

M Auxiliadora Prieto

List of Publications by Year in descending order

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95
papers

4,092
citations

94433

37
h-index

128289

60
g-index

99
all docs

99
docs citations

99
times ranked

4134
citing authors

#	ARTICLE	IF	CITATIONS
1	When microbial biotechnology meets material engineering. <i>Microbial Biotechnology</i> , 2022, 15, 149-163.	4.2	13
2	Synthetic Control of Metabolic States in <i>Pseudomonas putida</i> by Tuning Polyhydroxyalkanoate Cycle. <i>MBio</i> , 2022, 13, e0179421.	4.1	7
3	Strain-specific predation of <i>Bdellovibrio bacteriovorus</i> on <i>Pseudomonas aeruginosa</i> with a higher range for cystic fibrosis than for bacteremia isolates. <i>Scientific Reports</i> , 2022, 12, .	3.3	9
4	Engineering Native and Synthetic Pathways in <i>Pseudomonas putida</i> for the Production of Tailored Polyhydroxyalkanoates. <i>Biotechnology Journal</i> , 2021, 16, e2000165.	3.5	67
5	From Residues to Added-Value Bacterial Biopolymers as Nanomaterials for Biomedical Applications. <i>Nanomaterials</i> , 2021, 11, 1492.	4.1	19
6	Polyhydroxyalkanoate Nanoparticles for Pulmonary Drug Delivery: Interaction with Lung Surfactant. <i>Nanomaterials</i> , 2021, 11, 1482.	4.1	20
7	Enhancement of biohydrogen production rate in <i>Rhodospirillum rubrum</i> by a dynamic CO-feeding strategy using dark fermentation. <i>Biotechnology for Biofuels</i> , 2021, 14, 168.	6.2	9
8	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. <i>Environmental Sciences Europe</i> , 2021, 33, 99.	5.5	33
9	A polyhydroxyalkanoate-based encapsulating strategy for "bioplasticizing" microorganisms. <i>Microbial Biotechnology</i> , 2020, 13, 185-198.	4.2	13
10	Providing new insights on the biphasic lifestyle of the predatory bacterium <i>Bdellovibrio bacteriovorus</i> through genome-scale metabolic modeling. <i>PLoS Computational Biology</i> , 2020, 16, e1007646.	3.2	9
11	Anti-staphylococcal hydrogels based on bacterial cellulose and the antimicrobial biopolyester poly(3-hydroxy-acetylthioalkanoate-co-3-hydroxyalkanoate). <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1869-1879.	7.5	19
12	Phasin interactome reveals the interplay of <i>PhaF</i> with the polyhydroxyalkanoate transcriptional regulatory protein <i>PhaD</i> in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2020, 22, 3922-3936.	3.8	16
13	Dissecting the Polyhydroxyalkanoate-Binding Domain of the <i>PhaF</i> Phasin: Rational Design of a Minimized Affinity Tag. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	7
14	Molecular Basis of Medium-Chain Length-PHA Metabolism of <i>Pseudomonas putida</i> . , 2020, , 89-114.		1
15	Title is missing!. , 2020, 16, e1007646.		0
16	Title is missing!. , 2020, 16, e1007646.		0
17	Title is missing!. , 2020, 16, e1007646.		0
18	Title is missing!. , 2020, 16, e1007646.		0

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19	Bacterial cellulose as a potential bioleather substitute for the footwear industry. <i>Microbial Biotechnology</i> , 2019, 12, 582-585.	4.2	55
20	Plastic Biodegradation: Challenges and Opportunities. , 2019, , 333-361.		5
21	Biogenesis of Medium-Chain-Length Polyhydroxyalkanoates. , 2019, , 457-481.		9
22	<i>In silico</i> prospection of microorganisms to produce polyhydroxyalkanoate from whey: <i>Caulobacter segnis</i> DSM 29236 as a suitable industrial strain. <i>Microbial Biotechnology</i> , 2019, 12, 487-501.	4.2	20
23	Molecular Insights into the Physical Adsorption of Amphiphilic Protein PhaF onto Copolyester Surfaces. <i>Biomacromolecules</i> , 2019, 20, 3242-3252.	5.4	18
24	Genome sequence and characterization of the <i>bcs</i> clusters for the production of nanocellulose from the low pH resistant strain <i>Komagataeibacter medellinensis</i> ID 13488. <i>Microbial Biotechnology</i> , 2019, 12, 620-632.	4.2	21
25	Interfacial Activity of Phasin PhaF from <i>Pseudomonas putida</i> KT2440 at Hydrophobic-Hydrophilic Bionterfaces. <i>Langmuir</i> , 2019, 35, 678-686.	3.5	12
26	Plastic waste management, a matter for the community™. <i>Microbial Biotechnology</i> , 2019, 12, 66-68.	4.2	78
27	Role of leucine zipper-like motifs in the oligomerization of <i>Pseudomonas putida</i> phasins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 362-370.	2.4	15
28	Plastic Biodegradation: Challenges and Opportunities. , 2018, , 1-29.		33
29	Poly-3-Hydroxybutyrate Functionalization with BioF-Tagged Recombinant Proteins. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	10
30	Biosynthesis of silver nanoparticles and polyhydroxybutyrate nanocomposites of interest in antimicrobial applications. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 426-435.	7.5	60
31	By-products of the cider production: an alternative source of nutrients to produce bacterial cellulose. <i>Cellulose</i> , 2017, 24, 2071-2082.	4.9	38
32	The contribution of microbial biotechnology to sustainable development goals. <i>Microbial Biotechnology</i> , 2017, 10, 984-987.	4.2	73
33	About how to capture and exploit the CO ₂ surplus that nature, per se, is not capable of fixing. <i>Microbial Biotechnology</i> , 2017, 10, 1216-1225.	4.2	11
34	Syngas obtained by microwave pyrolysis of household wastes as feedstock for polyhydroxyalkanoate production in <i>Rhodospirillum rubrum</i> . <i>Microbial Biotechnology</i> , 2017, 10, 1412-1417.	4.2	29
35	Biogenesis of Medium-Chain-Length Polyhydroxyalkanoates. , 2017, , 1-25.		3
36	Determination of the Predatory Capability of <i>Bdellovibrio bacteriovorus</i> HD100. <i>Bio-protocol</i> , 2017, 7, e2177.	0.4	8

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37	To be, or not to be biodegradable – that is the question for the bio-based plastics. <i>Microbial Biotechnology</i> , 2016, 9, 652-657.	4.2	58
38	Engineering a predatory bacterium as a proficient killer agent for intracellular bio-products recovery: The case of the polyhydroxyalkanoates. <i>Scientific Reports</i> , 2016, 6, 24381.	3.3	71
39	Carbon roadmap from syngas to polyhydroxyalkanoates in <i>Rhodospirillum rubrum</i> . <i>Environmental Microbiology</i> , 2016, 18, 708-720.	3.8	44
40	A holistic view of polyhydroxyalkanoate metabolism in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2016, 18, 341-357.	3.8	165
41	Plastic waste as a novel substrate for industrial biotechnology. <i>Microbial Biotechnology</i> , 2015, 8, 900-903.	4.2	134
42	“Mentor in Bioeconomics” – A tribute to Bernard Witholt by those who worked with him. <i>Microbial Biotechnology</i> , 2015, 8, 617-621.	4.2	0
43	New challenges for syngas fermentation: towards production of biopolymers. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1735-1751.	3.2	53
44	<i>Pseudomonas pseudoalcaligenes</i> CECT5344, a cyanide-degrading bacterium with by-product (polyhydroxyalkanoates) formation capacity. <i>Microbial Cell Factories</i> , 2015, 14, 77.	4.0	18
45	Oil fractions from the pyrolysis of diverse organic wastes: The different effects of conventional and microwave induced pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 114, 256-264.	5.5	17
46	Smart polyhydroxyalkanoate nanobeads by protein based functionalization. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 885-899.	3.3	51
47	Novel extracellular medium-chain-length polyhydroxyalkanoate depolymerase from <i>Streptomyces exfoliatus</i> K10 DSMZ 41693: a promising biocatalyst for the efficient degradation of natural and functionalized mcl-PHAs. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9605-9615.	3.6	21
48	A phasin with extra talents: a polyhydroxyalkanoate granule-associated protein has chaperone activity. <i>Environmental Microbiology</i> , 2015, 17, 1765-1776.	3.8	33
49	Genome Sequence of <i>Streptomyces exfoliatus</i> DSMZ 41693, a Source of Poly(3-Hydroxyalkanoate)-Degrading Enzymes. <i>Genome Announcements</i> , 2014, 2, .	0.8	5
50	The <i>Crc</i> protein inhibits the production of polyhydroxyalkanoates in <i>Pseudomonas putida</i> under balanced carbon/nitrogen growth conditions. <i>Environmental Microbiology</i> , 2014, 16, 278-290.	3.8	30
51	Improvement on the yield of polyhydroxyalkanoates production from cheese whey by a recombinant <i>Escherichia coli</i> strain using the proton suicide methodology. <i>Enzyme and Microbial Technology</i> , 2014, 55, 151-158.	3.2	32
52	A role for the regulator <i>PsrA</i> in the polyhydroxyalkanoate metabolism of <i>Pseudomonas putida</i> KT2440. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 14-20.	7.5	18
53	Cell system engineering to produce extracellular polyhydroxyalkanoate depolymerase with targeted applications. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 28-33.	7.5	17
54	PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2014, 35, 14-24.	11.4	63

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55	Near-infrared fluorescence imaging as an alternative to bioluminescent bacteria to monitor biomaterial-associated infections. <i>Acta Biomaterialia</i> , 2014, 10, 2935-2944.	8.3	17
56	The role of GlpR repressor in <i>Pseudomonas putida</i> KT2440 growth and PHA production from glycerol. <i>Environmental Microbiology</i> , 2013, 15, 93-110.	3.8	80
57	New insights on the reorganization of gene transcription in <i>Pseudomonas putida</i> KT2440 at elevated pressure. <i>Microbial Cell Factories</i> , 2013, 12, 30.	4.0	39
58	The effect of polyphosphate kinase gene deletion on polyhydroxyalkanoate accumulation and carbon metabolism in <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology Reports</i> , 2013, 5, 740-746.	2.4	14
59	Swapping of Phasin Modules To Optimize the In Vivo Immobilization of Proteins to Medium-Chain-Length Polyhydroxyalkanoate Granules in <i>Pseudomonas putida</i> . <i>Biomacromolecules</i> , 2013, 14, 3285-3293.	5.4	30
60	Reward for <i>Bdellovibrio bacteriovorus</i> for preying on a polyhydroxyalkanoate producer. <i>Environmental Microbiology</i> , 2013, 15, 1204-1215.	3.8	29
61	A New Family of Intrinsically Disordered Proteins: Structural Characterization of the Major Phasin PhaF from <i>Pseudomonas putida</i> KT2440. <i>PLoS ONE</i> , 2013, 8, e56904.	2.5	51
62	Second-generation functionalized medium-chain-length polyhydroxyalkanoates: the gateway to high-value bioplastic applications. <i>International Microbiology</i> , 2013, 16, 1-15.	2.4	60
63	Genome Sequence of the Methanotrophic Poly- β -Hydroxybutyrate Producer <i>Methylocystis parvus</i> OBBP. <i>Journal of Bacteriology</i> , 2012, 194, 5709-5710.	2.2	31
64	Identification and Biochemical Evidence of a Medium-Chain-Length Polyhydroxyalkanoate Depolymerase in the <i>Bdellovibrio bacteriovorus</i> Predatory Hydrolytic Arsenal. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6017-6026.	3.1	62
65	Characterization of a Novel Subgroup of Extracellular Medium-Chain-Length Polyhydroxyalkanoate Depolymerases from Actinobacteria. <i>Applied and Environmental Microbiology</i> , 2012, 78, 7229-7237.	3.1	33
66	The polyhydroxyalkanoate metabolism controls carbon and energy spillage in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2012, 14, 1049-1063.	3.8	92
67	The metabolic response of <i>P. putida</i> KT2442 producing high levels of polyhydroxyalkanoate under single- and multiple-nutrient-limited growth: Highlights from a multi-level omics approach. <i>Microbial Cell Factories</i> , 2012, 11, 34.	4.0	117
68	Extracellular production of <i>Streptomyces exfoliatus</i> poly(3-hydroxybutyrate) depolymerase in <i>Rhodococcus</i> sp. T104: determination of optimal biocatalyst conditions. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1975-1988.	3.6	23
69	Nucleoid-associated PhaF phasin drives intracellular location and segregation of polyhydroxyalkanoate granules in <i>Pseudomonas putida</i> KT2442. <i>Molecular Microbiology</i> , 2011, 79, 402-418.	2.5	102
70	Controlled autolysis facilitates the polyhydroxyalkanoate recovery in <i>Pseudomonas putida</i> KT2440. <i>Microbial Biotechnology</i> , 2011, 4, 533-547.	4.2	75
71	Polymeric systems containing dual biologically active ions. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4980-4991.	5.5	8
72	Disruption of β -oxidation pathway in <i>Pseudomonas putida</i> KT2442 to produce new functionalized PHAs with thioester groups. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1583-1598.	3.6	77

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73	Development of a Hige bioreactor (HBR) for production of polyhydroxyalkanoate: Hydrodynamics, gas-liquid mass transfer and fermentation studies. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 748-758.	3.6	11
74	The turnover of medium-chain-length polyhydroxyalkanoates in <i>Pseudomonas putida</i> KT2442 and the fundamental role of PhaZ depolymerase for the metabolic balance. <i>Environmental Microbiology</i> , 2010, 12, 207-221.	3.8	108
75	The PhaD regulator controls the simultaneous expression of the <i>pha</i> genes involved in polyhydroxyalkanoate metabolism and turnover in <i>Pseudomonas putida</i> KT2442. <i>Environmental Microbiology</i> , 2010, 12, 1591-1603.	3.8	59
76	Comparative Analysis of the Physiological and Structural Properties of a Medium Chain Length Polyhydroxyalkanoate Depolymerase from <i>Pseudomonas putida</i> KT2442. <i>Engineering in Life Sciences</i> , 2008, 8, 260-267.	3.6	17
77	Expression Profile of <i>pha</i> Gene Cluster of <i>Pseudomonas putida</i> KT2442. <i>Macromolecular Symposia</i> , 2008, 269, 8-10.	0.7	0
78	From Oil to Bioplastics, a Dream Come True?. <i>Journal of Bacteriology</i> , 2007, 189, 289-290.	2.2	25
79	Biochemical Evidence That <i>phaZ</i> Gene Encodes a Specific Intracellular Medium Chain Length Polyhydroxyalkanoate Depolymerase in <i>Pseudomonas putida</i> KT2442. <i>Journal of Biological Chemistry</i> , 2007, 282, 4951-4962.	3.4	77
80	Macroporous Scaffolds Based on Chitosan and Bioactive Molecules. <i>Journal of Bioactive and Compatible Polymers</i> , 2007, 22, 621-636.	2.1	39
81	New tool for spreading proteins to the environment: Cry1Ab toxin immobilized to bioplastics. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 88-93.	3.6	22
82	The PaaX Repressor, a Link between Penicillin G Acylase and the Phenylacetyl-Coenzyme A Catabolon of <i>Escherichia coli</i> W. <i>Journal of Bacteriology</i> , 2004, 186, 2215-2220.	2.2	24
83	Aromatic metabolism versus carbon availability: the regulatory network that controls catabolism of less-preferred carbon sources in <i>Escherichia coli</i> . <i>FEMS Microbiology Reviews</i> , 2004, 28, 503-518.	8.6	21
84	In Vivo Immobilization of Fusion Proteins on Bioplastics by the Novel Tag BioF. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3205-3212.	3.1	88
85	Molecular determinants of the <i>hpa</i> regulatory system of <i>Escherichia coli</i> : the HpaR repressor. <i>Nucleic Acids Research</i> , 2003, 31, 6598-6609.	14.5	62
86	Biodegradation of Aromatic Compounds by <i>Escherichia coli</i> . <i>Microbiology and Molecular Biology Reviews</i> , 2001, 65, 523-569.	6.6	314
87	Two-stage continuous process development for the production of medium-chain-length poly(3-hydroxyalkanoates). <i>Biotechnology and Bioengineering</i> , 2001, 72, 19-24.	3.3	69
88	Superimposed Levels of Regulation of the 4-Hydroxyphenylacetate Catabolic Pathway in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 37060-37068.	3.4	23
89	Bacterial promoters triggering biodegradation of aromatic pollutants. <i>Current Opinion in Biotechnology</i> , 2000, 11, 467-475.	6.6	151
90	Functional Analysis of the Small Component of the 4-Hydroxyphenylacetate 3-Monooxygenase of <i>Escherichia coli</i> W: a Prototype of a New Flavin:NAD(P)H Reductase Subfamily. <i>Journal of Bacteriology</i> , 2000, 182, 627-636.	2.2	178

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91	Novel Biodegradable Aromatic Plastics from a Bacterial Source. Journal of Biological Chemistry, 1999, 274, 29228-29241.	3.4	116
92	Identification of a Novel Positive Regulator of the 4-Hydroxyphenylacetate Catabolic Pathway of Escherichia coli. Biochemical and Biophysical Research Communications, 1997, 232, 759-765.	2.1	39
93	Identification of the 4-hydroxyphenylacetate transport gene of Escherichia coli W : construction of a highly sensitive cellular biosensor. FEBS Letters, 1997, 414, 293-297.	2.8	35
94	Molecular characterization of PadA, a phenylacetaldehyde dehydrogenase from Escherichia coli. FEBS Letters, 1997, 406, 23-27.	2.8	61
95	Cloning and sequencing of the pac gene encoding the penicillin G acylase of Bacillus megaterium ATCC 14945. FEMS Microbiology Letters, 1995, 125, 287-292.	1.8	40