

Kingdom of Saudi Arabia

Education Ministry

Albaha University



CURRICULUM VITAE



NAME : HOSSEIN
SURNAME : BAYAHIA
CURRENT POSITION : Assistant Professor in Physical Chemistry
PERSONAL ADDRESS : Department of Chemistry
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WORKING LANGUAGES : ARABIC –ENGLISH

QUALIFICATIONS:

- Um Alqura University, Mecca, Saudi Arabia, Bachelor of Science degree in Chemistry, 1996-1999.
- King Saud University, Riyadh, Saudi Arabia, Master of Science degree-chemistry, Physical Chemistry, Catalysis, 2005-2007.
- The University of Liverpool, United Kingdom, PhD degree-chemistry, Physical Chemistry, Catalysis, 2011- 2014.

EMPLOYMENT HISTORY:

- Teacher of chemistry, Ministry of Education, Saudi Arabia, 1999-2008
- Lecturer in Albaha University, Chemistry Department, Saudi Arabia, 2008.
- PhD student at the University of Liverpool, 01 Oct. 2011 to 02 Feb. 2015.
- Assistant professor, Albaha University, 29 Sep. 2015 to present.
- The head of Chemistry Department from 03/07/1437 H to 09/02/1438 H.

SCIENTIFIC ACTIVITIES:

Publications

1. Ahmed Aouissi, Ahmed Al-Owais, **Hossein Bayahia**, Characterization of a series of iron based oxides used as catalysts in oxidative dehydrogenation of ethylbenzene, *Journal of Saudi Chemistry Society*, 2009, **13**, 127-134.
2. Ahmed Aouissi, Zeid Abdullah Al-Othman, **Hossein Bayahia**, Ethyl Benzene Dehydrogenation in the Presence of Carbon Dioxide Over $\text{Fe}_2\text{O}_3\text{-Cr}_2\text{O}_3$ Catalyst, *Asian Journal of Chemistry*, 2010, **22**, 4873-4879.
3. Aouissi, Ahmed, **Bayahia, Hossein**; AL-Othman, Zeid A., Al-Owais, Ahmed, Dehydrogenation of Ethylbenzene in the Presence of CO_2 Over Iron-Chrome Binary Oxide Catalytic System, *Asian Journal of Chemistry*, 2012, **24**, 3754- 3758.
4. **Hossein Bayahia**, Elena Kozhevnikova, Ivan Kozhevnikov, High catalytic activity of silicalite in gas-phase ketonisation of propionic acid, *Chemical Communication.*, 2013, **49**, 3842-3844.
5. Ahmed Aouissi, **Hossein Bayahia**, Zeid Al-Othman, M. Rafiq H. Siddiqi, Dehydrogenation of Ethylbenzene in Presence of carbon Dioxide Over Supported $\text{Fe}_2\text{O}_3\text{-Cr}_2\text{O}_3$ mixed oxides catalysts, *Asian Journal of Chemistry*, 2014, **26**, 504-508.
6. Vinicius Costa, **Hossein Bayahia**, Elena Kozhevnikova, Elena Gusevskaya, Ivan Kozhevnikov, High active and recyclable metal oxide catalyst for Prins condensation of bio-renewable feedstocks, *ChemCatChem.*, 2014, **6**, 2134-2139.
7. **Hossein Bayahia**, Elena Kozhevnikova, Ivan Kozhevnikov, Ketonisation of carboxylic acids over Zn-Cr oxide catalyst, *Applied Catalysis B: Environmental*, 2014, **165**, 253-259.
8. Abdullah Alotaibi, **Hossein Bayahia**, Elena kozhevnikova, Ivan kozhevnikov, Selective Alkylation of Benzene with Propane over Bifunctional Pt-Heteropoly Acid Catalyst, *ACS Catalysis*, 2015, **9**, 5512–5518.
9. Jocelyn North, Olivia Poole, Abdullah Alotaibi, **Hossein Bayahia**, Elena F. Kozhevnikova, Ali Alsalme, M. Rafiq H. Siddiqi, and Ivan V. Kozhevnikov, Efficient hydrodesulfurization catalysts based on Keggin polyoxometalates, *Applied Catalysis A: General*, 2015, **508**, 16-24.

10. N. V. Nikolenko, I. V. Kozhevnikov, A. O. Kostyniuk, **H. Bayahia**, Yu. V. Kalashnykov, Preparation of iron molybdate catalysts for methanol to formaldehyde oxidation based on ammonium molybdate(II) precursor, *Journal of Saudi Chemical Society*, **In press**, 2016.
11. N. V. Nikolenko, A. N. Kalashnykova, V. A. Solovov, A. O. Kostyniuk, **H. Bayahia**, F. Goutenoire, Peroxide-based route for the synthesis of zinc titanate powder, *Arabian Journal of Chemistry*, **In press**, 2016.
12. **Hossein Bayahia**, Deoxygenation of propionic acid over cobalt molybdenum catalyst, *Asian Journal of Chemistry*, 2016, **28**, 2745-2748.
13. Omer. Y. Alhussein, Elgorashi. A .M. Elgorashi, **Hossein Bayahia**, A novel Method for the Synthesis of Ethyl silicates and its applications, *Asian Journal of Chemistry*, 2016, **28**, 2741-2744.
14. N.V. Nikolenko, Yu.V. Kalashnykov, I.S. Samchileyev, A.O. Kostyniuk, H. Bayahia, I.V. Kozhevnikov, New insights into the preparation of iron molybdate catalysts for methanol oxidation, *XV- Ukrainean – Polish Conference*, September, 12-15, 2016, Lvivm Ukraine.
15. Mohammed Al-ghamdi, **Hossein Bayahia**, Zinc-Chromium oxide catalyst for gas-phase ketonisation of pentanoic acid, *Mediterranean Journal of Chemistry*, 2017, 6(1), 1-6
16. **Hossein Bayahia**, Mohammed Al-Ghamdi, Suzan Al-Ghamdi, Omer Y. Alhossein, Ketonisation of acetic acid over cobalt molybdenum catalyst in the vapour phase, *Taibah University Journal for Science*, **under revision**.
17. Hossein Bayahia, M. Shamshi Hassan, Touseef Aminam, Facile synthesis of ZnO-Cu₂O composite nanoparticles and effect of Cu₂O doping in ZnO on antimicrobial activity, 2016, **submitted**.

Conferences

1. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, 6th *Saudi Scientific International Conference (SSIC)*, University of Brunel, London, UK, 11-14th October, 2012. (**Poster**)
2. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *Catalytic Advances through Sustainable Technologies (CASTeach)*, Queens University, Belfast, UK, 8-11th April, 2012. (**Attendance**)

3. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *Postgraduate research, online poster day*, University of Liverpool, Liverpool, UK, 8-27th April, 2012. **(Poster)**
4. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *1st Liverpool Catalysis Symposium, Future Catalysis Challenges*, University of Liverpool, Liverpool, UK, 22nd January, 2013. **(Attendance)**
5. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *XIth European Congress on Catalysis (EuropaCat)*, Lyon, France, 1-6th September, 2013. **(Poster)**
6. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *Institution of Chemical Engineers (IChemE), Sustainable and Environmental Catalysis event*, Bath University, Bath, UK, 25-26th September, 2013. **(Poster)**
7. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, High catalytic activity of silicalite in gas-phase ketonisation of propionic acid, *7th Saudi Students Conference (SSC)*, Edinburgh University, Edinburgh, UK, 1-2nd February, 2014. **(Oral)**
8. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, Ketonisation of propionic acid in the gas phase over Zn-Cr oxide, *7th Saudi Students Conference (SSC)*, Edinburgh University, Edinburgh, UK, 1-2nd February, 2014. **(Oral)**
9. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *1st EFCATS-CNRS European Summer School on Catalyst Preparation: Fundamental Concepts and Industrial Requirements (CatPrep 2014)*, Vogüé, Ardèche, France, 18-22nd May, 2014. **(Poster)**
10. **Hossein Bayahia**, Vinicius Costa, Elena Kozhevnikova, Elena Gusevskaya and Ivan Kozhevnikov, High active and recyclable metal oxide catalyst for Prins condensation of bio-renewable feedstocks, *Progress & Challenges in Environmental Catalysis, IChemE event*, Johnson Matthey Technology Centre, Reading, UK, 23-24th June, 2014. **(Poster)**
11. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, High catalytic activity of silicalite in gas-phase ketonisation of propionic acid, *Progress & Challenges in Environmental Catalysis, IChemE event*, Johnson Matthey Technology Centre, Reading, UK, 23-24th June, 2014. **(Poster)**
12. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *15th International Conference on Theoretical Aspects of Catalysis (ICTAC15)*, University College London (UCL), London, 29th June – 4th July 2014. **(Poster)**

13. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, *Postgraduate research, the University of Liverpool*, Liverpool, UK, 9th July, 2014. **(Oral)**
14. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, 8th *International Conference on Environmental Catalysis (ICEC)*, Asheville, NC, USA, 24-27th August, 2014. **(Oral)**
15. **Hossein Bayahia**, Vinicius Costa, Elena Kozhevnikova, Elena Gusevskaya and Ivan Kozhevnikov, High active and recyclable metal oxide catalyst for Prins condensation of bio-renewable feedstocks, *Applied Catalysis and Reaction Engineering*, Cambridge University, Cambridge, 17-18th September, 2014. **(Oral)**
16. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, 4th *Northern Sustainable Chemistry (4th NORSC)*, Huddersfield University, Huddersfield, 23rd October, 2014. **(Oral)**
17. **Hossein Bayahia**, Elena Kozhevnikova and Ivan Kozhevnikov, 4th *RSC / SCI symposium on Challenges in Catalysis for Pharmaceuticals and Fine Chemicals*, Chemistry Centre, Royal Society of Chemistry (RSC), London, 5th November, 2014. **(Poster)**
18. **Hossein Bayahia**, Hassan shamsi, 1st International Conference on Applied Chemistry “ Chemistry for Sustainable World”, ICAC 2015, King Abdulaziz University, King Faisal Convention Center, Jeddah, 18-19 November, 2015. **(Poster)**
19. **Hossein Bayahia**, Efficient hydrodesulfurization catalyst based on Keggin polyoxometalates, *THE 6th KACST-OXFORD PETROCHEMICALS FORUM 2016, Towards Competitive and Innovative Petrochemicals Industry*, King Abdul-Aziz City for Science and Technology (KACST), Riyadh, 12- 13 April 2016. **(Oral)**

Workshops

1. Health and safety training, January, 2013, University of Liverpool.
2. Time management, October, 2013, University of Liverpool.
3. Keeping a research Journal, October, 2013, University of Liverpool.
4. Thesis Writing, October, 2013, University of Liverpool.
5. Your First Lectures, November, 2013, University of Liverpool.
6. Viva Survivor, January, 2014, University of Liverpool.
7. Writing Publication, January, 2014, University of Liverpool.

8. Critical thinking, May, 2014, University of Liverpool.
9. Starting Writing and Writing Block, May, 2014, University of Liverpool.
10. Structuring Argument, January, 2014, University of Liverpool.

COURESES TEACHING:

1. Physical Chemistry (I)
2. Physical Chemistry (II)
3. Physical Chemistry (III)
4. Kinetic Chemistry
5. Metal Extraction and Corrosion Chemistry
6. Radioactive and Nuclear Chemistry
7. Inorganic Descriptive Chemistry
8. Polymers Chemistry (I)
9. Environmental Pollution Chemistry
10. Environmental Chemistry
11. General Chemistry (I)
12. Organic Chemistry (Experimental)
13. Seminar in Chemistry
14. English for Science

REFERENCES:

- Professor Ahmed. M. Alouissi, Chemistry Department, King Saud University, SA, aouissed@yahoo.fr
- Professor Ivan Kozhevnikov, Chemistry Department, the University of Liverpool, UK, I.V.Kozhevnikov@liverpool.ac.uk