

Paolo Bombelli

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,992
citations

257450

24
h-index

395702

33
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all docs

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docs citations

35
times ranked

3915
citing authors

#	ARTICLE	IF	CITATIONS
1	A High Power&Dedensity, Mediator&EFree, Microfluidic Biophotovoltaic Device for Cyanobacterial Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1-6.	19.5	531
2	Polyethylene bio-degradation by caterpillars of the wax moth <i>Galleria mellonella</i> . <i>Current Biology</i> , 2017, 27, R292-R293.	3.9	335
3	Biophotovoltaics: oxygenic photosynthetic organisms in the world of bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2015, 8, 1092-1109.	30.8	232
4	Photosynthetic biofilms in pure culture harness solar energy in a mediatorless bio-photovoltaic cell (BPV) system. <i>Energy and Environmental Science</i> , 2011, 4, 4699.	30.8	227
5	Photosynthetic, respiratory and extracellular electron transport pathways in cyanobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 247-255.	1.0	192
6	Quantitative analysis of the factors limiting solar power transduction by <i>Synechocystis</i> sp. PCC 6803 in biological photovoltaic devices. <i>Energy and Environmental Science</i> , 2011, 4, 4690.	30.8	141
7	Electricity generation from digitally printed cyanobacteria. <i>Nature Communications</i> , 2017, 8, 1327.	12.8	112
8	Enhancing power density of biophotovoltaics by decoupling storage and power delivery. <i>Nature Energy</i> , 2018, 3, 75-81.	39.5	103
9	Photoelectrochemistry of Photosystem II <i>in Vitro</i> vs <i>in Vivo</i>. <i>Journal of the American Chemical Society</i> , 2018, 140, 6-9.	13.7	98
10	Surface morphology and surface energy of anode materials influence power outputs in a multi-channel mediatorless bio-photovoltaic (BPV) system. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12221.	2.8	93
11	Biological photovoltaics: intra- and extra-cellular electron transport by cyanobacteria. <i>Biochemical Society Transactions</i> , 2012, 40, 1302-1307.	3.4	91
12	Porous ceramic anode materials for photo-microbial fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 18055.	6.7	75
13	Porous translucent electrodes enhance current generation from photosynthetic biofilms. <i>Nature Communications</i> , 2018, 9, 1299.	12.8	70
14	The Development of Biophotovoltaic Systems for Power Generation and Biological Analysis. <i>ChemElectroChem</i> , 2019, 6, 5375-5386.	3.4	70
15	Phycobilisome-Deficient Strains of <i>Synechocystis</i> sp. PCC 6803 Have Reduced Size and Require Carbon-Limiting Conditions to Exhibit Enhanced Productivity. <i>Plant Physiology</i> , 2014, 165, 705-714.	4.8	66
16	Hydrogen production through oxygenic photosynthesis using the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 in a bio-photoelectrolysis cell (BPE) system. <i>Energy and Environmental Science</i> , 2013, 6, 2682.	30.8	61
17	Tinted Semi&Etransparent Solar Panels Allow Concurrent Production of Crops and Electricity on the Same Cropland. <i>Advanced Energy Materials</i> , 2020, 10, 2001189.	19.5	61
18	In Vivo Changes of the Oxidation-Reduction State of NADP and of the ATP/ADP Cellular Ratio Linked to the Photosynthetic Activity in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2003, 132, 1464-1474.	4.8	55

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19	Hydrocarbons Are Essential for Optimal Cell Size, Division, and Growth of Cyanobacteria. <i>Plant Physiology</i> , 2016, 172, 1928-1940.	4.8	53
20	Comparison of power output by rice (<i>Oryza sativa</i>) and an associated weed (<i>Echinochloa glabrescens</i>) in vascular plant bio-photovoltaic (VP-BPV) systems. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 429-438.	3.6	52
21	Platinum-free, graphene based anodes and air cathodes for single chamber microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23872-23886.	10.3	45
22	Electrical output of bryophyte microbial fuel cell systems is sufficient to power a radio or an environmental sensor. <i>Royal Society Open Science</i> , 2016, 3, 160249.	2.4	39
23	Exploiting algal NADPH oxidase for biophotovoltaic energy. <i>Plant Biotechnology Journal</i> , 2016, 14, 22-28.	8.3	37
24	Powering a microprocessor by photosynthesis. <i>Energy and Environmental Science</i> , 2022, 15, 2529-2536.	30.8	36
25	Enhancing plasma membrane NADPH oxidase activity increases current output by diatoms in biophotovoltaic devices. <i>Algal Research</i> , 2015, 12, 91-98.	4.6	25
26	Electricity Production by Photosynthetic Microorganisms. <i>Joule</i> , 2020, 4, 2065-2069.	24.0	20
27	Synthetic biology and bioelectrochemical tools for electrogenetic system engineering. <i>Science Advances</i> , 2022, 8, eabm5091.	10.3	17
28	Response to Weber et al.. <i>Current Biology</i> , 2017, 27, R745.	3.9	16
29	Electrochemical Characterisation of Bio-Bottle-Voltaic (BBV) Systems Operated with Algae and Built with Recycled Materials. <i>Biology</i> , 2018, 7, 26.	2.8	15
30	Biophotovoltaics: Design and Study of Bioelectrochemical Systems for Biotechnological Applications and Metabolic Investigation. <i>Methods in Molecular Biology</i> , 2018, 1770, 335-346.	0.9	8
31	Harnessing solar energy by bio-photovoltaic (BPV) devices. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2011, 76, 89-91.	0.0	5
32	A dual compartment cuvette system for correcting scattering in whole-cell absorbance spectroscopy of photosynthetic microorganisms. <i>Photosynthesis Research</i> , 2022, 151, 61-69.	2.9	2