar .
“Desulphurization of flue gas using rough rotating cylinder anode”.
Bulletin of the Faculty of Eng. & Tech. 11, 255, (1992).
39. Olfat A. Fadali.
“Bleaching of bagasse pulp by electrochemical process”.
Bulletin of Electrochemistry 9 (1), 21-24, Jan. (1993).
40. Mamdouh M. Nassar and Olfat A. Fadali.
“Reduction of Anodic dissolution of Copper in phosphoric acid by organic polymers”.
J. Fac. Sci. U. A. E. Univ., 6, 17, 290-96, (1994).
41. G. H. Sedahmed, A. Y. Hosny, Olfat. A. Fadali and I. M. Mekawy.
“Mass transfer at rough gas-sparged Electrodes”.
Journal of Applied Electrochemistry 24, 139-144, (1994).
42. Y. H. Magdy, A. A. Mohammed, Olfat. A. Fadali and E. A. Ashour.
“Yellow basic dye removal by adsorption palm fruit bunch particles”.
Al-Azhar Engineering fourth International Conf. 251-260, Dec. (1995).
43. M. J. Slater, Olfat. A. Fadali, E. Ashour and M. Hashem.
“Studies of Drop Break-up and Characteristic Velocity in Liquid-Liquid Systems in a rotating Disc contactor”.
Minia 1st Conf. Eng. & Tech., pp. 375-391, October (1995).
44. Olfat A. Fadali and Mamdouh M. Nassar
“Electrochemical Decolorization of waste solutions containing Basic dyes”.
CHISA 96, Prah-Czechoslovakia, August (1996).
45. H. Aly, Olfat. A. Fadali, M. M. Younan, M. A. Arafa, A. T. El-mallah and T. Oki.

- “Electrodeposition of bright Zn-Ni-Fe alloy coatings as clean technology”.
2nd Int. Conf. AQUA-TEC 96, Cairo, December 19-21, (1996).
46. M. M. Younan, Olfat. A. Fadali, I. H. M. Aly and T. Oki .
“Polarization phenomena during Zn-Ni-Fe alloy electrodeposition in acidic chloride bath”.
Material Transaction JIM 37, 12, 1763-1767, (1996).
47. H. Aly, Olfat. A. Fadali, M. M. Younan, A. A. Arafa, A. T. Elmallah and T. Oki .
“Effect of Fe deposition on crystal structure and microhardness of electrodeposited Zn-Ni alloys”.
7th Int. ASAT Conf., Cairo, 13-15 May (1997).
48. Olfat. A. Fadali, I. H. Aly, M. M. Younan, M. A. Arafa, A. T. El-Mallah and T. Oki .
“Corrosion resistance and surface topography of electrodeposited Zn-Ni-Fe alloy”.
7th Int. ASAT Conf., Cairo, 13-15 May (1997).
49. M. M. Nassar, Olfat. A. Fadali and E. A. Ashour .
“Thermal analysis of Bagasse Kraft Black Liquor”.
Materials and Fire, the 5th Arab Int. Conf. on Mat. Sc., Alex. Egypt, 22-25 March, pp.177-178 (1998).
50. G.H. Sedahmed, Olfat.A. Fadali, M.J. Slater and M.A. Hashem
"Drop formation mass transfer in a rotating disc contactor"
The 4th International Symposium at the Queen Univ. of Belfast U.K. 22-27 June (1998).
51. G.H. Sedahmed , Olfat.A.Fadali , I. ashour, M.j. Slater, and M.A. Hashem
"Mass transfer characterization and motion of non-breaking single liquid drop in Kuhni column"
The 4th International Symposium at the Queen Univ. Of Belfast U.K. June (1998)
52. M. M. Nassar, Olfat. A. Fadali, Eman A, Ashour and Taha E. Farag.
“Heat and Momentum Transfer Parameters of Bagasse Black Liquor”.
Alexandria Engineering Journal, Vol. 38, Jan. (1999).
53. M. M. Nassar, O. A. Fadali, M. A. Khattab and E. A. Ashour .
“Thermal studies on paper treated with flame-retardant”.
Fire and Material, 23, 125-129 (1999).
54. Ashour I., R.M. Abdulmonem, Fadali O.A., Slater M.J., Hashem M.A.
"Single liquid breakage probability and characteristic velocity in liquid-liquid systems in A rotating disc contactor"
Tans. Egyptian Society of Chemical Engineers TESCE-1999.
55. M. M. Nassar, Olfat A. Fadali and R. M. Abdel-Monem.
“Gas stirring technique for adsorption of basic dyes onto montuorillonite-clay”.
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56. G. H. Sedahmed, M. S. Abdo, M. A. Kamal, O.A. Fadali, and H.M. Osama.
"A mass transfer study of the electropolishing of metals in mechanically agitated vessels"
Int. Comm. Heat Mass Transfer, **28**, **2**, **257-265 (2001)**.
57. G.H. Sedahmed, M.S. Abdo, M.A. Kamal, Olfat.A. Fadali, and H.M. Osama.
"Effect of gas sparging on the rate of mass transfer during electropolishing of vertical plates"
Chemical Engineering and Processing, **40**, **195-200 (2001)**.
58. Olfat.A. Fadali
"Effect of drag-reducing polymer on the rate of cementation of copper ion on zinc pellets"
Chemical & Engineering Technology, **4**, **26**, **491-495 (2003)**.
59. Olfat.A. Fadali
"Effect of gas stirring on the external mass transfer, intraparticle diffusion and energy consumption during adsorption"
Adsorption Science & Technology, **21**, **10**, **935-950(2003)**
60. Olfat.A. Fadali , E.E. Ebrahiem, Y.H. Magdy, A.A. Daifallah and M. M. Nassar.
"Removal of Chromium from Tannery Effluents by Adsorption"
J. Environ. Sci. and Health, Part A, vol. **A39**, **2**, **465-472 (2004)**.
61. Olfat.A. Fadali
"Gas stirring to enhance mass transfer during extraction of copper by naphthenic acid"
J. of basic Science and Engineering, **12**, **3**, **233-239 (2004)**.
62. Olfat A. Fadali
"The corrosion rate of a zinc/steel rotating cylinder in a saline water and saline water-alcohol environment"
Anti-Corrosion Methods and Materials, **51**, **1**, **47-51 (2005)**.
63. Olfat A. Fadali, A.A. El-Sattar, and S.M. Abobakr
"Energy Consumption for Decolourization of Dye during Electrochemical and Adsorption Techniques"
The 3rd MICATE, Minia University, Egypt, 3-5 April (2005).
64. Olfat A. Fadali, Diaan El Monayrei and Mervat S. Ghaly
"A Comparative Study for the Removal of Glucose from Food Industry Effluents by Anodic Oxidation and Electro-Coagulation"
Bulletin of Faculty of Engineering, Minia University **29**, **1-5 (2010)**.
65. Olfat A. Fadali, Diaan El Monayrea, Mervat S. Ghaly
" Removal of Glucose from Waste Solution in an Electrochemical Reactor with a Rotating Lead and Aluminium Cylinder Anode."
Bulletin of Faculty of Engineering , Minia university, **29**, **6-12 (2010)**.
66. Magic of magnetic field: Influence of magnetic field on removal of copper ions from waste water".by M.Obaid and O.A.Fadali. Book published in Lambert Academic Publishing,2012.

Link: <http://www.amazon.com/Magic-magnetic-field-influence-waste-water/dp/3659142735>.

67. Fadali O.A., Farrag T.E., Hashiem M.A. and Erfan N.A.
"Galvanic corrosion of iron-copper double tube in saline water under laminar flow & forced convection"
MJET, Faculty of Eng.-Minia Univ. Vol.30.No,2 20-27 (July 2011).
68. Fadali O.A., Ebrahiem E.E., Farrag T.E., Brakat N.A., Mahmoud M.S. and Obaid M.
"Effect of magnetic field on the rate of copper cementation onto rotating iron cylinder"
MJET, Faculty of Eng.-Minia Univ., Vol.30, No.2, 28-36 (July 2011).
69. Olfat A. Fadali, Ebrahiem E. Ebrahiem, Mohamed S. Mohamed, and Mohamed Obaid
"Contribution of electromagnetic field in elimination of a heavy metal from industrial Waste water"
Proceeding of the 6th ICEE Conference. Military Technical College , Kobry El-Eobbah, Cairo-Egypt, 29-31 May 2012
70. Fadali O.A., Ebraheim E.E., Farag T.E., Barakat M.S., Mahmoud M.S. M.Obaid
"Enhancement of mass transfer rate and diminution of power consumption of copper Cementation using electromagnetic field"
Energy and Environmental Focus, 2, 2, 133-138 (2013).
71. Fadali O.A., Nassaar M.M., Ebrahim E.I., Ashour I., Shehata N.
"Effect of lag-phase in the transform oxitic to noxic conditions on the performance of the Sequencing batch reactor"
Int. J. Innovation and Applied Studies, 7(1), 393-400 (2014).
72. Olfat A. Fadali, Mofamad A. Abd-alkareem, Hend Omar El-Shahat
"Enhancement of copper removal in fixed bed under influence magnetic field"
Minia J. of Engineering and Technology, 32, 2, 131-142 (2014).
73. M.Obaid, Gehan M.K. Tolba, Moaaed Motlak, Olfat A. Fadali, Khalil Abdelrazek Khalil, Abdulhakim A. Almajid, bongsoo Kim, Nasser A.M. Barakat
"Effective polysulfone-amorphous SiO₂ NPs electrospun nanofiber membrane for high Flux oil/water separation"
Chemical Engineering Journal 279, 631-648 (2015).
74. M.Obaid, Nasser A.M. Barakat, O.A. Fadali, Moaaed Motlak, Abdulhakim A. Almajid, Khalil Abdelrazek Khilil
"Effective and reusable oil/water separation membranes based on modified polysulfone Electrospun nanofiber mats"
Chemical Engineering Journal 259, 449-456 (2015).
75. M.Obaid, A.M. Barakat, Olfat A. Fadali, Saeed Al-Meer, Khalid Elsaid, Khalil Abdelrazek Khalil
"Stable and effective super-hydrophilic polysulfone nanofiber mats for oil/water Separation"
Polymer 72, 125-133 (2015).
76. Olfat A. Fadali, Ebrahiem E. Ebrahiem, Sawsan Abo Talas

"Enhancement of textile dye removal by electrocoagulation under influence of magnetic field"

Minia J. of Engineering and Technology, 34, 1, 89-98 (2015).

77. Olfat A. Fadali, Mohamed S. Mahmoud, Ominia H. Abdel-Rahman, Shima G. Mohammed

"Treatment of edible oil emulsion effluent by electrochemical technique"

Minia J. of Engineering and Technology, 34, 1, 80-88 (2015).

78. Olfat A. Fadali, Mohamad Obaid, Mohamed S. Mahmoud, Taha E. Farag, Kim TaeWoo, Khalil Abdelrazek Khalil, Nassare A.M. Barakat

"Copper ion cementation in presence of a magnetic field"

Chemical Engineering Technology, 38 (3) 441-445 (2015)

79. O.A. Fadali, E.E. Ebrahiem, A. El-gamil, Hossam Altaher

"Investigation of the electrocoagulation treatment technique for the separation of oil from Wastewater"

Journal of Science and Technology, 9 (1): 62-74. (2016).

80. Hend Omar Mohamed, M. Obaid, Kyung-Min Poo, Mohammad Ali Abdelkareem, Sawsan Abo Talas, Olfat A. Fadali, Hak Yong Kim, Kyu-Jung Chae

"Fe/Fe₂O₃ nanoparticles as anode catalyst for exclusive power generation and degradation of organic compounds using microbial fuel cell"

Chemical Engineering Journal, 349, 800-806 (2018).

81. Olfat A. Fadali, Mohamed S. Mahmoud, Omnia H. Abdelraheem, Shima G. Mohamed

"Evaluation of the hydrodynamics generated by agitation and electromagnetic field During the electrocoagulation of oil/water emulsion"

Journal of Water Process Engineering, 25, 182-189 (2018).