

Edgardo T Farinas

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,167
citations

623734

14
h-index

677142

22
g-index

26
all docs

26
docs citations

26
times ranked

1193
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory evolution of a soluble, self-sufficient, highly active alkane hydroxylase. <i>Nature Biotechnology</i> , 2002, 20, 1135-1139.	17.5	379
2	Directed enzyme evolution. <i>Current Opinion in Biotechnology</i> , 2001, 12, 545-551.	6.6	252
3	Alkene epoxidation catalyzed by cytochrome P450 BM-3 139-3. <i>Tetrahedron</i> , 2004, 60, 525-528.	1.9	106
4	Directed evolution of CotA laccase for increased substrate specificity using <i>Bacillus subtilis</i> spores. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 679-682.	2.1	68
5	Colorimetric High-Throughput Assay for Alkene Epoxidation Catalyzed by Cytochrome P450 BM-3 Variant 139-3. <i>Journal of Biomolecular Screening</i> , 2004, 9, 141-146.	2.6	53
6	Cost-Effective Whole-Cell Assay for Laboratory Evolution of Hydroxylases in <i>Escherichia coli</i> . <i>Journal of Biomolecular Screening</i> , 2001, 6, 111-117.	2.6	45
7	Laboratory evolution of laccase for substrate specificity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 62, 230-234.	1.8	45
8	A designed synthetic analog of cobalt(III)-bleomycin with enhanced DNA-binding and photocleaving activity. <i>Journal of the American Chemical Society</i> , 1993, 115, 2996-2997.	13.7	42
9	Photoinduced DNA Cleavage Reactions by Designed Analogues of Co(III)-Bleomycin: The Metalated Core Is the Primary Determinant of Sequence Specificity. <i>Inorganic Chemistry</i> , 1996, 35, 2637-2643.	4.0	29
10	Assignment of Function to Histidines 260 and 298 by Engineering the E1 Component of the <i>Escherichia coli</i> 2-Oxoglutarate Dehydrogenase Complex; Substitutions That Lead to Acceptance of Substrates Lacking the 5-Carboxyl Group. <i>Biochemistry</i> , 2011, 50, 7705-7709.	2.5	23
11	NMR Evidence of Sequence Specific DNA Binding by a Cobalt(III)-Bleomycin Analog with Tethered Acridine. <i>Inorganic Chemistry</i> , 1994, 33, 4295-4308.	4.0	22
12	Narrowing Laccase Substrate Specificity Using Active Site Saturation Mutagenesis. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 269-274.	1.1	21
13	Fluorescence Activated Cell Sorting for Enzymatic Activity. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2006, 9, 321-328.	1.1	19
14	<i>Bacillus subtilis</i> Spore Display of Laccase for Evolution under Extreme Conditions of High Concentrations of Organic Solvent. <i>ACS Combinatorial Science</i> , 2014, 16, 665-669.	3.8	16
15	Engineering CotA Laccase for Acidic pH Stability Using <i>Bacillus subtilis</i> Spore Display. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 507-513.	2.1	12
16	Synergistic Effects of Microwave Radiation and Nanocarbon Immobilized Membranes in the Generation of Bacteria-Free Water via Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 1453-1463.	3.7	10
17	Catalysis of transthiolacylation in the active centers of dihydrolipoamide acyltransacetylase components of α -oxo acid dehydrogenase complexes. <i>FEBS Open Bio</i> , 2018, 8, 880-896.	2.3	9
18	Laccase and Its Mutant Displayed on the <i>Bacillus subtilis</i> Spore Coat for Oxidation of Phenolic Compounds in Organic Solvents. <i>Catalysts</i> , 2021, 11, 606.	3.5	6

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19	Engineering 2-oxoglutarate dehydrogenase to a α -oxo aliphatic dehydrogenase complex by optimizing consecutive components. <i>AIChE Journal</i> , 2020, 66, e16769.	3.6	4
20	Investigation of the donor and acceptor range for chiral carbonylation catalyzed by the E1 component of the 2-oxoglutarate dehydrogenase complex. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 98, 42-45.	1.8	3
21	Engineering the 2-Oxoglutarate Dehydrogenase Complex to Understand Catalysis and Alter Substrate Recognition. <i>Reactions</i> , 2022, 3, 139-159.	2.1	2
22	Syntheses, structures and reactivities of designed analogues of cobalt(III)-bleomycin: Insight into the mechanism of sequence-specific DNA cleavage upon illumination. <i>Journal of Chemical Sciences</i> , 1995, 107, 459-476.	1.5	1
23	Meet the Guest Editor. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2006, 9, 329-329.	1.1	0
24	Laboratory Evolution of Laccase for Substrate Specificity. <i>FASEB Journal</i> , 2010, 24, 645.3.	0.5	0
25	Altering the substrate specificity of the Escherichia coli E1 Component of the 2-Oxoglutarate Dehydrogenase Multienzyme Complex. <i>FASEB Journal</i> , 2010, 24, 645.6.	0.5	0