

## Peer reviewed publications

1. Prabhu PP, Mohanty B, Lobo CL, Balusamy SR, Shetty A, Perumalsamy H, Mahadev M, **Mijakovic I**, Dubey A, Singh P (2024) Harnessing the nutraceuticals in early-stage breast cancer: mechanisms, combinational therapy, and drug delivery. *J Nanobiotechnology*, in press.
2. Ruiz JMO, Gerner E, Rahimi S, Alarcón LA, **Mijakovic I** (2024) Biofilm formation and dispersal of *Staphylococcus aureus* wound isolates in microtiter plate-based 2-D wound model. *Helyon* 10: e33872.
3. Ghai V, Pandit S, Svensson M, Larsson R, Matic A, Ngalyo R, Dash SP, Terry A, Nygard K, **Mijakovic I**, Kádár R (2024) *Adv Funct Mater* 2024: 2406875.
4. Manyumwa CV, Zhang C, Jers C, **Mijakovic I** (2024) Alpha carbonic anhydrase from *Nitratiruptor tergarcus* engineered for increased activity and thermostability. *Int J Mol Sci* 25: 5853.
5. Shi L, Derouiche A, Alazmi M, Ventroux M, Svetlicic E, Bonne Køhler J, Noiro-Gros MF, Gao X, **Mijakovic I** (2024) Connection between protein-tyrosine kinase inhibition and coping with oxidative stress in *Bacillus subtilis*. *Proc Natl Acad Sci USA* 121: e2321890121.
6. Singh P, **Mijakovic I** (2024) Harnessing barley grains for green synthesis of gold and silver nanoparticles with antibacterial potential. *Discover Nano* 19: 101.
7. Zhang J, Li A, Yu X, **Mijakovic I**, Pandit S (2024) Polydopamine modified carbon nitride and PAMAM assembled electrochemical immunosensor for detection of indole-3-acetic acid. *ChemElectroChem* 11: e202400145.
8. Tadesse BT, Svetlicic E, Zhao S, Berhan N, Jers C, Solem C, **Mijakovic I** (2024) Bad to the bone? - Genomic analysis of *Enterococcus* isolates from diverse environments reveals that most are safe and display potential as food fermentation microorganisms. *Microbiol Res* 283: 127702.
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10. More PR, Shinde S, Cao Z, Zhang J, Pandit S, De Filippis A, **Mijakovic I**, Galdiero M (2024) Antibacterial applications of biologically synthesized *Pichia pastoris* silver nanoparticles. *Helyon* 10: e25664.
11. Balasubramanian S, Bonne Køhler J, Jers C, Ruhdal Jensen P, **Mijakovic I** (2024) Exploring the secretome of *Corynebacterium glutamicum* ATCC 13032. *Front Bioeng Biotechnol* 12: 1348184.
12. **Mijakovic I**, Rahimi S (2024) Learning by teaching efficiently enhances learning outcomes in Molecular Biology of the Cell course. *Biochem Mol Biol Educ* 52: 15-24.
13. Zou G, Li T, **Mijakovic I**, Wei Y (2024) Synthetic biology enables mushrooms to meet emerging sustainable challenges. *Front Microbiol* 15: 1337398.
14. Lanai, V., Chen Y, Naumovska E, Pandit S, Schröder E, **Mijakovic I**, Rahimi S (2024) Differences in interaction of graphene/graphene oxide with bacterial and mammalian cell membranes. *Nanoscale* 16: 1156-1166.
15. Chen Y, Pandit S, Rahimi S, **Mijakovic I** (2024) Graphene nanospikes exert bactericidal effect through mechanical damage and oxidative stress. *Carbon* 218: 118740.
16. Zhang X, Miao Q, Tang B, Qu L, **Mijakovic I**, Wei Y (2023) Discovery of novel alkaline tolerant xylanases from fecal microbiota of dairy cows. *Biotechnol Biofuels* 16: 182.

17. Ruan H, Bek M, Pandit S, Aulova A, Zhang J, Bjellheim P, Lovmar M, **Mijakovic I**, Kádár R (2023) Biomimetic antibacterial gelatin hydrogels with multifunctional properties for biomedical applications. *Appl Mater Interfaces* 15: 54249-54265.
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19. Balusamy SR, Joshi AS, **Mijakovic I**, Singh P (2023) Advancing sustainable agriculture: a critical review of smart and eco-friendly nanomaterial applications. *J Nanobiotechnology* 21: 372.
20. Liang J, Zhao X, Wan D, Dai J, Zhang J, Mai W, Tang J, Shi L, **Mijakovic I**, Wei Y (2023) Long-term microbiota and performance monitoring of a highly efficient propylene oxide co-production methyl tert-butyl ether production wastewater treatment plant. *J Water Process Eng* 56: 104376.
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37. Khan F, Singh P, Joshi AS, Tabassum N, Bamunuarachchi NI, **Mijakovic I**, Kim YM. (2023) Multiple potential strategies for the application of nisin and derivatives. *Crit Rev Microbiol* 49: 628-657.
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## Book chapters:

1. Chokkiah B, Eswaran M, Annamalai P, Ramalingam M, **Mijakovic I**, Sivakumar B, Ponnusamy KV, Ramakrishnan K (2023) Trace level detection of heavy metal ions using electrochemical sensors: mercury, lead, cadmium, and chromium. *Materials Technology for the Energy and Environmental Nexus, Volume 2*. IOP Publishing Ltd. 13/1-13/33.
2. Rahimi S, Mohanan P, Zhang D, Jung KH, Yang DC, **Mijakovic I**, Kim YJ (2021) Metabolic Dynamics and Ginsenoside Biosynthesis. *The Ginseng Genome*. Springer International Publishing. 121-141.

## Patents:

1. **Mijakovic I**, Jers C, Zhang C, Manyumwa C (2024) Thermophilic bacterium comprising a surface displayed carbonic anhydrase. EU Patent App 24182851.6. Patent Assignee: Technical University of Denmark.
2. Balasubramanian S, Ruhdal Jensen P, Jers C, Mobasseri G, **Mijakovic I**, Shi L. (2024) Method to produce phosphorylated milk proteins in microbes. US Patent App 18/390, 266. P6930US00-CLI. Patent Assignee: Technical University of Denmark.

3. Kádár R, **Mijakovic I**, Gaska K, Pandit S, Svensson M. (2022) Antibacterial article comprising a polymer matrix with aligned nanoscale flakes of platelets. US Patent App. 17/597, 290. Patent Assignee: DENTSPLY IH AB(DENX-C)
4. Kádár R, **Mijakovic I**, Gaska K, Pandit S, Svensson M. (2021) Method for producing antibacterial surface provided on surface of device/article e.g., coating, involves providing surface of processed mixture which is oriented essentially to longitudinal directions of nanoscale flakes. Patent Number: WO2021001149-A1; EP3760243-A1. Patent Assignee: DENTSPLY IH AB(DENX-C)