# Eduardo Diaz

List of Publications by Year
in descending order

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|---|---|---|---|
| 81<br>papers | 4,451<br>citations | 126907<br>33<br>h-index | 106344<br>65<br>g-index |
| 85<br>all docs | 85<br>docs citations | 85<br>times ranked | 4716<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bioconversion of lignin-derived aromatics into the building block pyridine 2,4-dicarboxylic acid by engineering recombinant Pseudomonas putida strains. Bioresource Technology, 2022, 346, 126638. | 9.6 | 24 |
| 2 | Genetic characterization of the cyclohexane carboxylate degradation pathway in the denitrifying bacterium Aromatoleum sp. <scp>CIB</scp>. Environmental Microbiology, 2022, 24, 4987-5004. | 3.8 | 3 |
| 3 | Elevated câ€diâ€GMP levels promote biofilm formation and biodesulfurization capacity of Rhodococcus erythropolis. Microbial Biotechnology, 2021, 14, 923-937. | 4.2 | 8 |
| 4 | Motility, Adhesion and c-di-GMP Influence the Endophytic Colonization of Rice by Azoarcus sp. CIB. Microorganisms, 2021, 9, 554. | 3.6 | 10 |
| 5 | Enhancing the Rice Seedlings Growth Promotion Abilities of Azoarcus sp. CIB by Heterologous Expression of ACC Deaminase to Improve Performance of Plants Exposed to Cadmium Stress. Microorganisms, 2020, 8, 1453. | 3.6 | 14 |
| 6 | Understanding the metabolism of the tetralin degrader Sphingopyxis granuli strain TFA through genome-scale metabolic modelling. Scientific Reports, 2020, 10, 8651. | 3.3 | 1 |
| 7 | Expanding the current knowledge and biotechnological applications of the oxygenâ€independent <scp>ortho</scp>â€phthalate degradation pathway. Environmental Microbiology, 2020, 22, 3478-3493. | 3.8 | 6 |
| 8 | ArxA From Azoarcus sp. CIB, an Anaerobic Arsenite Oxidase From an Obligate Heterotrophic and Mesophilic Bacterium. Frontiers in Microbiology, 2019, 10, 1699. | 3.5 | 14 |
| 9 | Further Insights into the Architecture of the PN Promoter That Controls the Expression of the bzd Genes in Azoarcus. Genes, 2019, 10, 489. | 2.4 | 2 |
| 10 | A Novel Redox-Sensing Histidine Kinase That Controls Carbon Catabolite Repression in Azoarcus sp. CIB. MBio, 2019, 10, . | 4.1 | 4 |
| 11 | Testosterone Degradative Pathway of Novosphingobium tardaugens. Genes, 2019, 10, 871. | 2.4 | 30 |
| 12 | Transcriptional Regulation of the Peripheral Pathway for the Anaerobic Catabolism of Toluene and m-Xylene in Azoarcus sp. CIB. Frontiers in Microbiology, 2018, 9, 506. | 3.5 | 23 |
| 13 | Four Molybdenum-Dependent Steroid C-25 Hydroxylases: Heterologous Overproduction, Role in Steroid Degradation, and Application for 25-Hydroxyvitamin D <sub>3</sub> Synthesis. MBio, 2018, 9, . | 4.1 | 16 |
| 14 | Metabolic and process engineering for biodesulfurization in Gram-negative bacteria. Journal of Biotechnology, 2017, 262, 47-55. | 3.8 | 58 |
| 15 | Engineering a bzd cassette for the anaerobic bioconversion of aromatic compounds. Microbial Biotechnology, 2017, 10, 1418-1425. | 4.2 | 6 |
| 16 | Speeding up bioproduction of selenium nanoparticles by using Vibrio natriegens as microbial factory. Scientific Reports, 2017, 7, 16046. | 3.3 | 81 |
| 17 | The ICE<sub>XTD</sub> of Azoarcus sp. CIB, an integrative and conjugative element with aerobic and anaerobic catabolic properties. Environmental Microbiology, 2016, 18, 5018-5031. | 3.8 | 20 |
| 18 | Biosynthesis of selenium nanoparticles by Azoarcus sp. CIB. Microbial Cell Factories, 2016, 15, 109. | 4.0 | 83 |

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| 19 | Refactoring the Î» phage lytic/lysogenic decision with a synthetic regulator. MicrobiologyOpen, 2016, 5, 575-581. | 3.0 | 12 |
| 20 | Degradation of cyclic diguanosine monophosphate by a hybrid two-component protein protects Azoarcus sp. strain CIB from toluene toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13174-13179. | 7.1 | 13 |
| 21 | Engineering synthetic bacterial consortia for enhanced desulfurization and revalorization of oil sulfur compounds. Metabolic Engineering, 2016, 35, 46-54. | 7.0 | 85 |
| 22 | New challenges for syngas fermentation: towards production of biopolymers. Journal of Chemical Technology and Biotechnology, 2015, 90, 1735-1751. | 3.2 | 53 |
| 23 | Genome Sequence of Pseudomonas azelaica Strain Aramco J. Genome Announcements, 2015, 3, . | 0.8 | 8 |
| 24 | Whole-genome analysis of Azoarcus sp. strain CIB provides genetic insights to its different lifestyles and predicts novel metabolic features. Systematic and Applied Microbiology, 2015, 38, 462-471. | 2.8 | 73 |
| 25 | Unraveling the Specific Regulation of the Central Pathway for Anaerobic Degradation of 3-Methylbenzoate. Journal of Biological Chemistry, 2015, 290, 12165-12183. | 3.4 | 13 |
| 26 | Genome Sequence of Pseudomonas azelaica HBP1, Which Catabolizes 2-Hydroxybiphenyl Fungicide. Genome Announcements, 2014, 2, . | 0.8 | 11 |
| 27 | Azoarcus sp. CIB, an Anaerobic Biodegrader of Aromatic Compounds Shows an Endophytic Lifestyle. PLoS ONE, 2014, 9, e110771. | 2.5 | 49 |
| 28 | A second chromosomal copy of the <scp>catA</scp> gene endows <scp>P</scp>seudomonas putidaâ€…<scp>mt</scp>â€2 with an enzymatic safety valve for excess of catechol. Environmental Microbiology, 2014, 16, 1767-1778. | 3.8 | 38 |
| 29 | Insights on the regulation of the phenylacetate degradation pathway from <scp>E</scp>scherichia coli. Environmental Microbiology Reports, 2014, 6, 239-250. | 2.4 | 27 |
| 30 | AccR Is a Master Regulator Involved in Carbon Catabolite Repression of the Anaerobic Catabolism of Aromatic Compounds in Azoarcus sp. CIB. Journal of Biological Chemistry, 2014, 289, 1892-1904. | 3.4 | 19 |
| 31 | Plasmids as Tools for Containment. Microbiology Spectrum, 2014, 2, . | 3.0 | 10 |
| 32 | Characterization of the mbd cluster encoding the anaerobic 3â€methylbenzoylâ€CoA central pathway. Environmental Microbiology, 2013, 15, 148-166. | 3.8 | 37 |
| 33 | Aerobic degradation of aromatic compounds. Current Opinion in Biotechnology, 2013, 24, 431-442. | 6.6 | 148 |
| 34 | Identification of a Missing Link in the Evolution of an Enzyme into a Transcriptional Regulator. PLoS ONE, 2013, 8, e57518. | 2.5 | 13 |
| 35 | Bacterial Degradation of Benzoate. Journal of Biological Chemistry, 2012, 287, 10494-10508. | 3.4 | 91 |
| 36 | A finely tuned regulatory circuit of the nicotinic acid degradation pathway in Pseudomonas putida. Environmental Microbiology, 2011, 13, 1718-1732. | 3.8 | 22 |

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| 37 | Unravelling the gallic acid degradation pathway in bacteria: the gal cluster from Pseudomonas putida. Molecular Microbiology, 2011, 79, 359-374. | 2.5 | 72 |
| 38 | A preliminary crystallographic study of recombinant NicX, an Fe<sup>2+</sup>-dependent 2,5-dihydroxypyridine dioxygenase fromPseudomonas putidaKT2440. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 549-553. | 0.7 | 4 |
| 39 | Identification of theGeobacter metallireducensBamVW Two-Component System, Involved in Transcriptional Regulation of Aromatic Degradation. Applied and Environmental Microbiology, 2010, 76, 383-385. | 3.1 | 23 |
| 40 | Biochemical Characterization of the Transcriptional Regulator BzdR from Azoarcus sp. CIB. Journal of Biological Chemistry, 2010, 285, 35694-35705. | 3.4 | 33 |
| 41 | 3-Hydroxyphenylpropionate and Phenylpropionate Are Synergistic Activators of the MhpR Transcriptional Regulator from Escherichia coli. Journal of Biological Chemistry, 2009, 284, 21218-21228. | 3.4 | 28 |
| 42 | Analysis of Dibenzothiophene Desulfurization in a Recombinant Pseudomonas putida Strain. Applied and Environmental Microbiology, 2009, 75, 875-877. | 3.1 | 34 |
| 43 | Anaerobic Catabolism of Aromatic Compounds: a Genetic and Genomic View. Microbiology and Molecular Biology Reviews, 2009, 73, 71-133. | 6.6 | 378 |
| 44 | Identification and analysis of a glutaryl-CoA dehydrogenase-encoding gene and its cognate transcriptional regulator from Azoarcus sp. CIB. Environmental Microbiology, 2008, 10, 474-482. | 3.8 | 20 |
| 45 | Deciphering the genetic determinants for aerobic nicotinic acid degradation: The nic cluster from Pseudomonas putida KT2440. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11329-11334. | 7.1 | 136 |
| 46 | New insights into the BzdR-mediated transcriptional regulation of the anaerobic catabolism of benzoate in Azoarcus sp. CIB. Microbiology (United Kingdom), 2008, 154, 306-316. | 1.8 | 15 |
| 47 | Characterization of the last step of the aerobic phenylacetic acid degradation pathway. Microbiology (United Kingdom), 2007, 153, 357-365. | 1.8 | 55 |
| 48 | Growth phase-dependent expression of the Pseudomonas putida KT2440 transcriptional machinery analysed with a genome-wide DNA microarray. Environmental Microbiology, 2006, 8, 165-177. | 3.8 | 123 |
| 49 | Coregulation by Phenylacetyl-Coenzyme A-Responsive PaaX Integrates Control of the Upper and Lower Pathways for Catabolism of Styrene by Pseudomonas sp. Strain Y2. Journal of Bacteriology, 2006, 188, 4812-4821. | 2.2 | 29 |
| 50 | Genetic Characterization of the Phenylacetyl-Coenzyme A Oxygenase from the Aerobic Phenylacetic Acid Degradation Pathway of Escherichia coli. Applied and Environmental Microbiology, 2006, 72, 7422-7426. | 3.1 | 36 |
| 51 | Oxygen-Dependent Regulation of the Central Pathway for the Anaerobic Catabolism of Aromatic Compounds inAzoarcussp. Strain CIB. Journal of Bacteriology, 2006, 188, 2343-2354. | 2.2 | 19 |
| 52 | Ironâ€reducing bacteria unravel novel strategies for the anaerobic catabolism of aromatic compounds. Molecular Microbiology, 2005, 58, 1210-1215. | 2.5 | 18 |
| 53 | Molecular Characterization of the Gallate Dioxygenase from Pseudomonas putida KT2440. Journal of Biological Chemistry, 2005, 280, 35382-35390. | 3.4 | 53 |
| 54 | BzdR, a Repressor That Controls the Anaerobic Catabolism of Benzoate in Azoarcus sp. CIB, Is the First Member of a New Subfamily of Transcriptional Regulators. Journal of Biological Chemistry, 2005, 280, 10683-10694. | 3.4 | 77 |

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| 55 | ThebzdGene Cluster, Coding for Anaerobic Benzoate Catabolism, inAzoarcussp. Strain CIB. Journal of Bacteriology, 2004, 186, 5762-5774. | 2.2 | 111 |
| 56 | Genetic clues on the evolution of anaerobic catabolism of aromatic compounds. Microbiology (United Kingdom), 2004, 150, 2018-2021. | 1.8 | 15 |
| 57 | Aromatic metabolism versus carbon availability: the regulatory network that controls catabolism of less-preferred carbon sources inEscherichia coli. FEMS Microbiology Reviews, 2004, 28, 503-518. | 8.6 | 21 |
| 58 | Genomic Insights in the Metabolism of Aromatic Compounds in Pseudomonas. , 2004, , 425-462. | | 41 |
| 59 | The Homogentisate Pathway: a Central Catabolic Pathway Involved in the Degradation of l-Phenylalanine, l-Tyrosine, and 3-Hydroxyphenylacetate in Pseudomonas putida. Journal of Bacteriology, 2004, 186, 5062-5077. | 2.2 | 225 |
| 60 | Bacterial degradation of aromatic pollutants: a paradigm of metabolic versatility. International Microbiology, 2004, 7, 173-80. | 2.4 | 203 |
| 61 | Design of catabolic cassettes for styrene biodegradation. Antonie Van Leeuwenhoek, 2003, 84, 17-24. | 1.7 | 15 |
| 62 | Genetic characterization of the styrene lower catabolic pathway of Pseudomonas sp. strain Y2. Gene, 2003, 319, 71-83. | 2.2 | 28 |
| 63 | Regulation of the mhp Cluster Responsible for 3-(3-Hydroxyphenyl)propionic Acid Degradation in Escherichia coli. Journal of Biological Chemistry, 2003, 278, 27575-27585. | 3.4 | 42 |
| 64 | A dual lethal system to enhance containment of recombinant micro-organisms. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.8 | 57 |
| 65 | Genomic analysis of the aromatic catabolic pathways from Pseudomonas putida KT2440. Environmental Microbiology, 2002, 4, 824-841. | 3.8 | 448 |
| 66 | Biodegradation of Aromatic Compounds by Escherichia coli. Microbiology and Molecular Biology Reviews, 2001, 65, 523-569. | 6.6 | 314 |
| 67 | A gene containment strategy based on a restriction-modification system. Environmental Microbiology, 2000, 2, 555-563. | 3.8 | 26 |
| 68 | Enhancing desulphurization by engineering a flavin reductase-encoding gene cassette in recombinant biocatalysts. Environmental Microbiology, 2000, 2, 687-694. | 3.8 | 82 |
| 69 | Bacterial promoters triggering biodegradation of aromatic pollutants. Current Opinion in Biotechnology, 2000, 11, 467-475. | 6.6 | 151 |
| 70 | The two-step lysis system of pneumococcal bacteriophage EJ-1 is functional in Gram-negative bacteria: triggering of the major pneumococcal autolysin in Escherichia coli. Molecular Microbiology, 1996, 19, 667-681. | 2.5 | 48 |
| 71 | A stringently controlled expression system for analysing lateral gene transfer between bacteria. Molecular Microbiology, 1996, 21, 293-300. | 2.5 | 23 |
| 72 | Restricting the Dispersal of Recombinant DNA: Design of a Contained Biological Catalyst. Nature Biotechnology, 1996, 14, 189-191. | 17.5 | 11 |

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| 73 | Suicide Microbes on the Loose. Nature Biotechnology, 1995, 13, 35-37. | 17.5 | 22 |
| 74 | The evolutionary relationship of biphenyl dioxygenase from Gram-positive Rhodococcus globerulus P6 to multicomponent dioxygenases from Gram-negative bacteria. Gene, 1995, 156, 11-18. | 2.2 | 93 |
| 75 | The Behavior of Bacteria Designed for Biodegradation. Nature Biotechnology, 1994, 12, 1349-1356. | 17.5 | 76 |
| 76 | Universal barrier to lateral spread of specific genes among microorganisms. Molecular Microbiology, 1994, 13, 855-861. | 2.5 | 75 |
| 77 | The structure of new cis and trans 3â€²â€phenylâ€3â€²,3aâ€²,4â€²,5â€²,6â€²,7aâ€²â€hexahydroâ€2,1â€benzisoxazoleâ€7aâ€²â€spiroâ€2â€(3â€phenylaziridine). Journ Chemistry, 1993, 30, 97-104. | 2.6 | 2 |
| 78 | Characterization of the transcription unit encoding the major pneumococcal autolysin. Gene, 1990, 90, 157-162. | 2.2 | 20 |
| 79 | Construction of a broad-host-range pneumococcal promoter-probe plasmid. Gene, 1990, 90, 163-167. | 2.2 | 13 |
| 80 | Plasmids as Tools for Containment. , 0, , 589-601. | | 2 |
| 81 | Plasmids as Tools for Containment. , 0, , 615-631. | | 0 |