

Manuel Ferrer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9556941/publications.pdf>

Version: 2024-02-01

231
papers

16,311
citations

13068

68
h-index

19136

118
g-index

242
all docs

242
docs citations

242
times ranked

20038
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences in saliva ACE2 activity among infected and non-infected adult and pediatric population exposed to SARS-CoV-2. <i>Journal of Infection</i> , 2022, 85, 86-89.	1.7	7
2	Metagenomic Mining for Esterases in the Microbial Community of Los Ruedos Acid Mine Drainage Formation. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	4
3	Crystal structure of a family <sc>VIII</sc> Î²-actamase fold hydrolase reveals the molecular mechanism for its broad substrate scope. <i>FEBS Journal</i> , 2022, 289, 6714-6730.	2.2	1
4	Blood Bacterial Profiles Associated With Human Immunodeficiency Virus Infection and Immune Recovery. <i>Journal of Infectious Diseases</i> , 2021, 223, 471-481.	1.9	9
5	A body weight loss- and health-promoting gut microbiota is established after bariatric surgery in individuals with severe obesity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 193, 113747.	1.4	14
6	Towards full-spectrum photocatalysis: Successful approaches and materials. <i>Applied Catalysis A: General</i> , 2021, 610, 117966.	2.2	36
7	Structure and evolutionary trace-assisted screening of a residue swapping the substrate ambiguity and chiral specificity in an esterase. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2307-2317.	1.9	6
8	Deciphering a Marine Bone-Degrading Microbiome Reveals a Complex Community Effort. <i>MSystems</i> , 2021, 6, .	1.7	10
9	Î±-Transaminase-Mediated Asymmetric Synthesis of (S)-1-(4-Trifluoromethylphenyl)Ethylamine. <i>Catalysts</i> , 2021, 11, 307.	1.6	4
10	Two-step functional screen on multiple proteinaceous substrates reveals temperature-robust proteases with a broad-substrate range. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3195-3209.	1.7	6
11	Computationally Driven Rational Design of Substrate Promiscuity on Serine Ester Hydrolases. <i>ACS Catalysis</i> , 2021, 11, 3590-3601.	5.5	17
12	Promiscuous Esterases Counterintuitively Are Less Flexible than Specific Ones. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2383-2395.	2.5	13
13	The <i>Komagataeibacter europaeus</i> GqqA is the prototype of a novel bifunctional N-Acyl-homoserine lactone acylase with prephenate dehydratase activity. <i>Scientific Reports</i> , 2021, 11, 12255.	1.6	4
14	Metabolomics reveals synergy between Ag and g-C3N4 in Ag/g-C3N4 composite photocatalysts: a unique feature among Ag-doped biocidal materials. <i>Metabolomics</i> , 2021, 17, 53.	1.4	2
15	Crystal structures of a novel family IV esterase in free and substrate-bound form. <i>FEBS Journal</i> , 2021, 288, 3570-3584.	2.2	15
16	Functional Characterisation of Bile Metagenome: Study of Metagenomic Dark Matter. <i>Microorganisms</i> , 2021, 9, 2201.	1.6	2
17	The bone-degrading enzyme machinery: From multi-component understanding to the treatment of residues from the meat industry. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6328-6342.	1.9	2
18	Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. <i>Nature Catalysis</i> , 2020, 3, 319-328.	16.1	90

#	ARTICLE	IF	CITATIONS
19	Functional microbiome deficits associated with ageing: Chronological age threshold. <i>Aging Cell</i> , 2020, 19, e13063.	3.0	49
20	Sunlight active g-C ₃ N ₄ -based Mn ⁺ (M Cu, Ni, Zn, Mn) promoted catalysts: Sharing of nitrogen atoms as a door for optimizing photo-activity. <i>Molecular Catalysis</i> , 2020, 484, 110725.	1.0	2
21	Use of Flavin-Containing Monooxygenases for Conversion of Trimethylamine in Salmon Protein Hydrolysates. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	5
22	Symbiosis between nanohaloarchaeon and haloarchaeon is based on utilization of different polysaccharides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20223-20234.	3.3	49
23	Sunlight-Operated TiO ₂ -Based Photocatalysts. <i>Molecules</i> , 2020, 25, 4008.	1.7	23
24	Dissimilatory sulfate reduction in the archaeon <i>Candidatus Vulcanisaeta moutnovskia</i> ™ sheds light on the evolution of sulfur metabolism. <i>Nature Microbiology</i> , 2020, 5, 1428-1438.	5.9	27
25	Tuning the Properties of Natural Promiscuous Enzymes by Engineering Their Nano-environment. <i>ACS Nano</i> , 2020, 14, 17652-17664.	7.3	22
26	Boosting Pt/TiO ₂ hydrogen photoproduction through Zr doping of the anatase structure: A spectroscopic and mechanistic study. <i>Chemical Engineering Journal</i> , 2020, 398, 125665.	6.6	18
27	Photocatalytic toluene degradation: braiding physico-chemical and intrinsic kinetic analyses. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1429-1440.	1.9	2
28	Microemulsion: A versatile synthesis tool for photocatalysis. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 49, 42-59.	3.4	14
29	A Novel Polyester Hydrolase From the Marine Bacterium <i>Pseudomonas aestusnigri</i> Structural and Functional Insights. <i>Frontiers in Microbiology</i> , 2020, 11, 114.	1.5	172
30	Organic-Solvent-Tolerant Carboxylic Ester Hydrolases for Organic Synthesis. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	20
31	Proteome Cold-Shock Response in the Extremely Acidophilic Archaeon, <i>Cuniculiplasma divulgatum</i> . <i>Microorganisms</i> , 2020, 8, 759.	1.6	3
32	Bacterial taxa decoupling with ageing. <i>Aging</i> , 2020, 12, 15878-15879.	1.4	0
33	Archaea dominate the microbial community in an ecosystem with low-to-moderate temperature and extreme acidity. <i>Microbiome</i> , 2019, 7, 11.	4.9	58
34	Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. <i>Chemical Society Reviews</i> , 2019, 48, 637-682.	18.7	79
35	Techniques for Phenotyping the Gut Microbiota Metabolome. , 2019, , 33-41.		0
36	Reply to "Evolutionary placement of <i>Methanonatronarchaeia</i> ™". <i>Nature Microbiology</i> , 2019, 4, 560-561.	5.9	7

#	ARTICLE	IF	CITATIONS
37	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. FEMS Microbiology Letters, 2019, 366, .	0.7	26
38	Bioprospecting Reveals Class III α -Transaminases Converting Bulky Ketones and Environmentally Relevant Polyamines. Applied and Environmental Microbiology, 2019, 85, .	1.4	17
39	Hydrocarbon-Degrading Microbes as Sources of New Biocatalysts. , 2019, , 353-373.		3
40	Effects of HIV, antiretroviral therapy and prebiotics on the active fraction of the gut microbiota. Aids, 2018, 32, 1229-1237.	1.0	25
41	Er-W codoping of TiO ₂ -anatase: Structural and electronic characterization and disinfection capability under UV-vis, and near-IR excitation. Applied Catalysis B: Environmental, 2018, 228, 113-129.	10.8	22
42	Rational Engineering of Multiple Active Sites in an Ester Hydrolase. Biochemistry, 2018, 57, 2245-2255.	1.2	57
43	The functional consequences of the microbiome in HIV. Current Opinion in HIV and AIDS, 2018, 13, 88-94.	1.5	13
44	Complementary Methodologies To Investigate Human Gut Microbiota in Host Health, Working towards Integrative Systems Biology. Journal of Bacteriology, 2018, 200, .	1.0	9
45	Determinants and Prediction of Esterase Substrate Promiscuity Patterns. ACS Chemical Biology, 2018, 13, 225-234.	1.6	106
46	Metabolic versatility of small archaea Micrarchaeota and Parvarchaeota. ISME Journal, 2018, 12, 756-775.	4.4	91
47	Thermo-photo degradation of 2-propanol using a composite ceria-titania catalyst: Physico-chemical interpretation from a kinetic model. Applied Catalysis B: Environmental, 2018, 225, 298-306.	10.8	34
48	Metagenomic Protocols and Strategies. , 2018, , 15-54.		7
49	Proteogenomic Analysis of Epibacterium Mobile BBCC367, a Relevant Marine Bacterium Isolated From the South Pacific Ocean. Frontiers in Microbiology, 2018, 9, 3125.	1.5	4
50	Sulfur Respiration in a Group of Facultatively Anaerobic Natronoarchaea Ubiquitous in Hypersaline Soda Lakes. Frontiers in Microbiology, 2018, 9, 2359.	1.5	30
51	Hydrocarbon-Degrading Microbes as Sources of New Biocatalysts. , 2018, , 1-21.		1
52	The Thaumarchaeon <i>N. gargensis</i> carries functional bioABD genes and has a promiscuous <i>E. coli</i> β -bioH-complementing esterase EstN1. Scientific Reports, 2018, 8, 13823.	1.6	11
53	Interplay between gut microbiota metabolism and inflammation in HIV infection. ISME Journal, 2018, 12, 1964-1976.	4.4	48
54	Relationships between Substrate Promiscuity and Chiral Selectivity of Esterases from Phylogenetically and Environmentally Diverse Microorganisms. Catalysts, 2018, 8, 10.	1.6	11

#	ARTICLE	IF	CITATIONS
55	Biocatalysis and Biotransformations. <i>Catalysts</i> , 2018, 8, 216.	1.6	3
56	Proteomic Analysis of <i>Methanonatronarchaeum thermophilum</i> AMET1, a Representative of a Putative New Class of Euryarchaeota, <i>Genes</i> , 2018, 9, 28.	1.0	8
57	Novel (NH ₄) ₄ [NiMo ₆ O ₂₄ H ₆]·5H ₂ O <i>vs</i> TiO ₂ composite system: Photo-oxidation of toluene under UV and sunlight-type illumination. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 381-392.	10.8	16
58	Controlled manipulation of enzyme specificity through immobilization-induced flexibility constraints. <i>Applied Catalysis A: General</i> , 2018, 565, 59-67.	2.2	24
59	Functional-Based Screening Methods for Detecting Esterase and Lipase Activity Against Multiple Substrates. <i>Methods in Molecular Biology</i> , 2018, 1835, 109-117.	0.4	5
60	Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. <i>ISME Journal</i> , 2017, 11, 1245-1260.	4.4	79
61	How can the gut microbiota affect immune recovery in HIV-infected individuals?. <i>Future Microbiology</i> , 2017, 12, 195-199.	1.0	8
62	Activity screening of environmental metagenomic libraries reveals novel carboxylesterase families. <i>Scientific Reports</i> , 2017, 7, 44103.	1.6	67
63	One-year calorie restriction impacts gut microbial composition but not its metabolic performance in obese adolescents. <i>Environmental Microbiology</i> , 2017, 19, 1536-1551.	1.8	54
64	Degradation Network Reconstruction Guided by Metagenomic Data. <i>Methods in Molecular Biology</i> , 2017, 1539, 145-157.	0.4	1
65	UV and visible hydrogen photo-production using Pt promoted Nb-doped TiO ₂ photo-catalysts: Interpreting quantum efficiency. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 133-145.	10.8	41
66	Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. <i>Nature Microbiology</i> , 2017, 2, 17081.	5.9	213
67	Phenotyping of gut microbiota: Focus on capillary electrophoresis. <i>Electrophoresis</i> , 2017, 38, 2275-2286.	1.3	9
68	Nitrilotriacetic Amine-Functionalized Polymeric Core-Shell Nanoparticles as Enzyme Immobilization Supports. <i>Biomacromolecules</i> , 2017, 18, 2777-2788.	2.6	31
69	Metabolic and evolutionary patterns in the extremely acidophilic archaeon <i>Ferroplasma acidiphilum</i> YT. <i>Scientific Reports</i> , 2017, 7, 3682.	1.6	21
70	The genome analysis of <i>Oleiphilus messinensis</i> ME102 (DSM 13489 T) reveals backgrounds of its obligate alkane-devouring marine lifestyle. <i>Marine Genomics</i> , 2017, 36, 41-47.	0.4	18
71	<i>ARMAN</i> TM archaea depend on association with euryarchaeal host in culture and in situ. <i>Nature Communications</i> , 2017, 8, 60.	5.8	116
72	Exploring the human microbiome from multiple perspectives: factors altering its composition and function. <i>FEMS Microbiology Reviews</i> , 2017, 41, 453-478.	3.9	117

#	ARTICLE	IF	CITATIONS
73	Effect of exfoliation and surface deposition of MnO _x species in g-C ₃ N ₄ : Toluene photo-degradation under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 663-672.	10.8	43
74	Metagenomics and the Search for Industrial Enzymes. , 2017, , 167-184.		4
75	Antibiotic use and microbiome function. <i>Biochemical Pharmacology</i> , 2017, 134, 114-126.	2.0	240
76	Functionalization and Modification of Hydrocarbon-Like Molecules Guided by Metagenomics: Enzymes Most Requested at the Industrial Scale for Chemical Synthesis as Study Cases. , 2017, , 309-329.		0
77	Metagenomic Mining of Enzyme Diversity. , 2017, , 245-269.		2
78	Distribution of Hydrocarbon Degradation Pathways in the Sea. , 2017, , 629-651.		0
79	High Throughput Screening of Esterases, Lipases and Phospholipases in Mutant and Metagenomic Libraries: A Review. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2016, 19, 605-615.	0.6	35
80	Surface CuO, Bi ₂ O ₃ , and CeO ₂ Species Supported in TiO ₂ -Anatase: Study of Interface Effects in Toluene Photodegradation Quantum Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13934-13945.	4.0	22
81	Functional Metagenomics of a Biostimulated Petroleum-Contaminated Soil Reveals an Extraordinary Diversity of Extradiol Dioxygenases. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2467-2478.	1.4	33
82	Estimating the success of enzyme bioprospecting through metagenomics: current status and future trends. <i>Microbial Biotechnology</i> , 2016, 9, 22-34.	2.0	175
83	Gut Bacteria Metabolism Impacts Immune Recovery in HIV-infected Individuals. <i>EBioMedicine</i> , 2016, 8, 203-216.	2.7	93
84	Structural and Functional Characterization of a Ruminal Î ² -Glycosidase Defines a Novel Subfamily of Glycoside Hydrolase Family 3 with Permuted Domain Topology. <i>Journal of Biological Chemistry</i> , 2016, 291, 24200-24214.	1.6	21
85	Insights into the degradation capacities of <i>Amycolatopsis tucumanensis</i> DSM 45259 guided by microarray data. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 201.	1.7	8
86	HIV infection results in metabolic alterations in the gut microbiota different from those induced by other diseases. <i>Scientific Reports</i> , 2016, 6, 26192.	1.6	50
87	Genome sequence of obligate marine polycyclic aromatic hydrocarbons-degrading bacterium <i>Cycloclasticus</i> sp. 78-ME, isolated from petroleum deposits of the sunken tanker Amoco Milford Haven , Mediterranean Sea. <i>Marine Genomics</i> , 2016, 25, 11-13.	0.4	37
88	Disinfection capability of Ag/g-C ₃ N ₄ composite photocatalysts under UV and visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 86-95.	10.8	127
89	Functional Redundancy-Induced Stability of Gut Microbiota Subjected to Disturbance. <i>Trends in Microbiology</i> , 2016, 24, 402-413.	3.5	451
90	Interface Effects in Sunlight-Driven Ag/g-C ₃ N ₄ Composite Catalysts: Study of the Toluene Photodegradation Quantum Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2617-2627.	4.0	140

#	ARTICLE	IF	CITATIONS
91	Elemental sulfur and acetate can support life of a novel strictly anaerobic haloarchaeon. ISME Journal, 2016, 10, 240-252.	4.4	62
92	Functionalization and Modification of Hydrocarbon-Like Molecules Guided by Metagenomics: Enzymes Most Requested at the Industrial Scale for Chemical Synthesis as Study Cases. , 2016, , 1-21.		1
93	Metagenomic Mining of Enzyme Diversity. , 2016, , 1-25.		1
94	Distribution of Hydrocarbon Degradation Pathways in the Sea. , 2016, , 1-23.		0
95	Biodiversity for biocatalysis: A review of the β -hydrolase fold superfamily of esterases-lipases discovered in metagenomes. Biocatalysis and Biotransformation, 2015, 33, 235-249.	1.1	48
96	Metaproteomics and metabolomics analyses of chronically petroleum-polluted sites reveal the importance of general anaerobic processes uncoupled with degradation. Proteomics, 2015, 15, 3508-3520.	1.3	58
97	Microbial diversity and metabolic networks in acid mine drainage habitats. Frontiers in Microbiology, 2015, 6, 475.	1.5	239
98	Degradation Network Reconstruction in Uric Acid and Ammonium Amendments in Oil-Degrading Marine Microcosms Guided by Metagenomic Data. Frontiers in Microbiology, 2015, 6, 1270.	1.5	18
99	<i>Clostridium difficile</i> heterogeneously impacts intestinal community architecture but drives stable metabolome responses. ISME Journal, 2015, 9, 2206-2220.	4.4	50
100	Cu-TiO ₂ systems for the photocatalytic H ₂ production: Influence of structural and surface support features. Applied Catalysis B: Environmental, 2015, 179, 468-478.	10.8	79
101	Context-specific metabolic network reconstruction of a naphthalene-degrading bacterial community guided by metaproteomic data. Bioinformatics, 2015, 31, 1771-1779.	1.8	31
102	Microbial community of the deep-sea brine lake <i>Kryos</i> seawater-brine interface is active below the chaotropy limit of life as revealed by recovery of mRNA. Environmental Microbiology, 2015, 17, 364-382.	1.8	109
103	Identification and Characterization of Carboxyl Esterases of Gill Chamber-Associated Microbiota in the Deep-Sea Shrimp <i>Rimicaris exoculata</i> by Using Functional Metagenomics. Applied and Environmental Microbiology, 2015, 81, 2125-2136.	1.4	35
104	Pressure adaptation is linked to thermal adaptation in salt-saturated marine habitats. Environmental Microbiology, 2015, 17, 332-345.	1.8	40
105	Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. Scientific Reports, 2015, 5, 11651.	1.6	91
106	Heterogeneous photocatalysis: Light-matter interaction and chemical effects in quantum efficiency calculations. Journal of Catalysis, 2015, 330, 154-166.	3.1	59
107	Ranking the impact of human health disorders on gut metabolism: Systemic lupus erythematosus and obesity as study cases. Scientific Reports, 2015, 5, 8310.	1.6	68
108	Conversion of Uric Acid into Ammonium in Oil-Degrading Marine Microbial Communities: a Possible Role of Halomonads. Microbial Ecology, 2015, 70, 724-740.	1.4	14

#	ARTICLE	IF	CITATIONS
109	Enhancing promoting effects in g-C ₃ N ₄ -Mn ⁺ /CeO ₂ -TiO ₂ ternary composites: Photo-handling of charge carriers. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 687-698.	10.8	33
110	Functional Screening of Metagenomic Libraries: Enzymes Acting on Greasy Molecules as Study Case. <i>Springer Protocols</i> , 2015, , 13-36.	0.1	1
111	Diversity of hydrolases from hydrothermal vent sediments of the Levante Bay, Vulcano Island (Aeolian) Tj ETQq1 1 0.784314 rgBT /Ov esterases and an arabinopyranosidase. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10031-10046.	1.7	36
112	Promotion of CeO ₂ â€TiO ₂ photoactivity by g-C ₃ N ₄ : Ultraviolet and visible light elimination of toluene. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 261-270.	10.8	63
113	Effects of Î²-Lactam Antibiotics and Fluoroquinolones on Human Gut Microbiota in Relation to <i>Clostridium difficile</i> Associated Diarrhea. <i>PLoS ONE</i> , 2014, 9, e89417.	1.1	61
114	Enzymes from Extreme Environments. , 2014, , 43-61.		1
115	Gut microbiota disturbance during antibiotic therapy. <i>Gut Microbes</i> , 2014, 5, 64-70.	4.3	83
116	Microbial stratification in low pH oxic and suboxic macroscopic growths along an acid mine drainage. <i>ISME Journal</i> , 2014, 8, 1259-1274.	4.4	105
117	Protein Extraction from Contaminated Soils and Sediments. <i>Springer Protocols</i> , 2014, , 215-231.	0.1	0
118	<sc>H</sc> proteogenomics and glycosidase activity measurements identify the first cultivated euryarchaeon from a deepâ€sea anoxic brine lake as potential polysaccharide degrader. <i>Environmental Microbiology</i> , 2014, 16, 2525-2537.	1.8	41
119	Role of Interface Contact in CeO ₂ â€TiO ₂ Photocatalytic Composite Materials. <i>ACS Catalysis</i> , 2014, 4, 63-72.	5.5	178
120	Green photo-oxidation of styrene over Wâ€Ti composite catalysts. <i>Journal of Catalysis</i> , 2014, 309, 428-438.	3.1	32
121	Biochemical studies on a versatile esterase that is most catalytically active with polyaromatic esters. <i>Microbial Biotechnology</i> , 2014, 7, 184-191.	2.0	26
122	Effective Enhancement of TiO ₂ Photocatalysis by Synergistic Interaction of Surface Species: From Promoters to Co-catalysts. <i>ACS Catalysis</i> , 2014, 4, 4277-4288.	5.5	37
123	<i>Alcanivorax borkumensis</i> produces an extracellular siderophore in iron-limitation condition maintaining the hydrocarbon-degradation efficiency. <i>Marine Genomics</i> , 2014, 17, 43-52.	0.4	27
124	Acetaldehyde degradation under UV and visible irradiation using CeO ₂ â€TiO ₂ composite systems: Evaluation of the photocatalytic efficiencies. <i>Chemical Engineering Journal</i> , 2014, 255, 297-306.	6.6	56
125	Heterotrophic bicarbonate assimilation is the main process of <i>de novo</i> organic carbon synthesis in hadal zone of the <sc>H</sc>ellenic <sc>T</sc>rench, the deepest part of <sc>M</sc>editerranean <sc>S</sc>ea. <i>Environmental Microbiology Reports</i> , 2014, 6, 709-722.	1.0	23
126	Abatement of organics and <i>Escherichia coli</i> using CeO ₂ -TiO ₂ composite oxides: Ultraviolet and visible light performances. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 350-359.	10.8	29

#	ARTICLE	IF	CITATIONS
127	Understanding the antimicrobial mechanism of TiO ₂ -based nanocomposite films in a pathogenic bacterium. <i>Scientific Reports</i> , 2014, 4, 4134.	1.6	335
128	Genome sequence and functional genomic analysis of the oil-degrading bacterium <i>Oleispira antarctica</i> . <i>Nature Communications</i> , 2013, 4, 2156.	5.8	115
129	Role of TiO ₂ morphological characteristics in EVOH/TiO ₂ nanocomposite films: self-degradation and self-cleaning properties. <i>RSC Advances</i> , 2013, 3, 8541.	1.7	10
130	Biochemical Diversity of Carboxyl Esterases and Lipases from Lake Arreo (Spain): a Metagenomic Approach. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3553-3562.	1.4	59
131	Gut microbiota disturbance during antibiotic therapy: a multi-omic approach. <i>Gut</i> , 2013, 62, 1591-1601.	6.1	488
132	Microbiota from the distal guts of lean and obese adolescents exhibit partial functional redundancy besides clear differences in community structure. <i>Environmental Microbiology</i> , 2013, 15, 211-226.	1.8	206
133	UV and visible light optimization of anatase TiO ₂ antimicrobial properties: Surface deposition of metal and oxide (Cu, Zn, Ag) species. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 680-690.	10.8	73
134	Bioinformatic progress and applications in metaproteogenomics for bridging the gap between genomic sequences and metabolic functions in microbial communities. <i>Proteomics</i> , 2013, 13, 2786-2804.	1.3	46
135	Single residues dictate the co-evolution of dual esterases: MCP hydrolases from the α/β hydrolase family. <i>Biochemical Journal</i> , 2013, 454, 157-166.	1.7	34
136	Sunlight-driven toluene photo-elimination using CeO ₂ -TiO ₂ composite systems: A kinetic study. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 626-635.	10.8	58
137	Bioremediation of Southern Mediterranean oil polluted sites comes of age. <i>New Biotechnology</i> , 2013, 30, 743-748.	2.4	32
138	The COMBEX Project: Design, Methodology, and Initial Results. <i>PLoS Biology</i> , 2013, 11, e1001638.	2.6	54
139	Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. <i>Scientific Reports</i> , 2013, 3, 3554.	1.6	78
140	Functional consequences of microbial shifts in the human gastrointestinal tract linked to antibiotic treatment and obesity. <i>Gut Microbes</i> , 2013, 4, 306-315.	4.3	81
141	Metagenomics of Deep Hypersaline Anoxic Basins. , 2013, , 1-9.		2
142	Genome Sequence of <i>Thalassolituus oleivorans</i> MIL-1 (DSM 14913 ^T). <i>Genome Announcements</i> , 2013, 1, e0014113.	0.8	20
143	Metaproteogenomic insights beyond bacterial response to naphthalene exposure and bio-stimulation. <i>ISME Journal</i> , 2013, 7, 122-136.	4.4	124
144	Biodegradable Polycaprolactone-Titania Nanocomposites: Preparation, Characterization and Antimicrobial Properties. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9249-9266.	1.8	60

#	ARTICLE	IF	CITATIONS
145	Biochemical Characterization of Hypothetical Proteins from <i>Helicobacter pylori</i> . PLoS ONE, 2013, 8, e66605.	1.1	16
146	ULIXES, unravelling and exploiting Mediterranean Sea microbial diversity and ecology for xenobiotics and pollutants clean up. Reviews in Environmental Science and Biotechnology, 2012, 11, 207-211.	3.9	12
147	Microbial β -glucosidases from cow rumen metagenome enhance the saccharification of lignocellulose in combination with commercial cellulase cocktail. Biotechnology for Biofuels, 2012, 5, 73.	6.2	78
148	Titanium Dioxide Polymer Nanocomposites with Advanced Properties. , 2012, , 119-149.		3
149	Functional-Based Screening Methods for Lipases, Esterases, and Phospholipases in Metagenomic Libraries. Methods in Molecular Biology, 2012, 861, 101-113.	0.4	35
150	Functional Metagenomics Unveils a Multifunctional Glycosyl Hydrolase from the Family 43 Catalysing the Breakdown of Plant Polymers in the Calf Rumen. PLoS ONE, 2012, 7, e38134.	1.1	83
151	Advanced Nanoarchitectures for Solar Photocatalytic Applications. Chemical Reviews, 2012, 112, 1555-1614.	23.0	2,107
152	Unveiling microbial life in the new deep-sea hypersaline Lake <i>Thetis</i> . Part II: a metagenomic study. Environmental Microbiology, 2012, 14, 268-281.	1.8	50
153	Kinetics of photocatalytic disinfection in TiO ₂ -containing polymer thin films: UV and visible light performances. Applied Catalysis B: Environmental, 2012, 121-122, 230-238.	10.8	33
154	Gene Sets for Utilization of Primary and Secondary Nutrition Supplies in the Distal Gut of Endangered Iberian Lynx. PLoS ONE, 2012, 7, e51521.	1.1	23
155	Unveiling microbial life in new deep-sea hypersaline Lake <i>Thetis</i> . Part I: Prokaryotes and environmental settings. Environmental Microbiology, 2011, 13, 2250-2268.	1.8	86
156	Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian deep waters (Central Mediterranean Sea). ISME Journal, 2011, 5, 945-961.	4.4	109
157	Taxonomic and Functional Metagenomic Profiling of the Microbial Community in the Anoxic Sediment of a Sub-saline Shallow Lake (Laguna de Carrizo, Central Spain). Microbial Ecology, 2011, 62, 824-837.	1.4	51
158	Discovery of novel quaternary ammonium derivatives of (3R)-quinuclidinyl carbamates as potent and long acting muscarinic antagonists. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3457-3461.	1.0	16
159	Tailoring polymer TiO ₂ film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. Applied Catalysis B: Environmental, 2011, 104, 346-352.	10.8	42
160	Molecular Methods to Study Complex Microbial Communities. Methods in Molecular Biology, 2010, 668, 1-37.	0.4	10
161	Fate of prions in soil: Degradation of recombinant prion in aqueous extracts from soil and casts of two earthworm species. Soil Biology and Biochemistry, 2010, 42, 1168-1171.	4.2	10
162	Interconversion of catalytic abilities in a bifunctional carboxyl/feruloyl esterase from earthworm gut metagenome. Microbial Biotechnology, 2010, 3, 48-58.	2.0	15

#	ARTICLE	IF	CITATIONS
163	Genomic signatures of fifth autotrophic carbon assimilation pathway in bathypelagic <i>Crenarchaeota</i> . <i>Microbial Biotechnology</i> , 2010, 3, 595-606.	2.0	19
164	Novel Hybrid Esterase-Haloacid Dehalogenase Enzyme. <i>ChemBioChem</i> , 2010, 11, 1975-1978.	1.3	16
165	N- and/or W-(co)doped TiO ₂ -anatase catalysts: Effect of the calcination treatment on photoactivity. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 238-244.	10.8	74
166	Doping level effect on sunlight-driven W,N-co-doped TiO ₂ -anatase photo-catalysts for aromatic hydrocarbon partial oxidation. <i>Applied Catalysis B: Environmental</i> , 2010, 93, 274-281.	10.8	80
167	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010, 21, 532-538.	3.3	69
168	Metagenomic era for biocatalyst identification. <i>Current Opinion in Biotechnology</i> , 2010, 21, 725-733.	3.3	150
169	Global Regulation of Food Supply by <i>Pseudomonas putida</i> DOT-T1E. <i>Journal of Bacteriology</i> , 2010, 192, 2169-2181.	1.0	47
170	Diversity of Glycosyl Hydrolases from Cellulose-Depleting Communities Enriched from Casts of Two Earthworm Species. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5934-5946.	1.4	65
171	Screening Metagenomic Libraries for Laccase Activities. <i>Methods in Molecular Biology</i> , 2010, 668, 189-202.	0.4	18
172	Metagenomics for Mining New Genetic Resources of Microbial Communities. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009, 16, 109-123.	1.0	209
173	<i>Acidiplasma aeolicum</i> gen. nov., sp. nov., a euryarchaeon of the family Ferroplasmaceae isolated from a hydrothermal pool, and transfer of <i>Ferroplasma cupricumulans</i> to <i>Acidiplasma cupricumulans</i> comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 2815-2823.	0.8	93
174	Interplay of metagenomics and <i>in vitro</i> compartmentalization. <i>Microbial Biotechnology</i> , 2009, 2, 31-39.	2.0	29
175	The microbial reactome. <i>Microbial Biotechnology</i> , 2009, 2, 133-135.	2.0	5
176	Metagenomics as a new technological tool to gain scientific knowledge. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 945-954.	1.7	25
177	Metagenomics approaches in systems microbiology. <i>FEMS Microbiology Reviews</i> , 2009, 33, 236-255.	3.9	130
178	Boosting TiO ₂ -anatase antimicrobial activity: Polymer-oxide thin films. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 441-447.	10.8	81
179	Biocidal Capability Optimization in Organic-Inorganic Nanocomposites Based on Titania. <i>Environmental Science & Technology</i> , 2009, 43, 1630-1634.	4.6	23
180	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9182-9190.	1.5	66

#	ARTICLE	IF	CITATIONS
181	Reactome Array: Forging a Link Between Metabolome and Genome. <i>Science</i> , 2009, 326, 252-257.	6.0	39
182	Discovery of Novel Quaternary Ammonium Derivatives of (3 <i>R</i>)-Quinuclidinol Esters as Potent and Long-Acting Muscarinic Antagonists with Potential for Minimal Systemic Exposure after Inhaled Administration: Identification of (3 <i>R</i>)-3-[[Hydroxy(di-2-thienyl)acetyl]oxy]-1-(3-phenoxypropyl)-1-azoniabicyclo[2.2.2]octane Bromide (Acridinium Bromide). <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5076-5092.	2.9	68
183	Self-sterilized EVOH-TiO ₂ Nanocomposites: Interface Effects on Biocidal Properties. <i>Advanced Functional Materials</i> , 2008, 18, 1949-1960.	7.8	111
184	Acetylation of vitamin E by <i>Candida antarctica</i> lipase B immobilized on different carriers. <i>Process Biochemistry</i> , 2008, 43, 145-153.	1.8	53
185	Ag promotion of TiO ₂ -anatase disinfection capability: Study of <i>Escherichia coli</i> inactivation. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 87-93.	10.8	102
186	Recent trends in industrial microbiology. <i>Current Opinion in Microbiology</i> , 2008, 11, 240-248.	2.3	58
187	Combinatorial Saturation Mutagenesis of the <i>Myceliophthora thermophila</i> Laccase T2 Mutant: the Connection between the C-Terminal Plug and the Conserved VSG Tripeptide. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008, 11, 807-816.	0.6	32
188	A purple acidophilic di-ferric DNA ligase from <i>Ferroplasma</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8878-8883.	3.3	27
189	Environmental biocatalysis: From remediation with enzymes to novel green processes. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 113-113.	1.1	10
190	Mining enzymes from extreme environments. <i>Current Opinion in Microbiology</i> , 2007, 10, 207-214.	2.3	213
191	Catalytic role of conserved HQGE motif in the CE6 carbohydrate esterase family. <i>FEBS Letters</i> , 2007, 581, 4657-4662.	1.3	18
192	Purification and kinetic characterization of a fructosyltransferase from <i>Aspergillus aculeatus</i> . <i>Journal of Biotechnology</i> , 2007, 128, 204-211.	1.9	140
193	Anatase-TiO ₂ Nanomaterials: Morphological/Size Dependence of the Crystallization and Phase Behavior Phenomena. <i>Journal of Physical Chemistry C</i> , 2007, 111, 674-682.	1.5	104
194	Analysis of Storage Lipid Accumulation in <i>Alcanivorax borkumensis</i> : Evidence for Alternative Triacylglycerol Biosynthesis Routes in Bacteria. <i>Journal of Bacteriology</i> , 2007, 189, 918-928.	1.0	133
195	Anatase-TiO ₂ Nanomaterials: Analysis of Key Parameters Controlling Crystallization. <i>Journal of the American Chemical Society</i> , 2007, 129, 13604-13612.	6.6	82
196	High-Performance Dual-Action Polymer-TiO ₂ Nanocomposite Films via Melting Processing. <i>Nano Letters</i> , 2007, 7, 2529-2534.	4.5	121
197	Microbial metagenomes: moving forward industrial biotechnology. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 421-423.	1.6	8
198	The cellular machinery of <i>Ferroplasma acidiphilum</i> is iron-protein-dominated. <i>Nature</i> , 2007, 445, 91-94.	13.7	88

#	ARTICLE	IF	CITATIONS
199	Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. <i>Biotechnology Journal</i> , 2007, 2, 207-213.	1.8	39
200	Proteomic Insights into Metabolic Adaptations in <i>Alcanivorax borkumensis</i> Induced by Alkane Utilization. <i>Journal of Bacteriology</i> , 2006, 188, 3763-3773.	1.0	139
201	Novel Polyphenol Oxidase Mined from a Metagenome Expression Library of Bovine Rumen. <i>Journal of Biological Chemistry</i> , 2006, 281, 22933-22942.	1.6	168
202	Low temperature-induced systems failure in <i>Escherichia coli</i> : Insights from rescue by cold-adapted chaperones. <i>Proteomics</i> , 2006, 6, 193-206.	1.3	73
203	The 'pH optimum anomaly' of intracellular enzymes of <i>Ferroplasma acidiphilum</i> . <i>Environmental Microbiology</i> , 2006, 8, 416-425.	1.8	48
204	Genome sequence of the ubiquitous hydrocarbon-degrading marine bacterium <i>Alcanivorax borkumensis</i> . <i>Nature Biotechnology</i> , 2006, 24, 997-1004.	9.4	417
205	Environmental biocatalysis: from remediation with enzymes to novel green processes. <i>Trends in Biotechnology</i> , 2006, 24, 281-287.	4.9	352
206	Mutation in a α -glucosidase-Like-Hydroxyacyl-Coenzyme A-Specific Thioesterase Gene Causes Hyperproduction of Extracellular Polyhydroxyalkanoates by <i>Alcanivorax borkumensis</i> SK2. <i>Journal of Bacteriology</i> , 2006, 188, 8452-8459.	1.0	79
207	A novel α -glucosidase from the acidophilic archaeon <i>Ferroplasma acidiphilum</i> strain Y with high transglycosylation activity and an unusual catalytic nucleophile. <i>Biochemical Journal</i> , 2005, 391, 269-276.	1.7	41
208	Synthesis of sugar esters in solvent mixtures by lipases from <i>Thermomyces lanuginosus</i> and <i>Candida antarctica</i> B, and their antimicrobial properties. <i>Enzyme and Microbial Technology</i> , 2005, 36, 391-398.	1.6	219
209	Microbial Enzymes Mined from the Urania Deep-Sea Hypersaline Anoxic Basin. <i>Chemistry and Biology</i> , 2005, 12, 895-904.	6.2	142
210	Mining genomes and metagenomes for novel catalysts. <i>Current Opinion in Biotechnology</i> , 2005, 16, 588-593.	3.3	146
211	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. <i>Biotechnology and Applied Biochemistry</i> , 2005, 42, 35.	1.4	32
212	Novel hydrolase diversity retrieved from a metagenome library of bovine rumen microflora. <i>Environmental Microbiology</i> , 2005, 7, 1996-2010.	1.8	258
213	Conversion of a Carboxylesterase into a Triacylglycerol Lipase by a Random Mutation. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7553-7557.	7.2	32
214	Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. <i>Biocatalysis and Biotransformation</i> , 2005, 23, 19-27.	1.1	42
215	Expression of a Temperature-Sensitive Esterase in a Novel Chaperone-Based <i>Escherichia coli</i> Strain. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4499-4504.	1.4	71
216	Functional consequences of single:double ring transitions in chaperonins: life in the cold. <i>Molecular Microbiology</i> , 2004, 53, 167-182.	1.2	42

#	ARTICLE	IF	CITATIONS
217	Effect of carbohydrate fatty acid esters on <i>Streptococcus sobrinus</i> and glucosyltransferase activity. <i>Carbohydrate Research</i> , 2004, 339, 1029-1034.	1.1	59
218	Novel maltotriose esters enhance biodegradation of Aroclor 1242 by <i>Burkholderia cepacia</i> LB400. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 637-643.	1.7	14
219	Proteome reference map of <i>Pseudomonas putida</i> strain KT2440 for genome expression profiling: distinct responses of KT2440 and <i>Pseudomonas aeruginosa</i> strain PAO1 to iron deprivation and a new form of superoxide dismutase. <i>Environmental Microbiology</i> , 2003, 5, 1257-1269.	1.8	57
220	Genome sequence completed of <i>Alcanivorax borkumensis</i> , a hydrocarbon-degrading bacterium that plays a global role in oil removal from marine systems. <i>Journal of Biotechnology</i> , 2003, 106, 215-220.	1.9	126
221	Chaperonins govern growth of <i>Escherichia coli</i> at low temperatures. <i>Nature Biotechnology</i> , 2003, 21, 1266-1267.	9.4	228
222	Effect of the Immobilization Method of Lipase from <i>Thermomyces lanuginosus</i> on Sucrose Acylation. <i>Biocatalysis and Biotransformation</i> , 2002, 20, 63-71.	1.1	41
223	Solubility of Glucose in Mixtures Containing 2-Methyl-2-butanol, Dimethyl Sulfoxide, Acids, Esters, and Water. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 807-810.	1.0	32
224	Solubility Measurements of Fatty Acid Glucose and Sucrose Esters in 2-Methyl-2-butanol and Mixtures of 2-Methyl-2-butanol with Dimethyl Sulfoxide. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 1517-1520.	1.0	10
225	Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. <i>Langmuir</i> , 2002, 18, 667-673.	1.6	109
226	Enzymatic acylation of di- and trisaccharides with fatty acids: choosing the appropriate enzyme, support and solvent. <i>Journal of Biotechnology</i> , 2002, 96, 55-66.	1.9	183
227	Improved synthesis of sucrose fatty acid monoesters. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2001, 78, 541-546.	0.8	33
228	Purification and properties of a lipase from <i>Penicillium chrysogenum</i> isolated from industrial wastes. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 569-576.	1.6	29
229	A Simple Procedure for the Regioselective Synthesis of Fatty Acid Esters of Maltose, Leucrose, Maltotriose and n-Dodecyl Maltosides. <i>Tetrahedron</i> , 2000, 56, 4053-4061.	1.0	73
230	Lipase-catalyzed regioselective acylation of sucrose in two-solvent mixtures. , 1999, 65, 10-16.		139
231	Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998, 12, 183-186.	0.5	85