

Peer reviewed publications

1. Singh P, **Mijakovic I** (2022) Green synthesis and antibacterial applications of gold and silver nanoparticles from *Ligustrum vulgare* berries. Sci Rep: in press.
2. 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.
3. 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.
4. Singh P, **Mijakovic I** (2022) Strong antimicrobial activity of silver nanoparticles obtained by green synthesis in *Viridibacillus* sp. extracts. Front Microbiol 13: 820048.
5. 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.
6. 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.
7. 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.
8. Singh P, **Mijakovic I** (2022) Rowan berries: a potential source for green synthesis of extremely monodisperse gold and silver nanoparticles. Pharmaceutics 14: 82.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. Pandit S, Rahimi S, Derouiche A, Boulaoued A, **Mijakovic I** (2021) Sustained release of usnic acid from graphene coatings ensures long term antibiofilm protection. Sci Rep 11: 9956.
16. Sultan A, Jers C, Ganief TA, Shi L, Senissar M, Køhler 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.
17. Futo M, Opasic L, Koska S, Corak N, Siroki T, Ravikumar V, Thorsell A, Kifer D, Domazet-Loso M, Vlahovicek K, **Mijakovic I**, Domazet-Loso T (2021) Embryo-like features in developing *Bacillus subtilis* biofilms. Mol Biol Evol 38: 31-47.
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20. **Mijakovic I** (2020) Evolutionary age of genes can assist in genome mining. *Period Biol* 121-122: 3-6.
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23. Pandit S, Fazilati M, Gaska K, Derouiche A, Nypelö T, **Mijakovic I**, Kádár R (2020) The exopolysaccharide component of extracellular matrix is essential for the viscoelastic properties of *Bacillus subtilis* biofilms. *Int J Mol Sci* 21: 6755.
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38. Rahimi S, Kim YJ, Kim J, **Mijakovic I**, Jung K (2019) Triterpenoid-biosynthetic UDP-glycosyltransferases from plants. *Biotechnol Adv* 7: 124.
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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. 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. Kadar R, **Mijakovic I**, Gaska K, Pandit S, Svensson M. Patent Assignee: DENTSPLY IH AB(DENX-C)