

List of publications

1. Pandit S, Gaska K, Mokkapati VRSS, Svensson M, Forsberg S, Kádár R, **Mijakovic I** (2019) Pre-controlled alignment of graphite nanoplatelets in polymeric composites prevents bacterial attachment. *Small*, in press.
2. 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*, in press.
3. Aminian-Dehkordi J, Mousavi SM, Jafari A, **Mijakovic I**, Marashi SA (2019) A manually curated genome-scale reconstruction of the metabolic network in *Bacillus megaterium* DSM319. *Sci Rep*, in press.
4. 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.
5. Macek B, Forchhammer K, Hardouin J, Weber-Ban E, Grangeasse C, **Mijakovic I** (2019) Protein post-translational modifications in bacteria. *Nat Microbiol Rev* 17: 651-664.
6. Rahimi S, Kim YJ, Kim J, **Mijakovic I**, Jung K (2019) Triterpenoid-biosynthetic UDP-glycosyltransferases from plants. *Biotechnol Adv* 7: 124..
7. Othoum G, Bougouffa S, Bokhari A, Lafi FF, Gojobori T, Hirt H, **Mijakovic I**, Bajic VB, Essack M (2019) Mining biosynthetic gene clusters in *Virgibacillus* genomes. *BMC Genomics* 20: 696.
8. Xu L, WenY, Pandit S, Mokkapati VRSS, **Mijakovic I**, Li Y, Ding M, Ren S, Li W, Liu G (2019) Graphene-based biosensors for the detection of prostate cancer protein biomarkers: a review. *BMC Chemistry* 13: 112.
9. 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.
10. Gaska K, Kádár R, Xu X, Gubanski S, Müller C, Pandit S, Mokkapati VRSS, **Mijakovic I**, Rybak A, Siwek A, Svensson M (2019) Highly structured graphene polyethylene nanocomposites. *AIP Conf Proc* 2065: 030061.
11. Shi L, Cavagnino A, Rabefiraisana JL, Lazar N, de la Sierra-Gallay IL, Ochsenbein F, Valerio-Lepiniec M, Urvoas A, Minard P, **Mijakovic I**, Nessler S (2019) Structural analysis of the Hanks-type protein kinase YabT from *Bacillus subtilis* provides new insights in its DNA-dependent Activation. *Front Microbiol* 9: 3014.
12. Singh P, Garg A, Pandit S, Mokkapati VRSS, **Mijakovic I** (2018) Antimicrobial effects of biogenic nanoparticles. *Nanomaterials* 8: 1009.
13. Ravikumar V, Nalpas N, Anselm V, Krug K, Lenuzzi M, Šestak MS, Domazet-Lošo T, **Mijakovic I**, Macek B (2018) In-depth analysis of *Bacillus subtilis* proteome identifies new ORFs and traces the evolutionary history of modified proteins. *Sci Rep* 8: 17246.
14. Mokkapati VRSS, Pandit S, Kim J, Lovmar M, Westerlund F, **Mijakovic I** (2018) Antibacterial activity of graphene oxide and reduced graphene oxide integrated in agar plates. *Royal Soc Open Sci* 5: 181083.
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19. 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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27. Pandit S, Mokkapati VRSS, Helgadóttir S, Westerlund F, **Mijakovic I** (2017) Combination of cold atmospheric plasma and vitamin C effectively disrupts bacterial biofilms. Clin Microbiol 6: 3.
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34. Motwalli O, Essack M, Jankovic BR, Ji B, Liu X, Ansari HR, Hoehndorf R, Gao X, Arold ST, Mineta K, Archer JAC, Gojobori T, **Mijakovic I**, Bajic VB (2017) In silico screening for candidate chassis strains of free fatty acid-producing cyanobacteria. *BMC Genomics* 18:33.
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