

# Elena Tamburini

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,160  
citations

361413

20  
h-index

414414

32  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1538  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Kinetics and Metabolism of <i>Bifidobacterium adolescentis</i> MB 239 Growing on Glucose, Galactose, Lactose, and Galactooligosaccharides. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3637-3644.         | 3.1  | 97        |
| 2  | Overview of the environmental problems in beet sugar processing: possible solutions. <i>Journal of Cleaner Production</i> , 2005, 13, 499-507.  | 9.3  | 73        |
| 3  | Assessment of In-Line Near-Infrared Spectroscopy for Continuous Monitoring of Fermentation Processes. <i>Biotechnology Progress</i> , 2003, 19, 1816-1821.  | 2.6  | 68        |
| 4  | Plastic (PET) vs bioplastic (PLA) or refillable aluminium bottles – What is the most sustainable choice for drinking water? A life-cycle (LCA) analysis. <i>Environmental Research</i> , 2021, 196, 110974.             | 7.5  | 60        |
| 5  | Substrate preference of <i>Bifidobacterium adolescentis</i> MB 239: compared growth on single and mixed carbohydrates. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 654-662.                               | 3.6  | 53        |
| 6  | Near-Infrared Spectroscopy: A Tool for Monitoring Submerged Fermentation Processes Using an Immersion Optical-Fiber Probe. <i>Applied Spectroscopy</i> , 2003, 57, 132-138.   | 2.2  | 51        |
| 7  | Optimized Production of Xylitol from Xylose Using a Hyper-Acidophilic <i>Candida tropicalis</i> . <i>Biomolecules</i> , 2015, 5, 1979-1989.   | 4.0  | 43        |
| 8  | Life Cycle Based Evaluation of Environmental and Economic Impacts of Agricultural Productions in the Mediterranean Area. <i>Sustainability</i> , 2015, 7, 2915-2935.  | 3.2  | 43        |
| 9  | Monitoring Key Parameters in Bioprocesses Using Near-Infrared Technology. <i>Sensors</i> , 2014, 14, 18941-18959.   | 3.8  | 42        |
| 10 | Lignin Biodegradation in Pulp-and-Paper Mill Wastewater by Selected White Rot Fungi. <i>Water (Switzerland)</i> , 2017, 9, 935.   | 2.7  | 41        |
| 11 | Green electrochemical approach for delignification of wheat straw in second-generation bioethanol production. <i>Energy and Environmental Science</i> , 2011, 4, 551-557.   | 30.8 | 33        |
| 12 | Lignin Degradation Efficiency of Chemical Pre-Treatments on Banana Rachis Destined to Bioethanol Production. <i>Biomolecules</i> , 2018, 8, 141.  | 4.0  | 33        |
| 13 | Biogas from Agri-Food and Agricultural Waste Can Appreciate Agro-Ecosystem Services: The Case Study of Emilia Romagna Region. <i>Sustainability</i> , 2020, 12, 8392.   | 3.2  | 33        |
| 14 | Quantification of Lycopene, $\beta$ -Carotene, and Total Soluble Solids in Intact Red-Flesh Watermelon ( <i>Citrullus lanatus</i> ) Using On-Line Near-Infrared Spectroscopy. <i>Sensors</i> , 2017, 17, 746.           | 3.8  | 31        |
| 15 | Sustainability of Mussel ( <i>Mytilus Galloprovincialis</i> ) Farming in the Po River Delta, Northern Italy, Based on a Life Cycle Assessment Approach. <i>Sustainability</i> , 2020, 12, 3814.                         | 3.2  | 31        |
| 16 | To mow or not to mow: reed biofilms as denitrification hotspots in drainage canals. <i>Ecological Engineering</i> , 2018, 113, 1-10.  | 3.6  | 28        |
| 17 | Chemical Characterization (GC/MS and NMR Fingerprinting) and Bioactivities of South African <i>Pelargonium capitatum</i> (L.) L'Her. (Geraniaceae) Essential Oil. <i>Chemistry and Biodiversity</i> , 2011, 8, 624-642. | 2.1  | 27        |
| 18 | Valorization of Agri-Food Waste via Fermentation: Production of L-lactic Acid as a Building Block for the Synthesis of Biopolymers. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 379.                               | 2.5  | 27        |

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|----|---|-----|-----------|
| 19 | Cosubstrate effect on xylose reductase and xylitol dehydrogenase activity levels, and its consequence on xylitol production by <i>Candida tropicalis</i> . <i>Enzyme and Microbial Technology</i> , 2010, 46, 352-359.        | 3.2 | 26        |
| 20 | Life Cycle Assessment (LCA) Proves that Manila Clam Farming ( <i>Ruditapes Philippinarum</i> ) is a Fully Sustainable Aquaculture Practice and a Carbon Sink. <i>Sustainability</i> , 2020, 12, 5252.                         | 3.2 | 24        |
| 21 | Is Bioenergy Truly Sustainable When Land-Use-Change (LUC) Emissions Are Accounted for? The Case-Study of Biogas from Agricultural Biomass in Emilia-Romagna Region, Italy. <i>Sustainability</i> , 2020, 12, 3260.            | 3.2 | 21        |
| 22 | Trends and Opportunities of Bivalve Shells™ Waste Valorization in a Prospect of Circular Blue Bioeconomy. <i>Resources</i> , 2022, 11, 48.  | 3.5 | 21        |
| 23 | Detection of oligosaccharides in sugar products using planar chromatography. <i>Food Chemistry</i> , 2001, 74, 99-110.  | 8.2 | 20        |
| 24 | Development of FT-NIR Models for the Simultaneous Estimation of Chlorophyll and Nitrogen Content in Fresh Apple ( <i>Malus Domestica</i> ) Leaves. <i>Sensors</i> , 2015, 15, 2662-2679.                                      | 3.8 | 20        |
| 25 | Effects of Moisture and Particle Size on Quantitative Determination of Total Organic Carbon (TOC) in Soils Using Near-Infrared Spectroscopy. <i>Sensors</i> , 2017, 17, 2366.   | 3.8 | 19        |
| 26 | Soil type and microclimatic conditions as drivers of urea transformation kinetics in maize plots. <i>Catena</i> , 2018, 166, 200-208.   | 5.0 | 19        |
| 27 | Life Cycle Assessment of Oyster Farming in the Po Delta, Northern Italy. <i>Resources</i> , 2019, 8, 170.   | 3.5 | 17        |
| 28 | Fermentation as a Strategy for Bio-Transforming Waste into Resources: Lactic Acid Production from Agri-Food Residues. <i>Fermentation</i> , 2021, 7, 3.   | 3.0 | 16        |
| 29 | Potential of <i>Rhodobacter capsulatus</i> Grown in Anaerobic-Light or Aerobic-Dark Conditions as Bioremediation Agent for Biological Wastewater Treatments. <i>Water (Switzerland)</i> , 2017, 9, 108.                       | 2.7 | 14        |
| 30 | Life Cycle Assessment of Maize-Germ Oil Production and The Use of Bioenergy to Mitigate Environmental Impacts: A Gate-To-Gate Case Study. <i>Resources</i> , 2019, 8, 60.   | 3.5 | 14        |
| 31 | Enzymatic Esterification as Potential Strategy to Enhance the Sorbic Acid Behavior as Food and Beverage Preservative. <i>Fermentation</i> , 2020, 6, 96.  | 3.0 | 13        |
| 32 | Study on Microbial Deposition and Contamination onto Six Surfaces Commonly Used in Chemical and Microbiological Laboratories. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 8295-8311. | 2.6 | 8         |
| 33 | Quantitative Determination of <i>Fusarium proliferatum</i> Concentration in Intact Garlic Cloves Using Near-Infrared Spectroscopy. <i>Sensors</i> , 2016, 16, 1099.   | 3.8 | 8         |
| 34 | Biocatalytic Approach for Direct Esterification of Ibuprofen with Sorbitol in Biphasic Media. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3066.  | 4.1 | 8         |
| 35 | New eco-friendly proposal for the crystallization of beet raw juice. <i>Journal of Cleaner Production</i> , 2005, 13, 1447-1460.  | 9.3 | 7         |
| 36 | Bio-Delignification of Green Waste (GW) in Co-Digestion with the Organic Fraction of Municipal Solid Waste (OFMSW) to Enhance Biogas Production. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6061.                      | 2.5 | 7         |

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|----|---|-----|-----------|
| 37 | Xylitol as a Hydrophilization Moiety for a Biocatalytically Synthesized Ibuprofen Prodrug. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2026.   | 4.1 | 7         |
| 38 | <i>Aspergillus oryzae</i> Grown on Rice Hulls Used as an Additive for Pretreatment of Starch-Containing Wastewater from the Pulp and Paper Industry. <i>Fermentation</i> , 2021, 7, 317.  | 3.0 | 7         |
| 39 | An HPTLC-AMD method for understanding the metabolic behavior of microorganisms in the presence of mixed carbon sources. The case of <i>Bifidobacterium adolescentis</i> MB 239. <i>Journal of Planar Chromatography - Modern TLC</i> , 2009, 22, 321-325. | 1.2 | 6         |
| 40 | Fermentation monitoring based on HPTLC-OPLC. The effect of a complex biological matrix on quantitative performance. <i>Journal of Planar Chromatography - Modern TLC</i> , 2009, 22, 9-14.  | 1.2 | 6         |
| 41 | Separation of complex fructo-oligosaccharides (FOS) and inulin mixtures by HPTLC-AMD. <i>Journal of Planar Chromatography - Modern TLC</i> , 2005, 18, 23-27.   | 1.2 | 6         |
| 42 | Glyceric Prodrug of Ursodeoxycholic Acid (UDCA): Novozym 435-Catalyzed Synthesis of UDCA-Monoglyceride. <i>Molecules</i> , 2021, 26, 5966.  | 3.8 | 6         |
| 43 | Fourier Transform Near Infrared Spectroscopy in-line Monitoring of the Enzymatic Hydrolysis of Starch in Rye: Water Mash for First-Generation Bioethanol Production. <i>Journal of Near Infrared Spectroscopy</i> , 2011, 19, 181-190.                    | 1.5 | 5         |
| 44 | New proposal for integrated production of sugar and biofuels from sugar beet. <i>Clean Technologies and Environmental Policy</i> , 2009, 11, 31-36.   | 4.1 | 4         |
| 45 | Biotransformation of Waste Bile Acids: A New Possible Sustainable Approach to Anti-Fungal Molecules for Crop Plant Bioprotection?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4152.   | 4.1 | 4         |
| 46 | Separation and Quantitative Determination of Carbohydrates in Microbial Submerged Cultures Using Different Planar Chromatography Techniques (HPTLC, AMD, OPLC). <i>Journal of Analytical &amp; Bioanalytical Techniques</i> , 2015, 6, .                  | 0.6 | 2         |
| 47 | Potential of Near Infrared Spectroscopy for Classification of Different Delignificant Pre-Treatments on Banana Rachis. <i>Journal of Analytical &amp; Bioanalytical Techniques</i> , 2016, 7, .   | 0.6 | 2         |
| 48 | Quantitative Determination of Fluorine Content in Blends of Polylactide (PLA) Talc Using Near Infrared Spectroscopy. <i>Sensors</i> , 2016, 16, 1216.   | 3.8 | 2         |
| 49 | Biotransformations of Bile Acids with Bacteria from Cayambe Slaughterhouse (Ecuador): Synthesis of Bendigoles. <i>Chemistry and Biodiversity</i> , 2016, 13, 969-975.   | 2.1 | 2         |
| 50 | Simultaneous quantification of carbohydrates and metabolites in multicomponent fermentation broths by means of high-performance thin-layer chromatography. <i>Journal of Planar Chromatography - Modern TLC</i> , 2017, 30, 170-174.                      | 1.2 | 2         |
| 51 | Introducing Life Cycle Assessment in Costs and Benefits Analysis of Vegetation Management in Drainage Canals of Lowland Agricultural Landscapes. <i>Water (Switzerland)</i> , 2020, 12, 2236.   | 2.7 | 2         |