

## Peer reviewed publications

1. Cao Z, Fu X, Li H, Pandit S, Amombo Noa F, Ohrstrom L, Zelezniak A, **Mijakovic I** (2023) Synthesis of metal-organic frameworks through enzymatically recycled polyethylene terephthalate. *ACS Sustain Chem Eng*, in press.
2. More PR, Shinde S, Cao Z, Zhang J, Pandit S, De Filippis A, **Mijakovic I**, Galdiero M (2023) Antibacterial applications of biologically synthesized *Pichia pastoris* silver nanoparticles. *Helyon*, in press.
3. **Mijakovic I**, Rahimi S (2023) Learning by teaching efficiently enhances learning outcomes in Molecular Biology of the Cell course. *Biochem Mol Biol Educ*, in press.
4. Aminian-Dehkordi J, Rahimi S, Golzar-Ahmadi M, Singh A, Lopez J, Ledesma-Amaro R, **Mijakovic I** (2023) Synthetic biology tools for environmental protection. *Biotech Adv*, in press.
5. Joshi AS, Madhusudanan M, **Mijakovic I** (2023) 3D printed inserts for reproducible high throughput screening of cell migration. *Front Cell Dev Biol* 11: 1256250.
6. Ruan H, Aulova A, Ghai V, Pandit S, Lovmar M, **Mijakovic I**, Kádár R (2023) Polysaccharide-based antibacterial coating technologies. *Acta Biomater*, in press.
7. Zhang J, Neupane N, Dahal PR, Rahimi S, Cao Z, Pandit S, **Mijakovic I** (2023) Antibiotic-loaded boron nitride nanoconjugate with strong performance against planktonic bacteria and biofilms. *ACS Appl Bio Mater* 6: 3131-3142.
8. Chen X, Pandit S, Shi L, Ravikumar V, Bonne K hler J, Svetlicic E, Garg A, Petranovic D, **Mijakovic I** (2023) Graphene oxide attenuates toxicity of amyloid- $\beta$  aggregates in yeast by promoting disassembly and boosting cellular stress response (2023) *Adv Funct Mater*, in press.
9. Pandit S, Jacquemin L, Zhang J, Gao Z, Nishina Y, Meyer RL, **Mijakovic I**, Bianco A, Pang Kamp C (2023) Polymyxin B complexation enhances the antimicrobial potential of graphene oxide. *Front Cell Infect Microbiol* 13: 1209563.
10. Hintzen J, Abujubara H, Rahimi S, **Mijakovic I**, Tietze D, Tietze AA (2023) Substrate-derived sortase A inhibitors: targeting an essential virulence factor of Gram-positive pathogenic bacteria. *Chem Sci* 14: 6975-6985.
11. Rahimi S, Lovmar T, Aulova A, Pandit S, Lovmar M, Forsberg S, Svensson M, Kádár R, **Mijakovic I** (2023) Automated prediction of bacterial exclusion areas on SEM images of graphene-polymer composites. *Nanomaterials* 13: 1605.
12. Zhang J, Singh P, Cao Z, Rahimi S, Pandit S, **Mijakovic I** (2023) Polydopamine/graphene oxide coatings loaded with tetracycline and green Ag nanoparticles for effective prevention of biofilms. *Appl Surf Sci* 626: 157221.
13. Eswaran M, Rahimi S, Pandit S, Chokkiah B, **Mijakovic I** (2023) A flexible multifunctional electrode based on conducting PANI/Pd composite for non-enzymatic glucose sensor and direct alcohol fuel cell applications. *Fuel* 345: 128182.
14. Balusamy SR, Perumalsamy H, Huq A, Yoon TH, **Mijakovic I**, Thangavelu L, Rahimi S (2023) A comprehensive and systemic review of ginseng-based nanomaterials: synthesis, targeted delivery, and biomedical applications. *Med Res Rev* 2023: 1-37.
15. Rahimi S, van Leeuwen D, Roshanzamir F, Pandit S, Shi L, Sasanian N, Nielsen J, Esbj rner EK, **Mijakovic I** (2023) Ginsenoside Rg3 reduces the toxicity of graphene oxide used for delivery of doxorubicin to liver and breast cancer cells. *Pharmaceutics* 15: 391.
16. More PR, Pandit S, De Filippis A, Franci G, **Mijakovic I**, Galdiero M (2023) Silver nanoparticles: applications in the field of biomedicine. *Microorganisms* 11: 369.

17. Garg A, Jers C, Hwang HJ, Kalantari A, Ventura I, **Mijakovic I** (2023) Engineering *Bacillus subtilis* for production of 3-hydroxypropanoic acid. *Front Bioeng Biotechnol*, 11: 1101232.
18. Acet Ö, Dikici E, Acet BÖ, Odabaşı M, **Mijakovic I**, Pandit S (2023) Inhibition of bacterial adhesion by epigallocatechin gallate attached polymeric membranes. *Colloids Surf B Biointerfaces* 221: 113024.
19. Svetlicic E, Jaén-Luchoro D, Sauerborn Klobucar R, Jers C, Kazazic S, Franjevic D, Klobucar G, Shelton BG, **Mijakovic I** (2023) Genomic characterization and assessment of pathogenic potential of *Legionella* spp. isolates from environmental monitoring. *Front Microbiol* 13: 5404.
20. Khan F, Singh P, Joshi AS, Tabassum N, Bamunuarachchi NI, **Mijakovic I**, Kim YM. (2023) Multiple potential strategies for the application of nisin and derivatives. *Crit Rev Microbiol* 49: 628-657.
21. Ravikumar V, **Mijakovic I**, Pandit S (2022) Antimicrobial activity of graphene oxide contributes to alteration of key stress-related and membrane bound proteins. *Int J Nanomedicine*, 17: 6707-6721.
22. Khan F, Jeong GJ, Singh P, Tabassum N, **Mijakovic I**, Kim YM (2022) Retrospective analysis of the key molecules involved in the green synthesis of nanoparticles. *Nanoscale* 14: 14824-14857.
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27. 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.
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39. 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.
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47. 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.
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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)