

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

Kidakova, Anna; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Söritski, 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; Söritski, 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; Söritski, 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; Söritski, 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; Söritski, Vitali; Tretjakov, Aleksei Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 40-44 : ill

Class-selective molecularly imprinted polymer-based sensor for macrolideantibiotics detection

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

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

Boroznjak, Roman; Lomaka, Andre; Söritski, 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; Söritski, 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](#)

Corrosion behavior of polypyrrole coated mild steel

Reut, Jekaterina; Öpik, Andres; Idla, Katrin Synthetic metals 1999 / p. 1392-1393: ill

Corrosion behavior of polypyrrole coated mild steel

Reut, Jekaterina; Idla, Katrin; Öpik, Andres International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 157 <https://www.sciencedirect.com/science/article/abs/pii/S0379677998010364>

Corrosion behavior of polypyrrole coated mild steel

Reut, Jekaterina; Idla, Katrin; Öpik, Andres International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 157 <https://www.sciencedirect.com/science/article/pii/S0379677998010364>

Corrosion protective properties of polypyrrole films on mild steel

Reut, Jekaterina; Öpik, Andres; Forsen, Olof; Idla, Katrin Proceedings of Eurocorr'98, Utrecht, Netherlands, Sept. 28 - Oct. 1, 1998 1998 / [5] p. [CD-ROM]

Covalent surface imprinting strategy of electrosynthesized PEDOT films for protein recognition

Kaev, Jevgeni; Reut, Jekaterina; Söritski, 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; Sõritski, 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; Sõritski, 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; Sõritski, 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; Sõritski, 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; Sõritski, 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; Sõritski, 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 MIP sensors for antibiotics

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Sõritski, 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; Sõritski, 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; Sõritski, 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/1zR0jNBF1ayQ3AdKqX4YrCzpE00iSex/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; Sõritski, 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; Sõritski, Vitali; Lõokene, 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 detection of brain-derived neurotrophic factor by molecularly-imprinted polymer on screen-printed electrode

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. : 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 (redox) behaviour of microporous polyethylene-based conducting polypyrrole composites

Reut, Jekaterina; Rosova, Elena; Elyashevich, Galina K.; Idla, Katrin; Öpik, Andres Proceedings of the Estonian Academy of Sciences. Chemistry 2003 / 3, p. 108-119 : ill

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 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://fmdk.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 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 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>

Elektritjuhtiv lahustuv polüpürrool legeeritud dodetsüülbenseensulfonaat- ja beeta-naftaleensulfonaatioonide seguga

Reut, Jekaterina; Õpik, Andres XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 115-116

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](#)

Environmental QCM sensors coated with polypyrrole

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

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Öpik, 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; Öpik, 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>

EQCM study enantioselective uptake of aspartic acid with overoxidized polypyrrole films

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

Hybrid molecularly imprinted polymer for amoxicillin detection

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Furchner, Andreas; Sõritski, Vitali Biosensors and bioelectronics 2018 / p. 102-107 : ill <https://doi.org/10.1016/j.bios.2018.07.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Immunoglobuliini orienteeritud immobilisatsioon aluspinnaal : valkude molekulaarse jäljendamise meetoodika täiustamine

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

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](#)

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

Ayankojo, Akinrinade George; 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. [214]

Micropatterned surface imprinted PEDOT films for selective protein recognition

Sõritski, Vitali; Kaev, Jevgeni; Reut, Jekaterina; Öpik, 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; Öpik, 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.; Öpik, 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; Öpik, 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; Öpik, Andres; Söritski, 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; Söritski, Vitali; Reut, Jekaterina; Öpik, 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; Söritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Öpik, 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; Söritski, 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; Söritski, 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; Söritski, 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; Söritski, 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; Söritski, 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; Söritski, 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 Polymer-modified Electrodes for Electrochemical Sensing of Emerging Aqueous Pollutants = Molekulaarselt jäljendatud polümeeriga modifitseeritud elektroodid esilekerkivate veesaasteainete elektrokeemiliseks tuvastamiseks
Nguyen, Vu Bao Chau 2025 https://www.ester.ee/record=b5758187*est <https://digikogu.taltech.ee/et/Item/0bef1a7a-5369-4053-9eab-af6bd9bcb11b> <https://doi.org/10.23658/taltech.64/2025>

Molecularly imprinted polymers : a new approach to the preparation of functional materials
Öpik, Andres; Menaker, Anna; Reut, Jekaterina; Söritski, 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; Söritski, 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; Söritski, Vitali Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 44 [Molecularly imprinted polymers ...](#)

Molecularly imprinted poly(meta-phenylenediamine) based QCM sensor for detecting Amoxicillin
Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Söritski, 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-etiüleendioksütiofeeni) 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

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

New electroactive composite systems based on microporous polyethylene films with nanoscale structure

Elyashevich, Galina K.; Rosova, Elena; Kuryndin, I.; Dmitriev, I.; Sidorovich, A.; **Reut, Jekaterina** Proceedings of MACRO 2004 : World Polymer Congress : 40th IUPAC International Symposium on Macromolecules : Symposia 2.2, Nano and Mesoscale Polymeric Materials 2005 / ? p

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://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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](#)

Polüüpürrooli elektrokeemiline süntees vesilahustes = A study of the electrochemical synthesis of polypyrrole from aqueous solution on stainless steel electrode

Reut, Jekaterina; Idla, Katrin XVII Eesti keemiapäevad : teaduskonverentsi ettekannete refereaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 167-168 https://www.ester.ee/record=b1070511*est

Polüüpürrooliga modifitseeritud elektrit juhtiva mikropoore polüetüleeni elektrokeemilised omadused

Reut, Jekaterina; Rosova, E.Yu.; Elyashevich, Galina K.; **Idla, Katrin; Öpik, Andres** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 114-115

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

Polypyrrole coatings on conducting and insulating substrates

Reut, Jekaterina 2004 https://www.ester.ee/record=b1884787*est

Preparation and characterization of multilayer system consisting of the soluble and electrochemically synthesized polypyrrole films

Reut, Jekaterina; Reut, N.; Öpik, Andres International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000 / p. 5-SunA109
https://www.researchgate.net/publication/243345790_Preparation_and_characterization_of_multilayer_Systems_consisting_of_the_soluble_and_electrochemically_synthesized_polypyrrole_films

Preparation and characterization of multilayer systems consisting of the soluble and electrochemically synthesized polypyrrole films

Reut, Jekaterina; Reut, N.; Öpik, Andres Synthetic metals 2001 / 1/3, p. 81-82 : ill

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/>

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 Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 227-237 : ill., fot https://www.ester.ee/record=b5208765*est

Soluble conducting polypyrrole doped with mixed dodecylbenzen sulfonate and beta-naphtalene sulfonate

Reut, Jekaterina; Öpik, Andres Proceedings of Baltic Polymer Symposium 2001 : Oct. 11-12 in Tallinn 2001 / p. 243-248 : ill

A study of the electrochemical synthesis of polypyrrole from aqueous solution on stainless steel electrode

Reut, Jekaterina; Idla, Katrin; Öpik, Andres Proceedings of the Estonian Academy of Sciences. Chemistry 1996 / 3/4, p. 152-159

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

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

Ayankojo, Akinrinade George; Reut, Jekaterina; Söritski, 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

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

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