Solmaz Aliyeva

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SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=55613557600

WORK EXPERIENCE

2014 – 2016
ENGINEER AZERBAIJAN NATIONAL ACADEMY OF SCIENCES, INSTITUTE OF RADIATION PROBLEMS

2016 – 2018
RESEARCH FELLOW BAKU STATE UNIVERSITY

2019 – 2020
LABORATORY ASSISTANT AZERBAIJANI-FRENCH UNIVERSITY (UFAZ)

2021 – 2023 Baku, Azerbaijan
RESEARCH FELLOW ASOIU, SCIENTIFIC-RESEARCH INSTITUTE GEOTECHNOLOGICAL PROBLEMS OF OIL, GAS AND CHEMISTRY

2023 – CURRENT Baku, Azerbaijan
RESEARCH FELLOW WOMEN RESEARCHERS COUNCIL, AZERBAIJAN STATE UNIVERSITY OF ECONOMICS (UNEC)

2024 – CURRENT Baku, Azerbaijan
SENIOR RESEARCH FELLOW ASOIU, SCIENTIFIC-RESEARCH INSTITUTE GEOTECHNOLOGICAL PROBLEMSOF OIL, GAS AND CHEMISTRY

EDUCATION AND TRAINING

2009 – 2013 Baku, Azerbaijan
BACHELOR'S DEGREE, CHEMISTRY TEACHER Azerbaijan State Pedagogical University

2013 – 2015 Baku, Azerbaijan
MASTER'S DEGREE, CHEMISTRY OF COMPOSITE MATERIALS Baku State University

2015 – 2022 Baku, Azerbaijan
PHD CANDIDATE, MACROMOLECULAR CHEMISTRY Baku State University
Thesis: Synthesis and study of hybrid composite based on butadiene rubber and graphite through oxidative chlorophosphorylation

LANGUAGE SKILLS

Mother tongue(s):	AZERBAIJANI				
Other language(s):	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
RUSSIAN	B2	B2	B1	B1	B1
ENGLISH	B1	B2	B1	B1	B2
TURKISH	B2	B1	B1	B1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

1. **Thermal Degradation Kinetic Study of Expanded Perlite-Modified Butadiene Rubber Composites**
Published: 2024 in Macromolecular Reaction Engineering
DOI: 10.1002/MREN.202400005

2. **Growing ZnS nanoparticles on novel expanded perlite-butadiene rubber composite by SILAR method**
Published: 2024 in Journal of Rubber Research
DOI: 10.1007/s42464-024-00246-6

3. **Structure and thermal stability of phosphochlorinated polybutadiene/carbon black composite synthesized via oxidative chlorophosphorylation reaction**
Published: 2024 in Journal of the Serbian Chemical Society
DOI: 10.2298/JSC230731080E

4. **Structural Characterization of Composites Based on Butadiene Rubber and Expanded Perlite**
Published: Dec 2023 in Journal of Composites Science
DOI: 10.3390/JCS7120487

5. **SYNTHESIS OF FUNCTIONALIZED GRAPHENE NANOPLATELETS THROUGH OXIDATIVE CHLOROPHOSPHORYLATION: TECHNICAL NOTE**
Published: May 2023 in Surface Review and Letters
DOI: 10.1142/S0218625X23500464

6. **COVALENT CARBON NANOTUBE AND FULLERENE HYBRID STRUCTURES: MINI REVIEW**
Published: 2023 in Surface Review and Letters
DOI: 10.1142/S0218625X23300083

7. **Comparison of sorption properties of adsorbents with expandable and thermally expanded graphite and bentonite with respect to sodium and cadmium (II) ions**
Published: 2023 in Functional Materials
DOI: 10.15407/FM30.02.309

8. **Design, Structural Characteristic and Antibacterial Performance of Silver-Containing Cotton Fiber Nanocomposite**
Published: Dec 2022 in Bioengineering
DOI: 10.3390/BIOENGINEERING9120770

9. **Fire-retardant properties of functionalised graphene nanoplatelets/modified polybutadiene hybrid composite material: a technical note**
Published: Feb 2022 in Journal of Rubber Research
DOI: 10.1007/S42464-022-00148-5

10. **Adsorption of Acridine Yellow G from aqueous solutions using functionalized graphene nanoplatelets/modified polybutadiene hybrid composite**
Published: Jul 2020 in Journal of the Chinese Chemical Society
DOI: 10.1002/JCCS.202000162

11. **Functionalized graphene nanoplatelets/modified polybutadiene hybrid composite**
Published: Dec 2019 in Progress in Colloid and Polymer Science
DOI: 10.1007/S00396-019-04565-8

12. **Recent developments in edge-selective functionalization of surface of graphite and derivatives - a review**
Published: Oct 2019 in Soft Materials

DOI: 10.1080/1539445X.2019.1600549

13. Equilibrium, kinetic, and thermodynamic studies on the sorption of some heavy metal ions by the phosphorus-containing polymer sorbent
Published: Mar 2019 in Bulletin of the Academy of Sciences of the USSR Division of Chemical Science
DOI: 10.1007/S11172-019-2447-X

14. Synthesis of o-phenylenediamine functionalized graphite
Published: Feb 2017 in Fullerenes, Nanotubes and Carbon Nanostructures
DOI: 10.1080/1536383X.2017.1289924

15. Phosphorus-Containing Polybutadiene Rubber-Bentonite Hybrid Composite for the Removal of Rhodamine 6G from Water
Published: Feb 2016 in Analytical Letters
DOI: 10.1080/00032719.2016.1139586

CONFERENCES AND SEMINARS

02/03/2017 – 03/03/2017 – Chisinau, Republic of Moldova
The 6th International Conference ECOLOGICAL & ENVIRONMENTAL CHEMISTRY - 2017
Link https://ibn.idsi.md/sites/default/files/imag_file/2%2B-EEC-2017_FINAL_Abstract_book_15_Feb_FINAL.pdf

03/03/2022 – 04/04/2022 – Chisinau, Republic of Moldova
The 7th International Conference ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY-2022
Link https://conferinte.stiu.md/sites/default/files/evenimente/vers.finala_EEC-2022_Abstract_Book_Volumul_1-CIP_0.pdf

06/12/2021 – 09/12/2021 – NUST MISiS, Moscow
International conference New Carbon Nanomaterials: Ultrathin Diamond Films

PROJECTS

03/2022 – 02/2023
Science Development Foundation under the President of the Republic of Azerbaijan / The 6th grant competition of Young Scientists and Researchers / Project Manager

PATENTS

A Method of Obtaining a Hybrid Composite Sorbent for Wastewater Treatment. Eurasian Patent Organization. 2017. 028334. B1. https://old.eapo.org/ru/publications/publicat/viewpubl.php?id=028334

AWARDS

1. Competition dedicated to the 100th anniversary of the "Shollar-Baku Water Supply Facilities Complex" at the forum held by "Azersu" OJSC as part of the "Baku Water Week" (Scientific research work-1st place)

2. The Eurasian patent entitled "A Method of Obtaining a Hybrid Composite Sorbent for Wastewater Treatment" won the "V Republican Competition for Achievements in the Field of Invention". The noted invention was awarded first place and declared "Patent of the Year".