

# Matteo Grattieri

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,070  
citations

236925

25  
h-index

233421

45  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2040  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Powered Biosensors. <i>ACS Sensors</i> , 2018, 3, 44-53.	7.8	229
2	Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. <i>Chemical Reviews</i> , 2020, 120, 12903-12993.	47.7	227
3	Fast and efficient removal of chromium (VI) anionic species by a reusable chitosan-modified multi-walled carbon nanotube composite. <i>Chemical Engineering Journal</i> , 2018, 339, 259-267.	12.7	133
4	Modified biochar for phosphate adsorption in environmentally relevant conditions. <i>Chemical Engineering Journal</i> , 2020, 380, 122375.	12.7	115
5	Parameters characterization and optimization of activated carbon (AC) cathodes for microbial fuel cell application. <i>Bioresource Technology</i> , 2014, 163, 54-63.	9.6	102
6	Surface Modification of Microbial Fuel Cells Anodes: Approaches to Practical Design. <i>Electrochimica Acta</i> , 2014, 134, 116-126.	5.2	89
7	Floating microbial fuel cells as energy harvesters for signal transmission from natural water bodies. <i>Journal of Power Sources</i> , 2017, 340, 80-88.	7.8	83
8	Microbial fuel cells in saline and hypersaline environments: Advancements, challenges and future perspectives. <i>Bioelectrochemistry</i> , 2018, 120, 127-137.	4.6	78
9	A sustainable adsorbent for phosphate removal: modifying multi-walled carbon nanotubes with chitosan. <i>Journal of Materials Science</i> , 2018, 53, 12641-12649.	3.7	73
10	Microbial amperometric biosensor for online herbicide detection: Photocurrent inhibition of <i>Anabaena variabilis</i> . <i>Electrochimica Acta</i> , 2019, 302, 102-108.	5.2	61
11	Photobioelectrocatalysis of Intact Chloroplasts for Solar Energy Conversion. <i>ACS Catalysis</i> , 2017, 7, 2257-2265.	11.2	60
12	Bioelectrochemical Systems as a Multipurpose Biosensing Tool: Present Perspective and Future Outlook. <i>ChemElectroChem</i> , 2017, 4, 834-842.	3.4	56
13	Understanding Biophotocurrent Generation in Photosynthetic Purple Bacteria. <i>ACS Catalysis</i> , 2019, 9, 867-873.	11.2	56
14	Electrochemical Behavior of Stainless Steel Anodes in Membraneless Microbial Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, H62-H67.	2.9	46
15	Halotolerant extremophile bacteria from the Great Salt Lake for recycling pollutants in microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 356, 310-318.	7.8	46
16	Performance explorations of single chamber microbial fuel cells by using various microelectrodes applied to biocathodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21837-21846.	7.1	39
17	PTFE effect on the electrocatalysis of the oxygen reduction reaction in membraneless microbial fuel cells. <i>Bioelectrochemistry</i> , 2015, 106, 240-247.	4.6	38
18	Sustainable Bioelectrosynthesis of the Bioplastic Polyhydroxybutyrate: Overcoming Substrate Requirement for NADH Regeneration. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4909-4915.	6.7	36

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19	Purple bacteria photo-bioelectrochemistry: enthralling challenges and opportunities. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 424-435.	2.9	36
20	Enhanced Bioelectrocatalysis of <i>Shewanella oneidensis</i> MR-1 by a Naphthoquinone Redox Polymer. <i>ACS Energy Letters</i> , 2017, 2, 1947-1951.	17.4	32
21	Advancing the fundamental understanding and practical applications of photo-bioelectrocatalysis. <i>Chemical Communications</i> , 2020, 56, 8553-8568.	4.1	31
22	Recent trends and advances in microbial electrochemical sensing technologies: An overview. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100762.	4.8	31
23	Sustainable Hypersaline Microbial Fuel Cells: Inexpensive Recyclable Polymer Supports for Carbon Nanotube Conductive Paint Anodes. <i>ChemSusChem</i> , 2017, 10, 2053-2058.	6.8	29
24	Rational design of artificial redox-mediating systems toward upgrading photobioelectrocatalysis. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1333-1356.	2.9	29
25	Purple Bacteria and 3D Redox Hydrogels for Bioinspired Photo-bioelectrocatalysis. <i>ChemSusChem</i> , 2020, 13, 230-237.	6.8	28
26	Alginate-Encapsulated Bacteria for the Treatment of Hypersaline Solutions in Microbial Fuel Cells. <i>ChemBioChem</i> , 2018, 19, 1162-1169.	2.6	26
27	Tuning purple bacteria salt-tolerance for photobioelectrochemical systems in saline environments. <i>Faraday Discussions</i> , 2019, 215, 15-25.	3.2	23
28	Revisiting direct electron transfer in nanostructured carbon laccase oxygen cathodes. <i>Bioelectrochemistry</i> , 2016, 109, 101-107.	4.6	20
29	An engineered, non-diazotrophic cyanobacterium and its application in bioelectrochemical nitrogen fixation. <i>Cell Reports Physical Science</i> , 2021, 2, 100444.	5.6	19
30	Enzymatic Oxygen Microsensor Based on Bilirubin Oxidase Applied to Microbial Fuel Cells Analysis. <i>Electroanalysis</i> , 2015, 27, 327-335.	2.9	17
31	Editors' Choice Review Exploration of Computational Approaches for Understanding Microbial Electrochemical Systems: Opportunities and Future Directions. <i>Journal of the Electrochemical Society</i> , 2020, 167, 065502.	2.9	17
32	Unveiling salinity effects on photo-bioelectrocatalysis through combination of bioinformatics and electrochemistry. <i>Electrochimica Acta</i> , 2020, 337, 135731.	5.2	16
33	Online self-powered Cr(VI) monitoring with autochthonous <i>Pseudomonas</i> and a bio-inspired redox polymer. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6449-6457.	3.7	15
34	Unbranched Hybrid Conducting Redox Polymers for Intact Chloroplast-Based Photobioelectrocatalysis. <i>Langmuir</i> , 2021, 37, 7821-7833.	3.5	15
35	Hypersaline Microbial Self-Powered Biosensor with Increased Sensitivity. <i>Journal of the Electrochemical Society</i> , 2018, 165, H251-H254.	2.9	14
36	Bio-Inspired Redox-Adhesive Polydopamine Matrix for Intact Bacteria Biohybrid Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 26631-26641.	8.0	14

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37	Non-Competitive Reversible Inhibition of Laccase by H <sub>2</sub> O <sub>2</sub> in Osmium Mediated Layer-By-Layer Multilayer O <sub>2</sub> Biocathodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, G82-G86.	2.9	11
38	Chloroplast biosolar cell and self-powered herbicide monitoring. <i>Chemical Communications</i> , 2020, 56, 13161-13164.	4.1	11
39	Facilitated Electron Hopping in Nanolayer Oxygen Sensitive Glucose Biosensor for Application in a Complex Matrix. <i>ChemElectroChem</i> , 2016, 3, 1884-1889.	3.4	10
40	Transitioning from batch to flow hypersaline microbial fuel cells. <i>Electrochimica Acta</i> , 2019, 317, 494-501.	5.2	10
41	Photobioelectrochemistry of intact photosynthetic bacteria: Advances and future outlook. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 101018.	4.8	10
42	Unveiling complete lactate oxidation through a hybrid catalytic cascade. <i>Electrochimica Acta</i> , 2021, 376, 138044.	5.2	9
43	Decoupling energy and power. <i>Nature Energy</i> , 2018, 3, 8-9.	39.5	8
44	Investigating extracellular electron transfer of <i>Rikenella microfus</i> : a recurring bacterium in mixed-species biofilms. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1568-1572.	4.9	7
45	The periodic table of photosynthetic purple non-sulfur bacteria: intact cell-metal ions interactions. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 101-111.	2.9	7
46	Draft Genome Sequence of <i>Salinivibrio</i> sp. Strain EAGSL, a Biotechnologically Relevant Halophilic Microorganism. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	3
47	Halotolerance of <i>Rhodobacter sphaeroides</i> for saline and hypersaline wastewater bioremediation. , 2021, , .		3
48	Lag Time Spectrophotometric Assay for Studying Transport Limitation in Immobilized Enzymes. <i>ACS Omega</i> , 2018, 3, 11945-11949.	3.5	1
49	An Unbranched, Hybrid Conductive-Redox Polymer for Interfacing Intact Chloroplasts and Electrode Surfaces during Photobioelectrocatalysis. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1255-1255.	0.0	0
50	Photobioelectrochemistry of Intact Chloroplasts for Solar Energy Conversion. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
51	Extracellular Electron Transfer in Mixed Species Biofilms: The Role of <i>Rikenella Microfus</i> . <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
52	Extracellular Electron Transfer Mechanisms in a Moderately Halophilic Bacterium from the Great Salt Lake for High Salinity Heavy Metal Biosensing. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
53	Unveiling Purple Bacteria Salt Tolerance Mechanisms for Environmental Monitoring in Photo-Bioelectrochemical Systems. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
54	(Invited) Targeting Sustainability in Bioelectrochemical Systems for Water Quality Monitoring. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1517-1517.	0.0	0

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55	Intact Photosynthetic Bacteria-Based Electrochemical Biosensors. ECS Meeting Abstracts, 2022, MA2022-01, 1860-1860.	0.0	0