

SHORT INFORMATION

Prof. Gadirova Elmina

Musrat

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Gadirova Elmina Musrat was born on 14-th of April in 1975 in Azerbaijan (in Baku city).

From 2004 till 2007 she was post-graduate student.

From 2011 she is a teacher of Ecological Chemistry department.

From 2016 she is a docent (As.Prof.) of Ecological Chemistry department at the Baku State University.

Gadirova Elmina Musrat is the author of more than 120 scientific works and patents.

FIELD OF INTERESTS

1. Decomposition of phenol in industrial wastewater using TiO₂ nanoparticles as well as determination of toxic organic and inorganic substances in water samples taken from various water bodies.
2. Ecological assessment of the impact on the atmosphere depending on the nature of the additives in fuels, especially diesel fuel.

SOME SELECTED WORKS

1. Synthesis and research property monosubstitution ferrocenylcarbinols in the condition interphase catalysis. Chemistry Biology and Medicine, 2004, №3.
2. Alkylation of ferrocene by naftobenzin pyrolysis products in the presence activated some ethers of chemical catalytic systems Al+CCL₄. Chemistry and chemical technology, Ivanovo 2005, vol. 48/12.
3. Compositions characteristics and antiknock efficiency in processed on the basis of new mono- and binuclear alkyl and oxialkyl derivatives of ferrocene and simantrene. Chemistry and chemical technology, Ivanovo, 2005, vol. 48/12.
4. The synthesis of ferrocenyl dialkyl carbinol and isopropyl ether derivatives and the investigation of them by IR-spectral method. Chemical Problems, 2005, №2.
5. Synthesis and research some properties of mono- and binuclear ferrocenylcarbinols and ethers derivatives. Materials of the scientific conference of the post graduate students of ANAS, 2006.
6. Synthesis and study of properties of new ferrocenyl carbinol

compounds in the conditions of inter-phase catalysis. Azerb.chemical journal,2006,№1.

7. Synthesis of ferrocenyldimethylcarbinol at interphase catalysis condition and study of kinetic regularities of the process.Reports National Academy of Sciences of Azerbaijan,2009, LXV,№4.

8.Synthesisintheterms of phase-transfer catalysis of simantrenylkarbinol metal composition and analyzing of some kinetic process regularities. Chemistryand chemicaltechnology,Ivanovo, 2010,vol.53/1.

9. Preparation of anticorrosive insulating composite materials on basis of ferrocene and its some functionally substituted derivatives with oil-polymer resins. Natural and technical sciences,2010,vol.49/5,ISSN,1684-2616.

10.Antirust composition coating on basis of ferrocene and its functionally implicated derivatives. Progressivetechnology of building machine,Donesc.2011,vol.41.

11.Synthesis,structure and properties of cyclopentyl(cyclohexyl)carbinols derivatives of ferrocene and simantrene. Chemistry and chemical technology, Ivanovo,2012.

12.Cleaningwastewatercontaminated withoil and petroleum products.European Applied Sciences//ISSN 2195-2183,ORT Publishing, Germany,№12,2013.

13.A study ofthe distributionof organichydrocarbonsin the water columnnear theAbsheronpeninsula. European Applied Sciences//ISSN 2195-2183,ORT Publishing, Germany,№ 4,2014.

14.Synthesisandproperties of cycliccarbinolderivativesof ferrocene andcymantrene .European Applied Sciences//ISSN 2195-2183,ORT Publishing, Germany,№ 5,2014.

15.Preparation ofthinoil lay erin the laboratory.Young scientist, ISSN 2072-0297, Kazan, №6, 2014.

16.Alkylolation of ferrocene by the products of gasoline pyrolysis and anti-detonation efficiency of alkylates received//ISSN 2195-2183,ORT Publishing, Germany,№,2015,p.80-82..

17. Use of a regional component in the teaching of philological disciplines (for example, pollution of the Caspian Sea) // VIII Scientific Conference, 26 - 27 November, Belarus (Brest) 2015, str.238-241.

18. Absorption of oil layers in the laboratory // III Luzhskiye scientific readings. Modern scientific knowledge: Theory and praktika.May22, 2015.Sankt Petersburg, 2015 str.13-18.

19. Preparation of cyclic organometallic complexes based on ferrocene // III Luzhskiye scientific readings: Theory and praktika . May22, 2015.Sankt Petersburg, 2015 str.8-13.

20.The cyclicorganometallic derivativesof ferrocene andcymantrene//Young scientist, ISSN 2072-0297, Kazan2015, №9 (I), s.74-79.

21. Innovation in the methodology of teaching ecology // VI International Scientific and Practical Conference of the Eurasian cooperation. Kazan, March 24-25, 2016 p.147-151.

22. Environmental concerns surrounding habitat // Mendeleev readings, Brest, 26 February, 2016 p.34-38.

23. Actual problems of chemical education at universities of Azerbaijan // Actual problems of chemical education in secondary and higher school.Vitebsk 2016 p.245-247.

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24. The reactions with cyclic ketones// *International Journal of Research Studies in Science, Engineering and Technology*//India, 2017,Volume4, Issue 3, pp 4-6.
 25. Analysis of ecological monitoring conducted in the oil contaminated areas of Azerbaijani regions// *East European Science Journal (EESJ)*//Warsaw,Poland, 2017, № 7(23), part 2, p.46-49.
 26. Ferrocenyl complexes and use of their derivatives for solving environmental problems // *International Journal of Research Studies in Science, Engineering and Technology*// India, 2018,volume 5, Issue 2, PP 1-4, ISSN:2349-476 X.
 27. S.R.Hajiyeva, E.M.Gadirova, N.K.Ramazanova and so on. Radiation-induced decomposition of water on the BeO surface. Russia .*Radiochemistry journal* , 2019, vol.61, №4, pp.351-353.
 28. Gadirova E.M. Photochemical degradation of phenol in the presence of titanium dioxide nanoparticles. *Proceedings of Universities.Applied chemistry and biotechnology. Russia*, 2019, vol.9, №2, pp.176-182.
 29. S.R. Hajiyeva, E.M.Gadirova, N.Sh.Sharifova , etc. Economy of energy conservation. *IOP Conference Series:Materials Science and Engineering. United Kingdom*.2019, vol. 570, N 1//012031.
 30. S.I. Gilmanshina , K.G.Bendjukevich, E.M.Gadirova, etc. Methods of identifying talent in the field of engineering and natural sciences. *IOP Conference Series: Materials Science and Engineering. Unit.King*. 2019, vol. 570,N 1//012028.
 31. E.M.Gadirova. Ecological aspects of phenol decomposition in the basis of photolysis reactions. *Azərbaycan Kimya Jurnalı*,№1,2020,səh.71-76.
 32. E.M.Gadirova.Photochemical reactions occurring in UV-visible area. *Journal of biology and ecology. Tashkent*, №3, 2020, p.39-45.
 33. E.M.Gadirova , S.R.Hajiyeva , A.A.Sujayev. Investigation of photo-catalytic properties of TiO₂ nanoparticles belonging to rutile phase. *Journal of Molecular Structure(IF: 2.463)*, 28 october 2020, 129534 (Elsevier, WoS)
 34. E.M.Gadirova.Modern methods for wastewater treatment. *Hacattepe Journal of Biology and Chemistry// DergiPark, Turkey*,2021,vol.49, №2,p.125-131.
 35. E.M.Gadirova. Photodegradation of phenol using N/TiO₂ system. *Hacattepe Journal of Biology and Chemistry// DergiPark, Turkey*,2021,vol.49, №2,p.167-173.
 36. E.M.Gadirova. Photochemical reaction in the presence of TiO₂ nanoparticles and ethyl-3,3,5,5-tetracyano-2-hydroxide-2-methyl-4,6-diphenyl cyclohexane carboxylate. *Azerbaijan Journal of Chemistry*, 2021, №2, pp.101-105.
 37. S.R.Hajiyeva, E.M.Gadirova, X.F.Jafarova. Determination of phenol and phenol derivatives in water samples taken from the Caspian Sea. *Journal Alchemist, Tashkent*, 2021, vol. 3, issue1, p.8-12.

GRANTS

GRANTS

1. Separation multicomponent organic and pigment residues from water sources by the method of extraction and development their technology recirculation .Science Development Fund, Azerbaijan,(2012-2014).
2. Reform in education through international exchange of knowledge (544178-TEMPUS-1-2013-IPT-TEMPUS-JPCR). Rethink project, European Union, (2014-2016).
3. Scientific and educational project "The Future of Smart Cities" of Erasmus program (2022).

INTERNATIONAL PROGRAM S

1. Projekt :Action Renewables.Training in Renewable Energy Technologies. Belfast,Northern Ireland, UK, 2011-2012.
2. Rethink Projekt. Tempus program. Business, Architecture and the Environment // Tbilisi, Georgia, 2014, 4-7 november.
- 3.Mevlana Exchange Program// Environmental chemistry // Mugla Sitki Kocman University, Mugla, Turkey,2014, 23-27 november.
- 4.SABAH Program: Paris-Sorbonne University Abu Dhabi //Program from 8-13 february, 2016 in Abu Dhabi,U.A.E.
- 5.Tempus Program//Training at the University of L-Coruna Program, L- Coruna, Spain, 2016, 23-30 july.
- 6.Belarus State University named A.S.Puskin. Member of the scientific staff at the International Conference // International conference on environmental protection and joint cooperation. Brest, . Belarus , 2017, 22-24 february.
7. Eurasia Enviro International Chemistry Congress. Member of the scientific staff at the International Conference // Turkey ,Antalya , 2018, 01-04 november .
8. ICAFOP International Conference . Member of the scientific staff at the International Conference // Turkey, Trabzon, 2019, 16-18 april .
- 9.UNIDOKAP Black Sea International Scientific Symposium . Member of the scientific staff // Turkey, Tokat , 2019, 21-23 june .
- 10.EBAT-2 International Conference. Member of the scientific staff at the International Conference // Turkey, Antalya, 2019, 26-29 october.
- 11.International Environmental Chemistry Congress. Member of the scientific staff at the International Conference // Turkey , Antalya , 2019, 31 october-03 november .
- 12.ISAS: International Scientific Symposium . Member of the scientific staff // Turkey, Samsun , 2019, 22-24 november .
- 13.Member of the scientific staff at the International Conference // Integration into the world and communication of sciences. Azerbaijan, Baku,2020, 29-30 september .
www.virtualconferences.press
14. III International Scientific Conference. Member of the scientific staff at the International Conference // Technogenic systems and environmental risk. Russia, Obninsk, 2020, 21-22 may .
tser.iate.obninsk.ru
- 15.5th International Engineering and Natural Sciences Conference. Member of the scientific staff at the International Conference // Turkey, Dicle University, Diyarbakir,2020, 05-06 november.
inesgconferences.org/iensc

16.5th International Symposium of Environment and Morals . Member of the scientific staff at the International Conference //Turkey, Yildiz Technical University, Istanbul,2020, 24-25 september .
www.i-sem.info

17.III International Scientific Conference: Environmental Chemistry . Member of the scientific staff at the International Conference /// Turkey, Antalya, 2021, 01-04 November.