

Curriculum Vitae



Personal information

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Nationality Slovakia
Date of birth 8th December 1983
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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 Faculty of Industrial Technology, Alexander Dubcek University of Trencin, I. Krasku 491/30, 020 01

providing education and training	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, Surface Metrology System
Computer skills and competences	Operation systems (Microsoft Windows, Linux and Unix, Software), Software (Microsoft Office, CAD Systems, Matlab, Origin)
Other skills and competences	Responsible, Reliable, Scrupulous
Driving licence	Category B1, B, AM
Additional information	Prof. Igor Krupa, QAPCO Polymer Chair, Center for Advanced Materials, Office of VP for Research, Qatar University P.O. Box: 2713 Doha, Qatar, Tel: 00974 77789361, E-mail: igor.krupa@qu.edu.qa
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	<p><u>POPELKA, Anton</u>, NOVÁK, Igor, LEHOCKÝ, Marián, BÍLEK, František, KLEINOVÁ, Angela, MOZETIČ, Miran, ŠPÍRKOVÁ, Milena, CHODÁK, Ivan. Antibacterial treatment of LDPE with halogen derivatives via cold plasma. In eXPRESS Polymer Letters, 2015, vol. 9, pp. 402–411 (2.953 – IF2013). ISSN: 1788-618X.</p> <p>BAHGAT RADWAN, Ahmed, SHAKOOR, Abdul, <u>POPELKA, Anton</u>. Improvement in Properties of Ni-B Coatings by the Addition of Mixed Oxide Nanoparticles. International Journal of Electrochemical Science, 2015, vol. 10, pp. 7548–7562 (1.500 – IF2014). ISSN 1452-3981.</p> <p>NOVÁK, Igor, <u>POPELKA, Anton</u>, 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. In Vacuum, 2015, vol. 119, pp. 88-94 (1.426 - IF2013). ISSN: 0042-207X.</p> <p>ASADINEZHAD, Ahmad - NOVÁK, Igor - LEHOCKÝ, Marián - BÍLEK, František - VESEL, Alenka - JUNKAR, Ita - SÁHA, Peter - <u>POPELKA, Anton</u>. Polysaccharides coatings on medical-grade PVC: A probe into surface characteristics and the extent of bacterial adhesion. In 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. In Molecules, 2014, vol. 19, pp. 1375-1377). <i>Cited 28 times</i></p> <p>NOVÁK, Igor – <u>POPELKA, Anton</u> – 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. In International Journal of Polymer Analysis and Characterization, 2014, vol. 19, pp. 31-38 (1.233 - IF2012). ISSN: 1023666X.</p> <p><u>POPELKA, Anton</u> - 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. In Vacuum, 2014, vol. 100, pp. 53-</p>

56 (1.530 - IF2012). ISSN: 0042207X.

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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. In Polymer Engineering and Science, 2013, vol. 53, pp. 516-523 (1.243 - IF2012). ISSN 00323888.

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Chapter in the Book

NOVÁK, Igor - POPELKA, Anton - CHODÁK, Ivan - SEDLIAČIK, Ján. Study of adhesion and surface properties of modified polypropylene. In Polypropylene, Croatia : InTech, 2012, Chapter 9, pp. 125-160. ISBN 978-953-51-0636-4.

NOVÁK, Igor - POPELKA, Anton - MATYAŠOVSKÝ, Jan - JURKOVIČ, Peter - LEHOČKÝ, Marián - VESEL, Alenka - ŠOLTÉS, Ladislav - ASADINEZHAD, Ahmad. Antibacterial polyvinylchloride pre-treated by barrier plasma. In News in chemistry, biochemistry and biotechnology : state of the art and prospects of development. Editors: Gennady E. Zaikov, Grzegorz Nyszko, Larisa P. Krylova and Sergei D. Varfolomeev. - Hauppauge : Nova Science Publishers, 2014, Chapter 3, p. 35-43. ISBN: 978-1631172731.

Published Papers in Other Journals

POPELKA, Anton - NOVÁK, Igor - KRONEK, Juraj - KLEINOVÁ, Angela - CHODÁK, Ivan. Polyethylene surface modified by poly(oxazolines) and by coplanar barrier discharge plasma. In Chemické listy, 2009, vol. 103, no. S, p.121 (0.593 - IF2008). ISSN 0009-2770.

NOVÁK, Igor - CHODÁK, Ivan - ŠPÍRKOVÁ, Milena - ELYASHEVICH, Galina - OLIFIRENKO, Alexej - POPELKA, Anton - KLEINOVÁ, Angela - POLLÁK, Vladimír. Polyethylene membranes hydrophilization by atmospheric low-temperature plasma. In Chemické listy, 2011, vol. 105, no. S, pp. s357-s358 (0.620 - IF2010). ISSN 0009-2770.

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ŠTEVIAR, Marián - NOVÁK, Igor - POPELKA, Anton - KLEINOVÁ, Angela. Využitie polypropylénu modifikovaného dielektrickým povrchovým koplanárnym bariérovým výbojom. In Polymery 2010 : 6th Czech-Slovak Conference: Conference Programme brochure : Liblice, October 4 - 7, 2010. - Praha : Institute of Macromolecular Chemistry of Academy of Sciences of the Czech Republic, 2010, pp. 48 - 49, L-14. ISBN 978-80-85009-64-4.

ASADINEZHAD, Ahmad - NOVÁK, Igor - LEHOCKÝ, Marián - BÍLEK, František - VESEL, Alenka - JUNKAR, Ita - SÁHA, Petr - POPELKA, Anton. Plasma-assisted binding of polysaccharides on medical-grade PVC. In ICAPT 2010 : 3rd International Conference on Advanced Plasma Technologies : Lake Bohinj, Slovenia, June 14 - 16, 2010 : conference proceedings. - Ljubljana, Slovenia : Slovenian Society for Vacuum Technique, 2010, pp. 30 - 32. ISBN 978-961-90025-9-9.

NOVÁK, Igor - LEHOCKÝ, Marián - POPELKA, Anton - CHODÁK, Ivan - VESEL, Alenka - JUNKAR,

Ita - KLEINOVÁ, Angela. Surface properties of antibacterially pre-treated medical-grade polyvinylchloride. In CCT 2011 : 42nd International conference on coatings technology : Pardubice, Czech Republic, May 16 - 18, 2011 : conference proceedings. - Pardubice, Czech Republic : University of Pardubice, 2011, pp. 3 - 12. ISBN 978-80-7395-399-7.

NOVÁK, Igor - CHODÁK, Ivan - POLLÁK, Vladimír - POPELKA, Anton - ŠPÍRKOVÁ, M. - JASENÁK, J. Skúmanie poly(etylén tereftalátu) modifikovaného atmosférickou plazmou. In Innovative technologies in welding: Prospective technologies and materials for technical applications : Kálnica, December 9 - 10, 2010. - Trnava, Slovak Republic : Inweld Consulting, 2010, pp. 97 - 100. ISBN 978-80-970321-1-1.

NOVÁK, Igor - LEHOCKÝ, Marián - POPELKA, Anton - CHODÁK, Ivan - VESEL, Alenka - JUNKAR, Ita - KLEINOVÁ, Angela - MATYAŠOVSKÝ, Ján. Surface modification of medical-grade polyvinylchloride by barrier discharge plasma. In Advances in the manufacture and use of adhesives in Wood Industry : XXth symposium : Proceedings of original scientific papers : Technical University in Zvolen, 2011, pp. 128 - 136. ISBN 978-80-228-2248-0.

NOVÁK, Igor - LEHOCKÝ, Marián - POPELKA, Anton - CHODÁK, Ivan - SEDLIAČIK, Ján - VESEL, Alenka - JUNKAR, Ita - KLEINOVÁ, Angela - JURKOVIČ, Peter. Antibacterial modification of PVC by atmospheric discharge plasma. In Annals of Warsaw University of Life Sciences - SGGW : Forestry and Wood Technology. - Warsaw, Poland : Warsaw University of Life Sciences Press, 2011, no. 75, pp. 148 - 154. ISSN 1898-5912.

NOVÁK, Igor - VANKO, Vladimír - PREŤO, Jozef - CHODÁK, Ivan - POPELKA, Anton - SEDLIAČIK, Ján - POLLÁK, Vladimír. Modification of wood by atmospheric discharge plasma. In Transfer of Innovation: specialized electronic magazine focusing on scientific and technical outputs grant tasks and business innovation strategies : Surface Engineering - Interantikor 2011 : International Conference : Košice, November 10, 2011, no. 20, pp. 33 - 35. ISSN 1337-7094.

POPELKA, Anton - NOVÁK, Igor - CHODÁK, Ivan - JANIGOVÁ, Ivica - ŠTEVIAR, Marián - LEHOCKÝ, M. Antibakteriálna úprava nízkohustotného polyetylénu pomocou plazmového výboja pri atmosférickom tlaku. In Innovative technologies in welding: Prospective technologies and materials for technical applications : Kálnica, 9. - 10. 12. 2010. - Trnava, Slovak Republic : Inweld Consulting, 2010, pp. 101 - 104. ISBN 978-80-970321-1-1.

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POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, M. - KLEINOVÁ, Angela - ŠPÍRKOVÁ, M. - CHODÁK, Ivan. Polyethylene treated by selected antibacterial agent using cold plasma. In Polymers on the Odra river : Opole, Poland, 6 - 7 July 2011 : book of abstracts. - Zabrze, Poland : Centre of Polymer and Carbon Materials, PAS Zabrze & Opole University, 2011, p. 16.

POPELKA, Anton - NOVÁK, Igor - LEHOCKÝ, Marián - KLEINOVÁ, Angela - ŠPÍRKOVÁ, Milena - CHODÁK, Ivan. Polyetylén upravený vybranými antibakteriálnymi látkami s využitím nízkoteplotnej plazmy. In ChemZi : Slovak journal of chemistry to chemical education, research and industry : 63rd Congress of chemists : Tatranské Matliare, September 5 - 9, 2011, vol. 7, no. 13, p. 109. ISSN 1336-7242.

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