V ctor de Lorenzo

List of Publications by Year in Descending Order

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	Versioning biological cells for trustworthy cell engineering.. *Nature Communications*, **2022**, 13, 765	17.4	1
349	15 years of microbial biotechnology: the time has come to think big-and act soon.. *Microbial Biotechnology*, **2022**, 15, 240-246	6.3	
348	High-Efficiency Multi-site Genomic Editing (HEMSE) Made Easy.. *Methods in Molecular Biology*, **2022**, 2479, 37-52	1.4	
347	Genome-wide protein–DNA interaction site mapping in bacteria using a double-stranded DNA-specific cytosine deaminase. *Nature Microbiology*, **2022**, 7, 844-855	26.6	0
346	ssDNA recombineering boosts in vivo evolution of nanobodies displayed on bacterial surfaces. *Communications Biology*, **2021**, 4, 1169	6.7	0
345	Targetron-Assisted Delivery of Exogenous DNA Sequences into through CRISPR-Aided Counterselection. *ACS Synthetic Biology*, **2021**, 10, 2552-2565	5.7	2
344	An automated DIY framework for experimental evolution of Pseudomonas putida. *Microbial Biotechnology*, **2021**, 14, 2679-2685	6.3	2
343	Refactoring the Conjugation Machinery of Promiscuous Plasmid RP4 into a Device for Conversion of Gram-Negative Isolates to Hfr Strains. *ACS Synthetic Biology*, **2021**, 10, 690-697	5.7	0
342	Transcriptional control of 2,4-dinitrotoluene degradation in Burkholderia sp. R34 bears a regulatory patch that eases pathway evolution. *Environmental Microbiology*, **2021**, 23, 2522-2531	5.2	2
341	Metabolic Engineering for Large-Scale Environmental Bioremediation **2021**, 859-890		0
340	Identification of a self-sufficient cytochrome P450 monooxygenase from Cupriavidus pinatubonensis JMP134 involved in 2-hydroxyphenylacetic acid catabolism, via homogentisate pathway. *Microbial Biotechnology*, **2021**, 14, 1944-1960	6.3	1
339	An updated structural model of the A domain of the Pseudomonas putida XylR regulator poses an atypical interplay with aromatic effectors. *Environmental Microbiology*, **2021**, 23, 4418-4433	5.2	0
338	Picking the right metaphors for addressing microbial systems: economic theory helps understanding biological complexity. *International Microbiology*, **2021**, 24, 507-519	3	0
337	For the sake of the Bioeconomy: define what a Synthetic Biology Chassis is!. *New Biotechnology*, **2021**, 60, 44-51	6.4	19
336	Quantitative assessment of morphological traits of planktonic bacterial aggregates. *Water Research*, **2021**, 188, 116468	12.5	0
335	A Standardized Inverter Package Borne by Broad Host Range Plasmids for Genetic Circuit Design in Gram-Negative Bacteria. *ACS Synthetic Biology*, **2021**, 10, 213-217	5.7	3
334	Ribonucleases control distinct traits of Pseudomonas putida lifestyle. *Environmental Microbiology*, **2021**, 23, 174-189	5.2	2

333	Reconfiguration of metabolic fluxes in Pseudomonas putida as a response to sub-lethal oxidative stress. *ISME Journal*, **2021**, 15, 1751-1766	11.9	26
332	Low CyaA expression and anti-cooperative binding of cAMP to CRP frames the scope of the cognate regulon of Pseudomonas putida. *Environmental Microbiology*, **2021**, 23, 1732-1749	5.2	1
331	Subcellular Architecture of the Gene Expression Flow of the TOL Catabolic Plasmid of Pseudomonas putida mt-2. *MBio*, **2021**, 12,	7.8	1
330	A Bifan Motif Shaped by ArsR1, ArsR2, and Their Cognate Promoters Frames Arsenic Tolerance of. *Frontiers in Microbiology*, **2021**, 12, 641440	5.7	0
329	Engineering Tropism of toward Target Surfaces through Ectopic Display of Recombinant Nanobodies. *ACS Synthetic Biology*, **2021**, 10, 2049-2059	5.7	1
328	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. *Environmental Sciences Europe*, **2021**, 33, 99	5	10
327	Automated design and implementation of a NOR gate in Pseudomonas putida. *Synthetic Biology*, **2021**, 6, ysab024	3.3	3
326	The faulty SOS response of Pseudomonas putida KT2440 stems from an inefficient RecA-LexA interplay. *Environmental Microbiology*, **2021**, 23, 1608-1619	5.2	
325	Contextual dependencies expand the re-usability of genetic inverters. *Nature Communications*, **2021**, 12, 355	17.4	11
324	In vivo diversification of target genomic sites using processive base deaminase fusions blocked by dCas9. *Nature Communications*, **2020**, 11, 6436	17.4	15
323	Biotransformation of d-xylose to d-xylonate coupled to medium-chain-length polyhydroxyalkanoate production in cellobiose-grown Pseudomonas putida EM42. *Microbial Biotechnology*, **2020**, 13, 1273-1283	6.3	9
322	Exploiting geometric similarity for statistical quantification of fluorescence spatial patterns in bacterial colonies. *BMC Bioinformatics*, **2020**, 21, 224	3.6	
321	The Wsp intermembrane complex mediates metabolic control of the swim-attach decision of Pseudomonas putida. *Environmental Microbiology*, **2020**, 22, 3535-3547	5.2	5
320	High-Efficiency Multi-site Genomic Editing of Pseudomonas putida through Thermoinducible ssDNA Recombineering. *IScience*, **2020**, 23, 100946	6.1	20
319	ArsH protects Pseudomonas putida from oxidative damage caused by exposure to arsenic. *Environmental Microbiology*, **2020**, 22, 2230-2242	5.2	6
318	Multifunctional SEVA shuttle vectors for actinomycetes and Gram-negative bacteria. *MicrobiologyOpen*, **2020**, 9, 1135-1149	3.4	5
317	Environmental Performance of Pseudomonas putida with a Uracylated Genome. *ChemBioChem*, **2020**, 21, 3255-3265	3.8	1
316	Synthetic Biology for Terraformation Lessons from Mars, Earth, and the Microbiome. *Life*, **2020**, 10,	3	13

315	Linking Engineered Cells to Their Digital Twins: A Version Control System for Strain Engineering. *ACS Synthetic Biology*, **2020**, 9, 536-545	5.7	13
314	The long journey towards standards for engineering biosystems: Are the Molecular Biology and the Biotech communities ready to standardise?. *EMBO Reports*, **2020**, 21, e50521	6.5	23
313	A SsrA/NIa-based Strategy for Post-Translational Regulation of Protein Levels in Gram-negative Bacteria. *Bio-protocol*, **2020**, 10, e3688	0.9	
312	A Broad Host Range Plasmid-Based Roadmap for ssDNA-Based Recombineering in Gram-Negative Bacteria. *Methods in Molecular Biology*, **2020**, 2075, 383-398	1.4	8
311	Mismatch repair hierarchy of Pseudomonas putida revealed by mutagenic ssDNA recombineering of the pyrF gene. *Environmental Microbiology*, **2020**, 22, 45-58	5.2	12
310	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	20.1	47
309	Multiple-Site Diversification of Regulatory Sequences Enables Interspecies Operability of Genetic Devices. *ACS Synthetic Biology*, **2020**, 9, 104-114	5.7	8
308	SEVA 3.1: enabling interoperability of DNA assembly among the SEVA, BioBricks and Type IIS restriction enzyme standards. *Microbial Biotechnology*, **2020**, 13, 1793-1806	6.3	10
307	Naked Bacterium: Emerging Properties of a Surfome-Streamlined Strain. *ACS Synthetic Biology*, **2020**, 9, 2477-2492	5.7	9
306	Surface Display of Designer Protein Scaffolds on Genome-Reduced Strains of. *ACS Synthetic Biology* , **2020**, 9, 2749-2764	5.7	6
305	Gross transcriptomic analysis of Pseudomonas putida for diagnosing environmental shifts. *Microbial Biotechnology*, **2020**, 13, 263-273	6.3	4
304	Spatial organization of the gene expression hardware in Pseudomonas putida. *Environmental Microbiology*, **2019**, 21, 1645-1658	5.2	7
303	Genomic Responses of Pseudomonas putida to Aromatic Hydrocarbons **2019**, 1-15		
302	Functional implementation of a linear glycolysis for sugar catabolism in Pseudomonas putida. *Metabolic Engineering*, **2019**, 54, 200-211	9.7	31
301	Pseudomonas putida in the quest of programmable chemistry. *Current Opinion in Biotechnology*, **2019**, 59, 111-121	11.4	24
300	Recombination-Independent Genome Editing through CRISPR/Cas9-Enhanced TargeTron Delivery. *ACS Synthetic Biology*, **2019**, 8, 2186-2193	5.7	9
299	Reverse Engineering of an Aspirin-Responsive Transcriptional Regulator in. *ACS Synthetic Biology*, **2019**, 8, 1890-1900	5.7	3
298	CRISPR/Cas9-enhanced ssDNA recombineering for Pseudomonas putida. *Microbial Biotechnology*, **2019**, 12, 1076-1089	6.3	20

297	Digitalizing heterologous gene expression in Gram-negative bacteria with a portable ON/OFF module. *Molecular Systems Biology*, **2019**, 15, e8777	12.2	17
296	Genomic Responses of Pseudomonas putida to Aromatic Hydrocarbons **2019**, 287-301		
295	Assembly of a Custom-made Device to Study SpreadingPatterns of Biofilms. *Bio-protocol*, **2019**, 9, e3238	0.9	
294	Biodegradation and Bioremediation: An Introduction **2019**, 1-20		
293	Improved Thermotolerance of Genome-Reduced Pseudomonas putida EM42 Enables Effective Functioning of the P /cI857 System. *Biotechnology Journal*, **2019**, 14, e1800483	5.6	16
292	The important versus the exciting: reining contradictions in contemporary biotechnology. *Microbial Biotechnology*, **2019**, 12, 32-34	6.3	9
291	Evolving metabolism of 2,4-dinitrotoluene triggers SOS-independent diversification of host cells. *Environmental Microbiology*, **2019**, 21, 314-326	5.2	10
290	Assessing Carbon Source-Dependent Phenotypic Variability in Pseudomonas putida. *Methods in Molecular Biology*, **2018**, 1745, 287-301	1.4	4
289	Environmental microbiology to the rescue of planet earth. *Environmental Microbiology*, **2018**, 20, 1910-1916	5.2	4
288	The power of synthetic biology for bioproduction, remediation and pollution control: The UNQ Sustainable Development Goals will inevitably require the application of molecular biology and biotechnology on a global scale. *EMBO Reports*, **2018**, 19,	6.5	56
287	Biological standards for the Knowledge-Based BioEconomy: What is at stake. *New Biotechnology*, **2018**, 40, 170-180	6.4	30
286	CRISPR/Cas9-Based Counterselection Boosts Recombineering Efficiency in Pseudomonas putida. *Biotechnology Journal*, **2018**, 13, e1700161	5.6	78
285	Modulating Heterologous Gene Expression with Portable mRNA-Stabilizing 5QUTR Sequences. *ACS Synthetic Biology*, **2018**, 7, 2177-2188	5.7	13
284	Biodegradation and Bioremediation: An Introduction **2018**, 1-21		1
283	Re-Factoring Glycolytic Genes for Targeted Engineering of Catabolism in Gram-Negative Bacteria. *Methods in Molecular Biology*, **2018**, 1772, 3-24	1.4	2
282	Evolutionary tinkering vs. rational engineering in the times of synthetic biology. *Life Sciences, Society and Policy*, **2018**, 14, 18	3.2	3
281	Dynamics of Pseudomonas putida biofilms in an upscale experimental framework. *Journal of Industrial Microbiology and Biotechnology*, **2018**, 45, 899-911	4.2	5
280	The biofilm matrix polysaccharides cellulose and alginate both protect Pseudomonas putida mt-2 against reactive oxygen species generated under matric stress and copper exposure. *Microbiology (United Kingdom)*, **2018**, 164, 883-888	2.9	25

279	A standardized workflow for surveying recombinases expands bacterial genome-editing capabilities.	*Microbial Biotechnology*, **2018**, 11, 176-188	6.3	29
278	A Post-translational Metabolic Switch Enables Complete Decoupling of Bacterial Growth from Biopolymer Production in Engineered Escherichia coli.	*ACS Synthetic Biology*, **2018**, 7, 2686-2697	5.7	47
277	The interplay of EIIA with C-source regulation of the Pu promoter of Pseudomonas putida mt-2.	*Environmental Microbiology*, **2018**, 20, 4555-4566	5.2	2
276	The Metabolic Redox Regime of Pseudomonas putida Tunes Its Evolvability toward Novel Xenobiotic Substrates.	*MBio*, **2018**, 9,	7.8	40
275	Pseudomonas putida as a functional chassis for industrial biocatalysis: From native biochemistry to trans-metabolism.	*Metabolic Engineering*, **2018**, 50, 142-155	9.7	203
274	Refactoring the upper sugar metabolism of Pseudomonas putida for co-utilization of cellobiose, xylose, and glucose.	*Metabolic Engineering*, **2018**, 48, 94-108	9.7	52
273	An Engineered Device for Indoleacetic Acid Production under Quorum Sensing Signals Enables Cupriavidus pinatubonensis JMP134 To Stimulate Plant Growth.	*ACS Synthetic Biology*, **2018**, 7, 1519-1527	5.7	11
272	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	5.7	39
271	Deconvolution of Gene Expression Noise into Spatial Dynamics of Transcription Factor-Promoter Interplay.	*ACS Synthetic Biology*, **2017**, 6, 1359-1369	5.7	27
270	Molecular tools and emerging strategies for deep genetic/genomic refactoring of Pseudomonas.	*Current Opinion in Biotechnology*, **2017**, 47, 120-132	11.4	46
269	Synthetic microbiology: from analogy to methodology.	*Microbial Biotechnology*, **2017**, 10, 1264-1266	6.3	5
268	Bioremediation 3.0: Engineering pollutant-removing bacteria in the times of systemic biology.	*Biotechnology Advances*, **2017**, 35, 845-866	17.8	165
267	CellShape: A user-friendly image analysis tool for quantitative visualization of bacterial cell factories inside.	*Biotechnology Journal*, **2017**, 12, 1600323	5.6	9
266	Engineering Gram-Negative Microbial Cell Factories Using Transposon Vectors.	*Methods in Molecular Biology*, **2017**, 1498, 273-293	1.4	14
265	The quest for the minimal bacterial genome.	*Current Opinion in Biotechnology*, **2016**, 42, 216-224	11.4	37
264	The Ssr protein (T1E_1405) from Pseudomonas putida DOT-T1E enables oligonucleotide-based recombineering in platform strain P. putida EM42.	*Biotechnology Journal*, **2016**, 11, 1309-1319	5.6	49
263	An Implementation-Focused Bio/Algorithmic Workflow for Synthetic Biology.	*ACS Synthetic Biology*, **2016**, 5, 1127-1135	5.7	19
262	The revisited genome of Pseudomonas putida KT2440 enlightens its value as a robust metabolic chassis.	*Environmental Microbiology*, **2016**, 18, 3403-3424	5.2	194

261	Introduction to Systems and Synthetic Biology in Hydrocarbon Microbiology: Applications. *Springer Protocols*, **2016**, 1-8	0.3	
260	High-resolution analysis of the m-xylene/toluene biodegradation subtranscriptome of Pseudomonas putida mt-2. *Environmental Microbiology*, **2016**, 18, 3327-3341	5.2	15
259	Transcription factor levels enable metabolic diversification of single cells of environmental bacteria. *ISME Journal*, **2016**, 10, 1122-33	11.9	11
258	Synthetic bugs on the loose: containment options for deeply engineered (micro)organisms. *Current Opinion in Biotechnology*, **2016**, 38, 90-6	11.4	48
257	Rationally rewiring the connectivity of the XylR/Pu regulatory node of the m-xylene degradation pathway in Pseudomonas putida. *Integrative Biology (United Kingdom)*, **2016**, 8, 571-6	3.7	
256	Data on the standardization of a cyclohexanone-responsive expression system for Gram-negative bacteria. *Data in Brief*, **2016**, 6, 738-44	1.2	10
255	Genetic programming of catalytic Pseudomonas putida biofilms for boosting biodegradation of haloalkanes. *Metabolic Engineering*, **2016**, 33, 109-118	9.7	75
254	Physical Forces Shape Group Identity of Swimming Cells. *Frontiers in Microbiology*, **2016**, 7, 1437	5.7	12
253	The RNA chaperone Hfq enables the environmental stress tolerance super-phenotype of Pseudomonas putida. *Environmental Microbiology*, **2016**, 18, 3309-3326	5.2	20
252	Stenosis triggers spread of helical Pseudomonas biofilms in cylindrical flow systems. *Scientific Reports*, **2016**, 6, 27170	4.9	4
251	A Metabolic Widget Adjusts the Phosphoenolpyruvate-Dependent Fructose Influx in. *MSystems*, **2016**, 1,	7.6	23
250	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	9.7	151
249	Nitrogen regulation of the xyl genes of Pseudomonas putida mt-2 propagates into a significant effect of nitrate on m-xylene mineralization in soil. *Microbial Biotechnology*, **2016**, 9, 814-823	6.3	5
248	Pyridine nucleotide transhydrogenases enable redox balance of Pseudomonas putida during biodegradation of aromatic compounds. *Environmental Microbiology*, **2016**, 18, 3565-3582	5.2	32
247	Bioremediation at a global scale: from the test tube to planet Earth. *Microbial Biotechnology*, **2016**, 9, 618-25	6.3	23
246	Genome reduction boosts heterologous gene expression in Pseudomonas putida. *Microbial Cell Factories*, **2015**, 14, 23	6.4	108
245	Tn7-Based Device for Calibrated Heterologous Gene Expression in Pseudomonas putida. *ACS Synthetic Biology*, **2015**, 4, 1341-51	5.7	94
244	Phenotypic knockouts of selected metabolic pathways by targeting enzymes with camel-derived nanobodies (V(HH)s). *Metabolic Engineering*, **2015**, 30, 40-48	9.7	8

243	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, 25920-32	5.4	192
242	It's the metabolism, stupid!. *Environmental Microbiology Reports*, **2015**, 7, 18-9	3.7	9
241	The glycerol-dependent metabolic persistence of Pseudomonas putida KT2440 reflects the regulatory logic of the GlpR repressor. *MBio*, **2015**, 6,	7.8	49
240	Widening functional boundaries of the σ^{54} promoter Pu of Pseudomonas putida by defeating extant physiological constraints. *Molecular BioSystems*, **2015**, 11, 734-42		4
239	The differential response of the Pben promoter of Pseudomonas putida mt-2 to BenR and XylS prevents metabolic conflicts in m-xylene biodegradation. *Environmental Microbiology*, **2015**, 17, 64-75	5.2	27
238	Chassis organism from Corynebacterium glutamicum: the way towards biotechnological domestication of Corynebacteria. *Biotechnology Journal*, **2015**, 10, 244-5	5.6	8
237	Pseudomonas aeruginosa: the making of a pathogen. *Environmental Microbiology*, **2015**, 17, 1-3	5.2	18
236	Confidence, tolerance, and allowance in biological engineering: the nuts and bolts of living things. *BioEssays*, **2015**, 37, 95-102	4.1	16
235	Systems and Synthetic Biology in Hydrocarbon Microbiology: Tools. *Springer Protocols*, **2015**, 1-7	0.3	1
234	Exacerbation of substrate toxicity by IPTG in Escherichia coli BL21(DE3) carrying a synthetic metabolic pathway. *Microbial Cell Factories*, **2015**, 14, 201	6.4	88
233	Plastic waste as a novel substrate for industrial biotechnology. *Microbial Biotechnology*, **2015**, 8, 900-3	6.3	93
232	Mining Environmental Plasmids for Synthetic Biology Parts and Devices. *Microbiology Spectrum*, **2015**, 3, PLAS-0033-2014	8.9	14
231	Knock-In-Leave-Behind (KILB): Genetic Grafting of Protease-Cleaving Sequences into Permissive Sites of Proteins with a Tn5-Based Transposition System. *Springer Protocols*, **2015**, 71-85	0.3	1
230	Pseudomonas putida mt-2 tolerates reactive oxygen species generated during matric stress by inducing a major oxidative defense response. *BMC Microbiology*, **2015**, 15, 202	4.5	19
229	The two paralogue phoN (phosphinothricin acetyl transferase) genes of Pseudomonas putida encode functionally different proteins. *Environmental Microbiology*, **2015**, 17, 3330-40	5.2	5
228	SEVA 2.0: an update of the Standard European Vector Architecture for de-/re-construction of bacterial functionalities. *Nucleic Acids Research*, **2015**, 43, D1183-9	20.1	146
227	Broadening the SEVA Plasmid Repertoire to Facilitate Genomic Editing of Gram-Negative Bacteria. *Springer Protocols*, **2015**, 9-27	0.3	7
226	Freeing Pseudomonas putida KT2440 of its proviral load strengthens endurance to environmental stresses. *Environmental Microbiology*, **2015**, 17, 76-90	5.2	52

225	Functional coexistence of twin arsenic resistance systems in Pseudomonas putida KT2440. *Environmental Microbiology*, **2015**, 17, 229-38	5.2	38
224	Chemical reactivity drives spatiotemporal organisation of bacterial metabolism. *FEMS Microbiology Reviews*, **2015**, 39, 96-119	15.1	49
223	From the selfish gene to selfish metabolism: revisiting the central dogma. *BioEssays*, **2014**, 36, 226-35	4.1	50
222	The private life of environmental bacteria: pollutant biodegradation at the single cell level. *Environmental Microbiology*, **2014**, 16, 628-42	5.2	52
221	A second chromosomal copy of the catA gene endows Pseudomonas putida mt-2 with an enzymatic safety valve for excess of catechol. *Environmental Microbiology*, **2014**, 16, 1767-78	5.2	32
220	Biotechnological domestication of pseudomonads using synthetic biology. *Nature Reviews Microbiology*, **2014**, 12, 368-79	22.2	267
219	From the phosphoenolpyruvate phosphotransferase system to selfish metabolism: a story retraced in Pseudomonas putida. *FEMS Microbiology Letters*, **2014**, 356, 144-53	2.9	18
218	The metabolic cost of flagellar motion in Pseudomonas putida KT2440. *Environmental Microbiology*, **2014**, 16, 291-303	5.2	97
217	Volatilization of arsenic from polluted soil by Pseudomonas putida engineered for expression of the arsM Arsenic(III) S-adenosine methyltransferase gene. *Environmental Science & Technology*, **2014**, 48, 10337-44	10.3	76
216	Fructose 1-phosphate is the one and only physiological effector of the Cra (FruR) regulator of Pseudomonas putida. *FEBS Open Bio*, **2014**, 4, 377-86	2.7	23
215	New transposon tools tailored for metabolic engineering of gram-negative microbial cell factories. *Frontiers in Bioengineering and Biotechnology*, **2014**, 2, 46	5.8	64
214	Microbial Bioremediation of Chemical Pollutants: How Bacteria Cope with Multi-Stress Environmental Scenarios **2014**, 481-492		5
213	Biolog� sint�ica: la ingenier� al asalto de la complejidad biol�ica. *Arbor*, **2014**, 190, a149	0.2	2
212	Pipelines for New Chemicals: a strategy to create new value chains and stimulate innovation-based economic revival in Southern European countries. *Environmental Microbiology*, **2014**, 16, 9-18	5.2	11
211	The pWW0 plasmid imposes a stochastic expression regime to the chromosomal ortho pathway for benzoate metabolism in Pseudomonas putida. *FEMS Microbiology Letters*, **2014**, 356, 176-83	2.9	7
210	Metabolic and regulatory rearrangements underlying glycerol metabolism in Pseudomonas putida KT2440. *Environmental Microbiology*, **2014**, 16, 239-54	5.2	75
209	Pseudomonas 2.0: genetic upgrading of P. putida KT2440 as an enhanced host for heterologous gene expression. *Microbial Cell Factories*, **2014**, 13, 159	6.4	152
208	Robustness of Pseudomonas putida KT2440 as a host for ethanol biosynthesis. *New Biotechnology*, **2014**, 31, 562-71	6.4	48

207	Engineering multicellular logic in bacteria with metabolic wires. *ACS Synthetic Biology*, **2014**, 3, 204-9	5.7	28
206	The Standard European Vector Architecture (SEVA) plasmid toolkit. *Methods in Molecular Biology*, **2014**, 1149, 469-78	1.4	17
205	Chromosomal integration of transcriptional fusions. *Methods in Molecular Biology*, **2014**, 1149, 479-89	1.4	6
204	Promoter fusions with optical outputs in individual cells and in populations. *Methods in Molecular Biology*, **2014**, 1149, 579-90	1.4	1
203	The IHF regulon of exponentially growing Pseudomonas putida cells. *Environmental Microbiology*, **2013**, 15, 49-63	5.2	9
202	Cra regulates the cross-talk between the two branches of the phosphoenolpyruvate : phosphotransferase system of Pseudomonas putida. *Environmental Microbiology*, **2013**, 15, 121-32	5.2	16
201	Accumulation of inorganic polyphosphate enables stress endurance and catalytic vigour in Pseudomonas putida KT2440. *Microbial Cell Factories*, **2013**, 12, 50	6.4	56
200	Why are chlorinated pollutants so difficult to degrade aerobically? Redox stress limits 1,3-dichloroprop-1-ene metabolism by Pseudomonas pavonaceae. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20120377	5.8	44
199	Expanding the boolean logic of the prokaryotic transcription factor XylR by functionalization of permissive sites with a protease-target sequence. *ACS Synthetic Biology*, **2013**, 2, 594-603	5.7	15
198	Decoding the genetic networks of environmental bacteria: regulatory moonlighting of the TOL system of Pseudomonas putida mt-2. *ISME Journal*, **2013**, 7, 229-32	11.9	13
197	The TOL network of Pseudomonas putida mt-2 processes multiple environmental inputs into a narrow response space. *Environmental Microbiology*, **2013**, 15, 271-86	5.2	14
196	From the test tube to the environment - and back. *Environmental Microbiology*, **2013**, 15, 6-11	5.2	12
195	NanoPad: an integrated platform for bacterial production of camel nanobodies aimed at detecting environmental biomarkers. *Proteomics*, **2013**, 13, 2766-75	4.8	7
194	The Entner-Doudoroff pathway empowers Pseudomonas putida KT2440 with a high tolerance to oxidative stress. *Environmental Microbiology*, **2013**, 15, 1772-85	5.2	142
193	Implantation of unmarked regulatory and metabolic modules in Gram-negative bacteria with specialised mini-transposon delivery vectors. *Journal of Biotechnology*, **2013**, 163, 143-54	3.7	44
192	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	9.7	73
191	Endogenous stress caused by faulty oxidation reactions fosters evolution of 2,4-dinitrotoluene-degrading bacteria. *PLoS Genetics*, **2013**, 9, e1003764	6	51
190	Towards functional orthogonalisation of protein complexes: individualisation of GroEL monomers leads to distinct quasihomogeneous single rings. *ChemBioChem*, **2013**, 14, 2310-21	3.8	8

189	Vestigialization of arsenic resistance phenotypes/genotypes in Chromobacterium violaceum strains thriving in pristine Brazilian sites. *Biocatalysis and Biotransformation*, **2013**, 31, 281-291	2.5	2
188	Transcriptomic fingerprinting of Pseudomonas putida under alternative physiological regimes. *Environmental Microbiology Reports*, **2013**, 5, 883-91	3.7	66
187	Engineering the soil bacterium Pseudomonas putida for arsenic methylation. *Applied and Environmental Microbiology*, **2013**, 79, 4493-5	4.8	68
186	The Standard European Vector Architecture (SEVA): a coherent platform for the analysis and deployment of complex prokaryotic phenotypes. *Nucleic Acids Research*, **2013**, 41, D666-75	20.1	372
185	COVER: a priori estimation of coverage for metagenomic sequencing. *Environmental Microbiology Reports*, **2012**, 4, 335-41	3.7	10
184	The Crp regulator of Pseudomonas putida: evidence of an unusually high affinity for its physiological effector, cAMP. *Environmental Microbiology*, **2012**, 14, 702-13	5.2	12
183	Random and cyclical deletion of large DNA segments in the genome of Pseudomonas putida. *Environmental Microbiology*, **2012**, 14, 1444-53	5.2	44
182	Stochasticity of TOL plasmid catabolic promoters sets a bimodal expression regime in Pseudomonas putida mt-2 exposed to m-xylene. *Molecular Microbiology*, **2012**, 86, 199-211	4.1	14
181	Production and characterization of a recombinant single-chain antibody (scFv) for tracing the □54 factor of Pseudomonas putida. *Journal of Biotechnology*, **2012**, 160, 33-41	3.7	
180	The Logic of Decision Making in Environmental Bacteria **2012**, 279-302		
179	Transposon-based and plasmid-based genetic tools for editing genomes of gram-negative bacteria. *Methods in Molecular Biology*, **2012**, 813, 267-83	1.4	70
178	Streamlining of a Pseudomonas putida genome using a combinatorial deletion method based on minitransposon insertion and the Flp-FRT recombination system. *Methods in Molecular Biology*, **2012**, 813, 249-66	1.4	12
177	Broadening the signal specificity of prokaryotic promoters by modifying cis-regulatory elements associated with a single transcription factor. *Molecular BioSystems*, **2012**, 8, 1950-7		27
176	Engineering whole-cell biosensors with no antibiotic markers for monitoring aromatic compounds in the environment. *Methods in Molecular Biology*, **2012**, 834, 261-81	1.4	17
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