## VıÌ€tor de Lorenzo

## List of Publications by Year in descending order

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352 papers

20,223 citations

72 h-index 120 g-index

383 all docs

383 docs citations

times ranked

383

13225 citing authors

#	Article	IF	CITATIONS
1	[31] Analysis and construction of stable phenotypes in gram-negative bacteria with Tn5- and Tn10-derived minitransposons. Methods in Enzymology, 1994, 235, 386-405.	0.4	852
2	The Standard European Vector Architecture (SEVA): a coherent platform for the analysis and deployment of complex prokaryotic phenotypes. Nucleic Acids Research, 2013, 41, D666-D675.	6.5	556
3	Analysis of Pseudomonas gene products using laclq/Ptrp-lac plasmids and transposons that confer conditional phenotypes. Gene, 1993, 123, 17-24.	1.0	429
4	Exploiting the genetic and biochemical capacities of bacteria for the remediation of heavy metal pollution. FEMS Microbiology Reviews, 2002, 26, 327-338.	3.9	365
5	Pseudomonas putida as a functional chassis for industrial biocatalysis: From native biochemistry to trans-metabolism. Metabolic Engineering, 2018, 50, 142-155.	3.6	338
6	Biotechnological domestication of pseudomonads using synthetic biology. Nature Reviews Microbiology, 2014, 12, 368-379.	13.6	332
7	Engineering multiple genomic deletions in Gramâ€negative bacteria: analysis of the multiâ€resistant antibiotic profile of <i>Pseudomonas putida</i> KT2440. Environmental Microbiology, 2011, 13, 2702-2716.	1.8	329
8	Microbial responses to environmental arsenic. BioMetals, 2009, 22, 117-130.	1.8	309
9	A general system to integratelacZ fusions into the chromosomes of gram-negative eubacteria: regulation of thePm promoter of theTOL plasmid studied with all controlling elements in monocopy. Molecular Genetics and Genomics, 1992, 233, 293-301.	2.4	285
10	The revisited genome of $\langle i \rangle$ Pseudomonas putida $\langle i \rangle$ KT2440 enlightens its value as a robust metabolic $\langle i \rangle$ chassis $\langle i \rangle$ . Environmental Microbiology, 2016, 18, 3403-3424.	1.8	270
11	Pseudomonas putida KT2440 Strain Metabolizes Glucose through a Cycle Formed by Enzymes of the Entner-Doudoroff, Embden-Meyerhof-Parnas, and Pentose Phosphate Pathways. Journal of Biological Chemistry, 2015, 290, 25920-25932.	1.6	269
12	Engineering a mouse metallothionein on the cell surface of Ralstonia eutropha CH34 for immobilization of heavy metals in soil. Nature Biotechnology, 2000, 18, 661-665.	9.4	262
13	Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples. Analytica Chimica Acta, 1999, 387, 235-244.	2.6	248
14	Bioremediation 3.0: Engineering pollutant-removing bacteria in the times of systemic biology. Biotechnology Advances, 2017, 35, 845-866.	6.0	240
15	Systems biology approaches to bioremediation. Current Opinion in Biotechnology, 2008, 19, 579-589.	3.3	227
16	Heavy metal tolerance and metal homeostasis inPseudomonas putidaas revealed by complete genome analysis. Environmental Microbiology, 2003, 5, 1242-1256.	1.8	213
17	Transcriptional Tradeoff between Metabolic and Stress-response Programs in Pseudomonas putida KT2440 Cells Exposed to Toluene. Journal of Biological Chemistry, 2006, 281, 11981-11991.	1.6	207
18	Pseudomonas 2.0: genetic upgrading of P. putida KT2440 as an enhanced host for heterologous gene expression. Microbial Cell Factories, 2014, 13, 159.	1.9	199

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19	From dirt to industrial applications: Pseudomonas putida as a Synthetic Biology chassis for hosting harsh biochemical reactions. Current Opinion in Chemical Biology, 2016, 34, 20-29.	2.8	199
20	The <scp>E</scp> ntner– <scp>D</scp> oudoroff pathway empowers <i><scp>P</scp>seudomonas putida</i> à€ <scp>KT</scp> 2440 with a high tolerance to oxidative stress. Environmental Microbiology, 2013, 15, 1772-1785.	1.8	195
21	SEVA 2.0: an update of the Standard European Vector Architecture for de-/re-construction of bacterial functionalities. Nucleic Acids Research, 2015, 43, D1183-D1189.	6.5	195
22	Promoters in the environment: transcriptional regulation in its natural context. Nature Reviews Microbiology, 2005, 3, 105-118.	13.6	192
23	Metal ion regulation of gene expression. Journal of Molecular Biology, 1988, 203, 875-884.	2.0	183
24	CLUES AND CONSEQUENCES OF DNA BENDING IN TRANSCRIPTION. Annual Review of Microbiology, 1997, 51, 593-628.	2.9	182
25	Binding of the Fur (ferric uptake regulator) repressor of Escherichia coli to arrays of the GATAAT sequence. Journal of Molecular Biology, 1998, 283, 537-547.	2.0	177
26	Tn7-Based Device for Calibrated Heterologous Gene Expression in $\langle i \rangle$ Pseudomonas putida $\langle i \rangle$ . ACS Synthetic Biology, 2015, 4, 1341-1351.	1.9	169
27	Transcription regulation and environmental adaptation in bacteria. Trends in Microbiology, 2003, 11, 248-253.	3.5	168
28	Enhanced metalloadsorption of bacterial cells displaying poly-His peptides. Nature Biotechnology, 1996, 14, 1017-1020.	9.4	166
29	Genetically modified organisms for the environment: stories of success and failure and what we have learned from them. International Microbiology, 2005, 8, 213-22.	1.1	159
30	Synthetic biology: discovering new worlds and new words. EMBO Reports, 2008, 9, 822-827.	2.0	148
31	Exacerbation of substrate toxicity by IPTG in Escherichia coli BL21(DE3) carrying a synthetic metabolic pathway. Microbial Cell Factories, 2015, 14, 201.	1.9	145
32	pBAM1: an all-synthetic genetic tool for analysis and construction of complex bacterial phenotypes. BMC Microbiology, 2011, 11, 38.	1.3	142
33	Genome reduction boosts heterologous gene expression in Pseudomonas putida. Microbial Cell Factories, 2015, 14, 23.	1.9	142
34	Activation of the transcriptional regulator XylR of Pseudomonas putida by release of repression between functional domains. Molecular Microbiology, 1995, 16, 205-213.	1.2	139
35	Production of Functional Single-Chain Fv Antibodies in the Cytoplasm of Escherichia coli. Journal of Molecular Biology, 2002, 320, 1-10.	2.0	139
36	Plastic waste as a novel substrate for industrial biotechnology. Microbial Biotechnology, 2015, 8, 900-903.	2.0	134

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37	The metabolic cost of flagellar motion in <scp><i>P</i></scp> <i>seudomonas putida</i> â€ <scp>KT</scp> 2440. Environmental Microbiology, 2014, 16, 291-303.	1.8	132
38	Transcriptional regulators $\tilde{A}$ la carte: engineering new effector specificities in bacterial regulatory proteins. Current Opinion in Biotechnology, 2006, 17, 34-42.	3.3	131
39	Metalloadsorption by <i>Escherichia coli</i> Cells Displaying Yeast and Mammalian Metallothioneins Anchored to the Outer Membrane Protein LamB. Journal of Bacteriology, 1998, 180, 2280-2284.	1.0	131
40	Functional Analysis of PvdS, an Iron Starvation Sigma Factor of Pseudomonas aeruginosa. Journal of Bacteriology, 2000, 182, 1481-1491.	1.0	123
41	Growth phase-dependent expression of the Pseudomonas putida KT2440 transcriptional machinery analysed with a genome-wide DNA microarray. Environmental Microbiology, 2006, 8, 165-177.	1.8	123
42	Modulation of gene expression through chromosomal positioning in Escherichia coli. Microbiology (United Kingdom), 1997, 143, 2071-2078.	0.7	118
43	CRISPR/Cas9â€Based Counterselection Boosts Recombineering Efficiency in <i>Pseudomonas putida</i> Biotechnology Journal, 2018, 13, e1700161.	1.8	115
44	Engineering of alkyl- and haloaromatic-responsive gene expression with mini-transposons containing regulated promoters of biodegradative pathways of Pseudomonas. Gene, 1993, 130, 41-46.	1.0	113
45	Export of autotransported proteins proceeds through an oligomeric ring shaped by C-terminal domains. EMBO Journal, 2002, 21, 2122-2131.	3.5	110
46	Volatilization of Arsenic from Polluted Soil by <i>Pseudomonas putida</i> Engineered for Expression of the <i>arsM</i> Arsenic(III) S-Adenosine Methyltransferase Gene. Environmental Science & Enpironmental Science & Enpiro	4.6	106
47	Exploring the microbial biodegradation and biotransformation gene pool. Trends in Biotechnology, 2005, 23, 497-506.	4.9	104
48	Noise and Robustness in Prokaryotic Regulatory Networks. Annual Review of Microbiology, 2010, 64, 257-275.	2.9	104
49	Genetic programming of catalytic Pseudomonas putida biofilms for boosting biodegradation of haloalkanes. Metabolic Engineering, 2016, 33, 109-118.	3.6	103
50	Regulatory noise in prokaryotic promoters: how bacteria learn to respond to novel environmental signals. Molecular Microbiology, 1996, 19, 1177-1184.	1.2	101
51	Resistance to Tellurite as a Selection Marker for Genetic Manipulations of Pseudomonas Strains. Applied and Environmental Microbiology, 1998, 64, 4040-4046.	1.4	100
52	Isolation and characterization of microcin E 492 fromKlebsiella pneumoniae. Archives of Microbiology, 1984, 139, 72-75.	1.0	99
53	The IIANtr (PtsN) Protein of Pseudomonas putida Mediates the C Source Inhibition of the Ï,54-dependent Pu Promoter of the TOL Plasmid. Journal of Biological Chemistry, 1999, 274, 15562-15568.	1.6	99
54	The urgent need for microbiology literacy in society. Environmental Microbiology, 2019, 21, 1513-1528.	1.8	99

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55	ATP Binding to the $loople$ f54-Dependent Activator XylRTriggers a Protein Multimerization Cycle Catalyzed by UAS DNA. Cell, 1996, 86, 331-339.	13.5	98
56	Involvement of sigma54 in exponential silencing of the Pseudomonas putida TOL plasmid Pu promoter. Molecular Microbiology, 1996, 19, 7-17.	1.2	94
57	Engineering an anaerobic metabolic regime in Pseudomonas putida KT2440 for the anoxic biodegradation of 1,3-dichloroprop-1-ene. Metabolic Engineering, 2013, 15, 98-112.	3.6	93
58	Engineering of a Stable Whole-Cell Biocatalyst Capable of ( <i>S</i> )-Styrene Oxide Formation for Continuous Two-Liquid-Phase Applications. Applied and Environmental Microbiology, 1999, 65, 5619-5623.	1.4	92
59	Transposon-Based and Plasmid-Based Genetic Tools for Editing Genomes of Gram-Negative Bacteria. Methods in Molecular Biology, 2012, 813, 267-283.	0.4	92
60	Metabolic and regulatory rearrangements underlying glycerol metabolism in <i><scp>P</scp>seudomonas putida</i> â€ <scp>KT</scp> 2440. Environmental Microbiology, 2014, 16, 239-254.	1.8	91
61	Effector Specificity Mutants of the Transcriptional Activator NahR of Naphthalene Degrading Pseudomonas Define Protein Sites Involved in Binding of Aromatic Inducers. Journal of Biological Chemistry, 1997, 272, 3986-3992.	1.6	87
62	Refactoring the upper sugar metabolism of Pseudomonas putida for co-utilization of cellobiose, xylose, and glucose. Metabolic Engineering, 2018, 48, 94-108.	3.6	86
63	Engineering the Soil Bacterium Pseudomonas putida for Arsenic Methylation. Applied and Environmental Microbiology, 2013, 79, 4493-4495.	1.4	85
64	New Transposon Tools Tailored for Metabolic Engineering of Gram-Negative Microbial Cell Factories. Frontiers in Bioengineering and Biotechnology, 2014, 2, 46.	2.0	85
65	In Vitro Activities of an N-terminal Truncated Form of XylR, a Ïf 54-dependent Transcriptional Activator of Pseudomonas putida. Journal of Molecular Biology, 1996, 258, 575-587.	2.0	83
66	Structural tolerance of bacterial autotransporters for folded passenger protein domains. Molecular Microbiology, 2004, 52, 1069-1080.	1.2	83
67	The power of synthetic biology for bioproduction, remediation and pollution control. EMBO Reports, 2018, 19, .	2.0	83
68	Mining logic gates in prokaryotic transcriptional regulation networks. FEBS Letters, 2008, 582, 1237-1244.	1.3	82
69	SEVA 3.0: an update of the Standard European Vector Architecture for enabling portability of genetic constructs among diverse bacterial hosts. Nucleic Acids Research, 2020, 48, D1164-D1170.	6.5	82
70	Probing secretion and translocation of a $\hat{l}^2$ -autotransporter using a reporter single-chain Fv as a cognate passenger domain. Molecular Microbiology, 2002, 33, 1232-1243.	1.2	80
71	Tracing explosives in soil with transcriptional regulators of <i>Pseudomonas putida</i> evolved for responding to nitrotoluenes. Microbial Biotechnology, 2008, 1, 236-246.	2.0	79
72	Reconfiguration of metabolic fluxes in <i>Pseudomonas putida</i> as a response to sub-lethal oxidative stress. ISME Journal, 2021, 15, 1751-1766.	4.4	79

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73	Thioredoxin Fusions Increase Folding of Single Chain Fv Antibodies in the Cytoplasm of Escherichia coli: Evidence that Chaperone Activity is the Prime Effect of Thioredoxin. Journal of Molecular Biology, 2006, 357, 49-61.	2.0	78
74	Regulatory Tasks of the Phosphoenolpyruvate-Phosphotransferase System of Pseudomonas putida in Central Carbon Metabolism. MBio, 2012, $3$ , .	1.8	78
75	Synthetic constructs in/for the environment: Managing the interplay between natural and engineered Biology. FEBS Letters, 2012, 586, 2199-2206.	1.3	78
76	Metabolic engineering of bacteria for environmental applications: construction of Pseudomonas strains for biodegradation of 2-chlorotoluene. Journal of Biotechnology, 2001, 85, 103-113.	1.9	77
77	Accumulation of inorganic polyphosphate enables stress endurance and catalytic vigour in Pseudomonas putida KT2440. Microbial Cell Factories, 2013, 12, 50.	1.9	77
78	The Behavior of Bacteria Designed for Biodegradation. Nature Biotechnology, 1994, 12, 1349-1356.	9.4	76
79	Engineering outer-membrane proteins in Pseudomonas putida for enhanced heavy-metal bioadsorption. Journal of Inorganic Biochemistry, 2000, 79, 219-223.	1.5	76
80	Universal barrier to lateral spread of specific genes among microorganisms. Molecular Microbiology, 1994, 13, 855-861.	1.2	75
81	An Escherichia coli hemolysin transport system-based vector for the export of polypeptides: Export of shiga-like toxin IIeB subunit by Salmonella typhimurium aroA. Nature Biotechnology, 1996, 14, 765-769.	9.4	75
82	Specific Secretion of Active Single-Chain Fv Antibodies into the Supernatants of Escherichia coli Cultures by Use of the Hemolysin System. Applied and Environmental Microbiology, 2000, 66, 5024-5029.	1.4	75
83	The Phosphotransferase System Formed by PtsP, PtsO, and PtsN Proteins Controls Production of Polyhydroxyalkanoates in Pseudomonas putida. Journal of Bacteriology, 2007, 189, 4529-4533.	1.0	75
84	Transcriptomic fingerprinting of <i><scp>P</scp>seudomonas putida</i> under alternative physiological regimes. Environmental Microbiology Reports, 2013, 5, 883-891.	1.0	75
85	Endogenous Stress Caused by Faulty Oxidation Reactions Fosters Evolution of 2,4-Dinitrotoluene-Degrading Bacteria. PLoS Genetics, 2013, 9, e1003764.	1.5	74
86	Metalloregulation in vitro of the aerobactin promoter of Escherichia coli by the Fur (ferric uptake) Tj ETQq0 0 0	rgBT_lOver	lock 10 Tf 50
87	$\tilde{A} \in$ la carte transcriptional regulators: unlocking responses of the prokaryotic enhancer-binding protein XylR to non-natural effectors. Molecular Microbiology, 2008, 42, 47-59.	1.2	72
88	Stable implantation of orthogonal sensor circuits in Gramâ€negative bacteria for environmental release. Environmental Microbiology, 2008, 10, 3305-3316.	1.8	72
89	The Role of Thiol Species in the Hypertolerance of Aspergillus sp. P37 to Arsenic. Journal of Biological Chemistry, 2004, 279, 51234-51240.	1.6	71
90	Adaptation of the Yeast URA3 Selection System to Gram-Negative Bacteria and Generation of a Î" betCDE Pseudomonas putida Strain. Applied and Environmental Microbiology, 2005, 71, 883-892.	1.4	68

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91	Chemical reactivity drives spatiotemporal organisation of bacterial metabolism. FEMS Microbiology Reviews, 2014, 39, $n/a$ - $n/a$ .	3.9	67
92	Synthetic bugs on the loose: containment options for deeply engineered (micro)organisms. Current Opinion in Biotechnology, 2016, 38, 90-96.	3.3	67
93	The Ïf54regulon (sigmulon) ofPseudomonas putida. Environmental Microbiology, 2003, 5, 1281-1293.	1.8	65
94	Surveying biotransformations with a la carte genetic traps: translating dehydrochlorination of lindane (gamma-hexachlorocyclohexane) into lacZ-based phenotypes. Environmental Microbiology, 2006, 8, 546-555.	1.8	65
95	The Ssr protein (T1E_1405) from <i>Pseudomonas putida</i> DOTâ€₹1E enables oligonucleotideâ€based recombineering in platform strain <i>P. putida</i> EM42. Biotechnology Journal, 2016, 11, 1309-1319.	1.8	65
96	MetaRouter: bioinformatics for bioremediation. Nucleic Acids Research, 2004, 33, D588-D592.	6.5	64
97	Beware of metaphors: Chasses and orthogonality in synthetic biology. Bioengineered Bugs, 2011, 2, 3-7.	2.0	64
98	The private life of environmental bacteria: pollutant biodegradation at the single cell level. Environmental Microbiology, 2014, 16, 628-642.	1.8	63
99	Molecular tools and emerging strategies for deep genetic/genomic refactoring of Pseudomonas. Current Opinion in Biotechnology, 2017, 47, 120-132.	3.3	63
100	The organization of the microbial biodegradation network from a systemsâ€biology perspective. EMBO Reports, 2003, 4, 994-999.	2.0	62
101	Robustness of Pseudomonas putida KT2440 as a host for ethanol biosynthesis. New Biotechnology, 2014, 31, 562-571.	2.4	62
102	Freeing <scp><i>P</i></scp> <i>seudomonas putida</i> â€ <scp>KT</scp> 2440 of its proviral load strengthens endurance to environmental stresses. Environmental Microbiology, 2015, 17, 76-90.	1.8	62
103	The Glycerol-Dependent Metabolic Persistence of Pseudomonas putida KT2440 Reflects the Regulatory Logic of the GlpR Repressor. MBio, 2015, 6, .	1.8	62
104	From the <i>selfish gene</i> to <i>selfish metabolism</i> : Revisiting the central dogma. BioEssays, 2014, 36, 226-235.	1.2	60
105	Distribution and phylogeny of hexachlorocyclohexane-degrading bacteria in soils from Spain. Environmental Microbiology, 2006, 8, 60-68.	1.8	59
106	Engineering of Quasi-Natural Pseudomonas putida Strains for Toluene Metabolism through an ortho -Cleavage Degradation Pathway. Applied and Environmental Microbiology, 1998, 64, 748-751.	1.4	58
107	Emergence of novel functions in transcriptional regulators by regression to <i>stem</i> protein types. Molecular Microbiology, 2007, 65, 907-919.	1.2	58
108	Pyridine nucleotide transhydrogenases enable redox balance of <i>Pseudomonas putida</i> biodegradation of aromatic compounds. Environmental Microbiology, 2016, 18, 3565-3582.	1.8	58

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109	A Post-translational Metabolic Switch Enables Complete Decoupling of Bacterial Growth from Biopolymer Production in Engineered <i>Escherichia coli</i> . ACS Synthetic Biology, 2018, 7, 2686-2697.	1.9	58
110	Composition of microbial communities in hexachlorocyclohexane (HCH) contaminated soils from Spain revealed with a habitat-specific microarray. Environmental Microbiology, 2006, 8, 126-140.	1.8	57
111	In Vivo and In Vitro Effects of (p)ppGpp on the ï,54 Promoter Pu of the TOL Plasmid ofPseudomonas putida. Journal of Bacteriology, 2000, 182, 4711-4718.	1.0	56
112	Random and cyclical deletion of large DNA segments in the genome of <i>Pseudomonas putida</i> Environmental Microbiology, 2012, 14, 1444-1453.	1.8	56
113	Functional implementation of a linear glycolysis for sugar catabolism in Pseudomonas putida. Metabolic Engineering, 2019, 54, 200-211.	3.6	56
114	Myriads of protein families, and still counting. Genome Biology, 2003, 4, 401.	13.9	55
115	The ten grand challenges of synthetic life. Systems and Synthetic Biology, 2011, 5, 1-9.	1.0	54
116	Bioaccumulation of heavy metals with protein fusions of metallothionein to bacteriol OMPs. Biochimie, 1998, 80, 855-861.	1.3	53
117	In Vivo UV Laser Footprinting of thePseudomonas putida Ï,54PuPromoter Reveals That Integration Host Factor Couples Transcriptional Activity to Growth Phase. Journal of Biological Chemistry, 2002, 277, 2169-2175.	1.6	53
118	Why are chlorinated pollutants so difficult to degrade aerobically? Redox stress limits 1,3-dichloprop-1-ene metabolism by <i>Pseudomonas pavonaceae</i> . Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120377.	1.8	53
119	Designing microbial systems for gene expression in the field. Trends in Biotechnology, 1994, 12, 365-371.	4.9	52
120	Evidence of an Unusually Long Operator for the Fur Repressor in the Aerobactin Promoter of Escherichia coli. Journal of Biological Chemistry, 2000, 275, 24709-24714.	1.6	52
121	Functional coexistence of twin arsenic resistance systems in <scp><i>P</i></scp> <i>seudomonas putida</i> â€ <scp>KT</scp> 2440. Environmental Microbiology, 2015, 17, 229-238.	1.8	52
122	Implantation of unmarked regulatory and metabolic modules in Gram-negative bacteria with specialised mini-transposon delivery vectors. Journal of Biotechnology, 2013, 163, 143-154.	1.9	51
123	The Metabolic Redox Regime of Pseudomonas putida Tunes Its Evolvability toward Novel Xenobiotic Substrates. MBio, 2018, 9, .	1.8	51
124	Evidence of Multiple Regulatory Functions for the PtsN (IIA Ntr ) Protein of Pseudomonas putida. Journal of Bacteriology, 2001, 183, 1032-1037.	1.0	50
125	Refactoring the Embden–Meyerhof–Parnas Pathway as a Whole of Portable GlucoBricks for Implantation of Glycolytic Modules in Gram-Negative Bacteria. ACS Synthetic Biology, 2017, 6, 793-805.	1.9	50
126	Identification of a cis-acting Sequence within the Pm Promoter of the TOL Plasmid which Confers XylS-mediated Responsiveness to Substituted Benzoates. Journal of Molecular Biology, 1993, 230, 699-703.	2.0	49

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127	The quest for the minimal bacterial genome. Current Opinion in Biotechnology, 2016, 42, 216-224.	3.3	49
128	Genetic Evidence that Catabolites of the Entner-Doudoroff Pathway Signal C Source Repression of the If 54Pu Promoter of Pseudomonas putida. Journal of Bacteriology, 2004, 186, 8267-8275.	1.0	47
129	In vivo diversification of target genomic sites using processive base deaminase fusions blocked by dCas9. Nature Communications, 2020, 11, 6436.	5.8	47
130	Novel Physiological Modulation of the Pu Promoter of TOL Plasmid. Journal of Biological Chemistry, 2004, 279, 7777-7784.	1.6	46
131	Biological standards for the Knowledge-Based BioEconomy: What is at stake. New Biotechnology, 2018, 40, 170-180.	2.4	46
132	The long journey towards standards for engineering biosystems. EMBO Reports, 2020, 21, e50521.	2.0	46
133	Role of ptsO in Carbon-Mediated Inhibition of the Pu Promoter Belonging to the pWWO Pseudomonas putida Plasmid. Journal of Bacteriology, 2001, 183, 5128-5133.	1.0	45
134	Testing the limits of biological tolerance to arsenic in a fungus isolated from the River Tinto. Environmental Microbiology, 2003, 5, 133-138.	1.8	45
135	Autotransporters as Scaffolds for Novel Bacterial Adhesins: Surface Properties of Escherichia coli Cells Displaying Jun/Fos Dimerization Domains. Journal of Bacteriology, 2003, 185, 5585-5590.	1.0	45
136	Engineering input/output nodes in prokaryotic regulatory circuits. FEMS Microbiology Reviews, 2010, 34, 842-865.	3.9	45
137	Physical and Functional Analysis of the Prokaryotic Enhancer of the Ïf 54-promoters of the TOL Plasmid of Pseudomonas putida. Journal of Molecular Biology, 1996, 258, 562-574.	2.0	43
138	Functional Domains of the TOL Plasmid Transcription Factor XylS. Journal of Bacteriology, 2000, 182, 1118-1126.	1.0	43
139	The environmental fate of organic pollutants through the global microbial metabolism. Molecular Systems Biology, 2007, 3, 114.	3.2	43
140	A standardized workflow for surveying recombinases expands bacterial genomeâ€editing capabilities. Microbial Biotechnology, 2018, 11, 176-188.	2.0	43
141	The ancestral role of the phosphoenolpyruvate–carbohydrate phosphotransferase system (PTS) as exposed by comparative genomics. Research in Microbiology, 2007, 158, 666-670.	1.0	42
142	Bioremediation at a global scale: from the test tube to planet Earth. Microbial Biotechnology, 2016, 9, 618-625.	2.0	40
143	Activation of the toluene-responsive regulator XylR causes a transcriptional switch between sigma54 and sigma70 promoters at the divergent Pr/Ps region of the TOL plasmid. Molecular Microbiology, 1998, 27, 651-659.	1.2	39
144	Involvement of the FtsH (HflB) protease in the activity of sigma54 promoters. Molecular Microbiology, 1999, 31, 261-270.	1.2	39

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145	The role of the interdomain B linker in the activation of the XylR protein of Pseudomonas putida. Molecular Microbiology, 2000, 38, 401-410.	1.2	39
146	Deconvolution of Gene Expression Noise into Spatial Dynamics of Transcription Factor–Promoter Interplay. ACS Synthetic Biology, 2017, 6, 1359-1369.	1.9	39
147	Genetic Evidence of Distinct Physiological Regulation Mechanisms in the Ï, 54 Pu Promoter of Pseudomonas putida. Journal of Bacteriology, 2000, 182, 956-960.	1.0	38
148	Formation of disulphide bonds during secretion of proteins through the periplasmic-independent type I pathway. Molecular Microbiology, 2001, 40, 332-346.	1.2	38
149	Evidence of In Vivo Cross Talk between the Nitrogen-Related and Fructose-Related Branches of the Carbohydrate Phosphotransferase System of <i>Pseudomonas putida</i> Journal of Bacteriology, 2008, 190, 3374-3380.	1.0	38
150	The regulatory logic of <i>mâ€</i> xylene biodegradation by <i>Pseudomonas putida</i> mtâ€2 exposed by dynamic modelling of the principal node <i>Ps/Pr</i> of the TOL plasmid. Environmental Microbiology, 2010, 12, 1705-1718.	1.8	38
151	A second chromosomal copy of the <scp><i>catA</i></scp> gene endows <scp><i>P</i></scp> <i>sep&gt;<ii>Sep&gt;<ii>Seudomonas putida</ii></ii></i> mtâ€2 with an enzymatic safety valve for excess of catechol. Environmental Microbiology, 2014, 16, 1767-1778.	1.8	38
152	Pseudomonas putida in the quest of programmable chemistry. Current Opinion in Biotechnology, 2019, 59, 111-121.	3.3	38
153	The m-xylene biodegradation capacity of Pseudomonas putida mt-2 is submitted to adaptation to abiotic stresses: evidence from expression profiling of xyl genes. Environmental Microbiology, 2006, 8, 591-602.	1.8	37
154	Sinorhizobium meliloti Fur-Like (Mur) Protein Binds a Fur Box-Like Sequence Present in the mntA Promoter in a Manganese-Responsive Manner. Applied and Environmental Microbiology, 2007, 73, 4832-4838.	1.4	37
155	Environmental biosafety in the age of Synthetic Biology: Do we really need a radical new approach?. BioEssays, 2010, 32, 926-931.	1.2	37
156	A T7 RNA polymerase-based system for the construction of Pseudomonas strains with phenotypes dependent on TOL-meta pathway effectors. Gene, 1993, 134, 103-106.	1.0	36
157	VTR expression cassettes for engineering conditional phenotypes in Pseudomonas: activity of the Pu promoter of the TOL plasmid under limiting concentrations of the XylR activator protein. Gene, 1996, 172, 81-86.	1.0	36
158	The <i>logicome</i> of environmental bacteria: merging catabolic and regulatory events with Boolean formalisms. Environmental Microbiology, 2011, 13, 2389-2402.	1.8	36
159	Getting out: protein traffic in prokaryotes. Molecular Microbiology, 2004, 52, 3-11.	1.2	35
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