

Curriculum Vitae

Personal Information

TASSALIT Djilali, (Doctorate in Chemical Engineering)
Scientific Researcher,
Unité de Développement des Equipements Solaires UDES,
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A. Education

2009-2013

Course: Doctorate in science, option Chemical Engineering. (Doctor of Engineering processes)

University: Houari Boumedién University of Sciences and Technology (bab ezzouar), Algiers, Algeria.

Thesis: Photocatalytic degradation of organic pollutants by UV light and conception of a new solar reactor design for water treatment applications

Supervisor: Professor BENTAHAR Fatiha

2006-2008

Course: Magister in Energetic process (Option: Chemical Engineering), a Pre-Ph.D. Degree

University: Houari Boumedién University of Sciences and Technology (bab ezzouar), Algiers, Algeria.

Thesis: Heterogenic photocatalysis of organic pollutants in new photocatalytic reactor.

Supervisor: Professor BENTAHAR Fatiha

2002-2005

Course: Engineer in Chemical (Master of Science) in Industrial Chemistry

University: Houari Boumedién University of Sciences and Technology (bab ezzouar), Algiers, Algeria.

Thesis: photocatalytic degradation of phenol by titan dioxide catalyst in a helical reactor.

Supervisor: LAOUFI Nadia

1998-2001

Course: Applied Chemistry

University: Houari Boumedién University of Sciences and Technology (bab ezzouar), Algiers, Algeria.

Thesis: Hydrogen Production via Steam Reforming of Methane using nickel catalyst

Supervisor: Professor BELHADI

A. Research and Teaching and working profile Interests

(Present and near Future, but not limited to..)

- Wastewater treatment
- Photocatalytic waste water treatment, photo-oxidation of Drug, medicaments and pesticides,
- Advanced Oxidation processes for water treatment
- Synthesis new catalyst materials for water treatment.
- The use of renewable energies for waste water treatment.
- Desalination by solar distillation.
- Water treatment by biotechnologies methods.
- Water disinfection by solar and U.V irradiation (SODIS and Photocatalysis).
- The use of advanced oxidation processes for organic pollutants elimination from water.
- Water pollution by hydrocarbon.
- Chemical Engineering (Unit Operations/Processes, Environmental Pollution and its Control/Desalination and Waste Water Treatment)
- Nano-Technology
- Materials Technology/Chemistry/Science
- Industrial/Applied Chemistry/Science

B. Research Key words

Nanoparticles and Nanotechnologies, Photocatalysis, Biotechnology, Desalination, Water Treatment, Water Reuse, Renewable Energies, Solar Energies, Disinfection, Membrane, Organic Pollutants, Photodegradation.

C. Work experience

May 2014:

Researcher on Solar Energy development Center

November 2009

Division chief, production and process, Alger's. Algeria

May 2006

Norm service chief

Total 8 years experience, working on various projects in the energetic company process and renewable energies research center in Algeria.

- Preparation of departmental standard/specification/ Fabrication norms and procedures.
- Co-ordination with various disciplines for resolution of engineering specs.
- Carrying out independent detailed technical audit and technological solution for civil explosive production for quarries use in Algeria.

- Familiar with various client design basis and specifications
- Preparation amelioration of new process for carrier's explosive production and use.
- Sizing of various equipments such as vertical/horizontal vessels, scrubber, tanks and vapor production and heat exchange.
- Industrial safety and security control of industrial materials.
- Evaluation of offers from vendors, generate technical queries, discussion with vendors and preparations of technical bid evaluation.
- Review of vendor drawings/documents.
- Wastewater treatment by using biotechnologies and solar energies
- Use of Advanced Oxidation processes for water treatment and reuse
- Project Manager of the design and implementation of a new photocatalytic reactor for water treatment (Algeria-Tunisia collaboration project).
- Member of the WATERBIOTECH project "Biotechnology for Africa's sustainable water supply" (European Commission- Africa).
- Formation of technical process for civil explosives production and use in carriers and industrial security and safety- NORINCO China.
- Commission member offer call study (Evaluation and Negotiation); for 4 years.

D. Scientific Society Memberships

- Algerian network for chemical analysis and control.
- Waterbiotech project for wastewater treatment- Europe-Africa.

E. Analysis Experience

- UV-Visible Spectroscopy
- High-performance liquid chromatography (HPLC)
- Gas chromatography (GC)
- X-ray Diffraction (XRD)
- FT-Infrared (FTIR)

F. Specialized Skills

Language

- Fluent in oral and written Arabic, French and English

Computer

- Advanced knowledge of Microsoft Office (Word, Excel, power point), (general computer skills), Origin, Fortran, Access, analysis methods :

Lab Experience

- Experience in Experiment Design Methods
- Background in Nano Material Synthesis

G. Research Projects

1. Member of a PNR (National Research Project)

Project Title: Design and implementation of a new photocatalytic reactor. Application of advanced oxidation processes for emerging contaminants treatment: the case of pharmaceuticals and plant waste.

2. Member of the collaborative project between Algeria and Tunisia 2012-2015:

Project Title: Design and implementation of a hybrid photocatalytic system for the wastewater treatment from plants and hospitals.

3. Member of FP7 "WATERBIOTECH" 2010-2014

Project Title: Biotechnology for Africa's sustainable water supply
Funding Scheme: KBBE.2010.3.5-02
Grant Agreement number: 265972

H. Patents

1 - Patent INAPI/Algeria

Title of patent: "Distiller with multiple floors high performance"

Deposit No.: 120,011

Filed: January 4, 2012

2 - Patent INAPI/Algeria

Titles of patents:

- Tubular photoreactor for photocatalysis and solar disinfection of water

No deposit: 120,486

Filing Date: July 8, 2012

- Photocatalytic hybrid system for the treatment of organic effluents

N° du dépôt : 140069

Date du dépôt : 05/02/2014

I. Publications/Presentations

➤ Publication

1. N.A. Laoufi, D. Tassalit, F. Bentahar "The degradation of phenol in water solution by TiO₂ photocatalysis in helical reactor" Global NEST Journal, Vol 10, No 3, pp 404-418,2008, Greece.
2. D. Tassalit, N.A. Laoufi, F. Bentahar Photocatalytic Deterioration of Tylosin in an Aqueous Suspension Using UV/TiO₂. Science of Advanced Materials. Vol. 3, 1–5, 2012.
3. Hanane Aburideh, Adel Deliou, Brahimabbad, Fatmaalaoui, Djilalitassalit, Zahiaticgrine; An Experimental Study of a Solar Still: Application on the sea water desalination of Fouka ;Procedia Engineering, Volume 33, 2012, Pages 475-484.
4. A. Diaf, H. Aburideh, Z.Tigrine, D. Tassalit, F.Alaoui ; Effect of Temperature on the Prformance of multi-Stage Distillation; World Academy of Science, Engineering and Technology 66, 2012.
5. A. Diaf, H. Aburideh, Z.Tigrine, D. Tassalit, F.Alaoui. Effect of Temperature on the Performance of Multi-Stage Distillation; World Academy of Science, Engineering and Technology 66 2012.
6. B. Abbad, A. Lounis, And Tassalit. Djilali, Adsorption of Methylene Blue from Aqueous Solution on the Surface of Znapso-34 Nanoporous Material. World Academy of Science, Engineering and Technology 71 2012.

➤ **Conferences Presentations**

7. D. Tassalit A. Laoufi, F.Bentahar, « Dégradation du phénol en présence de TiO₂/UV ».Premières journées de chimie à l'école militaire polytechnique,2004, Ageria.
8. N.A. Laoufi, D. Tassalit, F.Bentahar « The dégradation of phenol in water solution TiO₂ photocatalysis in a helical reactor ».10th International Conference On Environmental Science And Technology 3rd - 6th March 2008 Cairo Egypte.
9. Laoufi N.A., Tassalit D., Bentahar F. "Photocatalytic degradation of carbamate Insecticide active ingredient (Methomyl) in a helical reactor". Fourth Environmental Symposium of German-Arab Scientific Forum for Environmental Studies, 7-8 October 2008, Fès, Maroc.
10. Communication internationaleorale :A.Diaf, Z.Tigrine, H. Aburideh, D.Tassalit ,F.Alaoui and B .Abbad « Engineering Study and Equipment Design: Effects of Temperature and design variables on Yield of a Multi-Stage Distillator» March.27-31,2012 Madrid, Spain.
11. Communication internationaleorale :A.Diaf, H. Aburideh,Z.Tigrine, D.Tassalit , and F.Alaoui « Effects of Temperature on performance of a Multi-Stage Distillator» June 27- 28,2012 Paris,France. Communication par affiche :A.Diaf, Z.Tigrine, H. Aburideh, D.Tassalit, F.Alaoui and
12. B.Abbad«Effects of Temperature and design variables on Yield of a Multi-Stage Distillator».3èmes journées du Réseau Algérien des Sciences de la Mer RASMER à l'hôtel EDENE PALACE, Ain EL Turck du 06 au 07 Juin, 2012, Oran.
13. O.Benhables, N.Chekir and, D.Tassalit - Decontamination water by ultraviolet light: case of methylene blue. Global Conference on Global Warming 2012, Istanbul, Turkey, July 8-12, 2012.
14. D.Tassalit, N.Chekir, O.Benhables, and F. Bentahar - Conception of new reactor for photocatalytic degradation of pharmaceutical pollutants » International Symposium on Catalysis and Speciality Chemicals ISCSC, Tlemcen, Algeria, 23-26 September 2012.
15. D. Tassalit, N. Kasbadji Merzouk, N.Chekir and O. Benhables - Use of solar photocatalysis as a complementary process of biological wastewater treatment. The first international waterbiotech conference. National Research Center (NRC) Cairo, Egypt, October 09 -11, 2012.
16. O. Benhables, N.Chekir, D. Tassalit and N. Kasbadji Merzouk - Etude de la dégradation solaire du bleu de méthylène. 5ème Conférence Internationale sur l'Environnement : « l'innovation au service de l'environnement » CITET Tunis, 5-7 décembre 2012.
17. N.Chekir, N. Kasbadji Merzouk, O. Benhables, S. Igoud, D. Tassalit, L. Amrouche,H. Boukendakdji - Photoreacteur tubulaire pour la photocatalyse et la désinfection solaire des eaux. 5ème Conférence Internationale sur l'Environnement : « l'innovation au service de l'environnement » CITET Tunis, 5-7 décembre 2012.
18. Tassalit Djilali, Kasbadi Merzouk Nachida, Tegrin Zahia, Remontée Des Eaux De Rejets Et De La Salinité A Ouargla Dans Le Sud Algérien Problématiques Et Solutions Apportées. Sénégal, Juillet 2013.
19. Nadia Chekir, Abdelhakim Belaoura, Ali Mounir Taibaoui, Djilali Tassalit, Ouassila Benhables, Nadiaaicha Laoufi And Fatiha Bentahar. Degradation By Solar Radiation Of Methomyl In The Presence Of Titanium Dioxide The 4rd Maghreb Conference On Desalination And Water Treatment" *Cmtde 2013*" Hammamet, Tunisia 15-18 December, 2013.

20. Nadia Chekir, Ouassila Benhabiles, Djilali Tassalit, Nadia Aicha Laoufi Et Fatiha Bentahar. La Dégradation Photocatalytique Du Bleu De Méthylène En Solution Aqueuse De Tio₂ Et Zn. La 3ème Conférence Internationale Sur L'eau « Ci. Eau 2013 » Le 18-19 Novembre 2013, Hôtel Hilton A Alger.
21. O. Benhabiles, N. Chekir, D.Tassalit. Study Of Solar Photocatalysis In A Fixed Bed Reactor. 3ème Conférence Internationale Sur L'eau. Ci.Eau 2013 ,18-19 Novembre 2013, Alger, Algérie.
22. Djilali Tassalit, Sara Loucif, Nadia Chekir, Nadia Aicha Laoufi Et Fatiha Bentahar The Degradation Of Organique Pollutants By Using Doped Photocatalyst And Solar Irradiation. 2nd International Conference On Applied Life Sciences (Icals 2013), Dubai, Uae, September 15-17, 2013.
23. Nadia Chekir, Abdelhakim Belahoura, Ali Mounir Taibaoui, Djilali Tassalit, Ouassila Benhabiles, Nadia Aicha Laoufi Et Fatiha Bentahar. Etude De La Dégradation D'un Polluant Biorecalcitrant Par Photocatalyse Solaire. La 3ème Conférence Internationale Sur L'eau « Ci. Eau 2013 » Le 18-19 Novembre 2013, Hôtel Hilton A Alger.
24. D. Tassalit ; N. Chekir ; N. Laoufi ; N. Kasbadji Merzouk ; O. Benhabiles ; F. Bentahar. Degradation Of Pharmaceutical Pollutants In Water By Tio₂ Assisted Photocatalytic Process. The Second Waterbiotech International Conference, Wtaerbiotech'14, 08 - 10 Janvier 2014, Marrakech, Maroc.
25. A.A. Sarrai ; N. Kasbadji Merzouk ; D. Tassalit (Algeria), Removal Of Tylosin From Aqueous Solution By Activated Carbon Synthesized From Wheat Bran, The Second Waterbiotech International Conference, Wtaerbiotech'14, 08 - 10 Janvier 2014, Marrakech, Maroc.
26. Nadia Chekir, Ouassila Benhabiles, Djilali Tassalit, Nadia Aicha Laoufi And Fatiha Bentahar. "Solar Photocatalytic Degradation Of Pharmaceutical Pollutant In Titanium Dioxide Solution". 4eme Conférence Internationale : Green Process Engineering « Gpe14 » 07-10 Avril 2014, Séville-Espagne.
27. Ouassila Benhabiles, Nadia Chekir, Djilali Tassalit. Parametric Study Of Methylene Blue Degradation Using Immobilized Tio₂ Under Sunlight. The Second Waterbiotech International Conference, Wtaerbiotech'14, 08 - 10 Janvier 2014 , Marrakech, Maroc

G. Academic References

- Fatiha BENTAHAR,
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