

## Peer reviewed publications

1. Wei Y, Yang Y, Qu L, **Mijakovic I** (2022) Advances in the human skin microbiota and its roles in cutaneous diseases. *Microb Cell Fact*, in press.
2. Eswaran M, Chokkiah B, Pandit S, Rahimi S, Dhanusuraman R, Aleem M, **Mijakovic I** (2022) A road map towards field-effect transistor biosensor technology for early-stage cancer detection. *Small Methods*, in press.
3. Khan F, Singh P, Joshi AS, Tabassum N, Bamunuarachchi NI, **Mijakovic I**, Kim YM. (2022) Multiple potential strategies for the application of nisin and derivatives. *Crit Rev Microbiol* 23: 1-30.
4. Rahimi S, Chen Y, Zareian M, Pandit S, **Mijakovic I** (2022) Cellular and subcellular interactions of graphene-based materials with cancerous and non-cancerous cells. *Adv Drug Deliv Rev* 189: 114467.
5. Singh P, **Mijakovic I** (2022) Green synthesis and antibacterial applications of gold and silver nanoparticles from *Ligustrum vulgare* berries. *Sci Rep* 12: 7902.
6. Jiang S, Tang J, Rahimi S, **Mijakovic I**, Wei Y (2022) Efficient treatment of industrial wastewater with microbiome and synthetic biology. *Front Environ Sci* 10: 902926.
7. Singh P, **Mijakovic I** (2022) Antibacterial effect of silver nanoparticles is stronger if the production host and the targeted pathogen are closely related. *Biomedicines* 10: 628.
8. Singh P, **Mijakovic I** (2022) Strong antimicrobial activity of silver nanoparticles obtained by green synthesis in *Viridibacillus* sp. extracts. *Front Microbiol* 13: 820048.
9. Balusamy SR, Rahimi S, Sukweenadhi J, Sunderraj S, Shanmugam R, Thangavelu, L, **Mijakovic I**, Perumalsamy H (2022) Chitosan, chitosan nanoparticles and modified chitosan biomaterials, a potential tool to combat salinity stress in plants. *Carbohydr Polym* 284: 119189.
10. Neissi A, Rafiee G, Rahimi S, Farahmand H, Pandit S, **Mijakovic I** (2022) Enriched microbial communities for ammonium and nitrite removal from recirculating aquaculture systems. *Chemosphere* 295: 133892.
11. Sun J, Rattanasawatesun T, Tang P, Bi Z, Pandit S, Lam L, Wasén C, Erlandsson M, Bokarewa M, Dong J, Ding F, Xiong F, **Mijakovic I** (2022) Insights into the mechanism for vertical graphene growth by plasma-enhanced chemical vapor deposition. *ACS Appl Mater Interfaces* 14: 7152-7160.
12. Singh P, **Mijakovic I** (2022) Rowan berries: a potential source for green synthesis of extremely monodisperse gold and silver nanoparticles. *Pharmaceutics* 14: 82.
13. **Mijakovic I** (2021) Fantastic science and where to find it. *Period Biol* 123: 45-47.
14. Pandit S, Li M, Chen Y, Rahimi S, Mokkapati VRSS, Merlo A, Yurgens A, **Mijakovic I** (2021) Graphene-based sensor for detection of bacterial pathogens. *Sensors* 21: 8085.
15. Chen Y, Pandit S, Rahimi S, **Mijakovic I** (2021) Interactions between graphene-based materials and biological surfaces: a review of underlying molecular mechanisms. *Adv Mater Interfaces* 2101132.
16. Pandit S, Konzock O, Leistner K, Mokkapati VRSS, Merlo A, Sun J, **Mijakovic I** (2021) Graphene coated magnetic nanoparticles facilitate the release of biofuels and oleochemicals from yeast cell factories. *Sci Rep* 11: 20612.
17. Helalat SH, Jers C, Bebahani M, Mohabatkar H, **Mijakovic I** (2021) Metabolic engineering of *Deinococcus radiodurans* for pinene production from glycerol. *Microb Cell Fact* 20:187.
18. Singh P, Pandit S, Jers C, Joshi AS, **Mijakovic I** (2021) Silver nanoparticles produced from *Cedecea* sp. exhibit antibiofilm activity and remarkable stability. *Sci Rep* 11: 12619.

19. Singh P, **Mijakovic I** (2021) Advances in gold nanoparticle technology as a tool for diagnostics and treatment of cancer. *Exp Rev Mol Diagn* 3: 1-4.
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21. Sultan A, Jers C, Ganief TA, Shi L, Senissar M, K hler JB, Macek B, **Mijakovic I** (2021) Phosphoproteome study of *Escherichia coli* devoid of Ser/Thr kinase YeaG during the metabolic shift from glucose to malate. *Front Microbiol* 12: 771.
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23. Pandit S, Gaska K, K d r R, **Mijakovic I** (2021) Graphene based antimicrobial biomedical surfaces. *Chem Phys Chem* 22: 250-263.
24. Neissi A, Rafiee G, Farahmand H, Rahimi S, **Mijakovic I** (2020) Improvement of waterborne using *Dyadobacter* sp. (No. 68) and *Janthinobacterium* sp. (No. 100) bacteria and comparing the hematological indices in a recirculating rainbow trout (*Oncorhynchus mykiss*) culture system. *J Anim Environ* 12: 353-358.
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32. Rahimi S, Modin O, **Mijakovic I** (2020) Technologies for biological removal and recovery of nitrogen from wastewater. *Biotechnol Adv* 43: 107570.
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38. Pandit S, Gaska K, Mokkapati VRSS, Svensson M, Forsberg S, Kádár R, **Mijakovic I** (2020) Pre-controlled alignment of graphite nanoplatelets in polymeric composites prevents bacterial attachment. *Small* 16: e1904756.
39. Othoum G, Prigent S, Derouiche A, Shi L, Bokhari A, Alamoudi S, Bougouffa S, Gao X, Hoehndorf R, Arold S, Gojobori T, Hirt H, Lafi F, Nielsen J, Bajic V, **Mijakovic I**, Essack M (2019) Comparative genomics study reveals Red Sea *Bacillus* with characteristics associated with potential microbial cell factories (MCFs). *Sci Rep* 9: 19254.
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46. Jers C, Kalantari A, Garg A, **Mijakovic I** (2019) Production of 3-hydroxypropanoic acid from glycerol by metabolically engineered bacteria. *Front Bioeng Biotechnol* 7:124.
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## Book chapters:

1. 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. 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.
2. 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)