

Victor de Lorenzo

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

350
papers

16,123
citations

69
h-index

110
g-index

383
ext. papers

18,425
ext. citations

6.8
avg, IF

7.16
L-index

#	Paper	IF	Citations
350	Analysis and construction of stable phenotypes in gram-negative bacteria with Tn5- and Tn10-derived minitransposons. <i>Methods in Enzymology</i> , 1994 , 235, 386-405	1.7	721
349	Analysis of Pseudomonas gene products using lacIq/Ptrp-lac plasmids and transposons that confer conditional phenotypes. <i>Gene</i> , 1993 , 123, 17-24	3.8	383
348	The Standard European Vector Architecture (SEVA): a coherent platform for the analysis and deployment of complex prokaryotic phenotypes. <i>Nucleic Acids Research</i> , 2013 , 41, D666-75	20.1	372
347	Exploiting the genetic and biochemical capacities of bacteria for the remediation of heavy metal pollution. <i>FEMS Microbiology Reviews</i> , 2002 , 26, 327-38	15.1	302
346	Biotechnological domestication of pseudomonads using synthetic biology. <i>Nature Reviews Microbiology</i> , 2014 , 12, 368-79	22.2	267
345	Microbial responses to environmental arsenic. <i>BioMetals</i> , 2009 , 22, 117-30	3.4	254
344	A general system to integrate lacZ fusions into the chromosomes of gram-negative eubacteria: regulation of the Pm promoter of the TOL plasmid studied with all controlling elements in monocopy. <i>Molecular Genetics and Genomics</i> , 1992 , 233, 293-301		237
343	Engineering multiple genomic deletions in Gram-negative bacteria: analysis of the multi-resistant antibiotic profile of Pseudomonas putida KT2440. <i>Environmental Microbiology</i> , 2011 , 13, 2702-16	5.2	231
342	Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples. <i>Analytica Chimica Acta</i> , 1999 , 387, 235-244	6.6	228
341	Engineering a mouse metallothionein on the cell surface of Ralstonia eutropha CH34 for immobilization of heavy metals in soil. <i>Nature Biotechnology</i> , 2000 , 18, 661-5	44.5	226
340	Pseudomonas putida as a functional chassis for industrial biocatalysis: From native biochemistry to trans-metabolism. <i>Metabolic Engineering</i> , 2018 , 50, 142-155	9.7	203
339	The revisited genome of Pseudomonas putida KT2440 enlightens its value as a robust metabolic chassis. <i>Environmental Microbiology</i> , 2016 , 18, 3403-3424	5.2	194
338	Pseudomonas putida KT2440 Strain Metabolizes Glucose through a Cycle Formed by Enzymes of the Entner-Doudoroff, Embden-Meyerhof-Parnas, and Pentose Phosphate Pathways. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25920-32	5.4	192
337	Systems biology approaches to bioremediation. <i>Current Opinion in Biotechnology</i> , 2008 , 19, 579-89	11.4	184
336	Transcriptional tradeoff between metabolic and stress-response programs in Pseudomonas putida KT2440 cells exposed to toluene. <i>Journal of Biological Chemistry</i> , 2006 , 281, 11981-91	5.4	181
335	Promoters in the environment: transcriptional regulation in its natural context. <i>Nature Reviews Microbiology</i> , 2005 , 3, 105-18	22.2	171
334	Heavy metal tolerance and metal homeostasis in Pseudomonas putida as revealed by complete genome analysis. <i>Environmental Microbiology</i> , 2003 , 5, 1242-56	5.2	168

333	Bioremediation 3.0: Engineering pollutant-removing bacteria in the times of systemic biology. <i>Biotechnology Advances</i> , 2017 , 35, 845-866	17.8	165
332	Metal ion regulation of gene expression. Fur repressor-operator interaction at the promoter region of the aerobactin system of pColV-K30. <i>Journal of Molecular Biology</i> , 1988 , 203, 875-84	6.5	164
331	Clues and consequences of DNA bending in transcription. <i>Annual Review of Microbiology</i> , 1997 , 51, 593-625	6.25	162
330	Pseudomonas 2.0: genetic upgrading of P. putida KT2440 as an enhanced host for heterologous gene expression. <i>Microbial Cell Factories</i> , 2014 , 13, 159	6.4	152
329	From dirt to industrial applications: Pseudomonas putida as a Synthetic Biology chassis for hosting harsh biochemical reactions. <i>Current Opinion in Chemical Biology</i> , 2016 , 34, 20-29	9.7	151
328	SEVA 2.0: an update of the Standard European Vector Architecture for de-/re-construction of bacterial functionalities. <i>Nucleic Acids Research</i> , 2015 , 43, D1183-9	20.1	146
327	Transcription regulation and environmental adaptation in bacteria. <i>Trends in Microbiology</i> , 2003 , 11, 248-54	5.4	145
326	Binding of the fur (ferric uptake regulator) repressor of Escherichia coli to arrays of the GATAAT sequence. <i>Journal of Molecular Biology</i> , 1998 , 283, 537-47	6.5	144
325	Enhanced metalloadsorption of bacterial cells displaying poly-His peptides. <i>Nature Biotechnology</i> , 1996 , 14, 1017-20	44.5	143
324	The Entner-Doudoroff pathway empowers Pseudomonas putida KT2440 with a high tolerance to oxidative stress. <i>Environmental Microbiology</i> , 2013 , 15, 1772-85	5.2	142
323	Genetically modified organisms for the environment: stories of success and failure and what we have learned from them. <i>International Microbiology</i> , 2005 , 8, 213-22	3	140
322	Production of functional single-chain Fv antibodies in the cytoplasm of Escherichia coli. <i>Journal of Molecular Biology</i> , 2002 , 320, 1-10	6.5	134
321	Activation of the transcriptional regulator XylR of Pseudomonas putida by release of repression between functional domains. <i>Molecular Microbiology</i> , 1995 , 16, 205-13	4.1	127
320	Synthetic biology: discovering new worlds and new words. <i>EMBO Reports</i> , 2008 , 9, 822-7	6.5	126
319	Transcriptional regulators à la carte: engineering new effector specificities in bacterial regulatory proteins. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 34-42	11.4	121
318	Growth phase-dependent expression of the Pseudomonas putida KT2440 transcriptional machinery analysed with a genome-wide DNA microarray. <i>Environmental Microbiology</i> , 2006 , 8, 165-77	5.2	120
317	Metalloadsorption by Escherichia coli cells displaying yeast and mammalian metallothioneins anchored to the outer membrane protein LamB. <i>Journal of Bacteriology</i> , 1998 , 180, 2280-4	3.5	118
316	pBAM1: an all-synthetic genetic tool for analysis and construction of complex bacterial phenotypes. <i>BMC Microbiology</i> , 2011 , 11, 38	4.5	111

315	Genome reduction boosts heterologous gene expression in <i>Pseudomonas putida</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 23	6.4	108
314	Export of autotransported proteins proceeds through an oligomeric ring shaped by C-terminal domains. <i>EMBO Journal</i> , 2002 , 21, 2122-31	13	107
313	Functional analysis of PvdS, an iron starvation sigma factor of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 1481-91	3.5	107
312	Engineering of alkyl- and haloaromatic-responsive gene expression with mini-transposons containing regulated promoters of biodegradative pathways of <i>Pseudomonas</i> . <i>Gene</i> , 1993 , 130, 41-6	3.8	101
311	The metabolic cost of flagellar motion in <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2014 , 16, 291-303	5.2	97
310	Modulation of gene expression through chromosomal positioning in <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 1997 , 143 (Pt 6), 2071-2078	2.9	97
309	Exploring the microbial biodegradation and biotransformation gene pool. <i>Trends in Biotechnology</i> , 2005 , 23, 497-506	15.1	97
308	Tn7-Based Device for Calibrated Heterologous Gene Expression in <i>Pseudomonas putida</i> . <i>ACS Synthetic Biology</i> , 2015 , 4, 1341-51	5.7	94
307	Plastic waste as a novel substrate for industrial biotechnology. <i>Microbial Biotechnology</i> , 2015 , 8, 900-3	6.3	93
306	The IANtr (PtsN) protein of <i>Pseudomonas putida</i> mediates the C source inhibition of the sigma54-dependent Pu promoter of the TOL plasmid. <i>Journal of Biological Chemistry</i> , 1999 , 274, 15562-8 ^{5.4}		90
305	Exacerbation of substrate toxicity by IPTG in <i>Escherichia coli</i> BL21(DE3) carrying a synthetic metabolic pathway. <i>Microbial Cell Factories</i> , 2015 , 14, 201	6.4	88
304	Noise and robustness in prokaryotic regulatory networks. <i>Annual Review of Microbiology</i> , 2010 , 64, 257-75 ^{7.5}		88
303	ATP binding to the sigma 54-dependent activator XylR triggers a protein multimerization cycle catalyzed by UAS DNA. <i>Cell</i> , 1996 , 86, 331-9	56.2	88
302	Resistance to tellurite as a selection marker for genetic manipulations of <i>Pseudomonas</i> strains. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 4040-6	4.8	87
301	Involvement of sigma 54 in exponential silencing of the <i>Pseudomonas putida</i> TOL plasmid Pu promoter. <i>Molecular Microbiology</i> , 1996 , 19, 7-17	4.1	86
300	Regulatory noise in prokaryotic promoters: how bacteria learn to respond to novel environmental signals. <i>Molecular Microbiology</i> , 1996 , 19, 1177-84	4.1	86
299	Effector specificity mutants of the transcriptional activator NahR of naphthalene degrading <i>Pseudomonas</i> define protein sites involved in binding of aromatic inducers. <i>Journal of Biological Chemistry</i> , 1997 , 272, 3986-92	5.4	81
298	Isolation and characterization of microcin E492 from <i>Klebsiella pneumoniae</i> . <i>Archives of Microbiology</i> , 1984 , 139, 72-5	3	80

297	CRISPR/Cas9-Based Counterselection Boosts Recombineering Efficiency in <i>Pseudomonas putida</i> . <i>Biotechnology Journal</i> , 2018 , 13, e1700161	5.6	78
296	Structural tolerance of bacterial autotransporters for folded passenger protein domains. <i>Molecular Microbiology</i> , 2004 , 52, 1069-80	4.1	78
295	Engineering of a stable whole-cell biocatalyst capable of (S)-styrene oxide formation for continuous two-liquid-phase applications. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 5619-23	4.8	78
294	In vitro activities of an N-terminal truncated form of XylR, a sigma 54-dependent transcriptional activator of <i>Pseudomonas putida</i> . <i>Journal of Molecular Biology</i> , 1996 , 258, 575-87	6.5	78
293	Volatilization of arsenic from polluted soil by <i>Pseudomonas putida</i> engineered for expression of the arsM Arsenic(III) S-adenosine methyltransferase gene. <i>Environmental Science & Technology</i> , 2014 , 48, 10337-44	10.3	76
292	Genetic programming of catalytic <i>Pseudomonas putida</i> biofilms for boosting biodegradation of haloalkanes. <i>Metabolic Engineering</i> , 2016 , 33, 109-118	9.7	75
291	Metabolic and regulatory rearrangements underlying glycerol metabolism in <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2014 , 16, 239-54	5.2	75
290	Probing secretion and translocation of a beta-autotransporter using a reporter single-chain Fv as a cognate passenger domain. <i>Molecular Microbiology</i> , 1999 , 33, 1232-43	4.1	74
289	Engineering an anaerobic metabolic regime in <i>Pseudomonas putida</i> KT2440 for the anoxic biodegradation of 1,3-dichloroprop-1-ene. <i>Metabolic Engineering</i> , 2013 , 15, 98-112	9.7	73
288	Synthetic constructs in/for the environment: managing the interplay between natural and engineered Biology. <i>FEBS Letters</i> , 2012 , 586, 2199-206	3.8	71
287	Metabolic engineering of bacteria for environmental applications: construction of <i>Pseudomonas</i> strains for biodegradation of 2-chlorotoluene. <i>Journal of Biotechnology</i> , 2001 , 85, 103-13	3.7	71
286	Transposon-based and plasmid-based genetic tools for editing genomes of gram-negative bacteria. <i>Methods in Molecular Biology</i> , 2012 , 813, 267-83	1.4	70
285	Tracing explosives in soil with transcriptional regulators of <i>Pseudomonas putida</i> evolved for responding to nitrotoluenes. <i>Microbial Biotechnology</i> , 2008 , 1, 236-46	6.3	70
284	A la carte transcriptional regulators: unlocking responses of the prokaryotic enhancer-binding protein XylR to non-natural effectors. <i>Molecular Microbiology</i> , 2001 , 42, 47-59	4.1	70
283	The phosphotransferase system formed by PtsP, PtsO, and PtsN proteins controls production of polyhydroxyalkanoates in <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2007 , 189, 4529-33	3.5	70
282	Engineering outer-membrane proteins in <i>Pseudomonas putida</i> for enhanced heavy-metal bioadsorption. <i>Journal of Inorganic Biochemistry</i> , 2000 , 79, 219-23	4.2	70
281	Engineering the soil bacterium <i>Pseudomonas putida</i> for arsenic methylation. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4493-5	4.8	68
280	Metalloregulation in vitro of the aerobactin promoter of <i>Escherichia coli</i> by the Fur (ferric uptake regulation) protein. <i>Molecular Microbiology</i> , 1997 , 26, 799-808	4.1	68

279	Regulatory tasks of the phosphoenolpyruvate-phosphotransferase system of <i>Pseudomonas putida</i> in central carbon metabolism. <i>MBio</i> , 2012 , 3,	7.8	67
278	Thioredoxin fusions increase folding of single chain Fv antibodies in the cytoplasm of <i>Escherichia coli</i> : evidence that chaperone activity is the prime effect of thioredoxin. <i>Journal of Molecular Biology</i> , 2006 , 357, 49-61	6.5	67
277	Transcriptomic fingerprinting of <i>Pseudomonas putida</i> under alternative physiological regimes. <i>Environmental Microbiology Reports</i> , 2013 , 5, 883-91	3.7	66
276	Stable implantation of orthogonal sensor circuits in Gram-negative bacteria for environmental release. <i>Environmental Microbiology</i> , 2008 , 10, 3305-16	5.2	66
275	Mining logic gates in prokaryotic transcriptional regulation networks. <i>FEBS Letters</i> , 2008 , 582, 1237-44	3.8	66
274	Specific secretion of active single-chain Fv antibodies into the supernatants of <i>Escherichia coli</i> cultures by use of the hemolysin system. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 5024-9	4.8	65
273	An <i>Escherichia coli</i> hemolysin transport system-based vector for the export of polypeptides: export of Shiga-like toxin IIeB subunit by <i>Salmonella typhimurium aroA</i> . <i>Nature Biotechnology</i> , 1996 , 14, 765-9	44.5	65
272	New transposon tools tailored for metabolic engineering of gram-negative microbial cell factories. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014 , 2, 46	5.8	64
271	Surveying biotransformations with λ carte genetic traps: translating dehydrochlorination of lindane (gamma-hexachlorocyclohexane) into lacZ-based phenotypes. <i>Environmental Microbiology</i> , 2006 , 8, 546-55	5.2	64
270	Universal barrier to lateral spread of specific genes among microorganisms. <i>Molecular Microbiology</i> , 1994 , 13, 855-61	4.1	64
269	The role of thiol species in the hypertolerance of <i>Aspergillus</i> sp. P37 to arsenic. <i>Journal of Biological Chemistry</i> , 2004 , 279, 51234-40	5.4	59
268	The sigma54 regulon (sigmulon) of <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2003 , 5, 1281-93	5.2	59
267	Adaptation of the yeast URA3 selection system to gram-negative bacteria and generation of a Δ betCDE <i>Pseudomonas putida</i> strain. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 883-92	4.8	59
266	The behavior of bacteria designed for biodegradation. <i>Nature Biotechnology</i> , 1994 , 12, 1349-56	44.5	58
265	The power of synthetic biology for bioproduction, remediation and pollution control: The UN Sustainable Development Goals will inevitably require the application of molecular biology and biotechnology on a global scale. <i>EMBO Reports</i> , 2018 , 19,	6.5	56
264	Accumulation of inorganic polyphosphate enables stress endurance and catalytic vigour in <i>Pseudomonas putida</i> KT2440. <i>Microbial Cell Factories</i> , 2013 , 12, 50	6.4	56
263	The organization of the microbial biodegradation network from a systems-biology perspective. <i>EMBO Reports</i> , 2003 , 4, 994-9	6.5	56
262	Composition of microbial communities in hexachlorocyclohexane (HCH) contaminated soils from Spain revealed with a habitat-specific microarray. <i>Environmental Microbiology</i> , 2006 , 8, 126-40	5.2	54

261	In vivo and in vitro effects of (p)ppGpp on the sigma(54) promoter Pu of the TOL plasmid of <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 4711-8	3.5	54
260	Emergence of novel functions in transcriptional regulators by regression to stem protein types. <i>Molecular Microbiology</i> , 2007 , 65, 907-19	4.1	53
259	The private life of environmental bacteria: pollutant biodegradation at the single cell level. <i>Environmental Microbiology</i> , 2014 , 16, 628-42	5.2	52
258	Freeing <i>Pseudomonas putida</i> KT2440 of its proviral load strengthens endurance to environmental stresses. <i>Environmental Microbiology</i> , 2015 , 17, 76-90	5.2	52
257	Beware of metaphors: chasses and orthogonality in synthetic biology. <i>Bioengineered Bugs</i> , 2011 , 2, 3-7		52
256	Distribution and phylogeny of hexachlorocyclohexane-degrading bacteria in soils from Spain. <i>Environmental Microbiology</i> , 2006 , 8, 60-8	5.2	52
255	MetaRouter: bioinformatics for bioremediation. <i>Nucleic Acids Research</i> , 2005 , 33, D588-92	20.1	52
254	Refactoring the upper sugar metabolism of <i>Pseudomonas putida</i> for co-utilization of cellobiose, xylose, and glucose. <i>Metabolic Engineering</i> , 2018 , 48, 94-108	9.7	52
253	Endogenous stress caused by faulty oxidation reactions fosters evolution of 2,4-dinitrotoluene-degrading bacteria. <i>PLoS Genetics</i> , 2013 , 9, e1003764	6	51
252	In vivo UV laser footprinting of the <i>Pseudomonas putida</i> sigma 54Pu promoter reveals that integration host factor couples transcriptional activity to growth phase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 2169-75	5.4	51
251	Engineering of quasi-natural <i>Pseudomonas putida</i> strains for toluene metabolism through an ortho-cleavage degradation pathway. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 748-51	4.8	51
250	From the selfish gene to selfish metabolism: revisiting the central dogma. <i>BioEssays</i> , 2014 , 36, 226-35	4.1	50
249	The glycerol-dependent metabolic persistence of <i>Pseudomonas putida</i> KT2440 reflects the regulatory logic of the GlpR repressor. <i>MBio</i> , 2015 , 6,	7.8	49
248	The Ssr protein (T1E_1405) from <i>Pseudomonas putida</i> DOT-T1E enables oligonucleotide-based recombineering in platform strain <i>P. putida</i> EM42. <i>Biotechnology Journal</i> , 2016 , 11, 1309-1319	5.6	49
247	Chemical reactivity drives spatiotemporal organisation of bacterial metabolism. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 96-119	15.1	49
246	Synthetic bugs on the loose: containment options for deeply engineered (micro)organisms. <i>Current Opinion in Biotechnology</i> , 2016 , 38, 90-6	11.4	48
245	Robustness of <i>Pseudomonas putida</i> KT2440 as a host for ethanol biosynthesis. <i>New Biotechnology</i> , 2014 , 31, 562-71	6.4	48
244	Bioaccumulation of heavy metals with protein fusions of metallothionein to bacterial OMPs. <i>Biochimie</i> , 1998 , 80, 855-61	4.6	48

243	Evidence of an unusually long operator for the fur repressor in the aerobactin promoter of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000 , 275, 24709-14	5.4	48
242	SEVA 3.0: an update of the Standard European Vector Architecture for enabling portability of genetic constructs among diverse bacterial hosts. <i>Nucleic Acids Research</i> , 2020 , 48, D1164-D1170	20.1	47
241	A Post-translational Metabolic Switch Enables Complete Decoupling of Bacterial Growth from Biopolymer Production in Engineered <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2018 , 7, 2686-2697	5.7	47
240	Molecular tools and emerging strategies for deep genetic/genomic refactoring of <i>Pseudomonas</i> . <i>Current Opinion in Biotechnology</i> , 2017 , 47, 120-132	11.4	46
239	Novel physiological modulation of the Pu promoter of TOL plasmid: negative regulatory role of the TurA protein of <i>Pseudomonas putida</i> in the response to suboptimal growth temperatures. <i>Journal of Biological Chemistry</i> , 2004 , 279, 7777-84	5.4	45
238	Evidence of multiple regulatory functions for the PtsN (IIA(Ntr)) protein of <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2001 , 183, 1032-7	3.5	45
237	Random and cyclical deletion of large DNA segments in the genome of <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2012 , 14, 1444-53	5.2	44
236	Why are chlorinated pollutants so difficult to degrade aerobically? Redox stress limits 1,3-dichloroprop-1-ene metabolism by <i>Pseudomonas pavonaceae</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120377	5.8	44
235	Implantation of unmarked regulatory and metabolic modules in Gram-negative bacteria with specialised mini-transposon delivery vectors. <i>Journal of Biotechnology</i> , 2013 , 163, 143-54	3.7	44
234	Engineering input/output nodes in prokaryotic regulatory circuits. <i>FEMS Microbiology Reviews</i> , 2010 , 34, 842-65	15.1	44
233	Myriads of protein families, and still counting. <i>Genome Biology</i> , 2003 , 4, 401	18.3	44
232	Genetic evidence that catabolites of the Entner-Doudoroff pathway signal C source repression of the sigma54 Pu promoter of <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2004 , 186, 8267-75	3.5	43
231	Identification of a cis-acting sequence within the Pm promoter of the TOL plasmid which confers XylS-mediated responsiveness to substituted benzoates. <i>Journal of Molecular Biology</i> , 1993 , 230, 699-703	6.5	43
230	The ten grand challenges of synthetic life. <i>Systems and Synthetic Biology</i> , 2011 , 5, 1-9		42
229	Role of ptsO in carbon-mediated inhibition of the Pu promoter belonging to the pWW0 <i>Pseudomonas putida</i> plasmid. <i>Journal of Bacteriology</i> , 2001 , 183, 5128-33	3.5	42
228	Designing microbial systems for gene expression in the field. <i>Trends in Biotechnology</i> , 1994 , 12, 365-71	15.1	42
227	Physical and functional analysis of the prokaryotic enhancer of the sigma 54-promoters of the TOL plasmid of <i>Pseudomonas putida</i> . <i>Journal of Molecular Biology</i> , 1996 , 258, 562-74	6.5	40
226	The Metabolic Redox Regime of <i>Pseudomonas putida</i> Tunes Its Evolvability toward Novel Xenobiotic Substrates. <i>MBio</i> , 2018 , 9,	7.8	40

225	Refactoring the Embden-Meyerhof-Parnas Pathway as a Whole of Portable GlucoBricks for Implantation of Glycolytic Modules in Gram-Negative Bacteria. <i>ACS Synthetic Biology</i> , 2017 , 6, 793-805	5.7	39
224	Functional domains of the TOL plasmid transcription factor XylS. <i>Journal of Bacteriology</i> , 2000 , 182, 1118-36	3.6	39
223	Functional coexistence of twin arsenic resistance systems in <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2015 , 17, 229-38	5.2	38
222	The environmental fate of organic pollutants through the global microbial metabolism. <i>Molecular Systems Biology</i> , 2007 , 3, 114	12.2	38
221	Autotransporters as scaffolds for novel bacterial adhesins: surface properties of <i>Escherichia coli</i> cells displaying Jun/Fos dimerization domains. <i>Journal of Bacteriology</i> , 2003 , 185, 5585-90	3.5	38
220	Testing the limits of biological tolerance to arsenic in a fungus isolated from the River Tinto. <i>Environmental Microbiology</i> , 2003 , 5, 133-8	5.2	38
219	The quest for the minimal bacterial genome. <i>Current Opinion in Biotechnology</i> , 2016 , 42, 216-224	11.4	37
218	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. <i>Molecular Microbiology</i> , 1998 , 27, 651-9	4.1	37
217	The regulatory logic of m-xylene biodegradation by <i>Pseudomonas putida</i> mt-2 exposed by dynamic modelling of the principal node Ps/Pr of the TOL plasmid. <i>Environmental Microbiology</i> , 2010 , 12, 1705-18	5.2	36
216	Formation of disulphide bonds during secretion of proteins through the periplasmic-independent type I pathway. <i>Molecular Microbiology</i> , 2001 , 40, 332-46	4.1	36
215	The role of the interdomain B linker in the activation of the XylR protein of <i>Pseudomonas putida</i> . <i>Molecular Microbiology</i> , 2000 , 38, 401-10	4.1	36
214	Genetic evidence of distinct physiological regulation mechanisms in the sigma(54) Pu promoter of <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 956-60	3.5	36
213	Evidence of in vivo cross talk between the nitrogen-related and fructose-related branches of the carbohydrate phosphotransferase system of <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 3374-80	3.5	35
212	Involvement of the FtsH (HflB) protease in the activity of sigma 54 promoters. <i>Molecular Microbiology</i> , 1999 , 31, 261-70	4.1	35
211	Environmental biosafety in the age of synthetic biology: do we really need a radical new approach? Environmental fates of microorganisms bearing synthetic genomes could be predicted from previous data on traditionally engineered bacteria for in situ bioremediation. <i>BioEssays</i> , 2010 , 32, 926-31	4.1	34
210	The m-xylene biodegradation capacity of <i>Pseudomonas putida</i> mt-2 is submitted to adaptation to abiotic stresses: evidence from expression profiling of xyl genes. <i>Environmental Microbiology</i> , 2006 , 8, 591-602	5.2	34
209	Monitoring intracellular levels of XylR in <i>Pseudomonas putida</i> with a single-chain antibody specific for aromatic-responsive enhancer-binding proteins. <i>Journal of Bacteriology</i> , 2001 , 183, 5571-9	3.5	34
208	The ancestral role of the phosphoenolpyruvate-carbohydrate phosphotransferase system (PTS) as exposed by comparative genomics. <i>Research in Microbiology</i> , 2007 , 158, 666-70	4	33

207	Getting out: protein traffic in prokaryotes. <i>Molecular Microbiology</i> , 2004 , 52, 3-11	4.1	33
206	A T7 RNA polymerase-based system for the construction of <i>Pseudomonas</i> strains with phenotypes dependent on TOL-meta pathway effectors. <i>Gene</i> , 1993 , 134, 103-6	3.8	33
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