

Enrico Marsili Publication List

Peer-reviewed articles

1. Zhang X, Jain A, Pastorella G, Levrel E, **Marsili E*** Improved electric density of *Shewanella loihica* PV-4 on CNTs modified Reticulated Vitreous Carbon (RVC) (in preparation). Will be submitted to *Electrochimica Acta* in one month.
2. Sonawane JM, **Marsili E***, Ghosh PC*. Energy recovery from untreated domestic and distillery wastewater in high surface microbial fuel cells. Will be submitted to *International Journal of Hydrogen Energy* in two weeks.
3. Seviour T*, Dueholm MS, Hove Hansen S, Yang L, Gea CJ, Tong Z, Wan Rong S, Donose B, Nielsen PH, **Marsili E**, Geifman Shochat S, Kjelleberg S (2013) Functional amyloids keep quorum sensing molecules in check. (in preparation). *Chem Biol*, under revision.
4. Kitching M and **Marsili E*** Fungal biosynthesis of gold nanoparticles: Mechanism and scale-up. *Microbial Biotechnol*, under review
5. Ramani M, Ponnusamy S, Muthamizhchelvan C, **Marsili E*** (2014) Amino acid-mediated synthesis of zinc oxide nanostructures and evaluation of their facet-dependent antimicrobial activity. *Colloids Surf B Bioint* 117, 233-239. Impact factor (IF) =3.55, Citations (Cit)=1.
6. Wang BV, Yuan Li Tan M, Sivakumar K, Cao B, Zhang Q, Bazan GC*, Loo SCJ*, **Marsili E.*** (2014) Water-soluble conjugated oligoelectrolytes cannot establish direct extracellular electron transfer across bacterial membrane of *Shewanella oneidensis*. *Electrochem Comm* 41, 55-58. IF =4.65, Cit. =1.
7. Bourdakos N, **Marsili E***, Mahadevan R* (2014) A defined co-culture of *Geobacter sulfurreducens* and *Escherichia coli* in a membrane-less microbial fuel cell. *Biotechnol Bioeng*, 111(4), 109-118.
8. Ramani M, Ponnusamy S, Muthamizhchelvan C, Cullen J, Khrishnamurthy S, **Marsili E*** (2013) Morphology-directed synthesis of ZnO nanostructures and their antibacterial activity. *Colloids Surf B Bioint* 105, 24-30. Impact factor (IF) =3.55, Citations (Cit)=0.
9. Jain A, O'Connolly J, Woolley R, Krishnamurthy S, **Marsili E*** (2013) Extracellular electron transfer mechanism in *Shewanella loihica* PV-4 biofilms formed at indium tin oxide and graphite electrodes. *Int J Electrochem Sci* 8(2), 1778-1793. IF= 3.73, Cit = 0.
10. Wang VB, Chua SL, Cao B, Seviour T, Nesatyy VJ, **Marsili E**, Kjelleberg S, Givskov M, Tolker-Nielsen T, Song H, Loo JS, Yang L*. (2013) Engineering PQS biosynthesis pathway for enhancement of bioelectricity production in *Pseudomonas aeruginosa* microbial fuel cells. *PLoS One* 8(5) e63129. IF= 3.73, Cit = 1.
11. Zhang X, Epifanio M, **Marsili E*** (2013) Electrochemical characteristics of *Shewanella loihica* on carbon nanotubes-modified graphite surfaces. *Electrochim Acta* 102, 252-258 IF= 3.78, Cit. = 0.
12. Das SK*, Liang J, Schmidt M, Laffir F, **Marsili E.*** (2012) Biomineralization mechanism of gold by zygomycete fungi *Rhizopus oryzae*. *ACS-Nano* 6(7), 6165-6173. IF = 12.06, Cit =3.
13. Jain A, Zhang X, Pastorella A, O'Connolly J, Barry N, Woolley R, Krishnamurthy S, **Marsili E*** (2012) Electron transfer mechanism in *Shewanella loihica* PV-4 biofilms formed at graphite electrode. *Bioelectrochem* 87, 28-32. IF= 3.95, Cit = 6.
14. Das SK, Dickinson C, Laffir F, Brougham DF, **Marsili E*** (2012) Synthesis, characterization and catalytic activity of gold nanoparticles biosynthesized with *Rhizopus oryzae* protein extract. *Green Chem* 14(5), 1322-1334. IF = 6.83, Cit = 10.
15. O'Connolly J, Jain A, Pastorella G, Krishnamurthy S, Mosnier J-P, **Marsili E.*** (2011) Zinc oxide and indium tin oxide thin films for the growth and characterization of *Shewanella loihica* PV-4 electroactive biofilms. *Virulence* 2(5), 479-482. IF =2.79. Cit = 0.
16. Jain A, Gazzola G, Panzera A, Zannoni M, Byrne R, **Marsili E.*** (2011). Visible spectroelectrochemical characterization of *Geobacter sulfurreducens* biofilms on optically transparent indium tin oxide (ITO) electrode. *Electrochim Acta* 56(28), 10776-10785. IF=3.78, Cit = 28.

17. **Marsili E**, Sun J, Bond DR* (2010). Voltammetry and physiology of *Geobacter sulfurreducens* biofilms as a function of growth stage and imposed potential. *Electroanalysis* **22**(7), 865-874. IF = 2.82, Cit = 60.
18. Das SK, **Marsili E.*** (2010) A green chemical approach for the synthesis of gold nanoparticles: characterization and mechanistic aspect. *Rev. Environ. Sci. Bio-Tech.* **9**(3), 199-204. IF = 2.34, Cit = 14.
19. Aldrovandi A, **Marsili E**, Stante L, Paganin P, Tabacchioni S, Giordano A* (2009) Sustainable power production in a membrane-less and mediator-less synthetic wastewater microbial fuel cell. *Biores Technol* **100**(13), 3252-3260. IF=4.75, Cit = 31.

20. **Marsili E**, Baron, DB, Shikhare I, Coursolle D, Gralnick JA, Bond DR* (2008) *Shewanella* secretes flavins that mediate extracellular electron transfer. *Proc Nat Acad Sci USA* **105**(10), 3968-3973. IF=9.7, Cit. = 357.

21. **Marsili E**, Rollefson JB, Hozalski R, Bond DR* (2008) Microbial biofilm voltammetry: direct electrochemical characterization of catalytic electrode-attached biofilms. *Appl Environ Microbiol* **74**(23), 7329-7337. IF = 3.8. Cit = 102.

22. Shrikant S, **Marsili E**, Flickinger MC, Bond DR* (2008) Electrochemical characterization of *Geobacter sulfurreducens* cells immobilized on graphite paper electrodes. *Biotechnol Bioeng* **109**(5), 1065-1073. IF=3.65, Cit=73.
23. Roes AL, **Marsili E**, Nieuwlaar E, Patel MK* (2007) Environmental and cost assessment of nanoclay-polypropylene composite. *J Polym Environ* **15**(3), 212-226. IF=1.50, Cit=24.
24. **Marsili E**, Beyenal H, Di Palma L, Merli C, Dohnalkova A, Amonette JE, Lewandowski Z* (2007) Uranium immobilization by sulfate-reducing biofilms grown on hematite, dolomite, and calcite. *Environ Sci Technol* **41**(24), 8349-8354. IF = 5.257, Cit = 11.
25. Menicucci J, Beyenal H, **Marsili E**, Veluchamy RRA, Demir G, Lewandowski Z* (2006) Procedure for determining maximum sustainable power generated by microbial fuel cells. *Environ Sci Technol* **40**(3), 1062-1068. IF=5.26, Cit=63.
26. **Marsili E**, Beyenal H, Di Palma L, Merli C, Dohnalkova A, Amonette JE, Lewandowski Z* (2005) Uranium removal by sulfate reducing biofilms in the presence of carbonates. *Water Sci Tech* **52**(7), 49-55. IF = 1.10, Cit = 15.
27. Fidaleo M, Lavecchia R*, **Marsili E.** (2001) Enzymatic extraction of carotenoids from plant material using two immiscible liquid phases. *Med. Fac. Landbouww. Univ Gent* **66**(3a), 295-298.