

A new strategy for the preparation of maleimide-functionalised gold surfaces

Zhang, Xin; Sun, Guoguang; Hovestädt, Marc; **Sõritski, Vitali**; Esser, Norbert; Volkmer, Rudolf; Janietz, Silvia; Rappich, Jörg; Hinrichs, Karsten *Electrochemistry communications* 2010 / 10, p. 1403-1406 : ill <https://www.sciencedirect.com/science/article/pii/S1388248110003395>

Advanced sensing materials based on molecularly imprinted polymers towards developing point-of-care diagnostics devices

Kidakova, Anna; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali *Proceedings of the Estonian Academy of Sciences* 2019 / p. 158–167 : ill <https://doi.org/10.3176/proc.2019.2.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advances in detection of antibiotic pollutants in aqueous media using molecular imprinting technique - a review

Ayankojo, Akinrinade George; Reut, Jekaterina; Nguyen, Vu Bao Chau; Boroznjak, Roman; Sõritski, Vitali *Biosensors* 2022 / art. 441 <https://doi.org/10.3390/bios12070441> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An electrochemical biosensor for direct detection of hepatitis C virus

Antipchik, Mariia; Korzhikova-Vlakh, Evgenia; Polyakov, Dmitry; Tarasenko, Irina; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali *Analytical Biochemistry* 2021 / art. 114196 <https://doi.org/10.1016/j.ab.2021.114196> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Antibiotic-imprinted polymer films prepared by electrochemical approach : towards the development of a label-free chemical sensor

Ayankojo, Akinrinade George; Sõritski, Vitali; Tretjakov, Aleksei; Reut, Jekaterina; Öpik, Andres *Baltic Polymer Symposium* 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 38 https://www.researchgate.net/publication/290190469_Antibiotic-imprinted_polymer_films_prepared_by_electrochemical_approach_towards_the_development_of_a_label-free_chemical_sensor [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Biotundlikud süsteemid molekulaarselt jäljendatud elektrit juhtivatest polümeeridest

Öpik, Andres; Reut, Jekaterina; Sõritski, Vitali; Tretjakov, Aleksei *Tallinna Tehnikaülikooli aastaraamat* 2012 2013 / lk. 40-44 : ill

Chemical sensors based on conductive polymers

Bereznev, Sergei; Sõritski, Vitali; Öpik, Andres *Kemia 95 : Finnish Chemical Congress and Exhibition and Nordic Polymer Meeting* 1995, Helsinki, 14-16 Nov., 1995 : abstracts 1995 / p. 49-50

Class-selective molecularly imprinted polymer-based sensor for macrolide antibiotics detection

Ayankojo, Akinrinade George; Nguyen, Vu Bao Chau; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali *International Conference on Chemical Sensors : Mátrafüred 2022* 2022 / p. 70 https://matrafured.ch/MatrafuredScientificProgram_2022.pdf

A computational approach for rational monomer selection in molecularly imprinted polymer synthesis = Monomeeride valiku protsessi modelleerimine optimaalse monomeeri leidmiseks molekulaarselt jäljendatud polümeeride sünteesil

Boroznjak, Roman 2017 <https://digi.lib.ttu.ee/77629>

The computational approach for rational monomer selection in molecularly imprinted polymer synthesis [Online resource]

Boroznjak, Roman; Lomaka, Andre; Sõritski, Vitali; Reut, Jekaterina *Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid]* 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

A computational approach to study functional monomer-protein molecular interactions to optimize protein molecular imprinting

Boroznjak, Roman; Reut, Jekaterina; Tretjakov, Aleksei; Lomaka, Andre; Öpik, Andres; Sõritski, Vitali *Journal of molecular recognition* 2017 / art. e2635, p. 1-9 : ill <https://doi.org/10.1002/jmr.2635> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Conductive polymers as active materials for environmental sensors

Bereznev, Sergei; Sõritski, Vitali; Öpik, Andres; Idla, Katrin *International Society of Electrochemistry, 47th Annual Meeting : abstracts : Veszprém & Balatonfüred, Hungary, September 1-6, 1996* 1996 / p. P2c-10

Conductive polymers as active materials for environmental sensors

Sõritski, Vitali; Bereznev, Sergei; Öpik, Andres *Proceedings of the Estonian Academy of Sciences. Chemistry* 1998 / 2, p. 60-72: ill

Covalent surface imprinting strategy of electrosynthesized PEDOT films for protein recognition

Kaev, Jevgeni; Reut, Jekaterina; Sõritski, Vitali; Gyurcsanyi, Robert E.; Öpik, Andres *The 61st Annual Meeting of the International Society of Electrochemistry : Nice (France), September 26 - October 1, 2010* 2010 / p. S13-P-044

Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers

Tretjakov, Aleksei; Söritski, Vitali; Reut, Jekaterina; Öpik, Andres Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 46

Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers

Tretjakov, Aleksei; Söritski, Vitali; Reut, Jekaterina; Öpik, Andres Proceedings of The 8th International Conference on Molecular Imprinting (MIP2014). Session 8 2014 / p. P-007

Development of a molecularly imprinted polymer-based sensor for electrochemical detection of macrolide antibiotics

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 43 : ill [Development of a molecularly](#)

Development of a portable MIP-based electrochemical sensor for detection of SARS-CoV-2 antigen

Raziq, Abdul; Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali Biosensors and bioelectronics 2021 / art. 113029 <https://doi.org/10.1016/j.bios.2021.113029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of a strategy for preparation of protein surface imprinted electrosynthesized conducting polymer thin films

Kaev, Jevgeni; Tretjakov, Aleksei; Reut, Jekaterina; Söritski, Vitali; Gyurcsanyi, Robert E.; Öpik, Andres Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 138

Development of a surface imprinting strategy based on a covalently immobilized protein

Boroznjak, Roman; Tretjakov, Aleksei; Söritski, Vitali; Reut, Jekaterina; Öpik, Andres Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 126

Development of antibiotic-imprinted polymer films on the dextran-modified gold surfaces

Tretjakov, Aleksei; Söritski, Vitali; Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Development of conductive polymer materials for anti-corrosion and sensor applications

Öpik, Andres; Golovtsov, Igor; Idla, Katrin; Söritski, Vitali Stambiamolekuliu junginiu chemija ir technologija = Polymer chemistry and technology 1997 / p. 133-142

Development of MIP sensors for antibiotics

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali The 10th International Conference on Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p. : ill <http://events.eventact.com/ProgramView2/Agenda/Lecture?id=175779&code=3608113>

The development of surface imprinted thin films for immunoglobulin G molecular recognition

Boroznjak, Roman; Tretjakov, Aleksei; Reut, Jekaterina; Söritski, Vitali; Öpik, Andres MIP 2012 : 7th International Conference on Molecularly Imprinted Polymers Science and Technology : book of abstracts 2012 / p. 205

Development of synthetic receptor-based sensors for detection of neurotrophic factor proteins

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali Graduate Student Symposium on Molecular Imprinting 2019, Berlin, Germany, August 28-30, 2019 : Symposium Programme and Book of Abstracts 2019 / p. 31 <https://drive.google.com/file/d/1zR0jNBFlayQ3AdKqX4YrCztpE00iSex/view>

Direct electrochemical sensing of ampicillin in aqueous media by a ruthenium oxide electrode decorated with a molecularly imprinted polymer

Nguyen, Vu Bao Chau; Reut, Jekaterina; Ayankojo, Akinrinade George; Söritski, Vitali Talanta 2025 / art. 127580 <https://doi.org/10.1016/j.talanta.2025.127580>

Dual ELISA using SARS-CoV-2 N protein produced in E. coli and CHO cells reveals epitope masking by N-glycosylation

Rump, Airi; Risti, Robert; Kristal, Mai-Ly; Reut, Jekaterina; Söritski, Vitali; Löökene, Aivar; Rüütel Boudinot, Sirje Biochemical and biophysical research communications 2021 / p. 457-460 <https://doi.org/10.1016/j.bbrc.2020.11.060> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemical deposition of thin polypyrrole films on silicon substrates

Intelmann, Carl Matthias; Söritski, Vitali; Tsankov, Dimitar; Hinrichs, Karsten; Rappich, Jörg 5th ISE Spring Meeting : Dublin (Ireland), 01.-04.05.07 2007 / ? p

Electrochemical detection of brain-derived neurotrophic factor by molecularly-imprinted polymer on screen-printed electrode

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali The 10th International Conference on

Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p. : ill
<https://events.eventact.com/programview2/Agenda/Lecture/175959?code=3635110>

Electrochemical functionalization of gold and silicon surfaces by a maleimide group as a biosensor for immunological application

Zhang, Xin; **Tretjakov, Aleksei**; Hovestädt, Marc; Sun, Guoguang; **Sõritski, Vitali**; **Reut, Jekaterina**; Volkmer, Rudolf; Hinrichs, Karsten; Rappich, Jörg Acta biomaterialia 2013 / p. 5838-5844 : ill <https://doi.org/10.1016/j.actbio.2012.10.022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemical reduction of aryl diazonium salts for ultrathin polymeric layers on au and Si surfaces

Zhang, Xin; **Sõritski, Vitali**; **Reut, Jekaterina** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 29 : ill

Electrochemical sensing of clinically relevant proteins by molecularly imprinted polymer-modified electrodes

Sõritski, Vitali 11th international workshop on surface modification for chemical and biochemical sensing : program and the book of abstracts 2023 / p. 120 https://www.smcbs.pl/_ftp/book_of_abstracts/Book_of_Abstracts_SMCBS_2023.pdf

Electrochemical sensor based on molecularly imprinted polymer for rapid quantitative detection of brain-derived neurotrophic factor

Ayankojo, Akinrinade George; **Boroznjak, Roman**; **Reut, Jekaterina**; **Tuvikene, Jürgen**; **Timmusk, Tõnis**; **Sõritski, Vitali** Sensors and Actuators B: Chemical 2023 / art. 134656 <https://doi.org/10.1016/j.snb.2023.134656> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemical sensor based on molecularly imprinted polymers for label-free detection of neurotrophic factor protein [Online resource]

Kidakova, Anna; **Sõritski, Vitali**; **Reut, Jekaterina**; **Õpik, Andres** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

Electrochemical synthesis of polypyrrole films containing nucleotides

Kovtun, Aleksandr; Malikova, O.; **Sõritski, Vitali**; **Reut, Jekaterina**; **Õpik, Andres** Book of abstracts of Baltic Polymer Symposium 2009 : Ventspils, Latvia, 22-25 September, 2009 2009 / ? p

Electrochemically deposited ultrathin polypyrrole films on silicon

Intelmann, Carl Matthias; **Sõritski, Vitali**; Tsankov, Dimiter; Hinrichs, Karsten; Rappich, Jörg GDCh (German Chemical Society) - YoungChemists : Spring Symposium 2007 : Chemnitz (Germany), 22.-24.03.07 2007 / ? p

Electrochemically synthesized MIP sensors : applications in healthcare diagnostics

Ayankojo, Akinrinade George; **Reut, Jekaterina**; **Sõritski, Vitali** Biosensors 2024 / art. 71 <https://doi.org/10.3390/bios14020071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemically synthesized MIPs for sensor applications in healthcare diagnostics

Ayankojo, Akinrinade George; **Reut, Jekaterina**; **Sõritski, Vitali** Molecularly imprinted polymers : Computational studies to advanced applications 2025 / p. 167-197 https://doi.org/10.1007/978-3-031-67368-9_6

Electrosynthesized molecularly imprinted polymer thin films for antibiotics detection in aqueous solutions

Tretjakov, Aleksei; **Sõritski, Vitali**; **Reut, Jekaterina**; **Zhang, Y.**; **Õpik, Andres** Graduate Student Symposium on Molecular Imprinting 2013 : symposium programme and book of abstracts 2013 / p. 35

Electrosynthesized conducting polymers, polypyrrole and poly(3,4-ethylenedioxythiophene), for molecular imprinting

Õpik, Andres; **Menaker, Anna**; **Reut, Jekaterina**; **Sõritski, Vitali**; Malikova, O.; Kaev, Jevgeni; Kovtun, Aleksandr Book of abstracts of Baltic Polymer Symposium 2009 : Ventspils, Latvia, 22-25 September, 2009 2009 / ? p

Electrosynthesized conducting polymers, polypyrrole and poly(3,4-ethylenedioxythiophene), for molecular imprinting =

Molekulaarselt jäljendatud süsteemid elektrokeemiliselt sünteesitud elektrit juhtivate polümeeride - polüüpürrooli ja polü(3,4-etiüleendioksiütiofeeni baasil

Menaker, Anna 2009 https://www.ester.ee/record=b2491805*est

Electrosynthesized molecularly imprinted polymer films for surface acoustic wave detection of antibiotics

Sõritski, Vitali; **Tretjakov, Aleksei**; **Ayankojo, Akinrinade George**; **Reut, Jekaterina**; **Õpik, Andres** Proceedings of The 8th International Conference on Molecular Imprinting (MIP2014). Session 8 2014 / p. P-015

Electrosynthesized molecularly imprinted polymer thin films for antibiotics selective recognition

Tretjakov, Aleksei; Zhang, Y.; **Reut, Jekaterina**; **Sõritski, Vitali**; **Õpik, Andres** Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 115

Electrosynthesized molecularly imprinted polypyrrole films for enantioselective recognition of L-aspartic acid

Sõritski, Vitali; Reut, Jekaterina; Menaker, Anna; Gyurcsanyi, Robert E.; **Õpik, Andres** Electrochimica acta 2008 / 6, p. 2729-2736 : ill <https://www.sciencedirect.com/science/article/pii/S0013468607012947>

Electrosynthesized molecularly imprinted PEDOT microrods for IGG molecular recognition

Kovtun, Aleksandr; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 149

Electrosynthesized surface-imprinted conducting polymer microrods for selective protein recognition

Menaker, Anna; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres; Horvath, Viola; Gyurcsanyi, Robert E. Advanced materials 2009 / p. 2271-2275 : ill <https://onlinelibrary.wiley.com/doi/abs/10.1002/adma.200803597>

Enantioselective properties of overoxidized polypyrrole films imprinted with L-Aspartic acid studied by EQCM technique

Menaker, Anna; Sõritski, Vitali; Reut, Jekaterina; Gyurcsanyi, Robert E.; Toth, K.; **Õpik, Andres** The International Conference on Science and Technology of Synthetic Metals (ICSM'2006) : Dublin, Ireland, July 2-7, 2006 2006 / [poster presentation]

Enhancing binding properties of imprinted polymers for the detection of small molecules

Ayankojo, Akinrinade George; Reut, Jekaterina; Õpik, Andres; Tretjakov, Aleksei; Sõritski, Vitali Proceedings of the Estonian Academy of Sciences 2018 / p. 138–146 : ill <https://doi.org/10.3176/proc.2018.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres; Idla, Katrin International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 160
<https://www.sciencedirect.com/science/article/abs/pii/S0379677998010479>

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres; Idla, Katrin International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 160
<https://www.sciencedirect.com/science/article/abs/pii/S0379677998010479>

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres; Idla, Katrin Synthetic metals 1999 / p. 1326-1327: ill

EQCM study enantioselective uptake of aspartic acid with overoxidized polypyrrole films

Sõritski, Vitali; Gyurcsanyi, Robert E.; **Reut, Jekaterina; Menaker, Anna;** Toth, K.; **Õpik, Andres** 56th International Meeting of Electrochemical Society (ISE2005) : book of abstracts 2005 / p. 965

Humidity and SO₂ gas sensor based on QCM coated with polypyrrole films

Sõritski, Vitali; Õpik, Andres Finnish Chemical Congress and Exhibition, Helsinki, November 3-5, 1998 : abstracts 1998 / p. 10

Immunoglobuliini orienteeritud immobilisatsioon aluspinnaal : valkude molekulaarse jäljendamise metoodika täiustamine

Boroznjak, Roman; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 16

The influence of synthesis parameters and thermal treatment on the optical and structural properties of zinc oxide-based nanomaterials

Paltusheva, Zhaniya; Kedruk, Yevgeniya; Gritsenko, Lesya; Tulegenova, Madina; **Sõritski, Vitali;** Abdullin, Khabibulla Physical sciences and technology 2024 / Lk. 49-57 <https://doi.org/10.26577/phst2024v11i1a6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of the para-substituent of benzene diazonium salts and the solvent on the film growth during electrochemical reduction

Zhang, Xin; Rösicke, Felix; **Sõritski, Vitali; Reut, Jekaterina** Zeitschrift für Physikalische Chemie 2014 / p. 557-573
<https://doi.org/10.1515/zpch-2014-0450> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In-situ characterization of the polypyrrole films by EQCM and CER techniques

Sõritski, Vitali; Õpik, Andres; Talo, A.; Forsen, Olof Synthetic metals 2001 / 1/3, p. 309-310 : ill
https://www.researchgate.net/publication/202179222_In-situ_characterization_of_the_polypyrrole_films_by_EQCM_and_CER_techniques

In-situ characterization of the polypyrrole films by QCM and CER techniques

Sõritski, Vitali; Õpik, Andres; Talo, A.; Forsen, Olof International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000 / p. 122-WedA121 <https://research.aalto.fi/fi/publications/in-situ-characterization-of-the-polypyrrole-films-by-qcm-and-cer->

Investigation of the silicon/polypyrrole interface by pulsed photoluminescence and IR spectroscopic ellipsometry during electrochemical deposition

Zhang, Xin; Sõritski, Vitali; Sun, Guoguang; Hinrichs, Karsten; Rappich, Jörg Polymers for advanced technologies 2013 / p. 171

Ion transport investigations of polypyrroles doped with different anions by EQCM and CER techniques

Sõritski, Vitali; Õpik, Andres; Forsen, Olof *Electrochimica acta* 2003 / 10, p. 1409-1417 : ill

<https://www.sciencedirect.com/science/article/pii/S0013468603000185>

Keskkonnasensorid juhtivatel polümeeridel = Environmental sensors based conductive polymers

Bereznev, Sergei; Sõritski, Vitali; Õpik, Andres XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th

Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 17-18 https://www.ester.ee/record=b1070511*est

A macromolecular imprinting approach to design synthetic receptors for label-free biosensing applications =

Sünteeilised retseptorid molekulaarselt jäljendatud polümeeridest biomakromolekulide märgisevabaks määramiseks

Tretjakov, Aleksei 2016 http://www.ester.ee/record=b4560028*est

Maleimide functionalized silicon surfaces for biosensing investigated by in-situ IRSE and EQCM

Kanyong, Prosper; Sun, Guoguang; Rösicke, Felix; **Sõritski, Vitali;** Panne, Ulrich; Hinrichs, Karsten; Rappich, Jörg *Electrochemistry communications* 2015 / p. 103-107 : ill <https://doi.org/10.1016/j.elecom.2014.12.015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mesoporous molecularly imprinted polymer for label-free detection of a small analyte

Ayankojo, Akinrinade George; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [214]

Micropatterned surface imprinted PEDOT films for selective protein recognition

Sõritski, Vitali; Kaev, Jevgeni; **Reut, Jekaterina; Õpik, Andres;** Gyurcsanyi, Robert E.; Rappich, Jörg 60th Annual Meeting of the International Society of Electrochemistry : Beijing, China, 16-21 August, 2009 2009 / ? p

MIP-based electrochemical sensor for direct detection of hepatitis C virus via E2 envelope protein

Antipchik, Mariia; Reut, Jekaterina; Ayankojo, Akinrinade George; Õpik, Andres; Sõritski, Vitali *Talanta* 2022 / art. 123737 <https://doi.org/10.1016/j.talanta.2022.123737> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

MIP-based electrochemical sensors detecting antibiotics and fungicides as emerging contaminants in aqueous environments

Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali 11th international workshop on surface modification for chemical and biochemical sensing : program and the book of abstracts 2023 / p. 78

Molecularly imprinted conducting polymers for protein assays

Sõritski, Vitali; Reut, Jekaterina; Menaker, Anna; Gyurcsanyi, Robert E.; Toth, K.; **Õpik, Andres** The International Conference on Science and Technology of Synthetic Metals (ICSM'2006) : Dublin, Ireland, July 2-7, 2006 2006 / [poster presentation]

Molecularly imprinted co-polymer for class-selective electrochemical detection of macrolide antibiotics in aqueous media

Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Rappich, Jörg; Furchner, Andreas; Hinrichs, Karsten; **Sõritski, Vitali** *Sensors and actuators B : chemical* 2023 / art. 132768, 9 p. : ill <https://doi.org/10.1016/j.snb.2022.132768> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted poly (3,4-ethylenedioxythiophene) on micro-patterned substrates

Kaev, Jevgeni; **Sõritski, Vitali; Reut, Jekaterina;** Rappich, Jörg; **Õpik, Andres** Book of abstracts of Baltic Polymer Symposium 2009 : Ventspils, Latvia, 22-25 September, 2009 2009 / ? p

Molecularly imprinted polymer as a selective recognition element for detection of azoxystrobin in aqueous media

Nguyen, Vu Bao Chau; Reut, Jekaterina; Sõritski, Vitali Baltic Polymer Symposium, BPS2023 : programme and abstracts 2023 / p. 28 [Molecularly imprinted polymer as a selective recognition element for detection of azoxystrobin in aqueous media](#)

Molecularly imprinted polymer based electrochemical sensor for quantitative detection of SARS-CoV-2 spike protein

Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Õpik, Andres; Sõritski, Vitali *Sensors and Actuators B: Chemical* 2022 / Art. 131160 <https://doi.org/10.1016/j.snb.2021.131160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer based SPR sensors for label-free detection of antibiotics

Tretjakov, Aleksei; Ayankojo, Akinrinade George; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres Recent Developments in Polymer Synthesis : MACRO 2014 : poster presentation 2014 / p. 286

Molecularly imprinted polymer film interfaced with Surface Acoustic Wave technology as a sensing platform for label-free protein detection

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Õpik, Andres *Analytica chimica acta* 2016 / p. 182-188 : ill <https://doi.org/10.1016/j.aca.2015.11.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer integrated with a Surface Acoustic Wave technique for detection of sulfamethizole
Ayankojo, Akinrinade George; Tretjakov, Aleksei; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Rappich, Jörg;
Furchner, Andreas; Hinrichs, Karsten; **Sõritski, Vitali** Analytical chemistry 2016 / p. 1476-1484 : ill
<https://doi.org/10.1021/acs.analchem.5b04735> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer-based electrochemical sensor for detection of azoxystrobin in aqueous media
Nguyen, Vu Bao Chau; Reut, Jekaterina; Sõritski, Vitali Graduate school of functional materials and technologies scientific
conference 2023 2023 / 1 p <http://fntdk.ut.ee/wp-content/uploads/2023/05/Nguyen.pdf>

Molecularly imprinted polymer-based electrochemical sensor for the detection of azoxystrobin in aqueous media
Nguyen, Vu Bao Chau; Reut, Jekaterina; Rappich, Jörg; Hinrichs, Karsten; Sõritski, Vitali Polymers 2024 / art. 1394
<https://doi.org/10.3390/polym16101394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer-based SAW sensor for label-free detection of cerebral dopamine neurotrophic factor protein
Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Saarma, Mart; Sõritski, Vitali Sensors and actuators B :
chemical 2020 / art. 127708, 8 p. : ill <https://doi.org/10.1016/j.snb.2020.127708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer-based sensor for electrochemical detection of erythromycin
Ayankojo, Akinrinade George; Reut, Jekaterina; Ciocan, Valeriu; Öpik, Andres; Sõritski, Vitali Talanta 2020 / art. 120502, 9 p.
: ill <https://doi.org/10.1016/j.talanta.2019.120502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted polymer-based sensor for label-free detection of a neurotrophic factor protein - cerebral dopamine neurotrophic factor
Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali The 10th International Conference on
Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p
<https://events.eventact.com/programview2/Agenda/Lecture/174899?code=3666033>

Molecularly imprinted polymers : a new approach to the preparation of functional materials
Öpik, Andres; Menaker, Anna; Reut, Jekaterina; Sõritski, Vitali Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 3-
11 : ill

Molecularly imprinted polymers as advanced sensing materials for detection of neurotrophic factor proteins
Reut, Jekaterina; Kidakova, Anna; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali 6th International Conference on Bio-
Sensing Technology, 16-19 June 2019, Kuala Lumpur, Malaysia : program 2019 / P2.64
<https://www.elsevier.com/events/conferences/international-conference-on-bio-sensing-technology>

Molecularly imprinted polymers as synthetic antibodies for neurotrophic factor proteins detection.
Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali Baltic Polymer Symposium 2019 : Vilnius,
Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 44 [Molecularly imprinted polymers ...](#)

Molecularly imprinted polymers designed to detect antibiotic pollutants in water = Molekulaarselt jäljendatud polümeerid antibiootikumide määramiseks vesikeskkonnas
Ayankojo, Akinrinade George 2018 <https://digi.lib.ttu.ee/i/?9952> https://www.ester.ee/record=b5056541*est

Molecularly imprinted polymers interfaced with label-free transducers : towards development of chemosensors for medical diagnostics and environmental monitoring
Sõritski, Vitali SMCBS'2019 : the 9th International Workshop on Surface Modification for Chemical and Biochemical Sensing,
Żelechów (near Warsaw), Poland, 8-12 November, 2019 : programme & book of abstracts 2019 / p. 122 : ill
https://www.smcbs2019.pl/_ftp/SMCBS2019_Book_of_abstracts.pdf

Molecularly imprinted polymers: towards development of chemosensors for medical diagnostics and environmental monitoring
Sõritski, Vitali XV Loodusteaduskonna Teaduskonverents 2023 / 34 p. <https://taltech.ee/loodusteaduskond/teaduskonna-teaduskonverents> <https://doi.org/10.48726/1y9d6-46543>

Molecularly imprinted poly(meta-phenylenediamine) based QCM sensor for detecting Amoxicillin
Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali Sensors and actuators B :
chemical 2018 / p. 766-774 : ill <https://doi.org/10.1016/j.snb.2017.11.194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Molecularly imprinted poly(m-phenylenediamine) films as a sensing layer for antibiotic detection
Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Zhang, Y.; Öpik, Andres; Hinrichs, Karsten; Rappich, Jörg Baltic Polymer
Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 41

Molekulaarselt jäljendatud polü(3,4-etuendioksütofeeni) mikrostruktuuride valmistamine mikrokiipidel
Kaev, Jevgeni; Tretjakov, Aleksei; Lautner, G.; Reut, Jekaterina; Sõritski, Vitali; Öpik, Andres; Gyurcsanyi, Robert E.; Rappich, Jörg XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 32

Molekulaarselt jäljendatud polümeerid: kaasaegsed biomimeetilised sensormaterjalid meditsiiniliseks diagnostikaks ja keskkonnaseireks

Sõritski, Vitali Eesti Vabariigi preemiad 2023 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2023 / lk. 92-107
<https://doi.org/10.3176/evp.2023.05> https://www.ester.ee/record=b1226072*est

A new approach in preparation of molecularly imprinted polymer thin films for immunoglobulin G specific recognition

Boroznjak, Roman; Reut, Jekaterina; Sõritski, Vitali; Öpik, Andres Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 77

Photo- and electropolymerization approaches for molecular imprinting of a neurotrophic factor protein

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 43 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Photo- and Electropolymerization Approaches for Molecular Imprinting of a Neurotrophic Factor Protein = Foto- ja elektropolümeerisatsiooni meetodid neurotroofsete tegurite molekulaarseks jäljendamiseks

Kidakova, Anna 2020 <https://digikogu.taltech.ee/et/Item/2ca7105c-05df-4af9-91cc-0e85d3840dc2>

Photopolymerized molecularly imprinted polymer tailored for electrochemical detection of brain-derived neurotrophic factor on screen-printed electrodes

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali EUPOC 2018 : Biomimetic Polymers by Rational Design, Imprinting and Conjugation : 20 - 24 May 2018, Como, Social Como Theatre : abstract booklet & list of participants [p.o. participants] 2018 / P22, p. 76 : ill [EUPOC 2018](#)

Poly(m-phenylenediamine) thin films molecularly imprinted with antibiotics as a recognition material for biosensor application

Sõritski, Vitali; Reut, Jekaterina; Tretjakov, Aleksei; Öpik, Andres; Hinrichs, Karsten; Rappich, Jörg Polymers for advanced technologies 2013 / p. 153

Preparation and investigation of molecularly imprinted st[r]uctures based on electrosynthesized polymers

Menaker, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Baltic Polymer Symposium 2007 : Druskininkai, Lithuania, September 19-21, 2007 : programme and book of abstracts 2007 / p. 30

Preparation of a surface-grafted protein-selective polymer film by combined use of controlled/living radical photopolymerization and microcontact imprinting

Kidakova, Anna; Reut, Jekaterina; Rappich, Jörg; Öpik, Andres; Sõritski, Vitali Reactive and functional polymers 2018 / p. 47-56
<https://doi.org/10.1016/j.reactfunctpolym.2018.02.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preparation of molecularly imprinted films for curcuminoid recognition

Boroznjak, Roman; Wulandari, M.; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Prostate specific antigen-imprinted film on SPR sensor surface by combining the microcontact imprinting method and the surface initiated photopolymerization

Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [221] : ill

Protein-imprinted polymer films as a biorecognition layer for surface acoustic wave sensing platform

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres BITE 2015 : 4th International Conference on Bio-Sensing Technology : Lisbon, Portugal, 10-13 May 2015 2015 / [1] p

Protein-responsive polymer film prepared via combined use of controlled/living radical photopolymerization and microcontact imprinting [Online resource]

Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

Recombination behaviour at the ultra-thin polypyrrole film

Intelmann, Carl Matthias; Hinrichs, Karsten; Sõritski, Vitali; Yang, Florent; Rappich, Jörg EM-Nano 2007 International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies : Nagano (Japan), 19.-22.06.2007 2007

Recombination behaviour at the ultra-thin polypyrrole film/silicon interface investigated by in-situ pulsed photoluminescence

Intelmann, Carl Matthias; Hinrichs, Karsten; **Sõritski, Vitali**; Yang, Florent; Rappich, Jörg Japanese journal of applied physics 2008 / 2, p. 554-557 <https://iopscience.iop.org/article/10.1143/JJAP.47.554>

Ruthenium oxide electrode integrated with molecularly imprinted polymer for direct electrochemical sensing of a neurotrophic factor protein

Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Sõritski, Vitali Sensors and Actuators B: Chemical 2025 / art. 137301 <https://doi.org/10.1016/j.snb.2025.137301>

Selective artificial receptors based on micropatterned surface-imprinted polymers for label-free detection of proteins by SPR imaging

Lautner, G.; **Kaev, Jevgeni; Reut, Jekaterina; Öpik, Andres**; Rappich, Jörg; **Sõritski, Vitali**; Gyurcsanyi, Robert E. Advanced functional materials 2011 / p. 591-597 : ill https://www.researchgate.net/publication/229918247_Selective_Artificial_Receptors_Based_on_Micropatterned_Surface-Imprinted_Polymers_for_Label-Free_Detection_of_Proteins_by_SPR_Imaging

Sensing small- and macromolecular targets using molecularly imprinted polymers interfaced with saw technology

Sõritski, Vitali; Tretjakov, Aleksei; Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [74]

Sensormaterjalid molekulaarselt jäljendatud polümeeridest meditsiiniliseks diagnostikaks ja keskkonnaseireks

Öpik, Andres; Sõritski, Vitali; Reut, Jekaterina Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 227-237 : ill., fot https://www.ester.ee/record=b5208765*est

Structural properties of ZnO nanopowders synthesized by thermal decomposition

Kedruk, Y. Y.; Paltusheva, Z. U.; Gritsenko, L. V.; **Sõritski, Vitali** Physical sciences and technology 2023 / p. 80-86 https://doi.org/10.26577/phst.2023.v10.i2.010_Journal metrics at Scopus Article at Scopus

Study of synthesis and redox switching of polypyrrole and poly(3,4-ethylenedioxythiophene) by using in-situ techniques

Sõritski, Vitali 2004 https://www.ester.ee/record=b1994290*est

Sulfamethizole-imprinted polymer on screen-printed electrodes: Towards the design of a portable environmental sensor

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali Sensors and actuators B. Chemical 2020 / art. 128600, 9 p. : ill https://doi.org/10.1016/j.snb.2020.128600_Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Surface imprinted conducting polymer microrods for selective protein recognition

Sõritski, Vitali; Menaker, Anna; Reut, Jekaterina; Gyurcsanyi, Robert E.; **Öpik, Andres** ICSM-2008 : International Conference of Science and Technology of Synthetic Metals : Porto de Galinhas, Brazil, July 6-11, 2008 : book of abstracts 2008 / p. 43

Surface imprinted microrods of nucleotide-conducting polymer composites for protein recognition

Sõritski, Vitali; Menaker, Anna; Horvath, Viola; Gyurcsanyi, Robert E.; **Reut, Jekaterina; Öpik, Andres** The 5th International Workshop on Molecular Imprinting (MIP 2008) : September 7-11, Kobe, Japan 2008 / p. PM 10

Surface molecularly imprinted polydopamine films for recognition of immunoglobulin G

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Volobujeva, Olga; Öpik, Andres Microchimica acta 2013 / p. 1433-1442 : ill https://doi.org/10.1007/s00604-013-1039-y_Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Surface-imprinted poly-3,4-ethylenedioxythiophene : a new material for preparation of selective artificial receptors

Sõritski, Vitali; Lautner, G.; Kaev, Jevgeni; Reut, Jekaterina; Menaker, Anna; Öpik, Andres; Gyurcsanyi, Robert E.; Rappich, Jörg 43rd IUPAC World Chemistry Congress : San Juan, Puerto Rico, July 31st-August 5th : program and abstracts 2011 / p. 362

Synthesis and characterization of conducting polymer/magnetite nanorods

Sõritski, Vitali; Menaker, Anna; Gyurcsanyi, Robert E.; Jagerszki, G.; **Reut, Jekaterina; Öpik, Andres** 58th Annual Meeting of the International Society of Electrochemistry (ISE) : Banff (Canada), September 9 to 14, 2007 2007 / ? p

Synthesis and characterization of inherently conducting polymers by using scanning electrochemical microscopy and electrochemical quartz crystal microbalance

Sõritski, Vitali; Gyurcsanyi, Robert E.; **Öpik, Andres**; Toth, K. The International Conference on the Science and Technology of Synthetic Metals (ICSM) 2004 : University of Wollongong, Australia, 28 June to 2 July : book of abstracts 2004 / p. 212 <https://www.sciencedirect.com/science/article/abs/pii/S0379677905002353>

Synthesis and characterization of inherently conducting polymers by using scanning electrochemical microscopy and electrochemical quartz crystal microbalance

Sõritski, Vitali; Gyurcsanyi, Robert E.; **Öpik, Andres**; Toth, K. Synthetic metals 2005 / 1/3, p. 133-136 <https://www.sciencedirect.com/science/article/pii/S0379677905002353>

Synthesis and redox behavior of PEDOT/PSS and PPy/DBS structures

Sõritski, Vitali; Idla, Katrin; Öpik, Andres Synthetic metals 2004 / p. 235-239 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0379677904001407>

Synthesis techniques in molecular imprinting: From MIP monoliths to MIP films and nanoparticles

Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali; Sehit, Ekin; Md Sharifuzzaman; Altintas, Z. Molecularly imprinted polymers : Computational studies to advanced applications 2025 / p. 75-128 https://doi.org/10.1007/978-3-031-67368-9_4

ZnO nanorods grown electrochemically on different metal oxide underlays

Gromõko, Inga; Dedova, Tatjana; Krunks, Malle; Sõritski, Vitali; Mere, Arvo; Mikli, Valdek; Unt, Tarmo; Oja Acik, Ilona IOP conference series : materials science and engineering 2015 / p. 1-5 : ill <https://doi.org/10.1088/1757-899X/77/1/012012> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The development of a polymer synthetic receptor for class-selective detection of macrolide antibiotics

Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 42 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Ultrathin polypyrrole films on silicon substrates

Intelmann, Carl Matthias; **Sõritski, Vitali;** Tsankov, Dimiter; Hinrichs, Karsten; Rappich, Jörg Electrochimica acta 2008 / 11, p. 4046-4050 : ill