

Manuel Ferrer

List of Publications by Year in descending order

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231
papers

16,311
citations

13068

68
h-index

19136

118
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242
all docs

242
docs citations

242
times ranked

20038
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Nanoarchitectures for Solar Photocatalytic Applications. <i>Chemical Reviews</i> , 2012, 112, 1555-1614.	23.0	2,107
2	Gut microbiota disturbance during antibiotic therapy: a multi-omic approach. <i>Gut</i> , 2013, 62, 1591-1601.	6.1	488
3	Functional Redundancy-Induced Stability of Gut Microbiota Subjected to Disturbance. <i>Trends in Microbiology</i> , 2016, 24, 402-413.	3.5	451
4	Genome sequence of the ubiquitous hydrocarbon-degrading marine bacterium <i>Alcanivorax borkumensis</i> . <i>Nature Biotechnology</i> , 2006, 24, 997-1004.	9.4	417
5	Environmental biocatalysis: from remediation with enzymes to novel green processes. <i>Trends in Biotechnology</i> , 2006, 24, 281-287.	4.9	352
6	Understanding the antimicrobial mechanism of TiO ₂ -based nanocomposite films in a pathogenic bacterium. <i>Scientific Reports</i> , 2014, 4, 4134.	1.6	335
7	Novel hydrolase diversity retrieved from a metagenome library of bovine rumen microflora. <i>Environmental Microbiology</i> , 2005, 7, 1996-2010.	1.8	258
8	Antibiotic use and microbiome function. <i>Biochemical Pharmacology</i> , 2017, 134, 114-126.	2.0	240
9	Microbial diversity and metabolic networks in acid mine drainage habitats. <i>Frontiers in Microbiology</i> , 2015, 6, 475.	1.5	239
10	Chaperonins govern growth of <i>Escherichia coli</i> at low temperatures. <i>Nature Biotechnology</i> , 2003, 21, 1266-1267.	9.4	228
11	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
12	Mining enzymes from extreme environments. <i>Current Opinion in Microbiology</i> , 2007, 10, 207-214.	2.3	213
13	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
14	Metagenomics for Mining New Genetic Resources of Microbial Communities. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009, 16, 109-123.	1.0	209
15	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
16	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
17	Role of Interface Contact in CeO ₂ -TiO ₂ Photocatalytic Composite Materials. <i>ACS Catalysis</i> , 2014, 4, 63-72.	5.5	178
18	Estimating the success of enzyme bioprospecting through metagenomics: current status and future trends. <i>Microbial Biotechnology</i> , 2016, 9, 22-34.	2.0	175

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19	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
20	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
21	Metagenomic era for biocatalyst identification. <i>Current Opinion in Biotechnology</i> , 2010, 21, 725-733.	3.3	150
22	Mining genomes and –metagenomes–™ for novel catalysts. <i>Current Opinion in Biotechnology</i> , 2005, 16, 588-593.	3.3	146
23	Microbial Enzymes Mined from the Urania Deep-Sea Hypersaline Anoxic Basin. <i>Chemistry and Biology</i> , 2005, 12, 895-904.	6.2	142
24	Purification and kinetic characterization of a fructosyltransferase from <i>Aspergillus aculeatus</i> . <i>Journal of Biotechnology</i> , 2007, 128, 204-211.	1.9	140
25	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
26	Lipase-catalyzed regioselective acylation of sucrose in two-solvent mixtures. , 1999, 65, 10-16.		139
27	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
28	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
29	Metagenomics approaches in systems microbiology. <i>FEMS Microbiology Reviews</i> , 2009, 33, 236-255.	3.9	130
30	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
31	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
32	Metaproteogenomic insights beyond bacterial response to naphthalene exposure and bio-stimulation. <i>ISME Journal</i> , 2013, 7, 122-136.	4.4	124
33	High-Performance Dual-Action Polymer–TiO ₂ Nanocomposite Films via Melting Processing. <i>Nano Letters</i> , 2007, 7, 2529-2534.	4.5	121
34	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
35	–ARMAN–™ archaea depend on association with euryarchaeal host in culture and in situ. <i>Nature Communications</i> , 2017, 8, 60.	5.8	116
36	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

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37	Self-sterilized EVOH-TiO ₂ Nanocomposites: Interface Effects on Biocidal Properties. <i>Advanced Functional Materials</i> , 2008, 18, 1949-1960.	7.8	111
38	Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. <i>Langmuir</i> , 2002, 18, 667-673.	1.6	109
39	Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian deep waters (Central Mediterranean Sea). <i>ISME Journal</i> , 2011, 5, 945-961.	4.4	109
40	Microbial community of the deep-sea brine lake Karyos seaway-brine interface is active below the chaotropy limit of life as revealed by recovery of mRNA. <i>Environmental Microbiology</i> , 2015, 17, 364-382.	1.8	109
41	Determinants and Prediction of Esterase Substrate Promiscuity Patterns. <i>ACS Chemical Biology</i> , 2018, 13, 225-234.	1.6	106
42	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
43	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
44	Ag promotion of TiO ₂ -anatase disinfection capability: Study of Escherichia coli inactivation. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 87-93.	10.8	102
45	Acidiplasma aeolicum gen. nov., sp. nov., a euryarchaeon of the family Ferroplasmaceae isolated from a hydrothermal pool, and transfer of Ferroplasma cupricumulans to Acidiplasma cupricumulans comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 2815-2823.	0.8	93
46	Gut Bacteria Metabolism Impacts Immune Recovery in HIV-infected Individuals. <i>EBioMedicine</i> , 2016, 8, 203-216.	2.7	93
47	Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. <i>Scientific Reports</i> , 2015, 5, 11651.	1.6	91
48	Metabolic versatility of small archaea Micrarchaeota and Parvarchaeota. <i>ISME Journal</i> , 2018, 12, 756-775.	4.4	91
49	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
50	The cellular machinery of Ferroplasma acidiphilum is iron-protein-dominated. <i>Nature</i> , 2007, 445, 91-94.	13.7	88
51	Unveiling microbial life in new deep-sea hypersaline Lake Thetis. Part I: Prokaryotes and environmental settings. <i>Environmental Microbiology</i> , 2011, 13, 2250-2268.	1.8	86
52	Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998, 12, 183-186.	0.5	85
53	Functional Metagenomics Unveils a Multifunctional Glycosyl Hydrolase from the Family 43 Catalysing the Breakdown of Plant Polymers in the Calf Rumen. <i>PLoS ONE</i> , 2012, 7, e38134.	1.1	83
54	Gut microbiota disturbance during antibiotic therapy. <i>Gut Microbes</i> , 2014, 5, 64-70.	4.3	83

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55	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
56	Boosting TiO ₂ -anatase antimicrobial activity: Polymer-oxide thin films. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 441-447.	10.8	81
57	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
58	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
59	Mutation in a β -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
60	Cu-TiO ₂ systems for the photocatalytic H ₂ production: Influence of structural and surface support features. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 468-478.	10.8	79
61	Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. <i>ISME Journal</i> , 2017, 11, 1245-1260.	4.4	79
62	Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. <i>Chemical Society Reviews</i> , 2019, 48, 637-682.	18.7	79
63	Microbial β -glucosidases from cow rumen metagenome enhance the saccharification of lignocellulose in combination with commercial cellulase cocktail. <i>Biotechnology for Biofuels</i> , 2012, 5, 73.	6.2	78
64	Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. <i>Scientific Reports</i> , 2013, 3, 3554.	1.6	78
65	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
66	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
67	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
68	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
69	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
70	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010, 21, 532-538.	3.3	69
71	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 (Acidinium Bromide). <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5076-5092.	2.9	68
72	Ranking the impact of human health disorders on gut metabolism: Systemic lupus erythematosus and obesity as study cases. <i>Scientific Reports</i> , 2015, 5, 8310.	1.6	68

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73	Activity screening of environmental metagenomic libraries reveals novel carboxylesterase families. <i>Scientific Reports</i> , 2017, 7, 44103.	1.6	67
74	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9182-9190.	1.5	66
75	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
76	Promotion of CeO ₂ –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
77	Elemental sulfur and acetate can support life of a novel strictly anaerobic haloarchaeon. <i>ISME Journal</i> , 2016, 10, 240-252.	4.4	62
78	Effects of β -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
79	Biodegradable Polycaprolactone-Titania Nanocomposites: Preparation, Characterization and Antimicrobial Properties. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9249-9266.	1.8	60
80	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
81	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
82	Heterogeneous photocatalysis: Light-matter interaction and chemical effects in quantum efficiency calculations. <i>Journal of Catalysis</i> , 2015, 330, 154-166.	3.1	59
83	Recent trends in industrial microbiology. <i>Current Opinion in Microbiology</i> , 2008, 11, 240-248.	2.3	58
84	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
85	Metaproteomics and metabolomics analyses of chronically petroleum-polluted sites reveal the importance of general anaerobic processes uncoupled with degradation. <i>Proteomics</i> , 2015, 15, 3508-3520.	1.3	58
86	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
87	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
88	Rational Engineering of Multiple Active Sites in an Ester Hydrolase. <i>Biochemistry</i> , 2018, 57, 2245-2255.	1.2	57
89	Acetaldehyde degradation under UV and visible irradiation using CeO ₂ –TiO ₂ composite systems: Evaluation of the photocatalytic efficiencies. <i>Chemical Engineering Journal</i> , 2014, 255, 297-306.	6.6	56
90	The COMBREX Project: Design, Methodology, and Initial Results. <i>PLoS Biology</i> , 2013, 11, e1001638.	2.6	54

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91	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
92	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
93	Taxonomic and Functional Metagenomic Profiling of the Microbial Community in the Anoxic Sediment of a Sub-saline Shallow Lake (Laguna de Carrizo, Central Spain). <i>Microbial Ecology</i> , 2011, 62, 824-837.	1.4	51
94	Unveiling microbial life in the new deep-sea hypersaline Lake <i>Thetis</i> . Part II: a metagenomic study. <i>Environmental Microbiology</i> , 2012, 14, 268-281.	1.8	50
95	<i>Clostridium difficile</i> heterogeneously impacts intestinal community architecture but drives stable metabolome responses. <i>ISME Journal</i> , 2015, 9, 2206-2220.	4.4	50
96	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
97	Functional microbiome deficits associated with ageing: Chronological age threshold. <i>Aging Cell</i> , 2020, 19, e13063.	3.0	49
98	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
99	The 'pH optimum anomaly' of intracellular enzymes of <i>Ferroplasma acidiphilum</i> . <i>Environmental Microbiology</i> , 2006, 8, 416-425.	1.8	48
100	Biodiversity for biocatalysis: A review of the β -hydrolase fold superfamily of esterases-lipases discovered in metagenomes. <i>Biocatalysis and Biotransformation</i> , 2015, 33, 235-249.	1.1	48
101	Interplay between gut microbiota metabolism and inflammation in HIV infection. <i>ISME Journal</i> , 2018, 12, 1964-1976.	4.4	48
102	Global Regulation of Food Supply by <i>Pseudomonas putida</i> DOT-T1E. <i>Journal of Bacteriology</i> , 2010, 192, 2169-2181.	1.0	47
103	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
104	Effect of exfoliation and surface deposition of MnOx species in g-C3N4: Toluene photo-degradation under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 663-672.	10.8	43
105	Functional consequences of single:double ring transitions in chaperonins: life in the cold. <i>Molecular Microbiology</i> , 2004, 53, 167-182.	1.2	42
106	Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. <i>Biocatalysis and Biotransformation</i> , 2005, 23, 19-27.	1.1	42
107	Tailoring polymer-TiO2 film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. <i>Applied Catalysis B: Environmental</i> , 2011, 104, 346-352.	10.8	42
108	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

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109	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
110	<i>Halorhabdus tiamatea</i> : proteogenomics and glycosidase activity measurements identify the first cultivated euryarchaeon from a deep-sea anoxic brine lake as potential polysaccharide degrader. <i>Environmental Microbiology</i> , 2014, 16, 2525-2537.	1.8	41
111	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
112	Pressure adaptation is linked to thermal adaptation in salt-saturated marine habitats. <i>Environmental Microbiology</i> , 2015, 17, 332-345.	1.8	40
113	Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. <i>Biotechnology Journal</i> , 2007, 2, 207-213.	1.8	39
114	Reactome Array: Forging a Link Between Metabolome and Genome. <i>Science</i> , 2009, 326, 252-257.	6.0	39
115	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
116	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
117	Diversity of hydrolases from hydrothermal vent sediments of the Levante Bay, Vulcano Island (Aeolian) Tj ETQq1 1 0.784314 rgBT /Over esterase and an arabinopyranosidase. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10031-10046.	1.7	36
118	Towards full-spectrum photocatalysis: Successful approaches and materials. <i>Applied Catalysis A: General</i> , 2021, 610, 117966.	2.2	36
119	Functional-Based Screening Methods for Lipases, Esterases, and Phospholipases in Metagenomic Libraries. <i>Methods in Molecular Biology</i> , 2012, 861, 101-113.	0.4	35
120	Identification and Characterization of Carboxyl Esterases of Gill Chamber-Associated Microbiota in the Deep-Sea Shrimp <i>Rimicaris exoculata</i> by Using Functional Metagenomics. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2125-2136.	1.4	35
121	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
122	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
123	Thermo-photo degradation of 2-propanol using a composite ceria-titania catalyst: Physico-chemical interpretation from a kinetic model. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 298-306.	10.8	34
124	Improved synthesis of sucrose fatty acid monoesters. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2001, 78, 541-546.	0.8	33
125	Kinetics of photocatalytic disinfection in TiO ₂ -containing polymer thin films: UV and visible light performances. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 230-238.	10.8	33
126	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

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127	Functional Metagenomics of a Biostimulated Petroleum-Contaminated Soil Reveals an Extraordinary Diversity of Extradial Dioxygenases. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2467-2478.	1.4	33
128	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
129	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. <i>Biotechnology and Applied Biochemistry</i> , 2005, 42, 35.	1.4	32
130	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
131	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
132	Bioremediation of Southern Mediterranean oil polluted sites comes of age. <i>New Biotechnology</i> , 2013, 30, 743-748.	2.4	32
133	Green photo-oxidation of styrene over Wâ€“Ti composite catalysts. <i>Journal of Catalysis</i> , 2014, 309, 428-438.	3.1	32
134	Context-specific metabolic network reconstruction of a naphthalene-degrading bacterial community guided by metaproteomic data. <i>Bioinformatics</i> , 2015, 31, 1771-1779.	1.8	31
135	Nitrilotriacetic Amine-Functionalized Polymeric Coreâ€“Shell Nanoparticles as Enzyme Immobilization Supports. <i>Biomacromolecules</i> , 2017, 18, 2777-2788.	2.6	31
136	Sulfur Respiration in a Group of Facultatively Anaerobic Natronoarchaea Ubiquitous in Hypersaline Soda Lakes. <i>Frontiers in Microbiology</i> , 2018, 9, 2359.	1.5	30
137	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
138	Interplay of metagenomics and <i>in vitro</i> compartmentalization. <i>Microbial Biotechnology</i> , 2009, 2, 31-39.	2.0	29
139	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
140	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
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