Manuel Ferrer

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62 13,021 107 229 h-index g-index citations papers 6.53 242 14,974 9.1 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
229	Advanced nanoarchitectures for solar photocatalytic applications. <i>Chemical Reviews</i> , 2012 , 112, 1555-6	14 8.1	1888
228	Gut microbiota disturbance during antibiotic therapy: a multi-omic approach. <i>Gut</i> , 2013 , 62, 1591-601	19.2	371
227	Genome sequence of the ubiquitous hydrocarbon-degrading marine bacterium Alcanivorax borkumensis. <i>Nature Biotechnology</i> , 2006 , 24, 997-1004	44.5	350
226	Environmental biocatalysis: from remediation with enzymes to novel green processes. <i>Trends in Biotechnology</i> , 2006 , 24, 281-7	15.1	308
225	Functional Redundancy-Induced Stability of Gut Microbiota Subjected to Disturbance. <i>Trends in Microbiology</i> , 2016 , 24, 402-413	12.4	259
224	Understanding the antimicrobial mechanism of TiOEbased nanocomposite films in a pathogenic bacterium. <i>Scientific Reports</i> , 2014 , 4, 4134	4.9	237
223	Novel hydrolase diversity retrieved from a metagenome library of bovine rumen microflora. <i>Environmental Microbiology</i> , 2005 , 7, 1996-2010	5.2	227
222	Chaperonins govern growth of Escherichia coli at low temperatures. <i>Nature Biotechnology</i> , 2003 , 21, 1266-7	44.5	203
221	Synthesis of sugar esters in solvent mixtures by lipases from Thermomyces lanuginosus and Candida antarctica B, and their antimicrobial properties. <i>Enzyme and Microbial Technology</i> , 2005 , 36, 39	1 ³ 3 ⁸ 98	191
220	Metagenomics for mining new genetic resources of microbial communities. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009 , 16, 109-23	0.9	179
219	Mining enzymes from extreme environments. <i>Current Opinion in Microbiology</i> , 2007 , 10, 207-14	7.9	179
218	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	3.7	172
217	Microbial diversity and metabolic networks in acid mine drainage habitats. <i>Frontiers in Microbiology</i> , 2015 , 6, 475	5.7	158
216	Role of Interface Contact in CeO2IIiO2 Photocatalytic Composite Materials. ACS Catalysis, 2014, 4, 63-7	213.1	150
215	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, 211-26	5.2	150
214	Antibiotic use and microbiome function. <i>Biochemical Pharmacology</i> , 2017 , 134, 114-126	6	147
213	Novel polyphenol oxidase mined from a metagenome expression library of bovine rumen: biochemical properties, structural analysis, and phylogenetic relationships. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22933-42	5.4	146

(2008-2016)

212	Estimating the success of enzyme bioprospecting through metagenomics: current status and future trends. <i>Microbial Biotechnology</i> , 2016 , 9, 22-34	6.3	136
211	Metagenomic era for biocatalyst identification. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 725-33	11.4	135
210	Microbial enzymes mined from the Urania deep-sea hypersaline anoxic basin. <i>Chemistry and Biology</i> , 2005 , 12, 895-904		134
209	Mining genomes and 'metagenomes' for novel catalysts. Current Opinion in Biotechnology, 2005, 16, 588	8- 9 34	131
208	Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. <i>Nature Microbiology</i> , 2017 , 2, 17081	26.6	126
207	Purification and kinetic characterization of a fructosyltransferase from Aspergillus aculeatus. Journal of Biotechnology, 2007 , 128, 204-11	3.7	124
206	Interface Effects in Sunlight-Driven Ag/g-C3N4 Composite Catalysts: Study of the Toluene Photodegradation Quantum Efficiency. <i>ACS Applied Materials & Efficiency ACS ACS Applied Materials & Efficiency ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	121
205	Proteomic insights into metabolic adaptations in Alcanivorax borkumensis induced by alkane utilization. <i>Journal of Bacteriology</i> , 2006 , 188, 3763-73	3.5	119
204	Analysis of storage lipid accumulation in Alcanivorax borkumensis: Evidence for alternative triacylglycerol biosynthesis routes in bacteria. <i>Journal of Bacteriology</i> , 2007 , 189, 918-28	3.5	117
203	Lipase-catalyzed regioselective acylation of sucrose in two-solvent mixtures. <i>Biotechnology and Bioengineering</i> , 1999 , 65, 10-6	4.9	116
202	Metagenomics approaches in systems microbiology. FEMS Microbiology Reviews, 2009, 33, 236-55	15.1	114
201	High-performance dual-action polymer-TiO2 nanocomposite films via melting processing. <i>Nano Letters</i> , 2007 , 7, 2529-34	11.5	114
200	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	21.8	110
199	Genome sequence completed of Alcanivorax borkumensis, a hydrocarbon-degrading bacterium that plays a global role in oil removal from marine systems. <i>Journal of Biotechnology</i> , 2003 , 106, 215-20	3.7	107
198	Anatase-TiO2 Nanomaterials: Morphological/Size Dependence of the Crystallization and Phase Behavior Phenomena. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 674-682	3.8	102
197	Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. <i>Langmuir</i> , 2002 , 18, 667-673	4	102
196	Ag promotion of TiO2-anatase disinfection capability: Study of Escherichia coli inactivation. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 87-93	21.8	99
195	Self-Sterilized EVOH-TiO2 Nanocomposites: Interface Effects on Biocidal Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 1949-1960	15.6	98

194	Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian deep waters (Central Mediterranean Sea). <i>ISME Journal</i> , 2011 , 5, 945-61	11.9	93
193	Metaproteogenomic insights beyond bacterial response to naphthalene exposure and bio-stimulation. <i>ISME Journal</i> , 2013 , 7, 122-36	11.9	92
192	Genome sequence and functional genomic analysis of the oil-degrading bacterium Oleispira antarctica. <i>Nature Communications</i> , 2013 , 4, 2156	17.4	90
191	Microbial community of the deep-sea brine Lake Kryos seawater-brine interface is active below the chaotropicity limit of life as revealed by recovery of mRNA. <i>Environmental Microbiology</i> , 2015 , 17, 364-8	2 ^{5.2}	85
190	Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. <i>Scientific Reports</i> , 2015 , 5, 11651	4.9	78
189	Doping level effect on sunlight-driven W,N-co-doped TiO2-anatase photo-catalysts for aromatic hydrocarbon partial oxidation. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 274-281	21.8	78
188	The cellular machinery of Ferroplasma acidiphilum is iron-protein-dominated. <i>Nature</i> , 2007 , 445, 91-4	50.4	78
187	Exploring the human microbiome from multiple perspectives: factors altering its composition and function. <i>FEMS Microbiology Reviews</i> , 2017 , 41, 453-478	15.1	75
186	Anatase-TiO2 nanomaterials: analysis of key parameters controlling crystallization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13604-12	16.4	75
185	Unveiling microbial life in new deep-sea hypersaline Lake Thetis. Part I: Prokaryotes and environmental settings. <i>Environmental Microbiology</i> , 2011 , 13, 2250-68	5.2	73
184	Boosting TiO2-anatase antimicrobial activity: Polymer-oxide thin films. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 441-447	21.8	72
183	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	2.4	72
182	UV and visible light optimization of anatase TiO2 antimicrobial properties: Surface deposition of metal and oxide (Cu, Zn, Ag) species. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 680-690	21.8	66
181	Gut microbiota disturbance during antibiotic therapy: a multi-omic approach. <i>Gut Microbes</i> , 2014 , 5, 64-7	70 .8	66
180	Functional consequences of microbial shifts in the human gastrointestinal tract linked to antibiotic treatment and obesity. <i>Gut Microbes</i> , 2013 , 4, 306-15	8.8	66
179	N- and/or W-(co)doped TiO2-anatase catalysts: Effect of the calcination treatment on photoactivity. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 238-244	21.8	66
178	Mutation in a "tesB-like" hydroxyacyl-coenzyme A-specific thioesterase gene causes hyperproduction of extracellular polyhydroxyalkanoates by Alcanivorax borkumensis SK2. <i>Journal of Bacteriology</i> , 2006 , 188, 8452-9	3.5	66
177	Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. <i>Scientific Reports</i> , 2013 , 3, 3554	4.9	65

(2012-2006)

176	Low temperature-induced systems failure in Escherichia coli: insights from rescue by cold-adapted chaperones. <i>Proteomics</i> , 2006 , 6, 193-206	4.8	65
175	CulliO2 systems for the photocatalytic H2 production: Influence of structural and surface support features. <i>Applied Catalysis B: Environmental</i> , 2015 , 179, 468-478	21.8	64
174	Microbial stratification in low pH oxic and suboxic macroscopic growths along an acid mine drainage. <i>ISME Journal</i> , 2014 , 8, 1259-74	11.9	63
173	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	3.7	63
172	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 ,	2.2	63
171	59, 2815-23 Gut Bacteria Metabolism Impacts Immune Recovery in HIV-infected Individuals. <i>EBioMedicine</i> , 2016 , 8, 203-216	8.8	63
170	Determinants and Prediction of Esterase Substrate Promiscuity Patterns. <i>ACS Chemical Biology</i> , 2018 , 13, 225-234	4.9	63
169	A Novel Polyester Hydrolase From the Marine Bacterium Structural and Functional Insights. <i>Frontiers in Microbiology</i> , 2020 , 11, 114	5.7	62
168	Expression of a temperature-sensitive esterase in a novel chaperone-based Escherichia coli strain. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4499-504	4.8	62
167	Metabolic versatility of small archaea Micrarchaeota and Parvarchaeota. ISME Journal, 2018, 12, 756-77	5 11.9	62
167 166	Metabolic versatility of small archaea Micrarchaeota and Parvarchaeota. <i>ISME Journal</i> , 2018 , 12, 756-77 Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 532-8	511.9 11.4	62
ĺ	Systems approaches to microbial communities and their functioning. <i>Current Opinion in</i>		
166	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 532-8 Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology</i>		61
166 165	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 532-8 Analysis of Tween 80 as an esterase/lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998 , 12, 183-186 Diversity of glycosyl hydrolases from cellulose-depleting communities enriched from casts of two	11.4	61
166 165 164	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 532-8 Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998 , 12, 183-186 Diversity of glycosyl hydrolases from cellulose-depleting communities enriched from casts of two earthworm species. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5934-46 Discovery of novel quaternary ammonium derivatives of (3R)-quinuclidinol esters as potent and long-acting muscarinic antagonists with potential for minimal systemic exposure after inhaled	4.8 8.3	616058
166 165 164	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 532-8 Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998 , 12, 183-186 Diversity of glycosyl hydrolases from cellulose-depleting communities enriched from casts of two earthworm species. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5934-46 Discovery of novel quaternary ammonium derivatives of (3R)-quinuclidinol esters as potent and long-acting muscarinic antagonists with potential for minimal systemic exposure after inhaled administration: identification of	4.8 8.3	61 60 58 58
166 165 164 163	Systems approaches to microbial communities and their functioning. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 532-8 Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998 , 12, 183-186 Diversity of glycosyl hydrolases from cellulose-depleting communities enriched from casts of two earthworm species. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5934-46 Discovery of novel quaternary ammonium derivatives of (3R)-quinuclidinol esters as potent and long-acting muscarinic antagonists with potential for minimal systemic exposure after inhaled administration: identification of Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. <i>Chemical Society Reviews</i> , 2019 , 48, 637-682 Ranking the impact of human health disorders on gut metabolism: systemic lupus erythematosus	11.4 4.8 8.3 58.5	6160585856

158	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9182-9190	3.8	56
157	Effect of carbohydrate fatty acid esters on Streptococcus sobrinus and glucosyltransferase activity. <i>Carbohydrate Research</i> , 2004 , 339, 1029-34	2.9	56
156	Biodegradable polycaprolactone-titania nanocomposites: preparation, characterization and antimicrobial properties. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 9249-66	6.3	55
155	Promotion of CeO2IIiO2 photoactivity by g-C3N4: Ultraviolet and visible light elimination of toluene. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 261-270	21.8	54
154	Proteome reference map of Pseudomonas putida strain KT2440 for genome expression profiling: distinct responses of KT2440 and Pseudomonas aeruginosa strain PAO1 to iron deprivation and a new form of superoxide dismutase. <i>Environmental Microbiology</i> , 2003 , 5, 1257-69	5.2	54
153	Sunlight-driven toluene photo-elimination using CeO2-TiO2 composite systems: A kinetic study. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 626-635	21.8	53
152	Heterogeneous photocatalysis: Light-matter interaction and chemical effects in quantum efficiency calculations. <i>Journal of Catalysis</i> , 2015 , 330, 154-166	7.3	52
151	Recent trends in industrial microbiology. <i>Current Opinion in Microbiology</i> , 2008 , 11, 240-8	7.9	51
150	Acetaldehyde degradation under UV and visible irradiation using CeO2TiO2 composite systems: Evaluation of the photocatalytic efficiencies. <i>Chemical Engineering Journal</i> , 2014 , 255, 297-306	14.7	50
149	Effects of Elactam antibiotics and fluoroquinolones on human gut microbiota in relation to Clostridium difficile associated diarrhea. <i>PLoS ONE</i> , 2014 , 9, e89417	3.7	50
148	Elemental sulfur and acetate can support life of a novel strictly anaerobic haloarchaeon. <i>ISME Journal</i> , 2016 , 10, 240-52	11.9	49
147	Activity screening of environmental metagenomic libraries reveals novel carboxylesterase families. <i>Scientific Reports</i> , 2017 , 7, 44103	4.9	48
146	Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. <i>Nature Catalysis</i> , 2020 , 3, 319-328	36.5	48
145	Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. <i>ISME Journal</i> , 2017 , 11, 1245-1260	11.9	47
144	The COMBREX project: design, methodology, and initial results. <i>PLoS Biology</i> , 2013 , 11, e1001638	9.7	47
143	Biochemical diversity of carboxyl esterases and lipases from Lake Arreo (Spain): a metagenomic approach. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 3553-62	4.8	46
142	Unveiling microbial life in the new deep-sea hypersaline Lake Thetis. Part II: a metagenomic study. <i>Environmental Microbiology</i> , 2012 , 14, 268-81	5.2	43
141	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, 824-37	4.4	43

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140	Global regulation of food supply by Pseudomonas putida DOT-T1E. <i>Journal of Bacteriology</i> , 2010 , 192, 2169-81	3.5	43
139	Acetylation of vitamin E by Candida antarctica lipase B immobilized on different carriers. <i>Process Biochemistry</i> , 2008 , 43, 145-153	4.8	43
138	Metaproteomics and metabolomics analyses of chronically petroleum-polluted sites reveal the importance of general anaerobic processes uncoupled with degradation. <i>Proteomics</i> , 2015 , 15, 3508-20	4.8	42
137	The 'pH optimum anomaly' of intracellular enzymes of Ferroplasma acidiphilum. <i>Environmental Microbiology</i> , 2006 , 8, 416-25	5.2	40
136	Biodiversity for biocatalysis: A review of the Ahydrolase fold superfamily of esterases-lipases discovered in metagenomes. <i>Biocatalysis and Biotransformation</i> , 2015 , 33, 235-249	2.5	39
135	Bioinformatic progress and applications in metaproteogenomics for bridging the gap between genomic sequences and metabolic functions in microbial communities. <i>Proteomics</i> , 2013 , 13, 2786-804	4.8	39
134	Functional consequences of single:double ring transitions in chaperonins: life in the cold. <i>Molecular Microbiology</i> , 2004 , 53, 167-82	4.1	39
133	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	21.8	38
132	Clostridium difficile heterogeneously impacts intestinal community architecture but drives stable metabolome responses. <i>ISME Journal</i> , 2015 , 9, 2206-20	11.9	38
131	Tailoring polymerIIiO2 film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 346-352	21.8	38
130	Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. <i>Biocatalysis and Biotransformation</i> , 2005 , 23, 19-27	2.5	38
129	HIV infection results in metabolic alterations in the gut microbiota different from those induced by other diseases. <i>Scientific Reports</i> , 2016 , 6, 26192	4.9	36
128	A novel alpha-glucosidase from the acidophilic archaeon Ferroplasma acidiphilum strain Y with high transglycosylation activity and an unusual catalytic nucleophile. <i>Biochemical Journal</i> , 2005 , 391, 269-76	3.8	36
127	UV and visible hydrogen photo-production using Pt promoted Nb-doped TiO2 photo-catalysts: Interpreting quantum efficiency. <i>Applied Catalysis B: Environmental</i> , 2017 , 216, 133-145	21.8	35
126	Effective Enhancement of TiO2 Photocatalysis by Synergistic Interaction of Surface Species: From Promoters to Co-catalysts. <i>ACS Catalysis</i> , 2014 , 4, 4277-4288	13.1	35
125	Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. <i>Biotechnology Journal</i> , 2007 , 2, 207-13	5.6	35
124	Effect of the Immobilization Method of Lipase from Thermomyces lanuginosus on Sucrose Acylation. <i>Biocatalysis and Biotransformation</i> , 2002 , 20, 63-71	2.5	35
123	Rational Engineering of Multiple Active Sites in an Ester Hydrolase. <i>Biochemistry</i> , 2018 , 57, 2245-2255	3.2	34

122	One-year calorie restriction impacts gut microbial composition but not its metabolic performance in obese adolescents. <i>Environmental Microbiology</i> , 2017 , 19, 1536-1551	5.2	33
121	Enhancing promoting effects in g-C3N4-Mn+/CeO2-TiO2 ternary composites: Photo-handling of charge carriers. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 687-698	21.8	32
120	Genome sequence of obligate marine polycyclic aromatic hydrocarbons-degrading bacterium Cycloclasticus sp. 78-ME, isolated from petroleum deposits of the sunken tanker Amoco Milford Haven, Mediterranean Sea. <i>Marine Genomics</i> , 2016 , 25, 11-13	1.9	32
119	Halorhabdus tiamatea: 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, 2525-37	5.2	32
118	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	2.8	32
117	Identification and characterization of carboxyl esterases of gill chamber-associated microbiota in the deep-sea shrimp Rimicaris exoculata by using functional metagenomics. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 2125-36	4.8	31
116	Pressure adaptation is linked to thermal adaptation in salt-saturated marine habitats. <i>Environmental Microbiology</i> , 2015 , 17, 332-45	5.2	31
115	Kinetics of photocatalytic disinfection in TiO2-containing polymer thin films: UV and visible light performances. <i>Applied Catalysis B: Environmental</i> , 2012 , 121-122, 230-238	21.8	30
114	Single residues dictate the co-evolution of dual esterases: MCP hydrolases from the 和hydrolase family. <i>Biochemical Journal</i> , 2013 , 454, 157-66	3.8	30
113	Reactome array: forging a link between metabolome and genome. <i>Science</i> , 2009 , 326, 252-7	33.3	30
112	Green photo-oxidation of styrene over WIIi composite catalysts. <i>Journal of Catalysis</i> , 2014 , 309, 428-438	37.3	29
111	Functional-based screening methods for lipases, esterases, and phospholipases in metagenomic libraries. <i>Methods in Molecular Biology</i> , 2012 , 861, 101-13	1.4	29
110	Bioremediation of Southern Mediterranean oil polluted sites comes of age. <i>New Biotechnology</i> , 2013 , 30, 743-8	6.4	29
109	Combinatorial saturation mutagenesis of the Myceliophthora thermophila laccase T2 mutant: the connection between the C-terminal plug and the conserved (509)VSG(511) tripeptide. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008 , 11, 807-16	1.3	29
108	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. <i>Biotechnology and Applied Biochemistry</i> , 2005 , 42, 35-9	2.8	29
107	Conversion of a carboxylesterase into a triacylglycerol lipase by a random mutation. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7553-7	16.4	29
106	Abatement of organics and Escherichia coli using CeO2-TiO2 composite oxides: Ultraviolet and visible light performances. <i>Applied Catalysis B: Environmental</i> , 2014 , 154-155, 350-359	21.8	28
105	Improved synthesis of sucrose fatty acid monoesters. <i>JAOCS, Journal of the American Oil Chemistsl Society</i> , 2001 , 78, 541-546	1.8	28

104	Interplay between gut microbiota metabolism and inflammation in HIV infection. <i>ISME Journal</i> , 2018 , 12, 1964-1976	11.9	28	
103	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	21.8	27	
102	Nitrilotriacetic Amine-Functionalized Polymeric Core-Shell Nanoparticles as Enzyme Immobilization Supports. <i>Biomacromolecules</i> , 2017 , 18, 2777-2788	6.9	26	
101	Context-specific metabolic network reconstruction of a naphthalene-degrading bacterial community guided by metaproteomic data. <i>Bioinformatics</i> , 2015 , 31, 1771-9	7.2	26	
100	Interplay of metagenomics and in vitro compartmentalization. <i>Microbial Biotechnology</i> , 2009 , 2, 31-9	6.3	26	
99	Diversity of hydrolases from hydrothermal vent sediments of the Levante Bay, Vulcano Island (Aeolian archipelago) identified by activity-based metagenomics and biochemical characterization of new esterases and an arabinopyranosidase. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10031	5.7 - 46	25	
98	Biochemical studies on a versatile esterase that is most catalytically active with polyaromatic esters. <i>Microbial Biotechnology</i> , 2014 , 7, 184-91	6.3	25	
97	Purification and properties of a lipase from Penicillium chrysogenum isolated from industrial wastes. <i>Journal of Chemical Technology and Biotechnology</i> , 2000 , 75, 569-576	3.5	25	
96	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	1.3	25	
95	Archaea dominate the microbial community in an ecosystem with low-to-moderate temperature and extreme acidity. <i>Microbiome</i> , 2019 , 7, 11	16.6	24	
94	Functional microbiome deficits associated with ageing: Chronological age threshold. <i>Aging Cell</i> , 2020 , 19, e13063	9.9	24	
93	Metagenomics as a new technological tool to gain scientific knowledge. World Journal of Microbiology and Biotechnology, 2009 , 25, 945-954	4.4	23	
92	A purple acidophilic di-ferric DNA ligase from Ferroplasma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8878-83	11.5	22	
91	Biocidal capability optimization in organic-inorganic nanocomposites based on titania. <i>Environmental Science & Environmental </i>	10.3	21	
90	Er-W codoping of TiO2-anatase: Structural and electronic characterization and disinfection capability under UVIIis, and near-IR excitation. <i>Applied Catalysis B: Environmental</i> , 2018 , 228, 113-129	21.8	19	
89	Alcanivorax borkumensis produces an extracellular siderophore in iron-limitation condition maintaining the hydrocarbon-degradation efficiency. <i>Marine Genomics</i> , 2014 , 17, 43-52	1.9	19	
88	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	4.8	19	
87	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. <i>FEMS Microbiology Letters</i> , 2019 , 366,	2.9	18	

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