

Curriculum Vitae of Prof. Dr. Ayad F. Alkaim

Business address: Babylon university, college of science for women-chemistry department, 5001 Hilla, Iraq, Tel./Whats app: +964-780-1324-986,

e-mali: alkaimayad@gmail.com,

Born: February 18th 1980 in Babylon, Iraq, married, 2 children

Oct. 1998 - July 2002 Study of Chemistry at the Babylon university- college of science.

Oct. 2002- April 2005 Master in physical chemistry (Surface chemistry)

May 2005-August 2008 Researcher and lecturer in college of science for women-chemistry department/ Babylon university.

April, 2012 Ph.D. in Chemistry (surface chemistry and application of nanotechnology), Babylon university-Iraq, supported by Hannover Universitat-Germany

June 2012– December 2012 Visitor as a professor associate at the Hannover Universitat, Germany, working with Prof. Bahnemann group.

Since June, 2012 Co-researcher with group of Prof Falah H. Hussien/ Almustaqbal College University/Iraq; and prof. Bahnemann group/ Hannover universitat-Germany.

Since May 2013 Department Head of the chemistry in the college of science for women in Babylon/Iraq

Since March 2018 Professor of surface chemistry and applications of nano-materials.

Since June, 2016 **Co-researcher with Prof. Dr. Emeline, Alexei V., Saint Petersburg State University, Russian Federation**



Special Area: Interesting in the field of application nanomaterials as a hydrogen production, water treatment, and application of anti-bacterial inhibition as a cellular study.

A current h-Index of 18.

Published Articles in refereed journals:

1. Alrobayi, E.M., Algubili, A.M., Aljeboree, A.M., [Alkaim, A.F.](#), Hussein, F.H. , Investigation of photocatalytic removal and photonic efficiency of maxilon blue dye GRL in the presence of TiO₂ nanoparticles, Particulate Science and Technology, [2017](#). [Impact factor 0.76](#).
2. A. M. Aljeboree, A. N. Alshirifi, and [Ayad F. Alkaim](#), Kinetics and equilibrium study for the adsorption of textile dyes onto coconut shell activated carbon, Arabian J. Chem., [\(2017\)](#). [Impact factor 3.74](#)
3. Jassm, A.M., F.H. Hussein, F.H. Abdulrazzak, [A.F. Alkaim](#), and B.A. Joda, Synthesis and characterization of carbon nanotubes by modified flame fragments deposition method. asian journal of chemistry, [2017](#). 29(12): p. 2804-2808. [Impact factor 0.34](#)
4. [Alkaim, A.F.](#) , Alrobayi, E.M., Algubili, A.M., Aljeboree, A.M. Synthesis, characterization, and photocatalytic activity of sonochemical/hydration–dehydration prepared ZnO rod-like architecture nano/microstructures assisted by a biotemplate, Environmental Technology (United Kingdom), [Article in press 2016](#), [Impact factor 1.7](#).
5. Abdulrazzak, F.H., Hussein, F.H., [Alkaim, A.F.](#), Ivanova, I., Emeline, A.V., Bahnemann, D.W. Sonochemical/hydration-dehydration synthesis of Pt-TiO₂ NPs/decorated carbon nanotubes with enhanced photocatalytic hydrogen production activity, Photochemical and Photobiological Sciences, Volume 15, Issue 11, [2016, Pages 1347-1357](#), [Impact factor 2.35](#)
6. [Alkaim, A.F.](#), Kandiel, T.A., Dillert, R., Bahnemann, D.W. Photocatalytic hydrogen production from biomass-derived compounds: a case study of citric acid, Environmental Technology, [2016](#). Article in press..... [Impact factor 1.71](#).
7. [A. F. Alkaim](#), Z. Sadik, D. K. Mahdi, S. M. Alshrefi, A. M. Al-Sammarraie, F. M. Alamgir, P. M. Singh, and A. M. Aljeboree, Preparation, structure and adsorption properties of synthesized multiwall carbon nanotubes for highly effective removal of maxilon blue dye. Korean J. Chem. Eng., [2015](#): p. DOI: 10.1007/s11814-015-0078-y..... [Impact factor 1.56](#)
8. [A. F. Alkaim](#), R. Dillert, D. W. Bahnemann, Effect of polar and movable (OH or NH₂ groups) on the photocatalytic H₂ production of alkyl-alkanolamine: a comparative study. Environmental Technology, [2015](#). 36(17): p. 2190–2197..... [Impact factor 1.71](#).

9. A. M. Aljeboree, [Ayad F. Alkaim](#), and A. H. Al-Dujaili, Adsorption isotherm, kinetic modeling and thermodynamics of crystal violet dye on coconut husk-based activated carbon, Desalin. Water Treat., [\(2015\)](#) ... [Impact factor 1.19](#).
10. [Ayad F. Alkaim](#), A. M. Aljeboree, N. A. Alrazaq, S. J. Baqir, F. H. Hussein, and A. J. Lilo, Effect of pH on adsorption and photocatalytic degradation efficiency of different catalysts: A comparative study, Asian J. Chem., [\(2014\)](#) [Impact factor 0.35](#)
11. A. M. Aljeboree, N. Radi, Z. Ahmed, and [A. F. Alkaim](#), THE USE OF SAWDUST AS BY PRODUCT ADSORBENT OF ORGANIC POLLUTANT FROM WASTEWATER: ADSORPTION OF MAXILON BLUE DYE. Int. J. Chem. Sci., [2014](#). 12(4): p. 1239-1252. [Scopus evaluated](#)
12. Z. A. Hadi, A. M. Aljeboree and [A. F. Alkaim](#), ADSORPTION OF A CATIONIC DYE FROM AQUEOUS SOLUTIONS BY USING WASTE GLASS MATERIALS: ISOTHERM AND THERMODYNAMIC STUDIES. Int. J. Chem. Sci., [2014](#). 12(4): p. 1273-1288.
13. T. A. Kandiel, L. Robben, [Ayad F. Alkaim](#), and D. Bahnemann, Brookite versus anatase TiO₂ photocatalysts: phase transformations and photocatalytic activities, Photochem. Photobiol. Sci., 12 [\(2013\)](#) 602-609... [Impact factor 2.99](#).
14. [Ayad F. Alkaim](#), Kandiel TA, Hussein FH, Dillert R, Bahnemann DW. , Solvent-free hydrothermal synthesis of anatase TiO₂ nanoparticles with enhanced photocatalytic hydrogen production activity, Appl. Catal., A, 466 [\(2013\)](#) 32-37. [Impact factor 4.73](#)
15. [Ayad F. Alkaim](#), T. A. Kandiel, F. H. Hussein, R. Dillert, and D. W. Bahnemann, Enhancing the photocatalytic activity of TiO₂ by pH control: a case study for the degradation of EDTA, Catalysis Science and Technology, 3 [\(2013\)](#) 3216–3222, [Impact factor 5.61](#)

16. [A. F. Alkaim](#), and M. B. Alqaragully, Adsorption of basic yellow dye from aqueous solutions by Activated carbon derived from waste apricot stones (ASAC): Equilibrium, and thermodynamic aspects. Int. J. Chem. Sc., [2013](#). 11(2): p. 797-814. [Scopus evaluated](#)
17. [A. F. Alkaim](#), and F. H. Hussein, Photocatalytic degradation of EDTA by using TiO₂ suspension. Int J Chem Sci, [2012](#). 10(1): p. 586-598. [Scopus evaluated](#)
18. M. S. Mashkour, [A. F. Alkaim](#), L. M. Ahmed, and F. H. Hussein, Zinc oxide assisted photocatalytic decolorization of reactive red 2 dye. Int. J. Chem. Sc., [2011](#). 9(3): p. 969-979. [Scopus evaluated](#)

List of Conferences:

1. [Ayad F. Alkaim](#): Global Ethics of research. 14 May-17-May [2017](#)/ Kenya Nairobi, Berlin/[Germany](#); 07/2014"Photocatalytic H₂ Production over Pt/TiO₂ Photocatalysts: from Citric Acid-Water, and Triethanolamine-Water Mixtures: a Comparative Study.
2. [Ayad F. Alkaim](#), T. A. Kandiel, R. Dillert, D. W. Bahnemann: 20th-International Conference on Photochemical Conversion and Storage of Solar Energy. 27 July-1-August [2014](#)/ Berlin-Germany, Berlin/[Germany](#); 07/2014"Photocatalytic H₂ Production over Pt/TiO₂ Photocatalysts: from Citric Acid-Water, and Triethanolamine-Water Mixtures: a Comparative Study.
3. [Ayad Alkaim](#), Ralf Dillert, Detlef Bahnemann: 245th National Meeting of the American-Chemical-Society (ACS), AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 [USA](#); 04/[2013](#) "Study of the influence of probe molecules on the rate of the photocatalytic h(2) production".
4. [Ayad F. Alkaim](#), Falah Hassan Hussein, Detlef Bahnemann, AOP6 -6thIWA-Conference on Oxidation Technologies for Water and Wastewater Treatment May 7th- 9th [2012](#) in Goslar, [Germany](#) "pH controlled photocatalytic oxidation of EDTA in aqueous titania suspensions".
5. [Ayad F. Alkaim](#), Falah H. Hussein, Tarek A. Kandiel, Lars Robben, Ralf Dillert, and Detlef W. Bahnemann 7th European Meeting on Solar

Chemistry and Photocatalysis: Environmental Applications - SPEA7 - that will be held in Oporto, Portugal, on June 17-20, 2012: Photocatalytic Hydrogen Production from Aqueous TiO₂ Suspensions Containing EDTA

6. Ayad F. Alkaim, Falah Hassan Hussein, Detlef Bahnemann, 2nd European symposium of photocatalysis JEP 2011 in France. “Photocatalytic Oxidation of EDTA in Aqueous Titanium Dioxide Suspensions”
7. Ayad F. Alkaim, Falah Hassan Hussein, Detlef Bahnemann , Nano day 2011 in Germany, international conference “Solvent-Free Hydrothermal Synthesis of Photocatalytically Highly Active Anatase TiO₂ Nanoparticles”
8. Ayad F. Alkaim, Falah Hassan Hussein, the Sixth Jordanian International Conference of Chemistry and the 10th Jordanian Chemical Conference- Jordan 2011, “Photocatalytic Oxidation of EDTA in Presence of Titanium Dioxide in Aqueous Suspension”.

Lists of workshops:

1.Iraq chemical safety and security workshop group: 13-17 September 2015, Istanbul, Turkey, sponsored by the united states department of state.

2.Iraq chemical safety and security center workshop: 9-11 November 2014, Kuala Lumpur, Malaysia, sponsored by the united states department of state.

3. Global Chemists Code of Ethics_Science & Technology Leadership Institutes Program: Nairobi, Kenya - 15-19 May, 2017





Acting as a reviewer till end of November 2017:

1. **RSC advances** (19 Articles). (IF 3.2)
2. **Physical Chemistry Chemical Physics** (1 article). (IF 4.6)
3. **Nanoscale** (1 article).
4. **Desalination and water treatment** (5 article). (IF 1.19)
5. **Journal of hazardous materials** (22 articles). (IF 4.56)
6. **Arabian journal of chemistry** (5 articles). (IF 3.7)
7. **Environmental processes** (1 article). (Springer)
8. **Polish Journal of Chemical Technology** (1 article). (0.563)
9. **Science of Advanced Materials** (1 article). (2.598)
10. **Environmental technology** (5article). (1.71)
11. **Particulate and science technology** (1 article). (0.70)
12. **Environmental Nanotechnology**, (1 article). (1.50)
13. **Chemical Engineering Communications**, (1 article). (1.43)

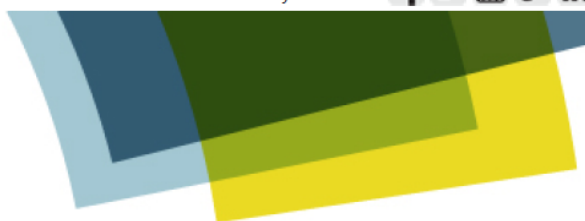
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We value your contribution to our journals

Dear Dr Alkaim

Thank you for acting as a reviewer for our journals in 2014.

Here are your personal reviewing figures:

<i>Nanoscale</i>	2
<i>Physical Chemistry Chemical Physics</i>	1
<i>RSC Advances</i>	7

Total number of reviews completed in 2014: **10**

We look forward to working with you in 2015 to help shape the future of the chemical sciences.

With kind regards

Stephen Hawthorne
Executive Director, Publishing
Royal Society of Chemistry

*) Examiner of Ph.D. student in Lille 1 universitate/ France in 2016/ January

