

## Peer reviewed publications

1. **Mijakovic I** (2021) Fantastic science and where to find it. *Period Biol*, in press.
2. Singh P, **Mijakovic I** (2021) Strong antimicrobial activity of silver nanoparticles obtained by green synthesis in *Viridibacillus* sp. extracts. *Front Microbiol*, in press.
3. Pandit S, Li M, Chen Y, Rahimi S, Mokkaapati VRSS, Merlo A, Yurgens A, **Mijakovic I** (2021) Graphene-based sensor for detection of bacterial pathogens. *Sensors* 21: 8085.
4. 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.
5. Pandit S, Konzock O, Leistner K, Mokkaapati 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. Pandit S, Gaska K, Kádár R, **Mijakovic I** (2021) Graphene based antimicrobial biomedical surfaces. *Chem Phys Chem* 22: 250-263.
13. 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.
14. **Mijakovic I** (2020) Evolutionary age of genes can assist in genome mining. *Period Biol* 121-122: 3-6.
15. Motwalli O, Uludag M, **Mijakovic I**, Alazmi Meshari, Bajic V, Gojobori T, Gao Xin, Essack M (2020) PATHcre8: A tool that facilitates the searching for heterologous biosynthetic routes. *ACS Synth Biol* 9: 3217-3227.
16. Joshi AS, Singh P, **Mijakovic I** (2020) Interactions of gold and silver nanoparticles with bacterial biofilms: molecular interactions behind inhibition and resistance. *Int J Mol Sci* 21: 7658.
17. 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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22. Singh P, Pandit S, Mokkaapati VRSS, Garn es J, Jers C, **Mijakovic I** (2020) A sustainable approach for the green synthesis of silver nanoparticles from *Solibacillus isronensis* sp. and their application in biofilm inhibition. *Molecules* 25: 2783.
23. Rahimi S, Modin O, Roshanzamir F, Neissi A, Saheb Alam S, Seelbinder B, Pandit S, Shi L, **Mijakovic I** (2020) Co-culturing *Bacillus subtilis* and wastewater microbial community in a bio-electrochemical system enhances denitrification and butyrate formation. *Chem Eng J* 397: 125437.
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27. Pandit S, Gaska K, Mokkaapati VRSS, Svensson M, Forsberg S, K d r R, **Mijakovic I** (2020) Pre-controlled alignment of graphite nanoplatelets in polymeric composites prevents bacterial attachment. *Small* 16: e1904756.
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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. 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)