

Resume

Yuri Roiter, Ph.D.

A. Education

<i>Institution & Location</i>	<i>Degree / Certificates</i>	<i>Year Conferred</i>	<i>Field of Study</i>
Lviv Polytechnic National University (LPNU) , Lviv, Ukraine	M.S. Chemical Engineering	1993	Polymer Engineering / Manufacture. Thesis title: "Peroxide modification of fillers for polymer composites"
Lviv Polytechnic National University (LPNU) , Lviv, Ukraine	Non-degree postgraduate program	1996	Polymer Science / Research trainee
University of Ulm, Ulm, Germany	Certificate of the Scanning Probe Microscopy Course	1999	Scanning Probe Microscopy (including AFM, STM, SFM)
The Supreme Certification Committee of Ukraine, Kyiv, Ukraine; LPNU, Lviv, Ukraine	Ph.D. in Chemistry	2003	Polymer Science. Dissertation title: "Synthesis of grafted peroxide copolymers for polymer blend compatibilization"

B. Awards and Academic Honors

- Co-Winner of Bruker Nano (former Veeco Instruments) Scanning Probe Microscopy Calendar contest 2011 and Veeco Scanning Probe Microscopy Calendar contests 2006, 2007, 2008, 2009, and 2010.
- NSF-NATO Postdoctoral fellowship, USA/International. "Single Polyelectrolyte Molecule in External Electric Field" Award No: DGE-0411649. Time Period: October 1, 2004 - September 30, 2005.
- Stipend of Cabinet of Ministers of Ukraine for Young Scientists, 2004.
- Grant of German Saxony Ministry of Art and Education for scientific collaboration in the field of polymer science with Institute of Polymer Research, Dresden, Germany, October 10, 2001 - December 5, 2001.
- Internships (atomic force microscopy courses and studies) in the Univeristy of Ulm, Ulm, Germany, 1998, 1999.
- Publication of the most accessed articles (see page 9).
- Supervision of the scientific work of undergraduate, graduate, and PhD students.

C. Memberships

- American Chemical Society, USA.
- Material Research Society, USA.
- American Vacuum Society, USA.

D. Languages

Ukrainian (native), Russian (native), fluent English.

E. Employment and Experience

- Collaborative visits to Bruker Nano (former Veeco Instruments), Santa Barbara, CA, August & November, 2010
- Research Assistant Professor, Clarkson University, NY, May 2007 - Present.
- Research Associate, Clarkson University, NY, October 2004 - May 2007.
- Staff scientist, Lviv Polytechnic National University, Ukraine, April 2003 - October 2005.
- Scientist, Lviv Polytechnic National University, Ukraine, November 1996 - March 2003.

F. Research Accomplishments

Yuri Roiter is the first scientist in the world, who:

- performs AFM studies of Nafion single molecules on different substrates (HOPG, mica, Si-wafers) under different liquids (ethanol, water, ethanol-water mixtures at pH from 1 to ~5.5; aliphatic solvents) *in situ* and in air under the project financed by General Motors (Fuel Cell Activities);
- has visualized *thin* (~0.4 nm) and *short* (20-200 nm length) flexible polymer molecules under liquid in subtle details (see AFM images below) (NSF-NATO grant); (See also <http://en.wikipedia.org/wiki/Polymer>, http://en.wikipedia.org/wiki/Single-molecule_experiment & http://en.wikipedia.org/wiki/Atomic_force_microscope#Tapping_Mode)
- has performed AFM study of molecule movement under water in electric field (NSF-NATO grant);
- determined the formation of pores in lipid bilayer around 1.2 to 22 nm nanoparticles and quantum dots via the *in situ* AFM visualization (Corning Inc.); (See http://en.wikipedia.org/wiki/Lipid_bilayer#Characterization_methods);

Other selected scientific works of Yuri Roiter performed recently include:

- fabrication and study of *thin surface polymer brushes/films and hybrid surface brushes/films* under liquid medium using an AFM and Scanning Force Microscopy (SFM with quantitative analysis of force-distance curves) (includes works performed for NSF, U.S. Army research office, and National Textile Center grants);
- AFM study of *ABC terpolymers and their micelles* (collaborative work with University of Patras, Greece).



AFM images of single thin flexible polymer molecules under liquid (aqueous medium) of different pH. Molecules are 0.4 nm thick in the monolayer, and 20-200 nm long. Transition from extended coils to collapsed globules is shown. Corresponding research results were published in *Journal of the American Chemical Society* (Roiter, Y.; Minko, S. *Journal of the American Chemical Society* **2005**, *127*(45), 15688-15689), presented in Veeco Calendar 2006 and Veeco Nanoheater (Veeco Instruments (now Bruker Nano), USA, is a world leading manufacturer of scanning probe (including atomic force) microscopy instruments)

Several times, Yuri Roiter modified the construction of atomic force microscope (MultiMode, Veeco) to achieve his research goals. As main modifications, he designed, built and added:

- the thermal stage to adjust and maintain the temperature of the sample under liquid in atomic force microscope between ambient conditions and 60 °C;
- the electrodes to the microscope fluid cell to study the movement of single molecules on solid surface under liquid.

Techniques used for the research work starting from preparation of samples through the work using a corresponding equipment, and finishing with the processing and interpretation of the results obtained:

- Scanning Probe Microscopy (SPM) constituents: Atomic Force Microscopy (AFM) in PeakForce Tapping/QNM, tapping, pulse-force, and contact modes under air atmosphere and liquids (aqueous, ethanol, aliphatic media); and Scanning Force Microscopy (SFM) including the acquisition and processing of force-distance curves under air atmosphere and aqueous media; SFM using the colloidal particles attached to AFM probes/cantilevers. Studies of both soft matter and solid materials. Certificate of attending the Scanning Probe Microscopy Intensive Course in University of Ulm (Germany) was received on July 23rd, 1999;
- Ellipsometry and multilayer ellipsometric mapping;
- ζ -Potential (Zeta-potential) measurements on the surface of macroscopically flat solids and colloids;
- Dynamic light scattering;
- Quartz crystal microbalance (QCM) measurements;
- Measurement of surface free energy components via contact angles using the Owens and Wendt's method;
- FTIR and UV spectroscopy;
- High performance liquid chromatography;
- Optical confocal, fluorescent, and microscopy in polarized light distinguishing optically active objects;
- Full second-order multi-factorial orthogonal experiment design and performance;
- Turbidimetry and polymer fractionating;
- Amperometric iodometry;
- Polymer blending;
- Polymerization and various copolymerization and grafting reactions.

Techniques Yuri Roiter used when he prepared the samples and processed and interpreted the results only:

- FTIR-ATR spectroscopy;
- ^1H NMR and ^{13}C NMR spectroscopy;
- X-Ray reflectivity;
- Scanning and transmission electron microscopy;
- Polymer rheology (viscoelastic properties) investigation.

Previous scientific interests of Yuri Roiter include:

- polymer and solid surface modification;
- polymer blends;
- polymer colloidal systems;
- studies of peroxide compounds.

Participation in research grant and contracts:

- Contract for General Motors Corporation "Interaction of Nafion with C substrates", (2008-present). The research is performed in Clarkson University, Potsdam, NY, USA.
- Contract on request of Corning Inc. (Corning, NY, USA), "Formation of Supported Lipid Bilayers (SLB) on Physically Textured Silica Substrates", (2005-2007). The research was performed in Clarkson University, Potsdam, NY, USA.
- Additionally participated the projects by the performance of AFM and SFM studies under liquid media for grants by National Science Foundation (DMR-0602528 "Materials World Network: Design of Responsive Materials via Mixed Polymer Brush Approach (Continuing Grant)"), U.S. Army research office (W911NF-05-1-0339 "Smart Responsive Nanocomposites for Soldier Protection"), and National Textile Center (C04-CL06 "Ultrahydrophobic Fibers: Lotus Approach") (2005-2007).
- NSF-NATO grant "Single Polyelectrolyte Molecule in External Electric Field" (DGE-0411649) (2004-2005). The research was performed in Clarkson University, Potsdam, NY, USA.
- Grant of Science and Technology Center, Ukraine (STCU) #1447 "The New Micellar Techniques for the Fabrication of Magnetic, Electroconductive and Antiradiation Polymer Colloidal Systems & Control of their Properties" (2000-2002). Financed by the governments of different countries including the USA (<http://www.stcu.int>). The research was performed at Lviv Polytechnic National University, Lviv, Ukraine.
- Contract on request of the Sherwin-Williams Company (Cleveland, OH, USA) "Latex coating with adhesion to plastics" (2000). The research was performed at Lviv Polytechnic National University, Lviv, Ukraine.

During 1997-2004, Yuri also participated in 5 scientific research projects in Lviv Polytechnic National University in Ukraine financed by Ukrainian Ministry of Education and Science. Project topics included studies of homopolymers, graft and random copolymers, polyperoxides, polymer blends, composite and biocompatible materials.

G. Publications

Chapters in books:

1. Motornov, M.; Roiter, Y.; Tokarev, I.; Minko, S. **Colloidal Systems on the Nanometer Length Scale** In *Handbook of Surface and Colloid Chemistry*, Third Edition; Birdi, K. S., Ed.; CRC Press: Boca Raton, **2008**; Ch. 5, pp 131-154. Details
2. Minko, S.; Motornov, M.; Roiter, Y.; Tokarev, I. **Nanostructured Functional Polymer Assemblies** In *Polymeric Nanostructures and Their Applications*; Nalwa, H. S., Ed.; American Scientific Publishers: Stevenson Ranch, California, **2007**; Vol. 1, Ch. 2, pp. 61-122. Details

Articles:

1. Roiter, Y.; Minko, I.; Nykypanchuk, D.; Gang, O.; Tokarev, I.; Minko, S. **Mechanism of plasmonic response of noble metal nanoparticles actuated by responsive polymer brush**. AFM study prepared for publication in *Journal of the American Chemical Society* **2011**.
2. Koestner, R.; Roiter, Y.; Kozhinova, I.; Minko, S. **AFM Imaging of Adsorbed Nafion Polymer on Mica and Graphite at Molecular Level**. *Langmuir* **2011**, ACS Just Accepted Manuscript (Published on Web: July 7, 2011). Details
3. Koestner, R.; Roiter, Y.; Kozhinova, I.; Minko, S. **The Effect of Local Charge Distribution on Graphite Surface on Nafion Polymer Adsorption as Visualized at Molecular Level**. *Journal of Physical Chemistry C* **2011**, ACS Just Accepted Manuscript (Published on Web: July 1, 2011). Details
4. Iatridi, Z.; Roiter, Y.; Stavrouli, N.; Minko, S.; Tsitsilianis, C. **Phase behavior and self-assembly of P_{Sn}(P2VP-*b*-PAA)_n multiarmed multisegmented star terpolymers with ampholytic arms**. *Polymer Chemistry* **2011**, RSC Advance Article (Published on Web: June 29, 2011). Details
5. Varvarenko, S.; Voronov, A.; Samaryk, V.; Tarnavchyk, I.; Roiter, Y.; Minko, S.; Nosova, N.; Kohut, A.; Voronov, S. **Polyolefin surface activation by grafting of functional polyperoxide**. *Reactive and Functional Polymers* **2011**, 71(2), 210-218. Details
6. Roiter, Y.; Trotsenko, O.; Tokarev, V.; Minko, S. **Single Molecule Experiments Visualizing Adsorbed Polyelectrolyte Molecules in the Full Range of Mono- and Divalent Counterion Concentrations**. *Journal of the American Chemical Society* **2010**, 132(39), 13660–13662. Details

7. Trotsenko, O.; [Roiter, Y.](#); Minko, S. **Structure of salted and discharged globules of hydrophobic polyelectrolytes adsorbed from aqueous solutions.** *Journal of Polymer Science, Part B: Polymer Physics* **2010**, *48*(14), 1623-1627. [Details](#)
8. Motornov, M.; [Roiter, Y.](#); Tokarev, I.; Minko, S. **Stimuli-responsive nanoparticles, nanogels and capsules for integrated multifunctional intelligent systems.** *Progress in Polymer Science* **2010**, *35*(1-2), 174-211. [Details](#)
9. Sheparovych, R.; [Roiter, Y.](#); Yang, J.; Kopeček, J.; Minko, S. **Stimuli-Responsive Properties of Peptide-Based Copolymers Studied via Directional Growth of Self-Assembled Patterns on Solid Substrate.** *Biomacromolecules* **2009**, *10*(7), 1955-1961. [Details](#)
10. [Roiter, Y.](#); Ornatska, M.; Rammohan, A. R.; Balakrishnan, J.; Heine, D. R.; Minko, S. **Interaction of Lipid Membrane with Nanostructured Surfaces.** *Langmuir* **2009**, *25*(11), 6287–6299. [Details](#)
11. Gopishetty, V.; [Roiter, Y.](#); Tokarev, I.; Minko, S. **Multiresponsive Biopolyelectrolyte Membrane.** *Advanced Materials* **2008**, *20*(23), 4588-4593. [Details](#)
12. [Roiter, Y.](#); Ornatska, M.; Rammohan, A. R.; Balakrishnan, J.; Heine, D. R.; Minko, S. **Interaction of Nanoparticles with Lipid Membrane.** *Nano Letters* **2008**, *8*(3), 941-944. [Details](#)
13. Tsitsilianis, C.; [Roiter, Y.](#); Katsampas, I.; Minko, S. **Diversity of Nanostructured Self-Assemblies from a pH-Responsive ABC Terpolymer in Aqueous Media.** *Macromolecules* **2008**, *41*(3), 925-934. [Details](#)
14. [Roiter, Y.](#); Minko, S. **Adsorption of polyelectrolyte vs. surface charge: in situ single molecule AFM experiments on similarly, oppositely and heterogeneously charged surfaces.** *Journal of Physical Chemistry B* **2007**, *111*(29), 8597-8604. [Details](#)
15. Motornov, M.; Sheparovych, R.; Tokarev, I.; [Roiter, Y.](#); Minko, S. **Nonwettable Thin Films from Hybrid Polymer Brushes Can Be Hydrophilic.** *Langmuir* **2007**, *23*(1), 13-19. [Details](#)
16. [Roiter, Y.](#); Jaeger, W.; Minko, S. **Conformation of single polyelectrolyte chains vs. salt concentration: Effects of sample history and solid substrate (Invited paper).** *Polymer* **2006**, *47*(7), 2493-2498. [Details](#)
17. [Roiter, Y.](#); Minko, S. **AFM Single Molecule Experiments at the Solid-Liquid Interface: In Situ Conformation of Adsorbed Flexible Polyelectrolyte Chains.** *Journal of the American Chemical Society* **2005**, *127*(45), 15688-15689. [Details](#)
18. Lupitskyy, R.; [Roiter, Y.](#); Tsitsilianis, C.; Minko, S. **From Smart Polymer Molecules to Responsive Nanostructured Surfaces.** *Langmuir* **2005**, *21*(19), 8591-8593. [Details](#)
19. Minko, S.; [Roiter, Y.](#) **AFM single molecule studies of adsorbed polyelectrolytes.** *Current Opinion in Colloid & Interface Science* **2005**, *10*(1-2), 9-15. [Details](#)
20. Katsampas, I.; [Roiter, Y.](#); Minko, S.; Tsitsilianis, C. **Multifunctional Stimuli Responsive ABC Terpolymers: From Three-Compartment Micelles to Three-Dimensional Network.** *Macromolecular Rapid Communications* **2005**, *26*(17), 1371-1376. [Details](#)
21. Voronov, S.; Samaryk, V.; [Roiter, Y.](#); Pionteck, J.; Pötschke, P.; Minko, S.; Tokarev, I.; Varvarenko, S.; Nosova, N., **Compatibilization of polymer blends with high-molecular-weight peroxides.** *J. Appl. Polym. Sci.* **2005**, *96*(1), 232-242. [Details](#)
22. Nosova, N.; [Roiter, Y.](#); Samaryk, V.; Varvarenko, S.; Stetsyshyn, Y.; Minko, S.; Stamm, M.; Voronov, S. **Polypropylene surface peroxidation with heterofunctional polyperoxides** *Macromol. Symp.* **2004**, *210*, 339-348. [Details](#)
23. [Roiter, Y.](#); Samaryk, V.; Varvarenko, S.; Nosova, N.; Tarnavchyk, I.; Pionteck, J.; Pötschke, P.; Voronov, S. **Peroxide-containing compatibilizer for polypropylene blends with other polymers** *Macromol. Symp.* **2004**, *210*, 209-217. [Details](#)
24. Samaryk, V. Ya.; [Roiter, Y. V.](#); Nosova, N. G.; Stetsyshyn, Y. B.; Varvarenko, S. M.; Voronov, S. A. **Activation of polymer surface with polyperoxides: design of nanolayers by grafting from or grafting to** *Reports of the National Academy of Sciences of Ukraine (RNAS of Ukraine, in Ukrainian: Dopovidi Natsional'noi Akademii Nauk Ukraini)* **2004**, *4*, 136-141. (in Ukrainian)
25. Voronov, S. A.; Samaryk, V. Ya.; [Roiter, Y. V.](#); Pionteck, J.; Pötschke, P.; Minko, S. S.; Varvarenko, S. M.; Nosova, N. G. **Polymer blend compatibilization using high molecular weight peroxide-containing precompatibilizers** *Questions on Chemistry and Chemical Technology (Voprosy Khimii i Khimicheskoy Tekhnologii)* **2004**, *1*, 96-100. (in Ukrainian)
26. Stetsyshyn, Y. B.; [Roiter, Y. V.](#); Varvarenko, S. M.; Voronov S. A. **Polypropylene surface modification via 'grafting from' and 'grafting to' techniques using heterofunctional polyperoxide** *Visnyk Of the Lviv Polytechnic National University (Visnyk of LPNU)* **2003**, *488*, 339-343. (in Ukrainian)
27. [Roiter, Y. V.](#); Stetsyshyn, Y. B.; Samaryk, V. Ya.; Nosova, N. G.; Tarnavchyk, I. T. **Study of polymer surface modification with heterofunctional polyperoxide using atomic force microscopy** *Visnyk of LPNU* **2003**, *488*, 318-321. (in Ukrainian)

28. Samaryk, V. Ya.; Varvarenko, S. M.; Zaichenko, O. S.; Nosova, N. G.; Roiter, Y. V.; Mitina, N. Ye.; Gevus, O. I.; Tarnavchyyk, I. T. **Synthesis and properties of peroxide-containing telechelic poly(vinyl acetate) and poly(vinyl alcohol)** *RNAS of Ukraine* **2002**, *12*, 118-123. (in Ukrainian)
29. Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Nosova, N. G.; Roiter, Y. V. **Preparation of polymeric thermoplast/thermoset blends by using high-molecular weight peroxide-containing precompatibilizers** *RNAS of Ukraine* **2002**, *11*, 144-149. (in Ukrainian)
30. Roiter, Y. V.; Samaryk, V. Ya.; Varvarenko, S. M.; Nosova, N. G.; Voronov, S. A. **Kinetic regularities of grafted peroxide precompatibilizer synthesis** *Visnyk of LPNU* **2002**, *461*, 159-162. (in Ukrainian)
31. Nosova, N. G.; Samaryk, V. Ya.; Varvarenko, S. M.; Roiter, Y. V.; Tarnavchyyk, I. T.; Voronov, S. A. **Effect of synthesis conditions on general characteristics of copolymers of 2-tert-butylperoxy-2-methyl-5-hexene-3-yne with higher (meth)acrylates** *Visnyk of LPNU* **2002**, *461*, 142-147. (in Ukrainian)
32. Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Nosova, N. G.; Roiter, Y. V. **Effect of conformation of polyperoxide molecules on thermolysis of peroxide groups** *RNAS of Ukraine* **2002**, *6*, 147-150. (in Ukrainian)
33. Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Nosova, N. G.; Roiter, Y. V. **Creation of interfacial-active peroxide-containing graft copolymers for compatibilization of polyolefin blends** *RNAS of Ukraine* **2001**, *5*, 132-135. (in Ukrainian)
34. Roiter, Y.; Samaryk, V.; Nosova, N.; Varvarenko, S.; Pötschke, P.; Voronov, S. **Radical Processes for the Creation of Compatibilizing Layers in Polyolefin Blends** *Macromol. Symp.* **2001**, *164*, 377-387. Details
35. Roiter, Y. V.; Nosova, N. G.; Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M. **Polyethylene/polypropylene reactive blending with utilization of peroxide-containing compatibilizer** *Visnyk of LPNU* **2000**, *395*, 82-85. (in Ukrainian)
36. Roiter, Y. V.; Nosova, N. G. **Radical grafting of polypropylene chains to peroxide-containing oligomers** *Visnyk of LPNU* **1999**, *361*, 62-63. (in Ukrainian)
37. Varvarenko, S. M.; Roiter, Y. V.; Nosova, N. G. **Features of 2-tert-butylperoxy-2-methyl-5-hexene-3-yne copolymerization with higher acrylic esters** *Visnyk of LPNU* **1999**, *361*, 69-72. (in Ukrainian)
38. Samaryk, V. Ya.; Varvarenko, S. M.; Roiter, Y. V.; Nosova, N. G. **Kinetic features of hydroperoxide group decomposition in peroxide-containing oligomer in the presence of two-valent cobalt ions** *Visnyk of LPNU* **1999**, *374*, 76-79. (in Ukrainian)
39. Voronov, S. A.; Kiselyov, Eu. M.; Roiter, Y. V.; Budishevskaya, O. G.; Panchenko, Y. V. **Effect of promoters containing hydroperoxide on strength of the adhesion contact between lacquer coating and the surface of polymer substrates** *RNAS of Ukraine* **1998**, *1*, 170-174. (in Russian)
40. Voronov, S. A.; Kiselyov, Eu. M.; Nosova, N. G.; Roiter, Y. V.; Donchak, V. A.; Khryakov, S. V. **Interaction of oligomer peroxides with polymer substrates** *RNAS of Ukraine* **1997**, *11*, 135-139. (in Ukrainian)
41. Voronov, S. A.; Kiselyov, Eu. M.; Minko, S. S.; Budishevskaya, O. G.; Roiter, Y. V. **Structure and reactivity of peroxide monomers** *J. Polym. Sci., Part A, Polym. Chem.* **1996**, *34*, 2507-2511. Details
42. Kiselyov, Eu. M.; Varvarenko, S. M.; Samaryk, V. Ya.; Roiter, Y. V.; Voronov, S. A. **Kinetic of decomposition of the hydroperoxide group of 2,2-hydroperoxymethylhexenyne-5,3 in aqueous medium** *RNAS of Ukraine* **1996**, *11*, 134-138. (in Ukrainian)
43. Kiselyov, Eu. M.; Panchenko, Y. V.; Samaryk, V. Ya.; Roiter, Y. V.; Voronov, S. A. **Reaction medium effect on kinetics of thermal decomposition of hydroperoxide monomers** *RNAS of Ukraine* **1996**, *10*, 132-138. (in Russian)

Preprints:

1. Hinrichs, K.; Aulich, D.; Roiter, Y.; Minko, S. **In-situ infrared spectroscopic monitoring of the growth of lipid layers.** *PMSE Preprints* **2009**, *101*, 1058.
2. Roiter, Y.; Minko, S. **Responsive behavior of single polymer molecules: visualization with AFM.** *PMSE Preprints* **2008**, *99*, 545.
3. Roiter, Y.; Minko, S. **Single molecules of polymers: AFM imaging under liquid medium.** *Polymer Preprints* **2007**, *48(2)*, 522-523.
4. Motornov, M.; Sheparovych, R.; Tokarev, I.; Roiter, Y.; Minko, S. **Liquid hybrid polymer brushes with rapid reversible switching behavior.** *Polymer Preprints* **2007**, *48(1)*, 719-720.
5. Tsitsilianis, C.; Katsampas, I.; Roiter, Y.; Minko, S.; Stavrouli, N.; Gotsopoulos, M. **Transformable self-assemblies from responsive double-hydrophilic ABC terpolymers in aqueous media.** *Polymer Preprints* **2006**, *47(2)*, 798-799.
6. Roiter, Y.; Minko, S. **Adsorbed polyelectrolyte single molecules: AFM visualization under liquid.** *PMSE Preprints* **2005**, *93*, 717.

Special/unusual publications:

1. Tokarev, I.; Gopishetty, V.; Roiter, Y.; Motornov, M.; Minko, S. **"Nanostructured Ultrathin Hydrogel Membrane"** *Bruker Scanning Probe Microscopy Calendar* **2011**, *March page*. (contest-winning image published by **Bruker Nano, USA**).

- Sheparovych, R.; Roiter, Y.; Tokarev, I.; Motornov, M.; Yang, J.; Kopeček, J.; Minko, S. "Happy New Fractals" *Veeco calendar 2010, January page*. (contest-winning image published by **Veeco Instruments, USA**).
- Sheparovych, R.; Roiter, Y.; Motornov, M.; Tokarev, I.; Minko, S. "Nanoelectrode Array for Biosensor Applications" *Veeco calendar 2009, April page*. (contest-winning image published by **Veeco Instruments, USA**).
- Tokarev, I.; Roiter, Y.; Tokareva, I.; Motornov, M.; Minko, S. "Jiggle the Gel" *Veeco calendar 2008, January page*. (contest-winning image published by **Veeco Instruments, USA**).
- Tokarev, I.; Gopishetty, V.; Roiter, Y.; Minko, S. "The Tokarev Web. AFM image of nanofiber web fabricated by a template method from the mixture of alginate and gelatin" *Veeco calendar 2007, January page*. (contest-winning image published by **Veeco Instruments, USA**).
- Tokarev, I.; Gopishetty, V.; Roiter, Y.; Minko, S. "The Tokarev Web" 2006, *Veeco Nanospectator* (on-line presentation of best SPM works by **Veeco Instruments**).
- Roiter, Y.; Minko, S. "Digital Instruments Multimode AFM images of P2VP single molecules" *Veeco calendar 2006, March page*. (contest-winning image published by **Veeco Instruments, USA**).
- Roiter, Y.; Minko, S. "Poly(2-vinylpyridine) single molecules" 2005, *Veeco Nanospectator* (on-line presentation of best SPM works by **Veeco Instruments**).
- Roiter, Y. "ChemOffice 2004: The First Week of Use" *ChemNews.Com 2004, 14.2*, 18-21 (review of software product of **CambridgeSoft Corporation**). <http://chembionews.cambridgesoft.com/art.cfm?language=&S=376>.
- Roiter, Y. V. *Synthesis of grafted peroxide copolymers of 2-tert-butylperoxy-2-methyl-5-hexene-3-yne for compatibilization of polymer blends*, Author abstract of Dissertation for a candidate's (Ph.D.) degree in chemical sciences by speciality 02.00.06 - high molecular weight compounds, Lviv Polytechnic National University: Lviv, 2002, 19 p. (in Ukrainian)

Patents

- Ukraine Patent 56799A*, Intern'l Class C 08 F 002/06 **Method of obtaining telechelic polymers with different end functional groups** *Bratychak, M. M.; Samaryk, V. Ya.; Varvarenko, S. M.; Roiter, Y. V.; Nosova, N. G.; Zaichenko, O. S. (Ukraine), Brostow, W. (USA)*; Lviv Polytechnic National University; Filed 17.09.2002; Published 15.05.2003; Bull.No.5. (in Ukrainian)
- Ukraine Patent 53072A*, Intern'l Class C 08 J 007/12 **Method of polymer surface modification** *Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Nosova, N. G.; Roiter, Y. V. (Ukraine)*; Lviv Polytechnic National University; Filed 26.02.2002; Published 15.01.2003; Bull.No.1. (in Ukrainian)
- Ukraine Patent 50391A*, Intern'l Class C 08 F 004/36 **Method of obtaining polymers with end peroxide groups** *Zaichenko, O. S.; Samaryk, V. Ya.; Varvarenko, S. M.; Roiter, Y. V.; Nosova, N. G.; Gevus, O. I. (Ukraine)*; Lviv Polytechnic National University; Filed 03.01.2002; Published 15.10.2002; Bull.No.10. (in Ukrainian)
- Ukraine Patent 46481A*, Intern'l Class C 08 J 007/12 **Method of polymer surface modification** *Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Nosova, N. G.; Roiter, Y. V. (Ukraine)*; Lviv Polytechnic National University; Filed 24.07.2001; Published 15.05.2002; Bull.No.5. (in Ukrainian)
- Ukraine Patent 46318A*, Intern'l Class C 08 L 023/02 **Method of preparation of unsaturated polyester resin compositions with polyolefins** *Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Roiter, Y. V.; Nosova, N. G. (Ukraine)*; Lviv Polytechnic National University; Filed 19.06.2001; Published 15.05.2002; Bull.No.5. (in Ukrainian)
- Ukraine Patent 46317A*, Intern'l Class C 08 L 023/02 **Method of preparation of unsaturated polyester resin compositions with polyolefins** *Voronov, S. A.; Samaryk, V. Ya.; Varvarenko, S. M.; Roiter, Y. V.; Nosova, N. G. (Ukraine)*; Lviv Polytechnic National University; Filed 19.06.2001; Published 15.05.2002; Bull.No.5. (in Ukrainian)

Symposia/conferences:

- Galabura, Y. D.; Burtovyy, R.; Zdyrko, B.; Grigoryev, A.; Tokarev, I.; Roiter, Y.; Minko, S.; Kornev, K.; Luzinov, I. **Surface modification of nickel nanofibers with polymer grafting**, 240th ACS National Meeting, August 22-26, 2010, Boston, MA, United States, 2010; COLL-174.
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H. Other Accomplishments

1. *Invited reviewer for Elsevier (Materials Chemistry and Physics) and Wiley Publishers (Journal of Applied Polymer Science, Biomaterials).*
2. *Most accessed articles*

- Article [[Roiter, Y.](#); Ornatska, M.; Rammohan, A. R.; Balakrishnan, J.; Heine, D. R.; Minko, S. Interaction of Nanoparticles with Lipid Membrane. *Nano Letters* 2008, 8(3), 941-944.] was in the list of 20 most accessed articles in the journal: *Nano Letters*, -- during January-March, 2008.
 - Article [Lupitsky, R.; [Roiter, Y.](#); Tsitsilianis, C.; Minko, S. From Smart Polymer Molecules to Responsive Nanostructured Surfaces. *Langmuir* 2005, 21(19), 8591-8593.] was in the list of 20 most accessed articles in the journal: *Langmuir*, -- during July-September, 2005.
 - Article [Minko, S.; [Roiter, Y.](#) AFM single molecule studies of adsorbed polyelectrolytes. *Current Opinion in Colloid & Interface Science* 2005, 10(1-2), 9-15.] was in the list of 25 most accessed articles in the journal: *Current Opinion in Colloid & Interface Science*, -- during July-September and October-December, 2005.
3. *AFM images or art designs prepared by Yuri Roiter were placed on the cover pages of journals: Macromolecular Rapid Communications* 2005, 26(17) (front cover page); *Journal of Polymer Science: Part A: Polymer Chemistry* 2007, 45(16) (front cover page); *Advanced Materials* 2008, 20(1) (inside front cover page); *Soft Matter* 2009, 5(3) (background AFM image of the back cover page).

Yuri Roiter works continuously with undergraduate, graduate, and PhD students at Clarkson University, Potsdam, NY, USA and worked with undergraduate and graduate students at Lviv Polytechnic National University, Lviv, Ukraine helping them in experimental work conduction, publication preparation and exchanging the experience and knowledge.

Computer and web skills

Yuri easily works with or masters any computer software including equipment-oriented one. He works actively or worked with common-used (e.g. Microsoft Office, Corel Draw and Paint etc.), special (e.g. Borland C++ Builder, Autodesk 3ds Max, Adobe Flash etc.), and scientific software (e.g. Microcal Origin, Nanotec WSxM, HyperCube HyperChem, Waterloo Maple Inc. Maple, CambridgeSoft ChemOffice, ACD/Labs etc.). Yuri is skilled in touch typing at usual "qwerty" keyboards in three languages: English, Ukrainian and Russian (all about 70 WPM).

Yuri develops his own software (in Borland C++ Builder), designs the web sites using a DHTML based on JavaScript and Adobe (Macromedia) Flash, and creates scientific computer graphics (CG) 3D movies (Autodesk 3ds Max). At the moment, 4 scientific software applications created by Yuri Roiter: "2D Single Molecules" (<http://people.clarkson.edu/~sminko/?nanostructured/responsive-smart-materials/2D-single-molecules-software.html>), created under the support of NSF-NATO grant); "AFM Subtractor" (positioning, scaling, skewing, and subtraction of AFM images, created under the support of Corning Inc.); "ContAngle" (measurement of contact angles with high processing sensitivity); and "GradiFill" (building of the images with specific gradient filling), -- are utilized actively in the NanoStructured Materials Group ("2D Single Molecules" is also provided as a freeware for all interested scientists). His scientific CG movies created in Autodesk 3ds Max are often used for the visualization of group scientific achievements at meetings and on the group web site.

Yuri is also a designer and webmaster of the web site of NanoStructured Materials Group:
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