

Alumina-graphene hybrid materials for electrochemical sensing of bio-analytes = Alumiiniumoksiid-graafenhübridmaterjalid biovedelike elektrokeemiliseks tuvastamiseks

Taleb, Masoud 2018 <https://digi.lib.ttu.ee/ii/?11202> https://www.ester.ee/record=b5180418*est

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](#)

Bioanalysis of heavy metals from soils and sediments using recombinant luminescent bacterial sensors

Ivask, Angela; Kahru, Anne; Kunttu, K.; Virta, Marko; Douay, Francis; Dubourguier, Henri-Charles Toxicology letters 2002 / p. S101

Biosensors for environmental monitoring

2019 <https://doi.org/10.5772/intechopen.73763>

Biotests and biosensors in ecotoxicological risk assessment of field soils polluted with zinc, lead, and cadmium

Kahru, Anne; Ivask, Angela; Kasemets, Kaja; Põllumaa, Lee; Kurvet, Imbi; Francois, Matthieu; Dubourguier, Henri-Charles Environmental toxicology and chemistry 2005 / 11, p. 2973-2982

Challenges and Applications of Impedance-Based Biosensors in Water Analysis

Kivirand, Kairi; Min, Mart; Rinken, Toonika Biosensors for environmental monitoring 2019 <https://doi.org/10.5772/intechopen.89334>

Characterizing the biofunctionalization of gold surface with total internal reflection fluorescence (TIRF) microscopy

Ehrminger, Robin Benjamin; Kopantšuk, Sergei; Kivirand, Kairi; Min, Mart Proceedings of the Estonian Academy of Sciences 2020 / p. 27-34 : ill <https://doi.org/10.3176/proc.2020.1.02> http://www.kirj.ee/33001/?tpl=1061&c_tpl=1064 [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative investigation of the graphene-on-silicon carbide and CVD graphene as a basis for biosensor application

Sleptšuk, Natalja; Lebedev, Alexander A.; Elisayev, Ilya; Korolkov, Oleg; Toompuu, Jana; Land, Raul; Mikli, Valdek; Zubov, Alexander; Rang, Toomas Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 185-190 : ill https://www.ester.ee/record=b5235278*est <https://www.scientific.net/KEM.799.185> <https://doi.org/10.4028/www.scientific.net/KEM.799.185> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Detection of bioavailable heavy metals in EILATox-Oregon samples using whole-cell luminescent bacterial sensors in suspension or immobilized onto fibre-optic tips

Hakkila, K.; Green, T.; Leskinen, P.; Ivask, Angela; Marks, R.; Virta, Marko Journal of applied toxicology 2004 / 5, p. 333-342 <https://pubmed.ncbi.nlm.nih.gov/15478176/>

Determination of penicillins in milk by a dual-optrode biosensor

Kagan, Margarita; Printsman, Gunnar; Kivirand, Kairi; Rinken, Toonika Analytical letters 2017 / p. 819-828 : ill <https://doi.org/10.1080/00032719.2016.1202957>

Development and application of biosensors

Kulys, J. Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 18

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 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 bacterial biosensors and human stem cell-based in vitro assays for the toxicological profiling of synthetic nanoparticles = Rekombinantsetel sensorbakteritel ja inimese tüvirakkudel põhinevate in vitro testide väljatöötamine sünteetiliste nanoosakeste toksikoloogiliseks uurimiseks

Bondarenko, Olesja 2012 <https://digi.lib.ttu.ee/ii/?794>

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/1zR0jNBF1ayQ3AdKqX4YrCztpE00iSex/view>

Dynamic fluorescence penicillin biosensor for on-line monitoring of benzylpenicillin hydrolysis

Käär, Arvo; Kasche, V.; Renken, E.; Schietke, G. Tallinna Tehnikaülikooli Toimetised 1991 / lk. 12-22: ill

Eesti teadlase leiutatud sensor võib olla abiks hingamisraskustega inimeste ravil [Võrguväljaanne]

Loite, Sander novaator.err.ee 2020 / video [Eesti teadlase leiutatud sensor võib olla abiks hingamisraskustega inimeste ravil](#)

Eestist alguse saanud tehnoloogia võib muuta miljonite naiste elu

postimees.ee 2025 <https://tervis.postimees.ee/8279351/eestist-alguse-saanud-tehnoloogia-voib-muuta-miljonite-naiste-elu>

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>

An evaluation of boar spermatozoa as a biosensor for the detection of sublethal and lethal toxicity

Castagnoli, Emmanuelle; Salo, Johanna; Toivonen, Matti S.; **Kurnitski, Jarek** Toxins 2018 / art. 463, 15 p. : ill
<https://doi.org/10.3390/toxins10110463> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fabrication methods for microfluidic lab-on-chips

Giannitsis, Athanasios; Min, Mart BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 69-72

Fluorescence-based NAPH-biosensors for the measurement of lactate and glutamate

Käär, Arvo; Renken, E.; Radtke, C.; Schietke, G.; Kasche, V. 5th European Congress on Biotechnology : abstract book, Copenhagen, 1990 1990

Fundamentals, recent advances, and future challenges in bioimpedance devices for healthcare applications

Naranjo-Hernandez, David; Reina-Tosina, Javier; **Min, Mart** Journal of sensors 2019 / art. 9210258, 42 p. : ill
<https://doi.org/10.1155/2019/9210258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Immobiliseeritud mikroorganismidega fenoolitundlik biosensor

Orupõld, K.; Tenno, T. XVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 16th Estonian chemistry days : abstracts of scientific conference 1995 / lk. 98-99

Immunodetection of Streptococcus uberis pathogen in raw milk

Mihklepp, Kaisa; **Kivirand, Kairi**; Juronen, Delia; **Lõokene, Aivar**; Rinken, Toonika Enzyme and microbial technology 2019 / art. 109360, 6 p. : ill <https://doi.org/10.1016/j.enzmictec.2019.109360> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Integration of biosensors and associated electronics on lab-on-chip devices

Giannitsis, Athanasios; Parve, Toomas; Min, Mart Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 61-66 : ill

Introductory chapter: The prospective of biosensing in environmental monitoring

Kivirand, Kairi; Rinken, Toonika Biosensors for environmental monitoring 2019 <https://doi.org/10.5772/intechopen.85981>

Latest research trends in gait analysis using wearable sensors and machine learning: A systematic review

Saboor, Abdul; Kask, Triin; Kuusik, Alar; Alam, Muhammad Mahtab; Le Moullec, Yannick IEEE Access 2020 / art. 3022818, p. 167830-167864 <https://doi.org/10.1109/ACCESS.2020.3022818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lead and Cu in contaminated urban soils : extraction with chemical reagents and bioluminescent bacteria and yeast

Peltola, Pasi; **Ivask, Angela**; Aström, Mats; Virta, Marko Science of the total environment 2005 / 1/3, p. 193-203 : ill
<https://www.sciencedirect.com/science/article/pii/S0048969705000707>

Luminesceeruvad bakteriaalsed biosensorid raskemetallide määramiseks

Ivask, Angela; Karp, M.; **Kahru, Anne**; Virta, Marko Eesti Mikrobioloogide Ühenduse konverents : 12.05.2000, Tartu = Conference of the Estonian Society for Microbiology : 12.05.2000, Tartu 2000 / l. 16

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](#)

Microbial biosensors

Vanatalu, Kalju Biosensors : shedule abstracts and notes Ph.D. Course, 20-24 Nov. 1995 / University of Copenhagen, The Danish Natural Sciences Academy 1995 / p. 50-55

Microfabrication of biomedical lab-on-chip devices : a review

Giannitsis, Athanasios Estonian journal of engineering 2011 / p. 109-139 : ill

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 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

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

Optical fiber biosensor for the detection of mercury

Green, T.; **Ivask, Angela**; Polyak, B.; Virta, Marko; Marks, R. Toxicology letters 2002 / p. S58-S59

Optimization of signals of biosensors based on pH-dependent fluorescence changes

Käärd, Arvo; Renken, E.; Kasche, V. Biochemical engineering, environmental biotechnology, recovery of bio-products, safety in biotechnology 1989 / p. [?]

Perspectives of using biosensors in fermentation

Vanatalu, Kalju Biosensors : shedule abstracts and notes Ph. D. Course, 20-24 Nov. 1995 / University of Copenhagen, The Danish Natural Sciences Academy 1995 / p. 126-131

Photobacteria as whole-cell biosensors in environmental toxicology

Kahru, Anne; Kurvet, Madis; Külm, I. XIII Scandinavian Workshop on In Vitro Toxicology, Tampere, Finland, 21-24.9.1995 : abstracts 1995 / p. 73

Polyenzyme electrochemical analytical systems

Laurinavicius, V.; Kurtinaitiene, B.; Meshkys, R.; Cicenienė, R.; Marcinkeviciene, L. Biobalt'92 : Biotechnology in Estonia, Latvia and Lithuania : Tallinn, November 1992 : conference abstracts 1992 / p. 66

Principles of signal generation and of coupling to optical fibres: Dynamic fluorescence biosensors

Käärd, Arvo; Kasche, V.; Renken, E. Biosensors. Applications in medicine, environmental protection and process control 1989 / p. [?]

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

QUADRA impedance spectroscopy devices for dynamic measurements of bio-objects

Rist, Marek; Reidla, Marko; Märten, Olev; Min, Mart; Annus, Paul; Land, Raul; Parve, Toomas 34th Annual International IEEE EMBS Conference : August 28 - September 1, 2012, Hilton Bayfront Hotel in San Diego, California, USA : abstracts 2012 / p. 557 : ill

The development of an automatic on-line dynamic fluorescence-based pH-dependent fiber optic penicillin flow-through biosensor for the control of the benzylpenicillin-hydrolysis : [diss.]

Käärd, Arvo 1993 https://www.ester.ee/record=b1064303*est

Toxicity profiling of 24 l-phenylalanine derived ionic liquids based on pyridinium, imidazolium and cholinium cations and varying alkyl chains using rapid screening Vibrio fischeri bioassay

Kusumahastuti, Dewi Kurnianingsih Arum; Sihtmäe, Mariliis; Kapitanov, Illia; Karpichev, Yevgen; Gathergood, Nicholas; Kahru, Anne Ecotoxicology and environmental safety 2019 / p. 556-565 : ill <https://doi.org/10.1016/j.ecoenv.2018.12.076> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Гормоны под контролем: эстонская технология меняет жизнь миллионов женщин

Флуоресцентный pH-биосенсор для контроля биотехнического гидролиза пенициллина

Käär, Arvo; Каше В.; Renken, E.; Шитке Т. Биотехнология 1991 / с. 76-78

Флуоресцентный pH-биосенсор для контроля биотехнического гидролиза пенициллина : оптимизация измерения сигнала концентраций пенициллина

Käär, Arvo; Швелленбах А.; Каше В.; Renken, E. Журнал аналитической химии 1992 / 10, с. 1032-1039