

Publications 2014 - present

Rugnini L, Ellwood NTW, Costa G, Falsetti A, Congestri R, Bruno L (2019) Scaling-up of wastewater bioremediation by *Tetradesmus obliquus*, sequential bio-treatments of nutrients and metals. *Ecotoxicology and Environmental Safety* 172: 59-64

Bruno L, Valle V, Gismondi A, Di Marco G, Canini A (2018) Applicazione di oli essenziali come metodo non-invasivo per il controllo del biodeterioramento di beni culturali in pietra. *Notiziario Della SocietÀ Botanica Italiana* 2: 6-7

Fontanini D, Andreucci A, Ruffini Castiglione M, Basile A, Sorbo S, Petraglia A, Degola F, Bellini E, Bruno L, Varotto C, Sanità di Toppi L (2018) The phytochelatin synthase from *Nitella mucronata* (Charophyta) plays a role in the homeostatic control of iron(II)/(III). *Plant Physiology and Biochemistry* 127: 88-96

Rugnini L, Costa G, Congestri R, Antonaroli S, Sanità di Toppi L, Bruno L (2018) Phosphorus and metal removal combined with lipid production by the green microalga *Desmodesmus* sp.: An integrated approach. *Plant Physiology and Biochemistry* 125: 45-51

Urzì C, Bruno L, De Leo F (2018) Biodeterioration of paintings in caves, catacombs and other hypogean sites. *Biodeterioration and preservation in Art, Archaeology and Architecture*. Archetype Publications Ltd., pp 114-129

Bruno L, Valle V (2017) Effect of white and monochromatic lights on cyanobacteria and biofilms from Roman Catacombs. *International Biodeterioration & Biodegradation* 123: 286-295

Etemadi-Khah A, Pourbabaee AA, Noroozi M, Alikhani HA, Bruno L (2017) Biodiversity of isolated cyanobacteria from desert soils in Iran. *Geomicrobiology Journal* 34: 784-794

Gouveia L, Oliveira AC, Congestri R, Bruno L, Soares AT, Menezes RS, Filho NRA, Tzovenis I (2017) Biodiesel from microalgae 'Microalgae-Based Biofuels and Bioproducts'. Elsevier Woodhead Publishing

Ruffolo SA, De Leo F, Ricca M, Arcudi A, Silvestri C, Bruno L, Urzì C, La Russa MF (2017) Medium-term in situ experiment by using organic biocides and titanium dioxide for the mitigation of microbial colonization on stone surfaces. *International Biodeterioration & Biodegradation* 123: 17-26

Rugnini L, Costa G, Congestri R, Bruno L (2017) Testing of two different strains of green microalgae for Cu and Ni removal from aqueous media. *Science of the Total Environment* 601-602: 959-967

De Angelis R, Melino S, Prospisito P, Casalboni M, Lamastra FR, Nanni F, Bruno L, Congestri R (2016) The diatom *Staurosirella pinnata* for photoactive material production. *Plos One* 11

Gismondi A, Di Pippo F, Bruno L, Antonaroli S, Congestri R (2016) Phosphorus removal coupled to bioenergy production by three cyanobacterial isolates in a biofilm dynamic growth system. *International Journal of Phytoremediation* 18: 869-876

Marano F, Di Rita F, Palombo MR, Ellwood NTW, Bruno L (2016) A first report of biodeterioration caused by cyanobacterial biofilms of exposed fossil bones: a case study of the Middle Pleistocene site of La Polledrara di Ceanibbio (Rome, Italy). *International Biodeterioration & Biodegradation* 106: 67-74

Urzi C, Leo F, Krakova L, Pangallo D, Bruno L (2016) Effects of biocide treatments on the biofilm community in Domitilla's catacombs in Rome. *Science of the Total Environment* 572: 252-262

Krakova L, De Leo F, Bruno L, Pangallo D, Urzì C (2015) Complex bacterial diversity in the white biofilms of St. Callistus Catacombs in Rome evidenced by different investigation strategies. *Environmental Microbiology* 17: 1738-1752

Bruno L, Bellezza S, De Leo F, Urzì C (2014) A study for monitoring and conservation in the Roman Catacombs of St. Callistus and Domitilla, Rome (Italy). *The Conservation of Subterranean Cultural Heritage*. CRC Press Taylor & Francis Group London, pp 37-44

Bruno L, Ficarella I, Valentini F, Quici L, Keshari N, Adhikary SP (2014) Characterization of phototrophic biofilms deteriorating Indian stone monuments, their response to heat stress and development of a non-invasive remediation strategy. In: Rogerio-Candela MA (ed) *Science, Technology and Cultural Heritage*. CRC Press/Balkema Taylor & Francis Group, pp 205-210

Bruno L, Quici L, Ficarella I, Valentini F (2014) NanoGraphene Oxide: a new material for a non-invasive and non-destructive strategy to remove biofilms from rock surfaces. *The Conservation of Subterranean Cultural Heritage*. CRC Press Taylor & Francis Group London, pp 125-130

Hsieh P, Pedersen JZ, Bruno L (2014) Photoinhibition of Cyanobacteria and its Application in Cultural Heritage Conservation. *Photochemistry and Photobiology* 90: 533-543

Urzì C, De Leo F, Bruno L, Pangallo D, Kracova L (2014) New species description, biomimetic processes and biocleaning applications of Roman catacombs-living bacteria. *The Conservation of Subterranean Cultural Heritage*. CRC Press Taylor & Francis Group London, pp 65-72