

Hajiyeva Flora Vidadi

Date and place of birth

January 26, 1985, Tovuz, Azerbaijan

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EDUCATION AND ACADEMIC DEGREE OBTAINED

1990-2000- High school named N.Tusi (with honors)

2000-2004- Faculty of Chemistry (BS), Baku State University

2004-2006-MS Faculty of Chemistry, Department of Analytical Chemistry, Baku State University

2007-2010- PhD student, Department of Chemical Physics of nanomaterials, Baku State University

2012- Post doc researcher

COMPLETE PROFESSIONAL BACKGROUND

2006-2011- assistant, Department of Chemical Physics of nanomaterials, Baku State University

2011-2015- lecturer, Department of Chemical Physics of nanomaterials, Baku State University

2015- Associate Professor, Department of Chemical Physics of nanomaterials, Baku State University

PRESENT RESEARCH INTEREST

Main field

Nanotechnology, Nanochemistry, polymer nanocomposites, probe microscopy

Other field

Ion track nanotechnology, nanotechnology in ecology

RESEARCH PROJECT COMPLETED

2018- Project EIF Synthesis, structure and properties of nanocomposites on the base thermoplastic polymers and metal oxide nanoparticles (65000 AZN)

2015-2017 Nizami project Erasmus+Higher Education International Capacity Building Project №561784-EPP-1-2015-1-FR-FR EPPKA2-CBHE-SP, Restructuring and development of doctoral studies in Azerbaijan in line with requirements of European higher education area (994056 Euro)

2017 International innovative center of nanotechnologies of the CIS countries Project № 038/104 Magneto resistive polymer nanocomposites based on PP+Fe₃O₄ and PVDF+Fe₃O₄ (625000 RUB)

2016 Grant of Matsumae International Foundation of Japan Design of magnetic polymer nanocomposites for the absorption of electromagnetic waves (11000\$)

2014-2016 ECONANO TEMPUS PROJECT №543924-TEMPUS-1-2013-1, Curriculum reform and the modernization of ecology engineering based on nanotechnology (655000 Euro)

2015 (30.04.2015) Proje №1 of Ministry of Defence Industry (55000 AZN)

2015 (30.04.2015) Proje №2 of Ministry of Defence Industry (65000 AZN)
2014 Grant EIF-Mob-3-2013-6(12) Technology of formation of nanostructures in polymer membranes modified under radiation exposure (6000 AZN)
2014 (17.03.2014) Proje №1 of Ministry of Defence Industry (43000 AZN)
2014 (17.03.2014) Proje №1 of Ministry of Defence Industry (42000 AZN)
2014 (17.03.2014) Proje №1 of Ministry of Defence Industry (43000 AZN)
2013-2014 ISESCO PROJECT The development of technology of formation quantum nanowires in polymer matrix (10000\$)
2011 Grant of CIS N 10887, Application of nanotechnology in oil extracting (500000 RUB)
2011 Grant of CIS N 10886, Application of nanotechnology to collect oil from the water surface (500000 RUB)
2010-2012 KACST - BSUAZ/01/401-30 (Saudi Arabia), Application of Nanotechnology in Oil Extracting” King Abdulaziz Foundation for Science and Technology (400000\$)
2009 Project STCU 4525 Development of medium-wave infrared LEDs and photodiodes on the basis of narrow gap materials A3B5 (240000\$)
2009-2012 Grant 3898 STCU, Radio ecological survey of the soil of the territory of Baku city of Absheron peninsular (238898\$)
2008 -2009 Grant N01(SOCAR), Application of scientific and technological bases of nanotechnology in oil extracting (30000 AZN)
2008-2009 CRDF Azerbaijan-USA Bilateral Grant Influence of interface interaction physico-chemical properties of polymeric magnetic nanocomposites (40000\$)

MEMBER OF INTERNATIONAL SCIENTIFIC AND EDUCATIONAL SOCIETIES

1. Member of the advisory council of young scientists of the CIS
2. Head of the Council of Young Scientists of Baku State University
3. Member of preliminary seminar at the dissertation council of Physics faculty on specialty
4. Physics of nanostructures and nanotechnologies

AWARDS AND HONORS

1. Laureate of the president of Azerbaijan Republic in the field of science and education Baku, 2014
2. International Laureate of awards Commonwealth Debuts of CIS countries for a in the field of science and education Ashgabat, Turkmenistan 2012
3. Laureate of Azerbaijan Youth of Azerbaijan Republic in the field of science and education, Baku, Azerbaijan 2011

DIPLOMA AND CERTIFICATES:

1. Diploma for the best innovation project Application of nanotechnology for collectin thin oil films from water surface "The Commonwealth of Independent States: A View of Youth" at the Youth Science Forum Lomonosov-2010Moscow, Russian2010
2. Certificate for participation in competition for achievements on scientific photography contest made on an atomic force microscope "Science is beautiful" Moscow, Russian, 2008
3. Certificate for participation in competition for achievements on scientific photography contest made on an atomic force microscope "Science is beautiful" Moscow, Russian, 2009
4. Diploma for participation in the training of young scientists participating States of the Commonwealth of Independent States, Dubna, Russian, 2011
5. Certificate for participation and a highly report in the international conference "Opto, nanoelectronics, nanotechnology and microsystems" Ulyanovsk, Russian, 2008

6. Certificate for participation in higher courses of CIS countries "Synchrotron and Neutron nanosystems" Moscow, Russian (2009)
7. Certificate of attendance the International Summer School on PEM Fuel Cells, Bursa, Turkey

INTERNATIONAL CONFERENCES, SCHOOLS, SEMINARS

2018, Nizami Erasmus European project meeting, 23-25 April, Barcelona, Spain
 2017, Third General Assembly of STAR-NET, Vienna, Austria
 2017, Nizami Erasmus European project meeting, 2-6 October, Brno, Czech Republic
 2016 Nine-2016 International Conference of Nanotechnology based innovative applications of environment, 23-25 March, Rome, Italy
 2016 MIF Fellows Meeting, 24-27 July, Tokyo, Japan
 2016, Nizami Erasmus European project meeting, 12-16 December, Heidelberg, Germany
 2015 Econano European project meeting, 10-14 June, Patras, Greece
 2015 Nanotech International Conference, 15-18 June, Paris, France
 2015 Econano European project meeting, 29 September-02 October, Rome, Italy
 2015, Nizami Erasmus European project meeting, 6-10 December, Montpellier, France
 2014 Econano European project meeting, 01-05 October, Paris, France
 2013 International Summer School PEM (Proton exchange membrane fuel cells) training, 17-22 June, Bursa, Turkey
 2013 "Open Innovation" Moscow International Forum, 28 October-03 November, Dubna, Russia
 2012 VII forum of creative and scientific intelligentsia of the CIS, 14-17 October, Ashgabat, Turkmenistan
 2011 CIS qualification courses for young scientists, 30 January-27 February, Dubna, Russia
 2010 Youth scientific forum of the CIS countries Moscow State University, 12-16 April, Moscow, Russia
 2010 Cleanroom-training Bilkent University, National Nanoresearch Center Ankara, 21 June-06 July, Ankara, Turkey
 2009 Synchrotron and neutron methods of research nanosystems, 28 June-13 July, Moscow, Russia
 2008 Opto, nanoelectronics, nanotechnologies and microsystems conference, 21-28 August, Ulyanovsk, Russia

LIST OF SELECTED PUBLICATIONS (REFEREED IN WEB OF SCIENCE).

1. Ramazanov M.A., **Hajiyeva F.V.**, Maharramov A.M., Luca Di Palma, Diana Sannino, Makoto Takafuji, Mammadov H.M., Hasanova U.A., Shirinova H.A., Bayramova Z.A. New Magnetic Polymer Nanocomposites on the Basis of Isotactic Polypropylene and Magnetite Nanoparticles for Adsorption of Ultrahigh Frequency Electromagnetic Waves **Polymer-Plastics Technology and Engineering**, volume 57, issue 5, p.449-458, 2018
2. Luca Di Palma, Irene Bavasso, Fabrizio Sarasini, Jacopo Tirillò, Debora Puglia, Franco Dominici, Luigi Torre, Armando Galluzzi, Massimiliano Polichetti, Mahammadali A. Ramazanov, **Flora V. Hajiyeva**, Habiba A. Shirinova Effect of nano-magnetite particle content on mechanical, thermal and magnetic properties of polypropylene composites **Polymer Composites** 2018
3. Ramazanov M.A., Maharramov A.M., Ali-zada R.A., Shirinova H.A., **Hajiyeva F.V.** Theoretical and experimental investigation of the magnetic properties of polyvinylidene fluoride and magnetite nanoparticles-based nanocomposites **Journal of Theoretical and Applied Physics**, vol.12, issue 1, pp.7-13, 2018

4. Ramazanov M.A., Maharramov A.M., **Hajiyeva F.V.**, Shirinova H.A., Luca Di Palma The Effect of the Temperature–Time Mode of Crystallization on the Morphology and Thermal Properties of Nanocomposites Based on Polypropylene and Magnetite **Journal of Inorganic and Organometallic Polymers and Materials**, vol.28, issue 3, p.1171-1177, 2018
5. Ramazanov M.A., Maharramov A.M., Hajiyeva F.V., Sultanova J.R., THERMAL AND MECHANICAL PROPERTIES OF PP+Fe AND PVDF+Fe BASED NANOCOMPOSITES Journal of Optoelectronics and biomedical materials **Vol. 10, No. 3, p. 83-90, 2018**
6. A.M.Maharramov, M.A.Ramazanov, S.Q.Nuriyeva, U.A.Hasanova, **F.V.Hajiyeva** Influence of preparation technology-cristallisation temperature-time regime on supramolecular structure and properties of PP/Ag₂S nanocomposites Journal of Optoelectronics and biomedical materials **Vol. 10, No. 2, p. 37-42, 2018**
7. Ramazanov M.A., Alizade R.A., Maharramov A.M., **Hajiyeva F.V.**, Sultanova J.R., Shirinova H.A.Theoretical and Experimental Study of the Magnetic Properties andSize of Distribution of PVDF+Fe Based Nanocomposites **Journal of Inorganic and Organometallic Polymers and Materials**, pp.1-8, 2018
8. Ramazanov M.A., Maharramov A.M., **Hajiyeva F.V.**, H.M.Mamedov Microwave absorption of polymer nanocomposites on the base high-density polyethylene and magnetite nanoparticles, **Journal of Elastomers and Plastics**, 2018
9. M.A.Ramazanov, **F.V.Hajiyeva**, A.M.Maharramov, and U.A.Hasanova Effect of corona discharge on the structure and photoluminescence properties of nanocomposites based on polypropylene (PP) and zirconium dioxide (ZrO₂) nanoparticles **J. Ferroelectrics** 2017, Vol. 507, 1–6
10. Ramazanov M.A., **Hajiyeva F.V.**, Maharramov A.M., Ahmadova A.B., Nuriyev M.A., Hasanova U.A., Rahimli A.M.The influence of corona discharge on the electret properties and charge state of polymer nanocomposites based on isotactic polypropylene and titanium dioxide nanoparticles (TiO₂). International Conference **Modern trends in physics** 20-22April, 2017, Baku, Azerbaijan
11. M.A.Ramazanov, A.M.Maharramov, S.G.Nuriyeva, U.A.Hasanova, F.V.Hajiyeva Influence of preparation technology-crystallization temperature-time regime on supramolecular structure and properties of PP/Ag₂S nanocomposites **Journal of Optoelectronic and Biomedical Materials** Vol. 10, No. 2, April – June 2018, p. 37 - 42
12. Maharramov A., Ramazanov M., Di Palma L., Hajiyeva F., Shirinova H., Hasanova U. Role of Structure of the Pp/magnetite Nanocomposites on Their Thermal Properties **CHEMICAL ENGINEERING TRANSACTIONS** vol 60, 2017, p.55-60
13. M.A.Ramazanov, **F.V.Hajiyeva**, A.M.Maharramov, U.A.Hasanova, A.M.Rahimli The role of the polarization charges in the formation of photoluminescent properties of nanocomposites based on polyvinylidene fluoride and zirconia dioxide nanoparticles **Integrated Ferroelectrics** 2017, Vol.185, 1-8
14. M.A.Ramazanov, **F.V.Hajiyeva**, A.M.Maharramov, A.M.Rahimli Influence of polarization charges on the photoluminescence properties of nanocomposites based on polyvinylidene fluoride and titanium dioxide nanoparticles **J Inorg Organomet Polym**, vol.27, issue 1, p.239-243, 2017
15. AygulA.Novruzova, Mahammadali A.Ramazanov, Angelo Chianese, Abel M. Maharramov, Flora V.Hajiyeva, Ulviyya A.Hasanova Synthesis, Structure and Optical Properties of PP+PbS/CdS Hybrid Nanocomposites **CHEMICAL ENGINEERING TRANSACTIONS**, vol 60, 2017, p.61-66
16. **F.V.Hajiyeva**, M.A.Ramazanov, A.M.Maharramov, U.A.Hasanova, A.M.Rahimli Influence temperature time mode of crystallization on the structure and properties of nanocomposites based on polyvinylidene fluoride (PVDF) and zirconium dioxide nanoparticles (ZrO₂) **Journal of Optoelectronics and Biomedical Materials** volume 9, issue1, p.1-7, 2017
17. M.A.Ramazanov, **F.V.Hajiyeva**, A.M.Maharramov, A.B.Ahmadova, U.A.Hasanova A.M.Rahimli and H.A.Shirinova Influence of polarization process on morphology and

- photoluminescence properties of PP/TiO₂ nanocomposites **Acta Physica Polonica A**, Vol.131, p.1540-1543, 2017
18. Habiba Shirinova, Luca Di Palma, Fabrizio Sarasini, Jacopo Tirillò, Mahammadali A. Ramazanov, **Flora Hajiyeva**, Diana Sannino, Massimiliano Polichetti, Armando Galluzzi Synthesis and Characterization of Magnetic Nanocomposites for Environmental Remediation **Chemical Engineering Transactions**, Vol.47, 2016
 19. A.M.Maharramov, M.A.Ramazanov, **F.V.Hajiyeva** A structure and dielectric properties of nanocomposites based on isotactic polypropylene and lead sulphide nanoparticles **Journal Chalcogenide Letters**, Volume 13, Issue 1, pages 35-40, 2016
 20. A.M.Maharramov, M.A.Ramazanov, J.R.Sultanova, **F.V.Hajiyeva**, U.A.Hasanova The structure and dielectric properties of nanocomposites based on isotactic polypropylene and iron nanoparticles **Journal of Optoelectronics and Biomedical Materials** Vol. 8, No. 3, July - September 2016 p. 113 – 118
 21. A.M.Maharramov, M.A.Ramazanov, J.R.Sultanova, **F.V.Hajiyeva**, U.A.Hasanova The magnetic polymer nanocomposite materials based on polypropylene and iron nanoparticles: Synthesis and structure Journal of Ovonic Research Vol. 12, No. 4, July - August 2016, p. 193 – 200
 22. A.M.Maharramov, M.A.Ramazanov, S.Q.Nuriyeva, U.A.Hasanova, **F.V.Hajiyeva** Preparation and study of nanocomposite structures based on polypropylene and silver sulphide **Chalcogenide Letters** Vol. 13, No. 7, July 2016, p. 317–324
 23. A.M.Maharramov, M.A.Ramazanov, A.B.Ahmadova, **F.V.Hajiyeva**, U.A.Hasanova Thermal and mechanical properties of polymer-based nanocomposites of isotactic polypropylene and titanium nanoparticles **Digest Journal of Nanomaterials and Biostructures** Vol. 11, No. 2, April - June 2016, p. 365 – 372
 24. A.M.Maharramov, M.A.Ramazanov, A.B.Ahmadova, **F.V.Hajiyeva**, U.A.Hasanova The structure and dielectric properties of nanocomposites based on isotactic polypropylene and titanium nanoparticles **Digest Journal of Nanomaterials and Biostructures** Vol. 11, No. 3, July – September 2016, p. 781 – 786
 25. UlviyyaHasanova, Mahammadali Ramazanov, Abel Maharramov, Zarema Gakhramanova Sarvinaz Hajiyeva, Qoncha Eyvazova, Leyla Vezirova, **Flora Hajiyeva**, Matanat Hasanova, Narmina Guliyeva Synthesis of Macrocycle (MC)–Mimics the Properties of Natural Siderophores and Preparation the Nanostructures on the Basis of MC and Magnetite Nanoparticles **CHEMICAL ENGINEERING TRANSACTIONS** VOL. 47, 2016
 26. Tetyana Kisyelova, Aygul Novruzova, Flora Hajiyeva, Mahammadali Ramazanov, Angelo Chianese Effect of the Reactor Configuration on the Production of Silver Nanoparticles **CHEMICAL ENGINEERING TRANSACTIONS** VOL. 47, 2016
 27. M.A.Ramazanov, **F.V.Hajiyeva**, A.M. Maharramov Influence of corona discharge on the electret and charge states of nanocomposites based on isotactic polypropylene and zirconium dioxide nanoparticles **J. Ferroelectrics** Volume 493, Issue 1, p. 103-109, 2016
 28. A.M.Maharramov, M.A.Ramazanov, **F.V.Hajiyeva**, S.S.Amirov Investigation the structure and dielectric properties of PP+PbS nanocomposites synthesized on the basis of polypropylene polymer irradiated by accelerated heavy ions **Journal of Optoelectronics and Biomedical Materials**, Volume 8, 1, January-march 2016, p.15-20
 29. Ulviyya Alimammad Hasanova, Mahammadali Ahmad Ramazanov, Abel Mammadali Maharramov, Zarema Gakhramanova, Sarvinaz Faiq Hajiyeva, Leyla Vezirova, Goncha Malik Eyvazova, **Flora Vidadi Hajiyeva**, Parvana Huseynova, Zohrab Agamaliyev The functionalization of magnetite nanoparticles by hydroxyl substituted diazacrown ether, able to mimic natural siderophores, and investigation of their antimicrobial activity **J Incl Phenom Macrocycl Chem**, 2016, p.1-7
 30. Mahammadali Ahmad Ramazanov, Abel Mammadali Maharramov, **Flora Vidadi Hajiyeva**, Feyza Kıraç, Olgun Güven Morphology, Mechanical and thermal properties of

- nanocomposites based on isotactic polypropylene and zirconium dioxide nanoparticles **Revista Română de Materiale/Romanian Journal of Materials** 2016, 46 (3), 375–382
31. Ulviyya Alimammad Hasanova, Mahammadali Ahmad Ramazanov, Abel Mammadali Maharramov, Qoncha Malik Eyvazova, Solmaz Bayram Veliyeva, Yana Vacheslav Parfyonova, Sarvinaz Faiq Hajiyeva, **Flora Vidadi Hajiyeva**, Narmina Arthur Guliyeva The Improvement of Antimicrobial Activity of Kanamycin and Ciprofloxacin Antibiotics Coupled With Biocompatible Magnetite Nanoparticles and Characterization of Their Structure **Journal of Nanotechnology in Engineering and Medicine**
 32. A.M.Magerramov, M.A.Ramazanov, S.G.Nuriyeva, **F.V.Hajiyeva**, U.A.Hasanova Structure and photoluminescence properties of polymer nanocomposites on the basis of polypropylene PP+Ag₂S **Journal of Optoelectronics and Biomedical Materials** Vol. 7, Issue 2, April - June 2015 p. 39 – 45
 33. M.A.Ramazanov, A.S.Huseynova, **F.V.Hajiyeva** Influence of electrothermopolarization on structure and photoluminescent properties of polypropylene and MnO₂-based nanocompositions **Journal of Ovonic Research** Vol. 11, №1, January-February 2015, p.35-39
 34. A.M.Maharramov, M.A.Ramazanov, A.I.Ahadova, M. Kloor, Juergenkopitz, M.VonKnebel Doeberitz, A.L.Shabanov. Q.M.Eyvazova, Z.A.Agamaliyev, **F.V.Hajiyeva**, S.B.Veliyeva, U.A.Hasanova Preparation of 2-deoxy-d-glucose coated spio nanoparticles and characterization of their physical, chemical and biological properties. **Digest Journal of Nanomaterials and Biostructures** Vol. 9, No. 4, 2014, p. 1461–1469
 35. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** Structure and dielectric properties of nanocomposites on the basis of high-density polyethylene and lead sulfide. **Chalcogenide Letters** Vol. 11, No. 4, 2014, p. 175–180
 36. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva**, V.M.Guliyeva Investigation of structure and electrophysical properties of nanocomposite materials on the basis of zirconium dioxide in isotactic polypropylene matrix. **Journal of Ovonic Research** Vol.9, №5, September-October 2013, p.133-141
 37. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** Study of the Structure and Dielectric Properties of Nanocomposites Based on Polypropylene and Zirconia Nanoparticles ISSN 1068_3755, **Surface Engineering and Applied Electrochemistry**, 2013, Vol. 49, No. 5, pp. 355–358. © Allerton Press, Inc., 2013
 38. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** Properties and structure formation of cadmium sulfide nanocomposites with polypropylene **Journal Optoelectronics and Advanced Materials, – Rapid Communications** v. 2 № 11 2008 743-746
 39. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** Role of phase interactions in formation of fotoluminescent and dielectric properties of polymeric nanocomposites **Journal Optoelectronics and Advanced Materials. – Rapid Communications**, v.3, № 12-2009 432
 40. M.A.Ramazanov, A.S.Quseynova, **F.V.Hajiyeva** Influence of temperature and time regimes of crystallization and electrothermopolarization on the physical structures of polypropylene and MnO₂-based composition **Journal Optoelectronics and Advanced Materials. –, Rapid Communications** v.3 №11-2009, p.1204-1206
 41. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** Influence of electrothermopolarization on the strength and photoluminescent properties of nanocomposites on basis polypropylene and cadmium sulfide. **J.. Surface Engineering and Applied Electrochemistry**, 2011 №5, p. 120-123
 42. A.M.Magerramov, M.A.Ramazanov, **F.V.Gadzhieva**, S.G.Alieva The effect of the temperature-time mode of crystallization on the morphology and properties of nanocomposites based on polypropylene and cadmium sulfide. **J.. Surface Engineering and Applied Electrochemistry**, 2011, Vol.47, pp.428-432

PUBLICATION IN REVIEW PAPERS:

1. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** "Photoluminescence in the polymer nanocomposites on the basis of PP + CdS". The Journal of American Science, Volume 3.Number 4, December 1, 2007, ISSN 1545-1003. p. 62-67 USA
2. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva**, P.B.Agakishiyeva The Influence of the microstructure on magnetic characteristic polymeric nanocomposites on base PE+Fe₃O₄. J.Plastics, 2008 № 10
3. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva** Structure and photoluminescence properties of nanocomposites based on cadmium sulfide and polypropylene .J. Physics and Chemistry of Materials Processing №1, 2008, стр. 71-74 Russian
4. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva**, R.A.Alizade Formation of the structure of magnetic-based nanocomposites PE+ Fe₃O₄ and PVDF+Fe₃O₄, J.Nanotechnics, №3, 2009 Russian
5. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva**, The structure of the nanocomposites based on polyvinylidene fluoride and cadmium sulfide №21, 2010, p.81-85 Russian
6. A.M.Magerramov, M.A.Ramazanov, **F.V.Hajiyeva**, Photoluminescent properties of nanocomposites based on PVDF + CdS and PP + CdS. J. Applied Physics №3, 2011, p.107-109. Russian

PUBLICATION IN REPUBLICAN JOURNALS:

1. R.A.Alieva, F.S.Alieva, F.V.Hajiyeva, F.M.Chyraqov Spectrofotometric determination of aluminium with 2,3,4-trihydroxy-4'-fluoroazobenzole in present bis-(2, 3,4-trihydroxyfenilazo)-benzidin and surface-active substances urotropine və difenilquanidin. Chemical Journal, №3, 2007, p.48-51
2. M.A.Ramazanov, F.V.Hajiyeva, A.S.Guseynova "The influence of electrotermopolarization on the microstructure and composition strength properties on the basis of polypropylene and MnO₂". The Journal of Physics, Baku, Number 5, 2007, p. 64-66
3. R.A.Alieva, F.S.Alieva, F.V.Hajiyeva, F.M.Chyraqov Study of complexformation of gallium with 2,3,4-trihydroxy-4'-bromazobenzole in present surface-active substance. News of Baku University. №1, 2008, p.34-38
4. R.A.Alieva, F.S.Alieva, F.V.Hajiyeva, F.M.Chyraqov Spectrofotometric determination of aluminium with 2,3,4-trihydroxy-4'-bromazobenzole in present bis-(2,3,4-trihydroxyfenilazo)-benzidin and surface-active substances urotropine və difenilquanidin. Baku University News №3, 2008, p.23-27
5. F.V.Hajiyeva Influence of electrotermopolarization on the physical structure and photoluminescence properties of nanocomposites based on polypropylene and cadmium sulfide Journal of Energetics problems Baku 2010. №3, p.62-68