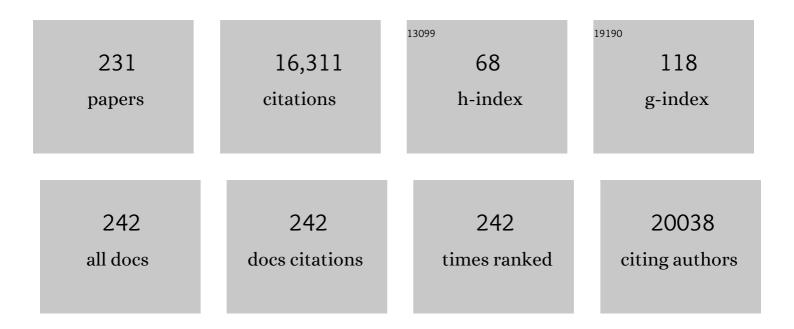
Manuel Ferrer

List of Publications by Year in descending order

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MANUEL FEDDED

#	Article	IF	CITATIONS
1	Advanced Nanoarchitectures for Solar Photocatalytic Applications. Chemical Reviews, 2012, 112, 1555-1614.	47.7	2,107
2	Gut microbiota disturbance during antibiotic therapy: a multi-omic approach. Gut, 2013, 62, 1591-1601.	12.1	488
3	Functional Redundancy-Induced Stability of Gut Microbiota Subjected to Disturbance. Trends in Microbiology, 2016, 24, 402-413.	7.7	451
4	Genome sequence of the ubiquitous hydrocarbon-degrading marine bacterium Alcanivorax borkumensis. Nature Biotechnology, 2006, 24, 997-1004.	17.5	417
5	Environmental biocatalysis: from remediation with enzymes to novel green processes. Trends in Biotechnology, 2006, 24, 281-287.	9.3	352
6	Understanding the antimicrobial mechanism of TiO2-based nanocomposite films in a pathogenic bacterium. Scientific Reports, 2014, 4, 4134.	3.3	335
7	Novel hydrolase diversity retrieved from a metagenome library of bovine rumen microflora. Environmental Microbiology, 2005, 7, 1996-2010.	3.8	258
8	Antibiotic use and microbiome function. Biochemical Pharmacology, 2017, 134, 114-126.	4.4	240
9	Microbial diversity and metabolic networks in acid mine drainage habitats. Frontiers in Microbiology, 2015, 6, 475.	3.5	239
10	Chaperonins govern growth of Escherichia coli at low temperatures. Nature Biotechnology, 2003, 21, 1266-1267.	17.5	228
11	Synthesis of sugar esters in solvent mixtures by lipases from Thermomyces lanuginosus and Candida antarctica B, and their antimicrobial properties. Enzyme and Microbial Technology, 2005, 36, 391-398.	3.2	219
12	Mining enzymes from extreme environments. Current Opinion in Microbiology, 2007, 10, 207-214.	5.1	213
13	Discovery of extremely halophilic, methyl-reducing euryarchaea provides insights into the evolutionary origin of methanogenesis. Nature Microbiology, 2017, 2, 17081.	13.3	213
14	Metagenomics for Mining New Genetic Resources of Microbial Communities. Journal of Molecular Microbiology and Biotechnology, 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. Environmental Microbiology, 2013, 15, 211-226.	3.8	206
16	Enzymatic acylation of di- and trisaccharides with fatty acids: choosing the appropriate enzyme, support and solvent. Journal of Biotechnology, 2002, 96, 55-66.	3.8	183
17	Role of Interface Contact in CeO ₂ –TiO ₂ Photocatalytic Composite Materials. ACS Catalysis, 2014, 4, 63-72.	11.2	178
18	Estimating the success of enzyme bioprospecting through metagenomics: current status and future trends. Microbial Biotechnology, 2016, 9, 22-34.	4.2	175

#	Article	IF	CITATIONS
19	A Novel Polyester Hydrolase From the Marine Bacterium Pseudomonas aestusnigri – Structural and Functional Insights. Frontiers in Microbiology, 2020, 11, 114.	3.5	172
20	Novel Polyphenol Oxidase Mined from a Metagenome Expression Library of Bovine Rumen. Journal of Biological Chemistry, 2006, 281, 22933-22942.	3.4	168
21	Metagenomic era for biocatalyst identification. Current Opinion in Biotechnology, 2010, 21, 725-733.	6.6	150
22	Mining genomes and â€~metagenomes' for novel catalysts. Current Opinion in Biotechnology, 2005, 16, 588-593.	6.6	146
23	Microbial Enzymes Mined from the Urania Deep-Sea Hypersaline Anoxic Basin. Chemistry and Biology, 2005, 12, 895-904.	6.0	142
24	Purification and kinetic characterization of a fructosyltransferase from Aspergillus aculeatus. Journal of Biotechnology, 2007, 128, 204-211.	3.8	140
25	Interface Effects in Sunlight-Driven Ag/g-C ₃ N ₄ Composite Catalysts: Study of the Toluene Photodegradation Quantum Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 2617-2627.	8.0	140
26	Lipase-catalyzed regioselective acylation of sucrose in two-solvent mixtures. , 1999, 65, 10-16.		139
27	Proteomic Insights into Metabolic Adaptations in Alcanivorax borkumensis Induced by Alkane Utilization. Journal of Bacteriology, 2006, 188, 3763-3773.	2.2	139
28	Analysis of Storage Lipid Accumulation in <i>Alcanivorax borkumensis</i> : Evidence for Alternative Triacylglycerol Biosynthesis Routes in Bacteria. Journal of Bacteriology, 2007, 189, 918-928.	2.2	133
29	Metagenomics approaches in systems microbiology. FEMS Microbiology Reviews, 2009, 33, 236-255.	8.6	130
30	Disinfection capability of Ag/g-C 3 N 4 composite photocatalysts under UV and visible light illumination. Applied Catalysis B: Environmental, 2016, 183, 86-95.	20.2	127
31	Genome sequence completed of Alcanivorax borkumensis, a hydrocarbon-degrading bacterium that plays a global role in oil removal from marine systems. Journal of Biotechnology, 2003, 106, 215-220.	3.8	126
32	Metaproteogenomic insights beyond bacterial response to naphthalene exposure and bio-stimulation. ISME Journal, 2013, 7, 122-136.	9.8	124
33	High-Performance Dual-Action Polymerâ^'TiO ₂ Nanocomposite Films via Melting Processing. Nano Letters, 2007, 7, 2529-2534.	9.1	121
34	Exploring the human microbiome from multiple perspectives: factors altering its composition and function. FEMS Microbiology Reviews, 2017, 41, 453-478.	8.6	117
35	â€~ARMAN' archaea depend on association with euryarchaeal host in culture and in situ. Nature Communications, 2017, 8, 60.	12.8	116
36	Genome sequence and functional genomic analysis of the oil-degrading bacterium Oleispira antarctica. Nature Communications, 2013, 4, 2156.	12.8	115

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37	Self‣terilized EVOHâ€TiO ₂ Nanocomposites: Interface Effects on Biocidal Properties. Advanced Functional Materials, 2008, 18, 1949-1960.	14.9	111
38	Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. Langmuir, 2002, 18, 667-673.	3.5	109
39	Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian deep waters (Central Mediterranean Sea). ISME Journal, 2011, 5, 945-961.	9.8	109
40	Microbial community of the deepâ€sea brine <scp>L</scp> ake <scp><i>K</i></scp> <i>ryos</i> seawater–brine interface is active below the chaotropicity limit of life as revealed by recovery of <scp>mRNA</scp> . Environmental Microbiology, 2015, 17, 364-382.	3.8	109
41	Determinants and Prediction of Esterase Substrate Promiscuity Patterns. ACS Chemical Biology, 2018, 13, 225-234.	3.4	106
42	Microbial stratification in low pH oxic and suboxic macroscopic growths along an acid mine drainage. ISME Journal, 2014, 8, 1259-1274.	9.8	105
43	Anatase-TiO2Nanomaterials:  Morphological/Size Dependence of the Crystallization and Phase Behavior Phenomena. Journal of Physical Chemistry C, 2007, 111, 674-682.	3.1	104
44	Ag promotion of TiO2-anatase disinfection capability: Study of Escherichia coli inactivation. Applied Catalysis B: Environmental, 2008, 84, 87-93.	20.2	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 International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 2815-2823.	1.7	93
46	Gut Bacteria Metabolism Impacts Immune Recovery in HIV-infected Individuals. EBioMedicine, 2016, 8, 203-216.	6.1	93
47	Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. Scientific Reports, 2015, 5, 11651.	3.3	91
48	Metabolic versatility of small archaea Micrarchaeota and Parvarchaeota. ISME Journal, 2018, 12, 756-775.	9.8	91
49	Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. Nature Catalysis, 2020, 3, 319-328.	34.4	90
50	The cellular machinery of Ferroplasma acidiphilum is iron-protein-dominated. Nature, 2007, 445, 91-94.	27.8	88
51	Unveiling microbial life in new deepâ€sea hypersaline Lake <i>Thetis</i> . Part I: Prokaryotes and environmental Microbiology, 2011, 13, 2250-2268.	3.8	86
52	Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. Biotechnology Letters, 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. PLoS ONE, 2012, 7, e38134.	2.5	83
54	Gut microbiota disturbance during antibiotic therapy. Gut Microbes, 2014, 5, 64-70.	9.8	83

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55	Anatase-TiO ₂ Nanomaterials:  Analysis of Key Parameters Controlling Crystallization. Journal of the American Chemical Society, 2007, 129, 13604-13612.	13.7	82
56	Boosting TiO2-anatase antimicrobial activity: Polymer-oxide thin films. Applied Catalysis B: Environmental, 2009, 89, 441-447.	20.2	81
57	Functional consequences of microbial shifts in the human gastrointestinal tract linked to antibiotic treatment and obesity. Gut Microbes, 2013, 4, 306-315.	9.8	81
58	Doping level effect on sunlight-driven W,N-co-doped TiO2-anatase photo-catalysts for aromatic hydrocarbon partial oxidation. Applied Catalysis B: Environmental, 2010, 93, 274-281.	20.2	80
59	Mutation in a " tesB -Like―Hydroxyacyl-Coenzyme A-Specific Thioesterase Gene Causes Hyperproduction of Extracellular Polyhydroxyalkanoates by Alcanivorax borkumensis SK2. Journal of Bacteriology, 2006, 188, 8452-8459.	2.2	79
60	Cu–TiO2 systems for the photocatalytic H2 production: Influence of structural and surface support features. Applied Catalysis B: Environmental, 2015, 179, 468-478.	20.2	79
61	Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. ISME Journal, 2017, 11, 1245-1260.	9.8	79
62	Braiding kinetics and spectroscopy in photo-catalysis: the spectro-kinetic approach. Chemical Society Reviews, 2019, 48, 637-682.	38.1	79
63	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
64	Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. Scientific Reports, 2013, 3, 3554.	3.3	78
65	N- and/or W-(co)doped TiO2-anatase catalysts: Effect of the calcination treatment on photoactivity. Applied Catalysis B: Environmental, 2010, 95, 238-244.	20.2	74
66	A Simple Procedure for the Regioselective Synthesis of Fatty Acid Esters of Maltose, Leucrose, Maltotriose and n-Dodecyl Maltosides. Tetrahedron, 2000, 56, 4053-4061.	1.9	73
67	Low temperature-induced systems failure inEscherichia coli: Insights from rescue by cold-adapted chaperones. Proteomics, 2006, 6, 193-206.	2.2	73
68	UV and visible light optimization of anatase TiO2 antimicrobial properties: Surface deposition of metal and oxide (Cu, Zn, Ag) species. Applied Catalysis B: Environmental, 2013, 140-141, 680-690.	20.2	73
69	Expression of a Temperature-Sensitive Esterase in a Novel Chaperone-Based Escherichia coli Strain. Applied and Environmental Microbiology, 2004, 70, 4499-4504.	3.1	71
70	Systems approaches to microbial communities and their functioning. Current Opinion in Biotechnology, 2010, 21, 532-538.	6.6	69
71	Discovery of Novel Quaternary Ammonium Derivatives of (3<1>R)-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	6.4	68
72	Bromide (Actidinium Bromide), Journal of Medicinal Chemistry, 2009, 52, 5076-5092. Ranking the impact of human health disorders on gut metabolism: Systemic lupus erythematosus and obesity as study cases. Scientific Reports, 2015, 5, 8310.	3.3	68

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73	Activity screening of environmental metagenomic libraries reveals novel carboxylesterase families. Scientific Reports, 2017, 7, 44103.	3.3	67
74	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. Journal of Physical Chemistry C, 2009, 113, 9182-9190.	3.1	66
75	Diversity of Glycosyl Hydrolases from Cellulose-Depleting Communities Enriched from Casts of Two Earthworm Species. Applied and Environmental Microbiology, 2010, 76, 5934-5946.	3.1	65
76	Promotion of CeO2–TiO2 photoactivity by g-C3N4: Ultraviolet and visible light elimination of toluene. Applied Catalysis B: Environmental, 2015, 164, 261-270.	20.2	63
77	Elemental sulfur and acetate can support life of a novel strictly anaerobic haloarchaeon. ISME Journal, 2016, 10, 240-252.	9.8	62
78	Effects of β-Lactam Antibiotics and Fluoroquinolones on Human Gut Microbiota in Relation to Clostridium difficile Associated Diarrhea. PLoS ONE, 2014, 9, e89417.	2.5	61
79	Biodegradable Polycaprolactone-Titania Nanocomposites: Preparation, Characterization and Antimicrobial Properties. International Journal of Molecular Sciences, 2013, 14, 9249-9266.	4.1	60
80	Effect of carbohydrate fatty acid esters on Streptococcus sobrinus and glucosyltransferase activity. Carbohydrate Research, 2004, 339, 1029-1034.	2.3	59
81	Biochemical Diversity of Carboxyl Esterases and Lipases from Lake Arreo (Spain): a Metagenomic Approach. Applied and Environmental Microbiology, 2013, 79, 3553-3562.	3.1	59
82	Heterogeneous photocatalysis: Light-matter interaction and chemical effects in quantum efficiency calculations. Journal of Catalysis, 2015, 330, 154-166.	6.2	59
83	Recent trends in industrial microbiology. Current Opinion in Microbiology, 2008, 11, 240-248.	5.1	58
84	Sunlight-driven toluene photo-elimination using CeO2-TiO2 composite systems: A kinetic study. Applied Catalysis B: Environmental, 2013, 140-141, 626-635.	20.2	58
85	Metaproteomics and metabolomics analyses of chronically petroleumâ€polluted sites reveal the importance of general anaerobic processes uncoupled with degradation. Proteomics, 2015, 15, 3508-3520.	2.2	58
86	Archaea dominate the microbial community in an ecosystem with low-to-moderate temperature and extreme acidity. Microbiome, 2019, 7, 11.	11.1	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. Environmental Microbiology, 2003, 5, 1257-1269.	3.8	57
88	Rational Engineering of Multiple Active Sites in an Ester Hydrolase. Biochemistry, 2018, 57, 2245-2255.	2.5	57
89	Acetaldehyde degradation under UV and visible irradiation using CeO2–TiO2 composite systems: Evaluation of the photocatalytic efficiencies. Chemical Engineering Journal, 2014, 255, 297-306.	12.7	56
90	The COMBREX Project: Design, Methodology, and Initial Results. PLoS Biology, 2013, 11, e1001638.	5.6	54

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91	Oneâ€year calorie restriction impacts gut microbial composition but not its metabolic performance in obese adolescents. Environmental Microbiology, 2017, 19, 1536-1551.	3.8	54
92	Acetylation of vitamin E by Candida antarctica lipase B immobilized on different carriers. Process Biochemistry, 2008, 43, 145-153.	3.7	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). Microbial Ecology, 2011, 62, 824-837.	2.8	51
94	Unveiling microbial life in the new deepâ€sea hypersaline Lake <i>Thetis</i> . Part II: a metagenomic study. Environmental Microbiology, 2012, 14, 268-281.	3.8	50
95	<i>Clostridium difficile</i> heterogeneously impacts intestinal community architecture but drives stable metabolome responses. ISME Journal, 2015, 9, 2206-2220.	9.8	50
96	HIV infection results in metabolic alterations in the gut microbiota different from those induced by other diseases. Scientific Reports, 2016, 6, 26192.	3.3	50
97	Functional microbiome deficits associated with ageing: Chronological age threshold. Aging Cell, 2020, 19, e13063.	6.7	49
98	Symbiosis between nanohaloarchaeon and haloarchaeon is based on utilization of different polysaccharides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20223-20234.	7.1	49
99	The 'pH optimum anomaly' of intracellular enzymes of Ferroplasma acidiphilum. Environmental Microbiology, 2006, 8, 416-425.	3.8	48
100	Biodiversity for biocatalysis: A review of the $\hat{l}\pm/\hat{l}^2$ -hydrolase fold superfamily of esterases-lipases discovered in metagenomes. Biocatalysis and Biotransformation, 2015, 33, 235-249.	2.0	48
101	Interplay between gut microbiota metabolism and inflammation in HIV infection. ISME Journal, 2018, 12, 1964-1976.	9.8	48
102	Global Regulation of Food Supply by <i>P seudomonas p utida</i> DOT-T1E. Journal of Bacteriology, 2010, 192, 2169-2181.	2.2	47
103	Bioinformatic progress and applications in metaproteogenomics for bridging the gap between genomic sequences and metabolic functions in microbial communities. Proteomics, 2013, 13, 2786-2804.	2.2	46
104	Effect of exfoliation and surface deposition of MnOx species in g-C3N4: Toluene photo-degradation under UV and visible light. Applied Catalysis B: Environmental, 2017, 203, 663-672.	20.2	43
105	Functional consequences of single:double ring transitions in chaperonins: life in the cold. Molecular Microbiology, 2004, 53, 167-182.	2.5	42
106	Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. Biocatalysis and Biotransformation, 2005, 23, 19-27.	2.0	42
107	Tailoring polymer–TiO2 film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. Applied Catalysis B: Environmental, 2011, 104, 346-352.	20.2	42
108	Effect of the Immobilization Method of Lipase from Thermomyces lanuginosus on Sucrose Acylation. Biocatalysis and Biotransformation, 2002, 20, 63-71.	2.0	41

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109	A novel α-glucosidase from the acidophilic archaeon Ferroplasma acidiphilum strain Y with high transglycosylation activity and an unusual catalytic nucleophile. Biochemical Journal, 2005, 391, 269-276.	3.7	41
110	<scp><i>H</i></scp> <i>alorhabdus tiamatea:</i> proteogenomics and glycosidase activity measurements identify the first cultivated euryarchaeon from a deepâ€sea anoxic brine lake as potential polysaccharide degrader. Environmental Microbiology, 2014, 16, 2525-2537.	3.8	41
111	UV and visible hydrogen photo-production using Pt promoted Nb-doped TiO 2 photo-catalysts: Interpreting quantum efficiency. Applied Catalysis B: Environmental, 2017, 216, 133-145.	20.2	41
112	Pressure adaptation is linked to thermal adaptation in saltâ€saturated marine habitats. Environmental Microbiology, 2015, 17, 332-345.	3.8	40
113	Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. Biotechnology Journal, 2007, 2, 207-213.	3.5	39
114	Reactome Array: Forging a Link Between Metabolome and Genome. Science, 2009, 326, 252-257.	12.6	39
115	Effective Enhancement of TiO ₂ Photocatalysis by Synergistic Interaction of Surface Species: From Promoters to Co-catalysts. ACS Catalysis, 2014, 4, 4277-4288.	11.2	37
116	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. Marine Genomics, 2016, 25, 11-13.	1.1	37
117	Diversity of hydrolases from hydrothermal vent sediments of the Levante Bay, Vulcano Island (Aeolian) Tj ETQq1 esterases and an arabinopyranosidase. Applied Microbiology and Biotechnology, 2015, 99, 10031-10046.	l 0.78431 3.6	4 rgBT /Ove 36
118	Towards full-spectrum photocatalysis: Successful approaches and materials. Applied Catalysis A: General, 2021, 610, 117966.	4.3	36
119	Functional-Based Screening Methods for Lipases, Esterases, and Phospholipases in Metagenomic Libraries. Methods in Molecular Biology, 2012, 861, 101-113.	0.9	35
120	Identification and Characterization of Carboxyl Esterases of Gill Chamber-Associated Microbiota in the Deep-Sea Shrimp Rimicaris exoculata by Using Functional Metagenomics. Applied and Environmental Microbiology, 2015, 81, 2125-2136.	3.1	35
121	High Throughput Screening of Esterases, Lipases and Phospholipases in Mutant and Metagenomic Libraries: A Review. Combinatorial Chemistry and High Throughput Screening, 2016, 19, 605-615.	1.1	35
122	Single residues dictate the co-evolution of dual esterases: MCP hydrolases from the $\hat{l}\pm/\hat{l}^2$ hydrolase family. Biochemical Journal, 2013, 454, 157-166.	3.7	34
123	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.	20.2	34
124	Improved synthesis of sucrose fatty acid monoesters. JAOCS, Journal of the American Oil Chemists' Society, 2001, 78, 541-546.	1.9	33
125	Kinetics of photocatalytic disinfection in TiO2-containing polymer thin films: UV and visible light performances. Applied Catalysis B: Environmental, 2012, 121-122, 230-238.	20.2	33
126	Enhancing promoting effects in g-C3N4-Mn+/CeO2-TiO2 ternary composites: Photo-handling of charge carriers. Applied Catalysis B: Environmental, 2015, 176-177, 687-698.	20.2	33

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127	Functional Metagenomics of a Biostimulated Petroleum-Contaminated Soil Reveals an Extraordinary Diversity of Extradiol Dioxygenases. Applied and Environmental Microbiology, 2016, 82, 2467-2478.	3.1	33
128	Solubility of Glucose in Mixtures Containing 2-Methyl-2-butanol, Dimethyl Sulfoxide, Acids, Esters, and Water. Journal of Chemical & Engineering Data, 2002, 47, 807-810.	1.9	32
129	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. Biotechnology and Applied Biochemistry, 2005, 42, 35.	3.1	32
130	Conversion of a Carboxylesterase into a Triacylglycerol Lipase by a Random Mutation. Angewandte Chemie - International Edition, 2005, 44, 7553-7557.	13.8	32
131	Combinatorial Saturation Mutagenesis of the Myceliophthora thermophila Laccase T2 Mutant: the Connection between the C-Terminal Plug and the Conserved VSG Tripeptide. Combinatorial Chemistry and High Throughput Screening, 2008, 11, 807-816.	1.1	32
132	Bioremediation of Southern Mediterranean oil polluted sites comes of age. New Biotechnology, 2013, 30, 743-748.	4.4	32
133	Green photo-oxidation of styrene over W–Ti composite catalysts. Journal of Catalysis, 2014, 309, 428-438.	6.2	32
134	Context-specific metabolic network reconstruction of a naphthalene-degrading bacterial community guided by metaproteomic data. Bioinformatics, 2015, 31, 1771-1779.	4.1	31
135	Nitrilotriacetic Amine-Functionalized Polymeric Core–Shell Nanoparticles as Enzyme Immobilization Supports. Biomacromolecules, 2017, 18, 2777-2788.	5.4	31
136	Sulfur Respiration in a Group of Facultatively Anaerobic Natronoarchaea Ubiquitous in Hypersaline Soda Lakes. Frontiers in Microbiology, 2018, 9, 2359.	3.5	30
137	Purification and properties of a lipase fromPenicillium chrysogenum isolated from industrial wastes. Journal of Chemical Technology and Biotechnology, 2000, 75, 569-576.	3.2	29
138	Interplay of metagenomics and <i>in vitro</i> compartmentalization. Microbial Biotechnology, 2009, 2, 31-39.	4.2	29
139	Abatement of organics and Escherichia coli using CeO2-TiO2 composite oxides: Ultraviolet and visible light performances. Applied Catalysis B: Environmental, 2014, 154-155, 350-359.	20.2	29
140	A purple acidophilic di-ferric DNA ligase from <i>Ferroplasma</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8878-8883.	7.1	27
141	Alcanivorax borkumensis produces an extracellular siderophore in iron-limitation condition maintaining the hydrocarbon-degradation efficiency. Marine Genomics, 2014, 17, 43-52.	1.1	27
142	Dissimilatory sulfate reduction in the archaeon â€~Candidatus Vulcanisaeta moutnovskia' sheds light on the evolution of sulfur metabolism. Nature Microbiology, 2020, 5, 1428-1438.	13.3	27
143	Biochemical studies on a versatile esterase that is most catalytically active with polyaromatic esters. Microbial Biotechnology, 2014, 7, 184-191.	4.2	26
144	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. FEMS Microbiology Letters, 2019, 366, .	1.8	26

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145	Metagenomics as a new technological tool to gain scientific knowledge. World Journal of Microbiology and Biotechnology, 2009, 25, 945-954.	3.6	25
146	Effects of HIV, antiretroviral therapy and prebiotics on the active fraction of the gut microbiota. Aids, 2018, 32, 1229-1237.	2.2	25
147	Controlled manipulation of enzyme specificity through immobilization-induced flexibility constraints. Applied Catalysis A: General, 2018, 565, 59-67.	4.3	24
148	Biocidal Capability Optimization in Organicâ^'Inorganic Nanocomposites Based on Titania. Environmental Science & Technology, 2009, 43, 1630-1634.	10.0	23
149	Heterotrophic bicarbonate assimilation is the main process of <i>de novo</i> organic carbon synthesis in hadal zone of the <scp>H</scp> ellenic <scp>T</scp> rench, the deepest part of <scp>M</scp> editerranean <scp>S</scp> ea. Environmental Microbiology Reports, 2014, 6, 709-722.	2.4	23
150	Sunlight-Operated TiO2-Based Photocatalysts. Molecules, 2020, 25, 4008.	3.8	23
151	Gene Sets for Utilization of Primary and Secondary Nutrition Supplies in the Distal Gut of Endangered Iberian Lynx. PLoS ONE, 2012, 7, e51521.	2.5	23
152	Surface CuO, Bi ₂ O ₃ , and CeO ₂ Species Supported in TiO ₂ -Anatase: Study of Interface Effects in Toluene Photodegradation Quantum Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 13934-13945.	8.0	22
153	Er-W codoping of TiO2-anatase: Structural and electronic characterization and disinfection capability under UV–vis, and near-IR excitation. Applied Catalysis B: Environmental, 2018, 228, 113-129.	20.2	22
154	Tuning the Properties of Natural Promiscuous Enzymes by Engineering Their Nano-environment. ACS Nano, 2020, 14, 17652-17664.	14.6	22
155	Structural and Functional Characterization of a Ruminal β-Glycosidase Defines a Novel Subfamily of Glycoside Hydrolase Family 3 with Permuted Domain Topology. Journal of Biological Chemistry, 2016, 291, 24200-24214.	3.4	21
156	Metabolic and evolutionary patterns in the extremely acidophilic archaeon Ferroplasma acidiphilum YT. Scientific Reports, 2017, 7, 3682.	3.3	21
157	Genome Sequence of Thalassolituus oleivorans MIL-1 (DSM 14913 ^T). Genome Announcements, 2013, 1, e0014113.	0.8	20
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