

### **Achieving nitrification and anammox enrichment in a single moving-bed biofilm reactor treating reject water**

Zekker, Ivar; Rikmann, Ergo; Tenno, Taavo; Saluste, Anne; Tomingas, Martin; **Menert, Anne**; **Loorits, Liis**; Lemmiksoo, Vallo; Tenno, Toomas Environmental technology 2012 / p. 703-710 : ill <https://pubmed.ncbi.nlm.nih.gov/22629646/>

### **Achieving nitrification and anammox enrichment in single moving bed biofilm reactor treating reject water**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; Saluste, Anne; Lemmiksoo, Vallo; **Menert, Anne**; **Loorits, Liis**; Tenno, Taavo AGRO 2011 : 8th IWA International Symposium on Waste Management Problems in Agroindustries : Cesme, Izmir, Turkey, 22-24 June 2011 : proceedings. 2 2011 / p. 827-828 <https://www.tandfonline.com/doi/full/10.1080/09593330.2011.588962>

### **Aktiivsöe valmistamise võimalused biomudast**

**Pikkov, Lui**; **Kallas, Juha**; **Rikmann, Ergo** XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 107

### **Ameliorating effect of nitrate on nitrite inhibition for denitrifying P-accumulating organisms**

Zekker, Ivar; Mandel, Anni; Rikmann, Ergo; **Jaagura, Madis**; Salmar, Siim; Ghangrekar, Makarand Madhao; Tenno, Taavo Science of the total environment 2021 / art. 149133, 10 p. : ill <https://doi.org/10.1016/j.scitotenv.2021.149133> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

### **An investigation and microcalorimetric monitoring of anaerobic treatment of concentrated waste in the cheese industry**

**Blonskaja, Viktoria**; **Mölder, Heino**; **Menert, Anne**; **Rikmann, Ergo**; **Vilu, Raivo** European water management 2001 / 1, p. 59-64 : ill

### **An investigation and microcalorimetric monitoring of anaerobic treatment of concentrated waste in the cheese industry**

**Blonskaja, Viktoria**; **Mölder, Heino**; **Menert, Anne**; **Rikmann, Ergo**; **Vilu, Raivo** Copenhagen Waste and Water Conference '99 including EcoProcura Copenhagen '99 : The 2nd International Conference on Integrated Sustainable Waste and Water Management and Green Procurement : June 1-3, 1999 : conference proceedings 1999 / [3] p [https://www.researchgate.net/publication/224858929\\_An\\_investigation\\_and\\_microcalorimetric\\_monitoring\\_of\\_anaerobic\\_treatment\\_of\\_concentrated\\_waste\\_in\\_the\\_cheese\\_industry](https://www.researchgate.net/publication/224858929_An_investigation_and_microcalorimetric_monitoring_of_anaerobic_treatment_of_concentrated_waste_in_the_cheese_industry)

### **Anaerobic ammonium oxidation process performance with optimum bicarbonate concentration**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; **Menert, Anne**; Tomingas, Martin; Kroon, K.; Vabamäe, Priit; Tenno, Taavo Agricultural research : abstract book from the 4th Annual International Symposium on Agricultural Research : 18-21 July 2011, Athens, Greece 2011 / p. 69-71 : ill

### **Anaerobic mesophilic digestion of sludge with extra-thermophilic and high pH pre-treatment**

**Menert, Anne**; **Rikmann, Ergo**; Michelis, Merje; **Vaalu, Tarmo**; **Blonskaja, Viktoria**; **Vilu, Raivo** 4th Conference on the Establishment of Cooperation between Companies and Institutions in the Baltic Sea Region (Kalmar Eco-Tech'03) : 25-27 November, 2003, Kalmar, Sweden : book of abstracts 2003 / p. 115 <https://open.lnu.se/index.php/eco-tech/article/view/2102>

### **Anaerobic mesophilic digestion of sludge with extra-thermophilic and high pH pre-treatment**

**Menert, Anne**; **Rikmann, Ergo**; Michelis, Merje; **Vaalu, Tarmo**; **Blonskaja, Viktoria**; **Vilu, Raivo** Proceedings of 4th Conference on the Establishment of Cooperation between Companies and Institutions in the Baltic Sea Region 2005 / p. 451-463 <https://open.lnu.se/index.php/eco-tech/article/view/2102>

### **Anaeroobse ammoniumlammastiku oksüdatsiooni protsessi kiirendamine NH<sub>2</sub>OH ja N<sub>2</sub>H<sub>4</sub>-ga**

Zekker, Ivar; Kroon, K.; Rikmann, Ergo; Tenno, Toomas; **Menert, Anne**; Tenno, Taavo XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 114 [https://www.ester.ee/record=b2679915\\*est](https://www.ester.ee/record=b2679915*est)

### **Analysis of extracellular polymeric substances from pre-treated sludge by high-performance size exclusion chromatography**

**Lepane, Viia**; **Menert, Anne**; Michelis, Merje; **Rikmann, Ergo**; **Vilu, Raivo** International Symposium Analytical Forum 2004 : Warsaw, Poland : Book of abstracts 2004 / p. 202

### **Anammox bacteria enrichment and phylogenetic analysis in moving bed biofilm reactors**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; Vabamäe, Priit; Tomingas, Martin; **Menert, Anne**; **Loorits, Liis**; Tenno, Taavo Environmental engineering science 2012 / p. 946-950 <https://www.liebertpub.com/doi/abs/10.1089/ees.2011.0146?journalCode=ees>

### **Anammox enrichment from reject water on blank biofilm carriers and carriers containing nitrifying biomass : operation of two moving bed biofilm reactors (MBBR)**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; Lemmiksoo, Vallo; **Menert, Anne**; **Loorits, Liis**; Vabamäe, Priit; Tomingas, Martin; Tenno, Taavo Biodegradation 2012 / p. 547-560 : ill [https://www.researchgate.net/publication/221811952\\_Anammox\\_enrichment\\_from\\_reject\\_water\\_on\\_blank\\_biofilm\\_carriers\\_and\\_carriers\\_containing\\_nitrifying\\_biomass\\_Operation\\_of\\_two\\_moving\\_bed\\_biofilm\\_reactors\\_MBBR](https://www.researchgate.net/publication/221811952_Anammox_enrichment_from_reject_water_on_blank_biofilm_carriers_and_carriers_containing_nitrifying_biomass_Operation_of_two_moving_bed_biofilm_reactors_MBBR)

### **ANAMMOX-denitrification biomass in microbial fuel cell to enhance the electricity generation and nitrogen removal efficiency**

Zekker, Ivar; Bhowmick, Gourav Dhar; Priks, Hans; Nath, Dibyojyoti; Rikmann, Ergo; **Jaagura, Madis** Biodegradation 2020 / p. 249 - 264 <https://doi.org/10.1007/s10532-020-09907-w> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

### **Biolagunevate jäätmete fermentatsioon taastuvate energiaallikate saamiseks**

**Menert, Anne**; Michelis, Merje; Rikmann, Ergo; **Blonskaja, Viktoria**; **Kaljurand, Mihkel**; Kallaste, Tiit TEUK XII : taastuvate energiaallikate uurimine ja kasutamine : kaheteistkümnenda konverentsi kogumik 2010 / lk. 49-59 : ill

### **Biological treatment of anaerobic digester supernatant by anaerobic ammonium oxidation method in UASB system**

Tomingas, Martin; Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; **Menert, Anne**; Kroon, Kristel; Tenno, Taavo SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 140

### **Characteristics of activated carbon produced from biosludge and its use in wastewater post-treatment**

**Pikkov, Lui**; **Kallas, Juha**; **Rüütman, Tiia**; **Rikmann, Ergo** Environmental technology 2001 / p. 229-236 : ill

### **Comparison of sulfate-reducing and conventional Anammox upflow anaerobic sludge blanket reactors**

Rikmann, Ergo; Zekker, Ivar; Tomingas, Martin; Vabamäe, Priit; Kroon, Kristel; Saluste, Alar; Tenno, Taavo; Menert, Anne; Rubin, Sergio S.C. Journal of bioscience and bioengineering 2014 / p. 426-433 : ill <https://doi.org/10.1016/j.jbiosc.2014.03.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Deammonification process start-up after enrichment of anammox microorganisms from reject water in a moving-bed biofilm reactor**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; Kroon, Kristel; Vabamäe, Priit; Salo, Erik; Tenno, Taavo; **Loorits, Liis**; Dc Rubin, Sergio S. C.; Vlaeminck, Siegfried E. Environmental Technology (United Kingdom) 2013 / p. 3095 - 3101 <https://doi.org/10.1080/09593330.2013.803134> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of bicarbonate concentration on Anaerobic ammonium oxidation for efficient autotrophic nitrogen removal**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; **Menert, Anne**; Lemmiksoo, Vallo; Kolberg, K.; Tenno, Taavo IWA Specialist Conference Water and Industry : Valladolid, Spain, 1-4 May 2011 : final program 2011 / p. 16

### **Enhanced efficiency of nitrifying-anammox sequencing batch reactor achieved at low decrease rates of oxidation-reduction potential**

Zekker, Ivar; Kivirüüt, Aimar; Rikmann, Ergo; Mandel, Anni; **Jaagura, Madis**; Tenno, Toomas; Artemchuk, Oleg; Rubin, Sergio Dc; Tenno, Taavo Environmental Engineering Science 2019 / p. 350-360 <https://doi.org/10.1089/ees.2018.0225> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Influence of thermal pre-treatment on mesophilic anaerobic digestion of sludges**

**Menert, Anne**; **Vaalu, Tarmo**; **Michelis, Merje**; **Blonskaja, Viktoria**; **Rikmann, Ergo**; **Mets, Aita**; **Vilu, Raivo** The 7th International Conference : Environmental Engineering : May 22-23, 2008, Vilnius, Lithuania : selected papers. Volume II, Water engineering. Energy for buildings 2008 / p. 625-635 : ill

### **Mainstream-sidestream wastewater switching promotes anammox nitrogen removal rate in organic-rich, low-temperature streams**

Zekker, Ivar; Raudkivi, Markus; Artemchuk, Oleg; Rikmann, Ergo; Priks, Hans; **Jaagura, Madis**; Tenno, Taavo Environmental technology 2021 / 10 p. : ill <https://doi.org/10.1080/09593330.2020.1721566> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modification of nitrifying biofilm into nitrifying one by combination of increased free ammonia concentrations, lowered HRT and dissolved oxygen concentration**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; **Menert, Anne**; Lemmiksoo, Vallo; Saluste, Anne; Tenno, Taavo; Tomingas, Martin Journal of environmental sciences 2011 / p. 1113-1121 : ill <https://www.sciencedirect.com/science/article/pii/S1001074210605232>

### **Nitric oxide for anammox recovery in a nitrite-inhibited deammonification system**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; **Loorits, Liis**; Kroon, Kristel; Fritze, Hannu; Tuomivirta, Tero; Vabamäe, Priit; Raudkivi, Markus; Mandel, Anni; Rubin, Sergio S.C.; Tenno, Taavo Environmental Technology (United Kingdom) 2015 / p. 2477 - 2487 <https://doi.org/10.1080/09593330.2015.1034791>

### **Nitrifying-anammox biomass tolerant to high dissolved oxygen concentration and C/N ratio in treatment of yeast factory wastewater**

Zekker, Ivar; Rikmann, Ergo; Tenno, Toomas; **Seiman, Andrus**; **Loorits, Liis** Environmental technology 2014 / p. 1565-1576 : ill <https://doi.org/10.1080/09593330.2013.874492> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Possibilities of production of active carbon from biological sludge**

**Pikkov, Lui**; **Kallas, Juha**; **Rikmann, Ergo** 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 117

### **Recycling bitumen for composite material production : Potential applications in the construction sector**

Rikmann, Ergo; Mäeorg, Uno; Vaino, Neeme; Pallav, Vello; **Järvik, Oliver**; Liiv, Jüri Applied Sciences (Switzerland) 2025 / art. 1313 <https://doi.org/10.3390/app15031313>

### **Research of specific nitrite oxidation rate on high surfaced biofilms carriers with free ammonia and temperature variations**

Zekker, Ivar; Tenno, Toomas; Tenno, Taavo; Lemmiksoo, Vallo; Rikmann, Ergo; **Menert, Anne**; Kolberg, K. 3rd EuCheMS Chemistry Congress : Chemistry - the Creative Force : 29.08.-02.09.2010, Nürnberg, Germany : [abstracts] 2010 / [1] p  
<https://www.etis.ee/Portal/Publications/Display/e183db0e-18fc-43e3-9bab-bdc76c638e92>

### **Specific nitrite oxidation rate on high surfaced biofilm carriers dependent on free ammonia and temperature**

Zekker, Ivar; Tenno, Toomas; Tenno, Taavo; Lemmiksoo, Vallo; Rikmann, Ergo; **Menert, Anne**; Kolberg, K.; Tomingas, Martin; Kroon, K.; Vabamäe, Priit 2nd Workshop on Bacterial and Fungal Biofilms : Ghent University Center for Sociomicrobiology, 22 September 2011 2011  
<https://www.etis.ee/Portal/Publications/Display/33df8771-46e4-46c6-a2da-dbd4efb91a17>

### **Start-up of low-temperature anammox in UASB from mesophilic yeast factory anaerobic tank inoculum**

Zekker, Ivar; Rikmann, Ergo; **Seiman, Andrus**; **Loorits, Liis** Environmental technology 2015 / p. 214-225 : ill

### **Step-wise temperature decreasing cultivates a biofilm with high nitrogen removal rates at 9°C in short-term anammox biofilm tests**

Zekker, Ivar; Rikmann, Ergo; Mandel, Anni; Kroon, Kristel; **Seiman, Andrus**; Mihkelson, Jana; Tenno, Taavo; Tenno, Toomas Environmental technology 2016 / p. 1933 - 1946  
<https://doi.org/10.1080/09593330.2015.1135995> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sulfate-dependent anaerobic ammonium oxidation in baker's yeast wastewater**

**Rikmann, Ergo**; **Menert, Anne**; **Blonskaja, Viktoria**; Kurissoo, Tõnu; Zub, Sergei; Tenno, Toomas Book of abstracts of the 7th International Conference ORBIT 2010 : Organic Resources in the Carbon Economy : 29th June to 3rd July 2010 Heraklion Crete, Greece 2010 / p. 204  
<https://www.sei.org/publications/sulfate-dependent-anaerobic-ammonium-oxidation-bakers-yeast-wastewater/>

### **Sulfate-reducing anaerobic ammonium oxidation as a potential treatment method for high nitrogen-content wastewater**

Rikmann, Ergo; Zekker, Ivar; Tomingas, Martin; Tenno, Toomas; **Menert, Anne**; Loorits, Liis; Tenno, Taavo AGRO 2011 : 8th IWA International Symposium on Waste Management Problems in Agroindustries : Cesme, Izmir, Turkey, 22-24 June 2011 : proceedings. 2 2011 / p. 755-762  
[https://www.researchgate.net/publication/348845233\\_Sulfate-reducing\\_anaerobic\\_ammonium\\_oxidation\\_as\\_a\\_potential\\_treatment\\_method\\_for\\_high\\_nitrogen-content\\_wastewater](https://www.researchgate.net/publication/348845233_Sulfate-reducing_anaerobic_ammonium_oxidation_as_a_potential_treatment_method_for_high_nitrogen-content_wastewater)

### **Sulfate-reducing anaerobic ammonium oxidation as a potential treatment method for high nitrogen-content wastewater**

Rikmann, Ergo; Zekker, Ivar; Tomingas, Martin; Tenno, Taavo; **Menert, Anne**; **Loorits, Liis**; Tenno, Toomas Biodegradation 2012 / p. 509-524 : ill  
[https://www.researchgate.net/publication/348845233\\_Sulfate-reducing\\_anaerobic\\_ammonium\\_oxidation\\_as\\_a\\_potential\\_treatment\\_method\\_for\\_high\\_nitrogen-content\\_wastewater](https://www.researchgate.net/publication/348845233_Sulfate-reducing_anaerobic_ammonium_oxidation_as_a_potential_treatment_method_for_high_nitrogen-content_wastewater)

### **Sulfate-reducing anammox for sulfate and nitrogen containing wastewaters**

Rikmann, Ergo; Zekker, Ivar; Tomingas, Martin; Tenno, Toomas; **Loorits, Liis**; Vabamäe, Priit; Mandel, Anni; Raudkivi, Markus; Daija, Laura; Kroon, Kristel; Tenno, Taavo Desalination and Water Treatment 2016 / p. 3132 - 3141  
<https://doi.org/10.1080/19443994.2014.984339> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)