

# Curriculum Vitae



## Personal information

**First name(s) / Surname(s)** Anton Popelka  
**Permanent Work Address** Center for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar  
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**E-mail** anton.popelka@qu.edu.qa  
**Nationality** Slovakia  
**Date of birth** 8<sup>th</sup> December 1983  
**Gender** Male

## Work experience

**Dates** May 2013 - up to the present  
**Occupation or position held** Researcher  
**Main activities and responsibilities** Surface treatment using plasma discharges  
**Name and address of employer** Center for Advanced Materials, The Office of VP for Research, Qatar University, P.O. Box: 2713, Doha-Qatar

**Dates** October 2012 - April 2013  
**Occupation or position held** Researcher  
**Main activities and responsibilities** Plasma treatment  
**Name and address of employer** Department of Composites Materials, Polymer Institute, Slovak Academy of Sciences, Dubravská cesta 9, 845 41 Bratislava 45, Slovakia

## Education and training

**Dates** 2008 - 2012  
**Title of qualification awarded** PhD.  
**Principal subjects/occupational skills covered** Technology of Polymer Materials (Investigation of low-temperature plasma treatment)  
**Name and type of organisation providing education and training** Department of Composite Materials, Polymer Institute, Slovak Academy of Sciences, Dubravská cesta 9, 845 41 Bratislava 45, Slovakia

**Dates** 2003 - 2008  
**Title of qualification awarded** Eng.  
**Principal subjects/occupational skills covered** Materials Engineering (Chemistry and technology processing and rubber making)  
**Name and type of organisation providing education and training** Faculty of Industrial Technology, Alexander Dubcek University of Trencin, I. Krasku 491/30, 020 01 Puchov, Slovakia

## Personal skills and competences

Mother tongue(s) **Slovak**

Other language(s) **English (good), German (basic)**

Social skills and competences The member of Outreach Committee and Student Engagement Committee at Center for Advanced Materials of Qatar University, Qatar.

Technical skills and competences Work with plasma generators (Diffuse Coplanar Surface Barrier Discharge, Capacitively and Inductively Coupled Radio-Frequency Discharge, Surface Energy Evaluation System, Dynamometer, Fourier Transformed Infrared Spectroscopy, Atomic Force Microscopy, Scanning Electron Microscopy, Optical Surface Metrology System, Film Thickness Measuring System, Casting Machine)

Computer skills and competences Operation systems (Microsoft Windows, Linux and Unix), Software (Microsoft Office, CAD Systems, Matlab, Origin)

Other skills and competences Responsible, Reliable, Scrupulous

Driving license Category B1, B, AM

## Annexes

Published Papers in Peer-Reviewed Journals, Chapter in the Book, Published Papers in Other Journals, Published Papers in International Conferences

Published Papers in Peer-Reviewed Journals

SOBOLCIAK, Patrik – POPELKA, Anton – TANVIR, Aisha – AL-MAADEED, Mariam A – ADHAM, Samer – KRUPA, Igor. Materials and technologies for the tertiary treatment of produced water contaminated by oil impurities through nonfibrous deep-bed bedia: a review. *Water*, vol. 12, 3419.

SOBOLČIAK, Patrik – ABDULGADER, Asma – MRLIK, Miroslav – POPELKA, Anton – ABDALA, Ahmed A. – ABOUKHLEWA, Abdelnasser A. – KARKRI, Mustapha – KIEPFER, Hendrik – BART, Hans-Jörg – KRUPA, Igor. Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior. *Polymers*, 2020, vol. 12, 2863.

ABUSRAFA, Aya E. – HABIB, Salma – POPELKA, Anton. Surface Functionalization of a Polyurethane Surface via Radio-Frequency Cold Plasma Treatment Using Different Gases. *Coatings*, 2020, vol. 10, 1067.

POPELKA, Anton – ABDULKAREEM, Asma – MAHMOUD, Abdelrahman A – NASSR, Mohammed G – AL-RUWEIDI, Mahmoud Khatib AA – MOHAMOUD, Khalid J – HUSSEIN, Mohammed K – LEHOCKY, Marian – VESELA, Daniela – HUMPOLÍČEK, Petr – KASAK Peter. Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment. *Surface and Coatings Technology*, 2020, vol. 400, 126216.

MARIA, Hanna J – ADRIAN, Luyt – POPELKA, Anton – KRUPA, Igor – NZIHOU, Ange – AL-MAADEED, Mariam AS Al-Ali – THOMAS Sabu. Eco-friendly foam biocomposites based on cellulose extracted from date palm leaves and low-density polyethylene. *Functional Composites and Structures*, 2020.

ANTUNES, Ana – POPELKA, Anton – ALJAROD, Omar – HASSAN, Mohammad K – LUYT, Adriaan S. Effects of rutile-TiO<sub>2</sub> nanoparticles on accelerated weathering degradation of poly(lactic acid). *Polymers*, 2020, vol. 12, 1743.

ELNABAWY, Eman – HASSANIN, Ahmed H – SHEHATA, Nader – POPELKA, Anton – NAIR, Remya – YOUSEF, Saifallah – KANDAS Ishac. Piezoelectric PVDF/TPU nanofibrous composite membrane: fabrication and characterization. *Polymers*, 2019, vol. 12, 762.

ISLAM, Zeyaul – ALI, Mohamed H – POPELKA, Anton – MALL, Raghvendra – ULLAH, Ehsan – PONRAJ, Janarthanan – KOLATKAR Prasanna R. Probing the fibrillation of lysozyme by nanoscale-

infrared spectroscopy. *Journal of Biomolecular Structure and Dynamics*, 2020, 1-10.

SANTECCHIA, Eleonora – CABIBBO, Marcello – HAMOUDA, Abdel Magid Salem – MUSHARAVATI, Farayi – POPELKA, Anton – SPIGARELLI Stefano. Dry sliding tribological properties of a hard anodized AA6082 aluminum alloy. *Metals*, 2020, vol. 10, 207.

MOGHADDASI, Abdolali – SOBOLČIAK, Patrik – POPELKA, Anton – KRUPA Igor. Separation of water/oil emulsions by an electrospun copolyamide mat covered with a 2D Ti3C2Tx MXene. *Materials*, 2020, vol. 13, 3171.

SALEH, Mohamed – AL-HAJRI, Zainab – POPELKA, Anton – ZAIDI Syed Javaid. Preparation and characterization of alumina HDPE composites. *Materials*, 2020, vol. 13, 250.

POPELKA, Anton – BHADRA, Jolly – ABDULKAREEM, Asma – KASAK, Peter – SPITALSKY, Zdenko – JANG, Se Won – AL-THANI Noora. Fabrication of flexible electrically conductive polymer-based micropatterns using plasma discharge. *Sensors and Actuators A: Physical*, 2020, vol. 301, 111727.

XIONG, Yuan – ZHANG, Xiaoyu – RICHTER, Alexander F, YANXIU, Li – DORING, Aaron – KASÁK, Peter – POPELKA, Anton – SCHNEIDER, Julian – KERSHAW, Stephen V – YOO, Seung Jo – KIM, Jin-Gyu – ZHANG, Wei – ZHENG, Weitao – USHAKOVA, Elena V – FELDMANN, Jochen L – ROGACH Andrey. Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. *ACS nano*, 2019, vol. 13, 12024-12031.

MOGHADDASI, Abdolali – SOBOLČIAK, Patrik – POPELKA, Anton – SADASIVUNI, Kishor Kumar – SPITALSKY, Zdeno – KRUPA Igor. Electrically conductive electrospun polymeric mats for sensing dispersed vegetable oil impurities in wastewater. *Processes*, vol. 7, 906.

TANVIR, Aisha – SOBOLČIAK, Patrik – POPELKA, Anton – MRLIK, Miroslav – SPITALSKY, Zdenko – MICUSIK, Matej – PROKES, Jan – KRUPA Igor. Electrically conductive, transparent polymeric nanocomposites modified by 2D Ti3C2Tx (MXene). *Polymers*, 2019, vol. 11, 1272.

SOBOLČIAK, Patrik – TANVIR, Aisha – POPELKA, Anton – SPITALSKY, Zdeno – MRLIK, Miroslav – KRUPA Igor. Electrospun copolyamide mats modified by functionalized multiwall carbon nanotubes. *Polymer Composites*, 2019, vol. 40, E1451-E1460.

ELNABAWY, Eman – H HASSANAIN, Ahmed – SHEHATA, Nader – POPELKA, Anton – NAIR, Remya – YOUSEF, Saifallah – KANDAS Ishac. Piezoelectric PVDF/TPU nanofibrous composite membrane: Fabrication and characterization. *Polymers*, 2019, vol. 11, 1634.

HABIB, Salma – LEHOCKY, Marian – VESELA, Daniela – HUMPOLÍČEK, Petr – KRUPA, Igor – POPELKA Anton. Preparation of progressive antibacterial LDPE surface via active biomolecule deposition approach. *Polymers*, 2019, vol. 11, 1704.

BHADRA, Jolly – POPELKA, Anton – ABDULKAREEM, Asma – AHMAD, Zubair – TOUATI, Farid – AL-THANI, Noora. Fabrication of polyaniline-graphene/polystyrene nanocomposites for flexible gas sensors. *RSC Advances*, 2019, vol. 9, 12496-12506.

SANTECCHIA, Eleonora – CABIBBO, Marcello – HAMOUDA, Abdel Magid Salem – MUSHARAVATI, Farayi – POPELKA, Anton – SPIGARELLI, Stefano. Investigation of the temperature-related wear performance of hard nanostructured coatings deposited on a s600 high speed steel. *Metals*, 2019, vol. 9, 332.

ABUSRAFA, Aya E – HABIB, Salma – KRUPA, Igor – OUEDERNI, Mabrouk – POPELKA, Anton. Modification of Polyethylene by RF Plasma in Different/Mixture Gases. *Coatings*, 2019, vol. 9, 145.

BHADRA, Jolly – POPELKA, Anton – ABDULKAREEM, Asma – LEHOCKY, Marian – HUMPOLICEK, Petr – AL-THANI, Noora. Effect of humidity on the electrical properties of the silver-polyaniline/polyvinyl alcohol nanocomposites. *Sensors and Actuators A: Physical*, 2019, vol. 288, 47-54.

SOBOLČIAK, Patrik – TANVIR, Aisha – POPELKA, Anton – SPITALSKY, Zdeno – MRLIK, Miroslav –

KRUPA, Igor. Electrospun Copolyamide Mats Modified by Functionalized Multiwall Carbon Nanotubes. *Polymer Composites*, 2018, vol. 40, E1451-E1460.

PONNAMMA, Deepalekshmi – SIVAKUMAR, Velautham – POPELKA, Anton – HUSSEIN, Yasser HA – AL-MAADEED, Mariam Al Ali. Laser induced periodic surface structures on nano metal oxide filled polyvinylidene fluoride nanocomposites. *Optik*, 2019, vol. 176, 372-383.

POPELKA, Anton – SOBOLČIAK, Patrik – MRLÍK, Miroslav – NOGELLOVA, Zuzana – CHODÁK, Ivan – OUEDERNI, MABROUK – AL-MAADEED, Mariam A – KRUPA, Igor. Foamy phase change materials based on linear low-density polyethylene and paraffin wax blends. *Emergent Materials*, 2018, 47-54.

SHEHATA, Nader – KANDAS, Ishac – HASSOUNAH, Ibrahim – SOBOLČIAK, Patrik – KRUPA, Igor – MRLIK, Miroslav – POPELKA, Anton – STEADMAN, Jesse – LEWIS, Randolph. Piezoresponse, mechanical, and electrical characteristics of synthetic spider silk nanofibers. *Nanomaterials*, 2018, 585.

MOSNÁČEK, Jaroslav – OSIČKA, Jozef – POPELKA, Anton – ZAVAHIR, Sifani – BEN-HAMADOU, Radhouane – KASÁK, Peter. Photochemical grafting of polysulfobetaine onto polyethylene and polystyrene surfaces and investigation of long-term stability of the polysulfobetaine layer in seawater. *Polymers for Advanced Technologies*, 2018, vol. 29, 1930-1938.

POPELKA, Anton – KHANAM, P Noorunnisa – ALMAADEED, Mariam Ali. Surface modification of polyethylene/graphene composite using corona discharge. *Journal of Physics D: Applied Physics*, 2018, vol. 51, 105302.

POPELKA, Anton – NOVÁK, Igor – AL-MAADEED, Mariam Ali SA – OUEDERNI, Mabrouk – KRUPA, Igor. Effect of corona treatment on adhesion enhancement of LLDPE. *Surface and Coatings Technology*, 2018, vol. 335, 118-125.

MOSNÁČEK, Jaroslav – POPELKA, Anton – OSICKA, Josef – FILIP, Jaroslav – ILCIKOVA, Marketa – KOLLÁR, Jozef – YOUSAF, Ammar B – BERTOK, Tomas – TKAC, Jan – KASÁK, Peter. Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. *Journal of colloid and interface science*, 2018, vol. 512, 511-521.

NOVÁK, Igor – VALENTIN, Marian – ŠPITALSKÝ, Zdeno – POPELKA, Anton – SESTAK, Jozef – KRUPA, Igor. Superhydrophobic Polyester/Cotton Fabrics Modified by Barrier Discharge Plasma and Organosilanes. *Polymer-Plastics Technology and Engineering*, 2018, vol. 57, 440-448.

SOBOLČIAK, Patrik – TANVIR, Aisha – POPELKA, Anton – MOFFAT, Jonathan – MAHMOUD, Khaled A. – KRUPA, Igor. The preparation, properties and applications of electrospun co-polyamide 6,12 membranes modified by cellulose nanocrystal. *Materials & Design*, 2017, vol. 132, 314-323.

SOBOLČIAK, Patrik – POPELKA, Anton – MIČUŠÍK, Matej – SLÁVIKOVÁ, Monika – KRUPA, Igor – MOSNÁČEK, Jaroslav – TKÁČ, Ján – LACÍK, Igor – KASÁK, Peter. Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. *Journal of Colloid and Interface Science*, 2017, vol. 500, 294-303.

SOBOLČIAK, Patrik – ALI, Adnan – HASSAN, Mohammad K. – HELAL, Mohamed I. – TANVIR, Aisha – POPELKA, Anton – AL-MAADEED, Mariam A. – KRUPA, Igor – MAHMOUD Khaled A. 2D Ti3C2Tx (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. *PLoS ONE*, vol. 12, pp. e0183705.

FILIP, Jaroslav – POPELKA, Anton – BERTOK, Tomas – HOLAZOVA, Alena – OSICKA, Josef – KOLLAR, Jozef – ILCIKOVA, Marketa – TKAC, Jan – KASAK, Peter. pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. *Langmuir*, 2017, vol. 33, 6657-6666.

TAQA, Ala G Abu – AL-RUB, Rashid K Abu – SENOUCI, Ahmed – POPELKA, Anton – AL-NUAIMI, Nasser – BANI-HANI, Khaldoun A. Experimental Prediction of the Elastic Properties of Nanocomposite Cementitious Materials Based on Nanoindentation Measurements. *Science of Advanced Materials*, 2017, vol. 9 (5), 830-846.

NOVÁK, Igor – VALENTIN, Marian – ŠPITALSKÝ, Zdeno – POPELKA, Anton – SESTAK, Jozef – KRUPA, Igor. Superhydrophobic Polyester/Cotton Fabrics Modified by Barrier Discharge Plasma and Organosilanes. *Polymer-Plastics Technology and Engineering*, 2017, vol. 57, 440-448.

KHANAM, P. Noorunnisa – POPELKA, Anton – ALEJJI, Maryam – AL-MAADEED, Mariam. Biotechnological Production Process and Life Cycle Assessment of Graphene. *Journal of Nanomaterials*, 2017, 5671584.

SHAKOOR, Abdul – WAWARE, Umesh – KAHRAMAN, Ramazan – POPELKA, Anton – YUSUF, Moinuddin. Corrosion Behavior of Electrodeposited Ni-B Coatings Modified with SiO<sub>2</sub> Particles. *International Journal of Electrochemical Science*, 2017, vol. 12, 4384-4391.

POPELKA, Anton – Krupa, Igor – NOVÁK, Igor – AL-MAADEED, Mariam Ali S A – OUEDERNI, Mabrouk. Improvement of aluminum/polyethylene adhesion through corona discharge. *Journal of Physics D: Applied Physics*, 2017, vol. 50, 035204.

BUCEK, Andrej – POPELKA, Anton – ZAHORANOVA, Anna – KOVACIK, Dusan – NOVAK, Igor – CERNAK, Mirko. Acrylic Acid Plasma Treatment of Polypropylene Nonwoven Fabric. *Fibres & Textiles in Eastern Europe*, 2016, vol. 24, 161-164.

NOVÁK, Igor – SEDLIAČIK, Ján – GAJTANSKÁ, Milada – SCHMIDTOVÁ, Jarmila – POPELKA, Anton – BEKTHA, Pavlo – KRYSTOFIAK, Tomasz – PROSZYK, Stanislaw – ŽIGO, Ondrej. Effect of barrier plasma pre-treatment on polyester films and their adhesive properties on oak wood. *BioResources*, 2016, vol. 11, 6335-6345.

OSICKA, Jozef – ILČÍKOVÁ, Markéta – POPELKA, Anton – FILIP, Jaro – BERTOK, Tomáš – TKÁČ, Ján – KASÁK, Peter. Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. *Langmuir*, 2016, vol. 32, 5491-5499.

POPELKA, Anton – NOVÁK, Igor – LEHOCKÝ, Marián – BÍLEK, František – KLEINOVÁ, Angela – MOZETIČ, Miran – ŠPÍRKOVÁ, Milena – CHODÁK, Ivan. Antibacterial treatment of LDPE with halogen derivatives via cold plasma. *EXPRESS Polymer Letters*, 2015, vol. 9, 402-411.

BAHGAT RADWAN, Ahmed – SHAKOOR, Abdul – POPELKA, Anton. Improvement in Properties of Ni-B Coatings by the Addition of Mixed Oxide Nanoparticles. *International Journal of Electrochemical Science*, 2015, vol. 10, 7548-7562.

NOVÁK, Igor – POPELKA, Anton – ŠPITALSKÝ, Zdeno – MIČUŠÍK, Matej – OMASTOVÁ, Mária – VALENTIN, Marian – SEDLIAČIK, Ján – JANIGOVÁ, Ivica – KLEINOVÁ, Angela – ŠLOUF, Miroslav. Investigation of beech wood modified by radio-frequency discharge plasma. *Vacuum*, 2015, vol. 119, 88-94.

ASADINEZHAD, Ahmad - NOVÁK, Igor - LEHOCKÝ, Marián - BÍLEK, František - VESEL, Alenka - JUNKAR, Ita - SÁHA, Peter - POPELKA, Anton. Polysaccharides coatings on medical-grade PVC: A probe into surface characteristics and the extent of bacterial adhesion. *Molecules*, 2010, vol. 15, pp. 1007-1027. (2.386 - IF2011). ISSN 1420-3049. **Molecules Best Paper Award 2014** (McPHEE Derek J. *Molecules Best Paper Award 2014*. *Molecules*, 2014, vol. 19, 1375-1377.

NOVÁK, Igor – POPELKA, Anton – VALENTÍN, Marian – CHODÁK, Ivan – ŠPÍRKOVÁ, Milena – TÓTH, András – KLEINOVÁ, Angela – SEDLIAČIK, Ján – LEHOCKÝ, Marián – Marônek, Milan. Surface Behavior of Polyamide 6 Modified by Barrier Plasma in Oxygen and Nitrogen. *International Journal of Polymer Analysis and Characterization*, 2014, vol. 19, 31-38.

POPELKA, Anton - KRONEK, Juraj - NOVÁK, Igor - KLEINOVÁ Angela - MIČUŠÍK Matej – ŠPÍRKOVÁ, Milena – OMASTOVÁ, Mária. Surface modification of low-density polyethylene with poly(2-ethyl-2-oxazoline) using a low-pressure plasma treatment. Vacuum, 2014, vol. 100, 53-56.

NOVÁK, Igor - POPELKA, Anton - LUYT, Riaan Stephanus - CHEHIMI, Mohamed Mehdi - ŠPÍRKOVÁ, Milena - JANIGOVÁ, Ivica - KLEINOVÁ, Angela - STOPKA, Pavel - ŠLOUF, Miroslav - VANKO, Vladimír - CHODÁK, Ivan - VALENTIN, Marián. Adhesive properties of polyester treated by cold plasma in oxygen and nitrogen atmospheres. Surface and Coatings Technology, 2013, vol. 235, 407-416.

NOVÁK, Igor - ŠTEVIAR, Marian - POPELKA, Anton - CHODÁK, Ivan - MOSNÁČEK, Jaroslav - ŠPÍRKOVÁ, Milena - JANIGOVÁ, Ivica - KLEINOVÁ, Angela - SEDLIAČIK, Ján - ŠLOUF, Miroslav. Surface Modification of Polyethylene by Diffuse Barrier Discharge Plasma. Polymer Engineering and Science, 2013, vol. 53, 516-523.

POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, Marián - JUNKAR, Ita - MOZETIČ, Miran - KLEINOVÁ, Angela - JANIGOVÁ, Ivica - ŠLOUF, Miroslav - BÍLEK, František - CHODÁK, Ivan. A new route for chitosan immobilization onto polyethylene surface. Carbohydrate Polymers, 2012, vol. 90, 1501-1508.

POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, Marián - CHODÁK, Ivan - SEDLIAČIK, Ján - GAJTANSKA, Milada - SEDLIAČIKOVÁ, Mariana - VESEL, Alenka - JUNKAR, Ita - KLEINOVÁ, Angela - ŠPÍRKOVÁ, Milena - BÍLEK, František. Anti-bacterial treatment of polyethylene by cold plasma for medical purposes. Molecules, 2012, vol. 17, 762-785.

NOVÁK, Igor - POPELKA, Anton - KRUPA, Igor - CHODÁK, Ivan - JANIGOVÁ, Ivica - NEDELČEV, Tomáš - ŠPÍRKOVÁ, M. - KLEINOVÁ, Angela. High-density polyethylene functionalized by cold plasma and silanes. Vacuum, 2012, vol. 86, 2089-2094.

#### Patents

KRUPA, Igor, AL-MADEED, Mariam, POPELKA, Anton, SOBOLCIAK, Patrik, MRLIK, Miroslav. Insulating Plastic Foams Based on Polyolefins. United States Patent 17/4/2017.

#### Research Projects

Development of Novel Polymeric Adsorbent Media for Produced Water Treatment. The National Priorities Research Program (NPRP12S-0311-190299), Funder: QNRF. Duration: 2020-2023. Position: Co-PI.

Glycan profile analysis and enrichment towards diagnostics of breast cancer using advanced detection of cancer biomarkers. The International Research Collaboration Co-Fund (IRCC-2020-004). Funder: Qatar University. Duration: 2020-2021. Position: Co-PI.

Polyethylene-based filtration media for a separation of oily impurities from produced water. The Collaborative Grant (QUCG-CAM-20/21-3). Funder: Qatar University. Duration: 2020-2021. Position: Lead PI.

Highly porous, hybrid electrospun membranes for boron ions capture from desalinated water. The Collaborative Grant (QUCGCAM- 20/21-4). Funder: Qatar University. Duration: 2020-2021. Position: Co-PI.

Anti-biofouling modification of polymer surfaces using liquid-infused natural oils. The Junior Scientists Research Experience Program (JSREP07-022-3-010), Funder: QNRF. Duration: 2016-2019. Position: Lead PI.

Development of medical scaffolds with enhanced infection resistance using electrospinning/plasma technology. The Undergraduate Research Experience Program (UREP22-076-1-011), Funder: QNRF. Duration: 2018-2019. Position: Lead PI.

Development of advanced biodegradable polymer nanocomposites with titania using plasma technology. The Collaborative Grant (QUCG-CAM-19/20-3), Funder: Qatar University. Duration: 2019-2021. Position: Co-PI.

Advanced techniques for coatings towards prevention of corrosion and fouling. The Collaborative Grant (QUUG-CAM-2017-1), Funder: Qatar University. Duration: 2017-2018. Position: Co-PI.

Flexible conductive micro-pattern preparation using plasma discharge. The Collaborative Grant QUUG-CAM-CAM-15\16-1, Funder: Qatar University. Duration: 2015-2016. Position: Co-PI.

Improvement of Tetra Pak containers production by plasma discharge. The Undergraduate Research Experience Program (UREP15 - 071 - 2 - 025), Funder: QNRF. Duration: 2014-2015. Position: Lead PI.