

Europass Curriculum Vitae

Personal information

Iuliia Steksova

First name(s) / Surname(s)
Address(es)
Telephone(s)
E-mail
Nationality
Date of birth
Gender

Work experience

Monk experience	
Dates	September 2018 – March 2022
Occupation or position held	Research fellow, PhD Student
Main activities and responsibilities	Physical and chemical analyses, synthesis of complex organic molecules, synthesis of active and highly selective catalysts for various applications, thermo- and electrocatalytic synthesis, synthesis of aerogels on the E3100 Critical Point Dryer, work on a high-temperature automated press, work with ultrasonic dispersers, work with natural polymers (spider silk), interpretation of the results by methods: BET, SEM, XRF, XRD, NMR. Writing scientific articles and grants, work in KOMPAS-3D, Origin, MathCAD, Microsoft Office, Adobe Illustrator.
Name and address of employer	Dr. Alexandr V. Vinogradov, 19002, 9, Lomonosova street, 19002, Saint Petersburg, Russian Federation
Type of business or sector	ITMO University, SCAMT institute (Solution Chemistry of Advanced Materials and Technologies)
Dates Occupation or position held Main activities and responsibilities	September 2015 – June 2018 Laboratory Assistant Synthesis of ceramic composites, physical and chemical testing of raw materials; synthesis of metal nanoparticles, processing, systematization and registration of test results in accordance with methodological documents, data approbation.
Name and address of employer Type of business or sector	Dr. Alexander G. Bannov, 20 Prospekt K. Marksa, Novosibirsk, 630073, Russian Federation Novosibirsk State Technical University (NETI)
Education and training	

Dates	September 2022 - pres	sent time			
Title of qualification awarded	PhD student				
Principal I subjects/occupational skills covered	Creation of laser-induced graphene from waste almond shells. obtaining polymer composites based on almond and hazelnut shell waste, converting the above-mentioned composites into conductive graphene materials using the laser pyrolysis process.				
Name and type of organisation providing education and training	Scuola Superiore Sant'Anna				
Dates	September 2018 – March 2022				
Title of qualification awarded	PhD student (not finished)				
Principal subjects/occupational skills covered	Electrochemistry, catalysis, organic chemistry, colloid chemistry, nanoarchitectonics for enantioselective biosensing, nanoarchitectonics for smart delivery and drug targeting, green chemistry, materials science, molecular modeling, sol-gel chemistry, and technology.				
Name and type of organisation providing education and training	ITMO University, SCAMT institute (Solution Chemistry of Advanced Materials and Technologies)				
Dates	September 2016 – June 2018				
Title of qualification awarded	Master degree				
Principal subjects/occupational skills covered	Chemistry of Applied Materials, biomedical materials, fuel cells, surfactants and gels, nanocrystals, coatings, and films, design of functional materials				
Name and type of organisation providing education and training	Novosibirsk State Technical University (NETI)				
Level in national or international classification	Master degree				
Dates	September 2012 – June 2016				
Title of qualification awarded	Bachelor degree				
Principal subjects/occupational skills covered	Energy and resource saving processes in chemical technology, petrochemistry and biotechnology				
Name and type of organisation providing education and training	Novosibirsk State Technical University (NETI)				
Level in national or international classification	Bachelor degree				
Personal skills and competences					
Mother tongue(s)	Russian				
Other language(s)	English		•		
Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
Language		U1		C1	U1
	(*) <u>Common European Framework of Reference for Languages</u>				
Social skills and competences	Responsible, multitasking, easy to learn material, sociable, have a strong social position			tion	
Organisational skills and competences	Participated in the orga https://solgel2019.itmo	anization of the Inte . <u>ru/</u>	rnational Sol-Gel Cor	ference in 2019	

Technical skills and competences	Research of biocompatible materials based on spider silk. Development of effective and stable catalytic systems for CO2 reduction reactions and hydrogen evolution reaction. Synthesis of aerogels based on carbon modifications (using e3100 critical point dryer). Chemical methods of analysis (BET, SEM, synchronous thermal analysis, sedimentation analysis), optical metallography, preparation of metal samples for research, ultrasonic dispersion, work on automated high-temperature press, the basic principles of X-ray diffraction and data processing, work on NMR spectrometer (Brucker) and gas chromatography system (Agilent), conduct electrochemical reactions with electrochemical stations biologic S200 and SP50.		
Computer skills and competences	KOMPAS-3D, Origin, MathCAD, Microsoft Office, Adobe Illustrator, ChemCAD, Bio-Logic software (EC-Lab)		
Publications	1.Medvedev, J.J., Tracey, C., Engelhardt, H.,Steksova Y.P., Krivoshapkina, E., Klinkova, A. Hands-on Electrochemical Reduction of CO2: Understanding Electrochemical Principles through Active Learning/ Journal of Chemical Educationthis link is disabled, 2022, 99(2), стр. 1036–1043		
	2.Medvedev, J.J., Steksova, Y.P., Medvedeva, X.V., Krivoshapkina, E.F., Klinkova, A. Synthesis of dimeric molecules via ag-catalyzed electrochemical homocoupling of organic bromides paired with electrooxidation of urea/ Journal of the Electrochemical Societythis link is disabled, 2020, 167(15), 155521		
	3.lugai, I.A., Steksova, Y.P., Vedyagin, A.A.,Krivoshapkina, E.F., Krivoshapkin, P.V. MgO/carbon nanofibers composite coatings on porous ceramic surface for CO2 capture / Surface and Coatings Technologythis link is disabled, 2020, 400, 126208		
	4. Steksova, Y.P., Berdyugina, I.S., Shibaev, A.A.,Popov, M.V., Bannov, A.G. Effect of synthesis parameters on characteristics of expanded graphite/ Russian Journal of Applied Chemistrythis link is disabled, 2016, 89(10), 1588–1595		
	5.Chushenkov, V.I., Krutskii, Y.L., Kvashina, T.S., Steksova, Y.P.Synthesis of highly dispersed chromium diboride powder by means of boron carbide reduction using nanofiber carbon/ Letters on Materialsthis link is disabled, 2017, 7(1), . 44–48		
	6. Berdyugina, I.S., Steksova, Y.P., Shibaev, A.A., Maksimovskii, E.A., Bannov, A.G. Thermal degradation of epoxy composites based on thermally expanded graphite and multiwalled carbon nanotubes/ Russian Journal of Applied Chemistrythis link is disabled, 2016, 89(9), 1447–1453		