

## List of publications

1. 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.
2. Futo M, Opasic L, Koska S, Corak N, Siroki T, Ravikumar V, Thorsell A, Kifer D, Domazet-Loso M, Vlahovick K, **Mijakovic I**, Domazet-Loso T (2021) Embryo-like features in developing *Bacillus subtilis* biofilms. *Mol Biol Evol* 38: 31-47.
3. Pandit S, Gaska K, Kádár R, **Mijakovic I** (2021) Graphene based antimicrobial biomedical surfaces. *Chem Phys Chem* 22: 250-263.
4. **Mijakovic I** (2020) Evolutionary age of genes can assist in genome mining. *Period Biol* 121-122: 3-6.
5. 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.
6. 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.
7. 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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10. Bonne Køhler J, Jers C, Senissar M, Shi, Derouiche A, **Mijakovic I** (2020) Importance of protein Ser/Thr/Tyr phosphorylation for bacterial pathogenesis. *FEBS Lett* 594: 2339-2369.
11. Rahimi S, Modin O, **Mijakovic I** (2020) Technologies for biological removal and recovery of nitrogen from wastewater. *Biotechnol Adv* 43: 107570.
12. Singh P, Pandit S, Mokkapat VRSS, Garnæs 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.
13. 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.
14. Aminian-Dehkordi J, Mousavi SM, Marashi SA, Jafari A, **Mijakovic I** (2020) A systems-based approach for cyanide overproduction by *Bacillus megaterium* for gold bioleaching enhancement. *Front Bioeng Biotechnol*, 8: 528.
15. Shi L, Derouiche A, Pandit S, Rahimi S, Kalantari A, Mokkapat VRSS, Futo A, Ravikumar V, Jers C, Vlahovick K, **Mijakovic I** (2020) Evolutionary analysis of the *Bacillus subtilis* genome reveals new genes involved in sporulation. *Mol Biol Evol* 37: 1667-1678.
16. Huang C, Gonzales-Lopez C, Henry C, **Mijakovic I**, Ryan K (2020) HipBA toxin-antitoxin systems and persistence in *Caulobacter crescentus*. *Sci Rep* 10: 2865.

17. 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.
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20. Pandit S, Gaska K, Mokkapati VRSS, Forsberg S, Svensson M, Kádár R, **Mijakovic I** (2019) Antibacterial effect of boron nitride flakes with controlled orientation in polymer composites. *RSC Adv* 9: 33454-33459.
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35. Cantatore V, Pandit S, Mokkapati VRSS, Schindler S, Eigler S, **Mijakovic I**, Panas I (2018) Modeling of a novel graphene based selective bio-sensor for glucose. *Carbon* 137: 343-348.
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41. Stancik IA, Sestak MS, Ji B, Axelson-Fisk M, Franjevic D, Jers C, Domazet-Loso T, **Mijakovic I** (2018) Serine/Threonine protein kinases from bacteria, archaea and eukarya share a common evolutionary origin deeply rooted in the tree of life. *J Mol Biol* 430: 27-32.
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## 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)