

Curriculum Vitae

Mohamed Habila (PhD)

<https://scholar.google.com/citations?hl=en&user=xXdhNTYAAAAJ>

Personal Data

Name	:	Mohamed Abdelaty Habila.
Nationality	:	Egyptian
Date of birth	:	28/3/1981
Marital Status	:	Married and has 2 child
Military Status	:	Completed
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Qualification

- **B.Sc. Special Chemistry**, (2002), Faculty of Science, Alexandria University, Egypt.
- **Diploma in Environmental Studies**, (2005), Institute of Graduate Studies & Research (IGSR), Alexandria University, Egypt
- **M.Sc. Degree in Environmental Studies (2008)**, IGSR, Alexandria University, Egypt. (The M.Sc. thesis was supported by a Scholarship of Elite Students from Academy of Scientific Research and Technology for Studying the *Conversion of some wastes to activated charcoal for industrial applications*).
- **PhD. Degree in Chemistry (2015)**, College of Science, King Saud University. **Thesis title** “*Fabrication and Characterization of the Core-Shell Multi-Functional Nano-Materials for Analytical and Environmental Applications*”.

Rewards

- Getting the third position of the [King Saud University Scientific Excellence Prize 2013](#), for seventh branch in science and engineering “Student Research Excellence Prize”
- Getting the prize of [the best oral presentation](#) in the first scientific student meeting of Saudi Chemical Society 2013.
- Getting the [Elmarai Prize 2014 for the best creative research work](#) (Co researcher).
- [Academics World Excellent Paper Award for the category best presentation/best content](#) at the Academics World International Conference held in Athens, Greece on 7th October 2015.

Experience

❖ Academic Positions

- From July, 2015 – present, work as assistant Professor in Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.
- From May, 2016 – present, member of the board of directors of Saudi Chemical Society, responsible for training and events.
- From December 2016 – present, newly received fund from King Saud University to support my research in the field of smart metal organic framework (SMOFs-RG). This approved to receive fund from King Saud University, 40000 USD annually.
- From 2009-2015, work as a Researcher and Graduate PhD. Student in Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.
- From 2004-2008, work as a Researcher and Graduate MSc. Student in Department Environmental Science, Institute of Graduate Studies & researches, Alexandria University, Egypt.

❖ Funded Research Projects

Project Title	Period	Rule in the Project	Funding Agency
1.Fabrication of magnetic core-mesoporous shell system multi-functions nanoparticles for industrial wastewater treatments	2016-2017	Working as Co-investigator. Share in the preparation of project proposal. Share in project operations and reporting.	The National Science, Technology and Innovation Plan, KINGDOM OF SAUDI ARABIA
2.Novel Functionalized Nanoporous Carbon for Supercapacitors	2016-2017	Working as Co-investigator. Share in the preparation of project proposal. Share in project operations and reporting.	The King Abdul-Aziz city for Science, Technology and Innovation, KINGDOM OF SAUDI ARABIA
3.Fabrication of Schiff's base functionalized carbon porous materials for effective removal of divalent and trivalent toxic metals from wastewater	2016	Working as Co-investigator. Share in the preparation of project proposal. Share in project operations and reporting.	The King Abdul-Aziz city for Science, Technology and Innovation, KINGDOM OF SAUDI ARABIA
4.Development of Adsorptive-Biodesulfurization Combined System for Desulfurization of Crude Petroleum Oil and Fuels	2015-2016	Working as Co-investigator. Share in the preparation of project proposal. Share in project operations and reporting.	The National Science, Technology and Innovation Plan, KINGDOM OF SAUDI ARABIA

5. Fabrication of magnetic activated carbon composites from solid waste and their environmental applications	2013-2014	Working as PhD. Student. Share in the preparation of project proposal. Share in project operations and reporting.	The National Science, Technology and Innovation Plan, KINGDOM OF SAUDI ARABIA
6. Conversion of some wastes into charcoal and determination of its efficiency in environmental applications	2010-2013	Working as Co-investigator. Share in the preparation of project proposal. Share in project operations and reporting.	The National Science, Technology and Innovation Plan, KINGDOM OF SAUDI ARABIA

❖ **Scientific Activities**

- 1- Teaching general chemistry (chem 101), physical chemistry (chem 230) and environmental analysis (chem 453). Supervise a MSc. Student and PhD. students.
- 2- Applying researches for preparation and modification of core shell based magnetic nanomaterials including; Fe_3O_4 nanoparticles, $\text{Fe}_3\text{O}_4@\text{SiO}_2@\text{Carbon}$, $\text{Fe}_3\text{O}_4@\text{SiO}_2@\text{TiO}_2$. In addition the core shell of $\text{Ag}@\text{SiO}_2@m\text{SiO}_2$ and hollow silica spheres for separation, analytical and drug delivery purposes.
- 3- Controlling the morphology and size of core shell based metal oxide nanomaterials to orient them for various applications.
- 4- Preparing and applying the low cost adsorbent from solid waste and agriculture byproducts for wastewater treatments and recovery purposes.
- 5- Developing micro-extraction procedures based on dispersion of various liquids for separation and enrichment purposes.
- 6- Sharing in preparation of valued research proposals for the national strategic plan of the Kingdom of Saudi Arabia.
- 7- Sharing in the arrangement for workshops and training programs in the Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.

❖ **International collaboration**

Fudan University, China

I have done experiments and received training on the preparation of the core shell based nanoparticles by solvo-thermal processes and gain skills for controlling the morphology and size of core shell based nanomaterials with supervision of Prof. Dongyuan Zhao. During scientific visit from 6-3-2014 to 3-4-2014 and from 3/4/2015 to 2/5/2015 to the Department of Chemistry, Shanghai Key Laboratory of Molecular Catalysis and Laboratory of Advanced Materials, Fudan University, Shanghai 200433, People's Republic of China.

Erciyes University, Turkey

I have done experiments and received training on development of solid phase extraction methods, ionic liquid micro-extraction, dispersive liquid-liquid micro-extraction, and supramolecular micro-extraction procedures of trace heavy metals and organic pollutants, during the summer visits in the years of 2011, 2012, 2013, 2014 to Chemistry Department,

Erciyes University, Turkey. Also, I have collaborated with Prof. Mustafa Soylak in a project entitled “Fabrication of magnetic activated carbon composites from solid waste and their environmental applications”.

Alexandria University, Egypt

I have spent 4 years as a Researcher and Graduate MSc. Student in Department Environmental Science, Institute of Graduate Studies & researches, Alexandria University, Egypt. This period (2004-2008) was under supervision of prof. Mohamed Salah El-Din Hassouna, Professor of Environmental Microbiology. Furthermore, the research collaboration was extended during my staying period at King Saud University (2009-2017). This collaboration includes the following projects:

1. Development of Adsorptive-Biodesulfurization Combined System for Desulfurization of Crude Petroleum Oil and Fuels.
2. Conversion of some wastes into charcoal and determination of its efficiency in environmental applications.

❖ Teaching Experience

1) **General Chemistry, Chem. 101**

- i. Units of Measurements and Stoichiometry (mole relations, chemical formula, limiting reactant, yield %, dilution of solutions, and solution stoichiometry)
- ii. Properties of gases (gas laws, ideal gas, molecular kinetic theory, gaseous diffusion and effusion, real gases)
- iii. Thermochemistry and first law of thermodynamics (Enthalpy of reactions, enthalpy of combustion, enthalpy of formation, internal energy)
- iv. Properties of solutions (types of solutions, Rault's law, colligative properties)
- v. Chemical kinetics (reaction rate, factors influencing rate, reaction order, half life time)
- vi. Chemical Equilibrium (equilibrium constants, factors affecting equilibrium, Le Chatelier's principle)
- vii. Acids and Bases, Ionic equilibria, and buffer solutions (pH, strong - weak acids and bases)

2) **Physical Chemistry, Chem. 230**

- i. Reviewing properties of gases and starting with physical chemistry.
- ii. The kinetic-molecular gas *model*, the pressure of a gas, kinetic energies and temperature, numerical values of molecular energies and molecular speeds, distribution of molecular velocities.
- iii. The main free path, collision diameter, and collision number, numerical values of collision properties, van der Waals' equation.
- iv. Measurement and relation of thermal and mechanical energy, the first law of thermodynamics, determination of ΔE : reversible and irreversible processes, Work for

expansions and contractions of the system, the enthalpy function, some properties of state functions.

- v. Dependence of E and H of an ideal gas on P and T, Adiabatic expansions of ideal gas, measurement of heats of reaction.
- vi. Internal-energy and enthalpy changes in chemical reaction.
- vii. Relation between ΔE and ΔH , Indirect determination of heats of reaction, Standard heats of Formation, Temperature dependence of heats of reaction, Bond enthalpies and Bond Energies.
- viii. General Statements of 2nd Law of thermodynamics
- ix. Entropy and another Statement of 2nd Law of thermodynamics
- x. The Carnot Cycle, the efficiency of the transformation of heat into work.
- xi. The 3rd law of thermodynamics.
- xii. A convenient measure of the driving force of a reaction: the Free Energy, Standard Free Energies, Dependence of Free Energy on P and T.
- xiii. Quantitative relation of ΔG and the equilibrium constant.
- xiv. Dependence of equilibrium constant on T.
- xv. Chemical equilibrium.

3) Environmental Analysis, Chem. 453

- i. Atmosphere, Sources of air pollution and their controls, Measurements of air pollution, measurements of air pollution.
- ii. Hydrosphere, Water Cycle, sources of water pollution, water treatment.
- iii. Geosphere, soil pollutants, Desertification, methods of natural pollution protection.
- iv. Medical Pollutants, medical waste treatment and recycling.
- v. Noise Pollution, Protection and control.
- vi. Pesticides Pollution and their effect in environment, protection from chemical pesticides.
- vii. Solid and Liquid Wastes. Waste Treatment and Recycling.
- viii. Radioactive Pollution, Management and control.

Training Certificates

For Education and Teaching

- 1) [Using Social media Technologies in Classroom](#) (Deanship of Skills development – King Saud University).
- 2) [Deep Learning through HHH \(Heart, head, and Hand\) Model](#) (Deanship of Skills development – King Saud University).
- 3) [Black board](#) (Deanship of Skills development – King Saud University).
- 4) [Application of clickers in Classroom](#) (Center for Excellence In Learning and Teaching - King Saud University)
- 5) [Course design and construction](#), 10-11/4/2016 (Deanship of Skills development – King Saud University).
- 6) [Effective teaching and active learning](#), 26-28/4/2016 (Deanship of Skills development – King Saud University).
- 7) [Learning outcomes assessment](#), 1-2/5/2016 (Deanship of Skills development – King Saud University).
- 8) [Micro teaching](#), 3/5/2016 (Deanship of Skills development – King Saud University).

- 9) [Motivating and engaging Student](#), 27/9/2016 (Deanship of Skills development – King Saud University).
- 10) [Improving student learning](#) 28/9/2016 (Deanship of Skills development – King Saud University).
- 11) [Utilizing problem solving approach in teaching](#), 29/9/2016 (Deanship of Skills development – King Saud University).
- 12) [Mentoring Faculty](#), 30/9/2016 (Deanship of Skills development – King Saud University).
- 13) [Book writing and publishing](#), 4-5/12/2016 (Deanship of Skills development – King Saud University).
- 14) [Safe and comfort learning environment](#), 12/12/2016 (Deanship of Skills development – King Saud University).
- 15) [Application of mobile learning](#), 20-21/12/2016 (Deanship of Skills development – King Saud University).
- 16) [Program Self Study](#), 25-26/12/2016 (Deanship of Skills development – King Saud University).
- 17) [Course Specification and Report](#), 15-16/1/2017 (Deanship of Skills development – King Saud University).
- 18) [Emotional Intelligence in Higher Education teaching](#), 3/1/2017 (Deanship of Skills development – King Saud University).
- 19) [Statistical Test using SPSS](#), 17-18/1/2017 (Deanship of Skills development – King Saud University).
- 20) [Student Learning Support](#), 24/1/2017 (Deanship of Skills development – King Saud University).
- 21) [Programs for writing and compiling scientific references](#), 25/1/2017 (Deanship of Skills development – King Saud University).

For Safety and Instrumental

- 22) [High performance liquid chromatography \(HPLC\)](#) (Saudi chemical Society)
- 23) [NASP professional courses for health and Safety in the work environment](#) (Chemical Pollution Protection Committee).
- 24) [Symposium of Material and Energy for New Energies Technologies](#) (Royal Society of Chemistry and Saudi chemical Society)

Community Services

✓ Share in bear reviewing of International journals:

- 1) Environmental Science and Pollution Research
- 2) Turkish journal of chemistry
- 3) Particulate Science and Technology
- 4) Desalination and water treatments
- 5) Journal of Hazardous Materials
- 6) Talanta
- 7) Journal of CO₂ Utilization
- 8) CLEAN - Soil, Air, Water
- 9) International Journal of Environmental Analytical Chemistry
- 10) Environmental Progress & Sustainable Energy.

- ✓ **Share in organizing the following events in chemistry department, college of science, in collaboration with the Saudi Chemical Society**

	Title of Event	Date
29	The Rule of Chemistry Science in Cancer Diagnoses and Treatment	6/2/2017
28	The 6 th international chemistry conference	6-8/11/2016
27	Chemistry and Future challenges	25/10/2016
26	Chemistry and nutrition science	16/10/2016
25	Preventive actions for reduction of disasters	13/10/2016
24	Effective teaching and learning process development	5/10/2016
23	Safety procedure in chemical labs.	3/10/2016
22	Symposium on Nuclear Chemistry: Dangerous & Benefits	29/8/2016
21	Training course in Gas Chromatography-Mass Spectrometry (GC-MS)	10-14/5/2016
20	Training course in Ultra-performance Liquid Chromatography-Mass Spectrometry (UPLC-MS)	26-30/4/2016
19	Training course in Atomic Absorption Spectrometry (AAS) Basic & Application	3-7/5/2016
18	Training course in Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	17-21/4/2016
17	Workshop entitled An overview on Nanomaterials	24/8/2015
16	Workshop entitled Nanotechnology for Clean Energy	25/8/2015
15	Workshop entitled Nanotechnology for Medical Applications	26/8/2015
14	Magnetic solid phase extraction of metal ions Professor Mustafa Soylak, Department of chemistry, College of Science, Erciyes University, Turkey	24/2/2015
13	Applications of Supramolecular Solvents for Microextraction Methods Professor Mustafa Soylak, Department of chemistry, College of Science, Erciyes University, Turkey	25/2/2015
12	Lecture entitled Hybrid self-assembled colloids for highly sensitive SERS detection Professor Luis M. Liz-Marzán, San Sebastian, Spain	1/3/2015
11	Workshop entitled colloidal chemistry Professor Luis M. Liz-Marzán, San Sebastian, Spain	2/3/2015
10	A workshop entitled Environmental application of nanotechnology	29/3/2015
9	A workshop entitled Applications of nanotechnology for semi-conductor and radiation	30-31/3/2015
8	A workshop entitled Separation Techniques	1/4/2015
7	Lecture entitled Strategies of Publications in High Impact Factor Journals Prof. Imran Ali, Department of Chemistry, Jamia Millia Islamia (Central University) New Delhi – 25, India	1/5/2015
6	Lecture entitled Development of New Ion Source For Mass Spectrometry Professor Dr. Mohamed. Ahsan Habib, Department of Chemistry, University of Dhaka, Bangladesh	23/12/2015
5	Dispersive Liquid liquid Microextraction as fast preconcentration method for separation of heavy metals Professor Mustafa Soylak, Erciyes University, Turkey	24/2/2014
4	Monitoring of heavy metals in environmental samples by solid phase extraction Professor Mustafa Soylak, Erciyes University, Turkey	26/2/2014
3	The Impact of Chirality on Our Society	26/5/2014

	Prof. Imran Ali, Jamia Millia Islamia (Central University), New Delhi – 25, India	
2	Preparation of Chiral Drugs by HPLC Prof. Imran Ali, Jamia Millia Islamia (Central University), New Delhi – 25, India	27/5/2014
1	Core Shell Technology for Future Ultra Fast Separation Prof. Imran Ali, Jamia Millia Islamia (Central University), New Delhi – 25, India.	28/5/2014

Publications (ISI)

2011

1. AlOthman, Z.A.; Ahmed, Y. B. H.; Habila, M. A.; Ghafar, A. A., Determination of Capsaicin and Dihydrocapsaicin in Capsicum Fruit Samples using High Performance Liquid Chromatography. *Molecules* 2011, 16 (10), 8919-8929 (ISI journal, IF 2.386)
2. Al Othman, Z. A.; Hashem, A.; Habila, M. A., Kinetic, Equilibrium and Thermodynamic Studies of Cadmium (II) Adsorption by Modified Agricultural Wastes. *Molecules* 2011, 16 (12), 10443-10456 (ISI journal, IF 2.386)

2012

3. AlOthman, Zeid A.; Unsal, Y. E.; Habila, M.; Shabaka, A.; Tuzen, M.; Soylak, M., Membrane filtration of Sudan orange G on a cellulose acetate membrane filter for separation-preconcentration and spectrophotometric determination in water, chili powder, chili sauce and tomato sauce samples. *Food and Chemical Toxicology* 2012, 50 (8), 2709-2713 (ISI journal, IF 2.999)
4. AlOthman, Zeid A.; Habila, M.; Yilmaz, E.; Soylak, M., Solid phase extraction of Cd(II), Pb(II), Zn(II) and Ni(II) from food samples using multiwalled carbon nanotubes impregnated with 4-(2-thiazolylazo)resorcinol. *Microchim Acta* 2012, 177 (3-4), 397-403 (ISI journal, IF 3.43).
5. Al-Othman, A. M.; Al-Othman, Zeid A.; El-Desoky, G. E.; Aboul-Soud, M. A. M.; Habila, M. A.; Giesy, J. P., Daily intake of selenium and concentrations in blood of residents of Riyadh City, Saudi Arabia. *Environmental Geochemistry and Health* 2012, 34 (4), 417-431 (ISI journal, IF 2.08)
6. Zeid A. Al-Othman, R. A., Abdulaziz M. Al-Othman, Jawad Ali, Mohamed A. Habila, Assessment of toxic metals in wheat crops grown on selected soils of Khyber Pukhtoon Khaw, Pakistan, irrigated by different water sources. *Arabian Journal of Chemistry* 2012 (ISI journal, IF 2. 6)
7. Zeid. A. Al Othman, Mohamed A. Habila, Ali Hashem, Removal of zinc(II) from aqueous solutions using modified agricultural wastes: kinetics and equilibrium studies. *Arabian Journal of Geosciences* 2012 November 2013, Volume 6, Issue 11, pp 4245-4255 (ISI journal, IF 1.141)
8. AlOthman, Zeid A.; Wabaidur, S. M.; Khan, M. R.; Ghafar, A. A.; Habila, M. A.; Ahmed, Y. B. H., Determination of capsaicinoids in Capsicum species using ultra performance liquid chromatography-mass spectrometry. *Journal of Separation Science* 2012, 35 (21), 2892-2896 (ISI journal, IF 2.733)

2013

9. Abdulaziz M. Al-Othman, Zeid A. AL-Othman, Gaber E. El-Desoky, Mourad A. M. Aboul-Soud, Mohamed A. Habila, John P. Giesy, Lead in drinking water and human blood in Riyadh City, Saudi Arabia. *Arabian Journal of Geosciences* 2013, 6, Issue 8, pp 3103-3109. (ISI journal, IF 1.141)
10. Zeid A. ALOthman, Erkan Yilmaz, Mohamed Habila, Mustafa Soylak, Development of a dispersive liquid-liquid microextraction combined with flame atomic absorption spectrometry using a microinjection system for the enrichment, separation and determination of nickel in water samples, *Desalination and Water Treatment* 51 (2013) 6770–6776. (ISI journal, IF 0.99).
11. Zeid A. ALOthman, Mohamed Habila, Erkan Yilmaz, Mustafa Soylak, A Dispersive liquid-liquid microextraction methodology for copper(II) in environmental samples prior to determination using micro-sample injection flame atomic absorption spectrometry. *The Journal of AOAC International* 2013, 96 (6) 1425-1429 (ISI journal, IF 1.39).
12. Zeid A. ALOthman, Erkan Yilmaz, Mohamed Habila, Azza Shabaka, Mustafa Soylak, Ligandless temperature-controlled ionic liquid-phase microextraction of lead(II) ion prior to its determination by FAAS. *Microchimica Acta* 180 (7-8), (2013), 669-674. (ISI journal, IF 3.43).
13. Zeid Abdullah ALOthman, Mohamed Abdelaty Habila, Rahmat Ali, Mohamed Salah El-din Hassouna Kinetic and Thermodynamic Studies for Methylene Blue Adsorption using Activated Carbon Prepared from Agricultural and Municipal Solid Wastes. *Asian Journal of Chemistry* 25(15), (2013), 8301-8306. (ISI journal, IF 0.3).
14. Zeid A. ALOthman, Mohamed Habila, Erkan Yilmaz, and Mustafa Soylak, Dispersive Liquid-Liquid Microextraction and Microsample Injection Flame Atomic Absorption Spectrometry Combination for Copper(II)- 3-hydroxy-4-methyl-2(3H)-thiazolethione Chelates. *Atomic Spectroscopy*. Vol. 34(5), Sept./Oct. 2013. "InPress". (ISI journal, IF 1.6).

2014

15. Mohamed Abdelaty Habila, Zeid Abdullah ALOthman, Rahmat Ali, Ayman Abdel Ghafar, Salah Hassouna. Removal of tartrazine dye onto mixed-waste activated carbon: Kinetic and thermodynamic studies. *CLEAN – Soil, Air, Water* 2014, 42 (9999), 1–8. (ISI journal, IF 1.8)
16. Gaber E. El-Desoky, Mourad A. M. Aboul-Soud, Zeid A. Al-Othman, Mohamed Habila, John P. Giesy. 2013. Seasonal concentrations of lead in outdoor and indoor dust and blood of children in Riyadh, Saudi Arabia. *Environ Geochem Health* 36 (3), 2014, 583-593. (ISI journal, IF 2. 08)
17. Mohamed Habila, Erkan Yilmaz, Zeid A. ALOthman, Mustafa Soylak. Flame atomic absorption spectrometric determination of Cd, Pb, and Cu in food samples after pre-concentration using 4-(2-thiazolylazo) resorcinol-modified activated carbon. *Journal of Industrial and Engineering Chemistry* 20 (2014) 3989–3993. (ISI journal, IF 2. 00).
18. Zeid Abdullah ALOthman, Mohamed Abdelaty Habila, Rahmat Ali, Ayman Abdel Ghafar, Mohamed Salah El-din Hassouna. Valorization of two waste streams into activated carbon and studying its adsorption kinetics, equilibrium isotherms and thermodynamics for methylene blue removal. *Arabian Journal of Chemistry* (2014) 7(6), 1148–1158. (ISI journal, IF 2. 68).
19. Ahmed Mohamed El-Toni, Mohamed A. Habila, Mohamed Abbas Ibrahim, Joselito Puzon Labis, Zeid A. Al Othman, Simple and facile synthesis of amino functionalized hollow core-mesoporous shell silica spheres using anionic surfactant for Pb(II), Cd(II), and Zn(II) adsorption and recovery. *Chemical Eng. Journal*. (2014)251, p441-451. (ISI journal, IF 4.0).
20. Mohamed Habila, Zeid Abdullah ALOthman and M. Soylak, Fe₃O₄ nanoparticles and ultrasound assisted dispersive liquid-liquid microextraction of lead (II) for its microsampling flame atomic absorption spectrometric determination in food and environmental samples. *RSC Adv.*, 2014, 4, 55610-55614. (ISI journal, IF 3.7)

21. Zeid A. Alothman, Erkan Yilmaz, Mohamed Habila, Mustafa Soylak, Solid phase extraction of metal ions in environmental samples on 1-(2-pyridylazo)-2-naphthol impregnated activated carbon cloth. *Ecotoxicology and Environmental Safety* 112(2015)74–79. (ISI journal, IF 2.2).
22. Z.A. Alothman, Y.E. Unsal, M. Habila, M. Tuzen, M. Soylak “A membrane filtration procedure for the enrichment, separation, and flame atomic absorption spectrometric determinations of some metals in water, hair, urine, and fish samples” *Desalination and Water Treatment* 53 (2015) 3457–3465 (ISI journal, IF 0.852).
23. Zeid A. Alothman & Nora H. Al-Shaalan & Mohamed A. Habila & Yunus E. Unsal Mustafa Tuzen & Mustafa Soylak. Dispersive liquid–liquid microextraction of lead(II) as 5-(4-dimethylaminobenzylidene) rhodanine chelates from food and water samples. *Environmental Monitoring and Assessment* 02/2015; 187(2):4160. (ISI journal, IF 1.68)
24. Z. A. Alothman, M. A. Habila, E. Yilmaz, I. Warad, M. Soylak. Lead Pre-Concentration As Rac-(E,E)-N,N'-Bis(2-Chlorobenzylidene) Cyclohexane-1,2-Diamine Complexes From Water And Tobacco Samples By Dispersive Liquid–Liquid Microextraction . *Journal of Analytical Chemistry* 2015, 70(6), 1–5 (ISI journal, IF 0.8)
25. Zeid Al Othman, Yunus Emre Unsal, Mohamed Habila, Aza Shabaka, Mustafa Tuzen, And Mustafa Soylak. Determination of Copper In Food And Water By Dispersive Liquid-Liquid Microextraction And Flame Atomic Absorption Spectrometry. *Analytical Letters* 2015, 48: 1738–1750. (ISI journal, IF 0.98).
26. Mohamed A. Habila, Zeid A. ALOthman, Ahmed Mohamed El-Ton, Mustafa Soylak. Combination of Syringe-Solid Phase Extraction with Inductively Coupled Plasma Mass Spectrometry for Efficient Heavy Metals Detection. . *CLEAN - Soil, Air, Water*. 11/2015; DOI:10.1002/clen.201400680 (ISI journal, IF 1.95). Volume 44, Issue 6, pages 720–727, June 2016.
27. Mohamed Habila, Zeid Abdullah ALOthman and M. Soylak, Use of Fe₃O₄ Nanoparticles and Ultrasound-assisted Dispersive Liquid-liquid Microextraction of Lead in Water, Tobacco, and Fertilizer Samples for FAAS Determination Atomic Spectroscopy 2015, 36(3), 146-151. (ISI journal, IF 1.6).
28. Mohamed Habila, Yunus E. Unsal, Zeid A. ALOthman, Azza Shabaka, Mustafa Tuzen, Mustafa Soylak. Speciation of Chromium in Natural Waters, Tea, and Soil with Membrane Filtration Flame Atomic Absorption Spectrometry. *Analytical Letters*. (ISI journal, IF 0.98).
29. Mohamed F. Aly Aboud, Zeid A. ALOthman, Mohamed A. Habila, Claudia Zlotea, Michel Latroche, Fermin Cuevas. Hydrogen storage in pristine and d10-block metal-anchored activated carbon made from local wastes. *Energies* 2015, 8, 3578-3590.
30. Zeid A. Alothman · Mohamed A. Habila · Erkan Yilmaz · Nasser M. Al-Harbi · Mustafa Soylak · Supramolecular microextraction of cobalt from water samples before its microsampling flame atomic absorption spectrometric detection. *International Journal of Environmental Analytical Chemistry* 09/2015; 95(14):1-10. DOI:10.1080/03067319.2015.1090568 · (ISI journal, IF 1.3).
31. Mohamed Abdelaty Habila, Zeid Abdullah ALOthman · Saad A. Al-Tamrah · Ayman Abdel Ghafar · Mustafa Soylak. Activated carbon From Waste as an Efficient Adsorbent for Malathion for Detection and Removal Purposes. *Journal of Industrial and Engineering Chemistry* 32 (2015) 336–344. (ISI journal, IF 3.5)
32. M. Soylak · Zeid Abdullah ALOthman · Erkan Yilmaz · Mohamed Habila · Ibrahim Hotan Alsohaimi · Abdullah Aldawsari · nasser AL-Harbi · Mustafa Soylak. Triethylenetetramine

modified multiwalled carbon nanotube for efficient enrichment of Pb(II), Cu(II), Ni(II) and Cd(II) before FAAS detection. RSC Advances 2015, 5, 106905–106911 (ISI journal, IF 3.82).

33. Zeid Abdullah ALOTHMAN, Erkan YILMAZ, Mohamed HABILA, Mustafa SOYLAK. Separation and preconcentration of lead(II), cobalt(II), and nickel(II) on EDTA immobilized activated carbon cloth prior to atomic absorption spectrometric determination in environmental samples. Turkish Journal of Chemistry 2015, 39, 1038-1049.

2016

34. Ahmed Mohamed El-Toni, Mohamed A Habila, Joselito Puzon Labis, Zeid A ALOthman, Mansour Alhoshan, Ahmed A Elzatahry, Fan Zhang. Design, synthesis and applications of core-shell, hollow core, and nanorattle multifunctional nanostructures. Nanoscale, 2016, 8, 2510-2531 (Impact Factor: 7.39)
35. ZA ALOthman, MA Habila, SM Alfadul, E Yilmaz, M Soylak, A green, novel and simple microprecipitation technique for separation and preconcentration of cadmium with 1-(2-thiazolylazo)-2-naphthol in food samples and determination by microsampling flame atomic absorption spectrometry. Analytical Methods 8 (17), 3545-3549
36. ZA ALOthman, MA Habila, NH Al-Shalan, SM Alfadul, R Ali, IGA Rashed, Adsorptive removal of Cu (II) and Pb (II) onto mixed-waste activated carbon: kinetic, thermodynamic, and competitive studies and application to real wastewater samples. Arabian Journal of Geosciences 9 (4), 1-9
37. MA Habila, E Yilmaz, ZA ALOthman, M Soylak. Combination of dispersive liquid–liquid microextraction and multivariate optimization for separation-enrichment of traces lead by flame atomic absorption spectrometry. Journal of Industrial and Engineering Chemistry 37, 306-311
38. ZA Alothman, MA Habila, E Yilmaz, M Soylak, SM Alfadul. Supramolecular Solvent-based Microextraction of Copper at Trace Levels Before Determination by Microsampling Flame Atomic Absorption Spectrometry. ATOMIC SPECTROSCOPY 37 (4), 158-163
39. ZA ALOthman, MA Habila, E Yilmaz, M Soylak, SM Alfadul. Ultrasonic supramolecular microextraction of nickel (II) as N, N'-Dihydroxy-1, 2-cyclohexanediimine chelates from water, tobacco and fertilizer samples before FAAS determination. Journal of Molecular Liquids 221, 773-777
40. MA Habila, ZA ALOthman, AM El-Toni, M Soylak. Combination of Syringe–Solid Phase Extraction with Inductively Coupled Plasma Mass Spectrometry for Efficient Heavy Metals Detection. CLEAN–Soil, Air, Water 44 (6), 720-727
41. MA Habila, ZA ALOthman, AM El-Toni, JP Labis, X Li, F Zhang, M Soylak, Mercaptobenzothiazole-functionalized magnetic carbon nanospheres of type $\text{Fe}_3\text{O}_4@\text{SiO}_2@\text{C}$ for the preconcentration of nickel, copper and lead prior to their determination by ICP-MS. Microchimica Acta 183 (8), 2377-2384
42. MA Habila, ZA ALOthman, AM El-Toni, JP Labis, M Soylak. Synthesis and application of $\text{Fe}_3\text{O}_4@\text{SiO}_2@\text{TiO}_2$ for photocatalytic decomposition of organic matrix simultaneously with magnetic solid phase extraction of heavy metals prior to ICP-MS analysis. Talanta 154, 539-547

International and local Conferences Publication

1. Z. A. ALOthman, M. A. Habila, and R. Ali, “Preparation of Activated Carbon Using the Copyrolysis of Agricultural and Municipal Solid Wastes at a Low Carbonization Temperature,” 2011 International Conference on Biology, Environment and Chemistry (ICBEC), Dubai, UAE. December 28-30, 2011.

2. Z. A. AlOthman, M. A. Habila, and R. Ali, "Effect of Chemical Activation on the Properties of Activated Carbon Prepared From Agricultural Wastes," [The Fourth International Chemistry Conference. Chemistry and its Role and Application in Development, Riyadh, King Saud University, 19-21, November 2011 -23-25, The Elhejah 1432 H.](#)
3. Zeid Abdullah ALOthman, Mohamed Abdelaty Habila, Rahmat Ali, Mohamed Salah El-Din Hassouna. Conversion of some solid wastes into activated carbon for water and wastewater treatments. [TWAS-ARO 8th Annual Meeting "The Role of Science, Engineering and Technology in Achieving Sustainable Human Development in the Arab Region", 30-31 December 2012, at the Bibliotheca Alexandrina, Egypt.](#)
4. Zeid Abdullah ALOthman, Mohamed Abdelaty Habila, application of iron oxide magnetic nanoparticles and ultra-sonic waves for development of new dispersive liquid liquid microextraction technique for separation and determination of pb in water and food samples. [The fifth conference of students in the Kingdom of Saudi Arabia, 28/4/2014 – 2/5/2014.](#)
5. Mohamed Habila, Zeid Abdullah ALOthman, Ahmed Mohamed El-Toni, M. Soylak. Magnetic adsorbent for separation of some heavy metals. [The Academics World International Conference held in Athens, Greece on 7th October 2015.](#)
6. Mohamed Habila, oral presentation, Fe₃O₄ Based Magnetic Core-Shell Nanoparticles: Design, Synthesis and Applications for Water Treatments and Separation Techniques. [6th international chemistry conference, King Saud University, Riyadh, Saudi Arabia, 6-8 November 2016.](#)
7. Mohamed Habila, one day workshop entitled "Advanced Extraction and Pre-concentration Techniques for Sensitive Analytical Methods" [6th international chemistry conference, King Saud University, Riyadh, Saudi Arabia, 6-8 November 2016.](#)
8. Mohamed Habila, oral presentation entitled "Core-Shell Based Nanoparticles for Water Treatments and Separation Purposes, [The 18th International Chemistry Conference of Union of Arab Chemists and Saudi Chemical Society, 26-28 March 2017, united Arab Emirate. \(planned\)](#)