Jose-Julio Ortega-Calvo

List of Publications by Year
in descending order

84 papers	3,927 citations	101496 36 h-index	128225 60 g-index
91 all docs	91 docs citations	91 times ranked	3786 citing authors

#	Article	IF	Citations
1	Determining the bioavailability of benzo(a)pyrene through standardized desorption extraction in a certified reference contaminated soil. Science of the Total Environment, 2022, 803, 150025.	3.9	12
2	Scientific concepts and methods for moving persistence assessments into the 21st century. Integrated Environmental Assessment and Management, 2022, 18, 1454-1487.	1.6	24
3	Role of tactic response on the mobilization of motile bacteria through micrometer-sized pores. Science of the Total Environment, 2022, 832, 154938.	3.9	6
4	Nature-based approaches to reducing the environmental risk of organic contaminants resulting from military activities. Science of the Total Environment, 2022, 843, 157007.	3.9	11
5	Root-mediated bacterial accessibility and cometabolism of pyrene in soil. Science of the Total Environment, 2021, 760, 143408.	3.9	19
6	Connectivity and pore accessibility in models of soil carbon cycling. Global Change Biology, 2021, 27, 5405-5406.	4.2	2
7	Microbial degradation of pyrene in holm oak (Quercus ilex) phyllosphere: Role of particulate matter in regulating bioaccessibility. Science of the Total Environment, 2021, 786, 147431.	3.9	3
8	Adsorptive bioremediation of soil highly contaminated with crude oil. Science of the Total Environment, 2020, 706, 135739.	3.9	44
9	Why Biodegradable Chemicals Persist in the Environment? A Look at Bioavailability. Handbook of Environmental Chemistry, 2020, , 243-265.	0.2	7
10	Introduction Setting of the Scene, Definitions, and Guide to Volume. Handbook of Environmental Chemistry, 2020, , 1-4.	0.2	0
11	Role of photo- and biodegradation of two PAHs on leaves: Modelling the impact on air quality ecosystem services provided by urban trees. Science of the Total Environment, 2020, 739, 139893.	3.9	14
12	Rhizosphere-enhanced biosurfactant action on slowly desorbing PAHs in contaminated soil. Science of the Total Environment, 2020, 720, 137608.	3.9	21
13	Impact of bacterial motility on biosorption and cometabolism of pyrene in a porous medium. Science of the Total Environment, 2020, 717, 137210.	3.9	16
14	The effect of organic acids on the behaviour and biodegradation of 14C-phenanthrene in contaminated soil. Soil Biology and Biochemistry, 2020, 143, 107722.	4.2	10
15	Implementing standardized desorption extraction into bioavailability-oriented bioremediation of PAH-polluted soils. Science of the Total Environment, 2019, 696, 134011.	3.9	24
16	Rhamnolipid-enhanced solubilization and biodegradation of PAHs in soils after conventional bioremediation. Science of the Total Environment, 2019, 668, 790-796.	3.9	58
17	Carbon nanomaterials differentially impact mineralization kinetics of phenanthrene and indigenous microbial communities in a natural soil. NanoImpact, 2018, 11, 146-155.	2.4	10
18	Impact of Chemoeffectors on Bacterial Motility, Transport, and Contaminant Degradation in Sand-Filled Percolation Columns. Environmental Science & Technology, 2018, 52, 10673-10679.	4.6	12

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19	Bioavailability of Polycyclic Aromatic Hydrocarbons in Soil as Affected by Microorganisms and Plants. , 2017, , 305-319.		2
20	Mycelium-Enhanced Bacterial Degradation of Organic Pollutants under Bioavailability Restrictions. Environmental Science & Technology, 2017, 51, 11935-11942.	4.6	11
21	Swimming performance of Bradyrhizobium diazoefficiens is an emergent property of its two flagellar systems. Scientific Reports, 2016, 6, 23841.	1.6	33
22	Tactic response of bacteria to zero-valent iron nanoparticles. Environmental Pollution, 2016, 213, 438-445.	3.7	25
23	Bioavailability of phenanthrene and nitrobenzene sorbed on carbonaceous materials. Carbon, 2016, 110, 404-413.	5.4	21
24	Mobilization of Pollutant-Degrading Bacteria by Eukaryotic Zoospores. Environmental Science & Technology, 2016, 50, 7633-7640.	4.6	9
25	Impact of Dissolved Organic Matter on Bacterial Tactic Motility, Attachment, and Transport. Environmental Science & Technology, 2015, 49, 4498-4505.	4.6	54
26	Development of eukaryotic zoospores within polycyclic aromatic hydrocarbon (PAH)-polluted environments: A set of behaviors that are relevant for bioremediation. Science of the Total Environment, 2015, 511, 767-776.	3.9	14
27	From Bioavailability Science to Regulation of Organic Chemicals. Environmental Science & Technology, 2015, 49, 10255-10264.	4.6	171
28	Dual partitioning and attachment effects of rhamnolipid on pyrene biodegradation under bioavailability restrictions. Environmental Pollution, 2015, 205, 378-384.	3.7	20
29	Colloidal and biological properties of cationic single-chain and dimeric surfactants. Colloids and Surfaces B: Biointerfaces, 2014, 114, 247-254.	2.5	43
30	The effect of humic acids on biodegradation of polycyclic aromatic hydrocarbons depends on the exposure regime. Environmental Pollution, 2014, 184, 435-442.	3.7	85
31	Role of Desorption Kinetics in the Rhamnolipid-Enhanced Biodegradation of Polycyclic Aromatic Hydrocarbons. Environmental Science & Technology, 2014, 48, 10869-10877.	4.6	61
32	Is it possible to increase bioavailability but not environmental risk of PAHs in bioremediation?. Journal of Hazardous Materials, 2013, 261, 733-745.	6.5	118
33	Influence of the sunflower rhizosphere on the biodegradation of PAHs in soil. Soil Biology and Biochemistry, 2013, 57, 830-840.	4.2	127
34	Bioavailability of pollutants and chemotaxis. Current Opinion in Biotechnology, 2013, 24, 451-456.	3.3	78
35	Chemical Effectors Cause Different Motile Behavior and Deposition of Bacteria in Porous Media. Environmental Science & Technology, 2012, 46, 6790-6797.	4.6	36
36	Effect of Interface Fertilization on Biodegradation of Polycyclic Aromatic Hydrocarbons Present in Nonaqueous-Phase Liquids. Environmental Science & Technology, 2011, 45, 1074-1081.	4.6	27

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37	Bacterial tactic response to silver nanoparticles. Environmental Microbiology Reports, 2011, 3, 526-534.	1.0	26
38	Effect of a Nonionic Surfactant on Biodegradation of Slowly Desorbing PAHs in Contaminated Soils. Environmental Science & Technology, 2011, 45, 3019-3026.	4.6	61
39	Bacterial chemotaxis towards aromatic hydrocarbons in <i>Pseudomonas</i>. Environmental Microbiology, 2011, 13, 1733-1744.	1.8	78
40	Recalcitrance of polycyclic aromatic hydrocarbons in soil contributes to background pollution. Environmental Pollution, 2011, 159, 3692-3699.	3.7	25
41	Effect of Electrokinetics on the Bioaccessibility of Polycyclic Aromatic Hydrocarbons in Polluted Soils. Journal of Environmental Quality, 2010, 39, 1993-1998.	1.0	16
42	Influence of Low Oxygen Tensions and Sorption to Sediment Black Carbon on Biodegradation of Pyrene. Applied and Environmental Microbiology, 2010, 76, 4430-4437.	1.4	22
43	Dual 14C/residue analysis method to assess the microbial accessibility of native phenanthrene in environmental samples. Environmental Geochemistry and Health, 2008, 30, 159-163.	1.8	9
44	Simultaneous biodegradation of creosote-polycyclic aromatic hydrocarbons by a pyrene-degrading Mycobacterium. Applied Microbiology and Biotechnology, 2008, 78, 165-172.	1.7	31
45	Enhanced kinetics of solidâ€phase microextraction and biodegradation of polycyclic aromatic hydrocarbons in the presence of dissolved organic matter. Environmental Toxicology and Chemistry, 2008, 27, 1526-1532.	2.2	61
46	Chemoeffectors Decrease the Deposition of Chemotactic Bacteria during Transport in Porous Media. Environmental Science & Technology, 2008, 42, 1131-1137.	4.6	62
47	Integrating Biodegradation and Electroosmosis for the Enhanced Removal of Polycyclic Aromatic Hydrocarbons from Creosoteâ€Polluted Soils. Journal of Environmental Quality, 2007, 36, 1444-1451.	1.0	57
48	Differential Responses of Eubacterial, <i>Mycobacterium</i>, and <i>Sphingomonas</i> Communities in Polycyclic Aromatic Hydrocarbon (PAH)â€Contaminated Soil to Artificially Induced Changes in PAH Profile. Journal of Environmental Quality, 2007, 36, 1403-1411.	1.0	21
49	ENHANCED KINETICS OF SOLID-PHASE MICROEXTRACTION AND BIODEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN THE PRESENCE OF DISSOLVED ORGANIC MATTER. Environmental Toxicology and Chemistry, 2007, preprint, 1.	2.2	11
50	Electrokinetic enhancement of phenanthrene biodegradation in creosote-polluted clay soil. Environmental Pollution, 2006, 142, 326-332.	3.7	86
51	Distribution of the Mycobacterium community and polycyclic aromatic hydrocarbons (PAHs) among different size fractions of a long-term PAH-contaminated soil. Environmental Microbiology, 2006, 8, 836-847.	1.8	139
52	Comparison of mineralization of solid-sorbed phenanthrene by polycyclic aromatic hydrocarbon (PAH)-degrading Mycobacterium spp. and Sphingomonas spp.. Applied Microbiology and Biotechnology, 2006, 72, 829-836.	1.7	42
53	Bioavailability of the herbicide 2,4-D formulated with organoclays. Soil Biology and Biochemistry, 2006, 38, 2117-2124.	4.2	62
54	Effect of Slow Desorption on the Kinetics of Biodegradation of Polycyclic Aromatic Hydrocarbons. Environmental Science & Technology, 2005, 39, 8776-8783.	4.6	36

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55	Changes in enzyme activities and microbial biomass after â€œin situâ€•remediation of a heavy metal-contaminated soil. Applied Soil Ecology, 2005, 28, 125-137.	2.1	230
56	Chemotaxis in polycyclic aromatic hydrocarbon-degrading bacteria isolated from coal-tar- and oil-polluted rhizospheres. FEMS Microbiology Ecology, 2003, 44, 373-381.	1.3	83
57	Flow cytometry discrimination between bacteria and clayÃ¢Â€Â“humic acid particles during growth-linked biodegradation of phenanthrene by Pseudomonas aeruginosa 19SJ. FEMS Microbiology Ecology, 2003, 43, 55-61.	1.3	16
58	Biosurfactant- and Biodegradation-Enhanced Partitioning of Polycyclic Aromatic Hydrocarbons from Nonaqueous-Phase Liquids. Environmental Science & Technology, 2003, 37, 2988-2996.	4.6	91
59	Effects of solid olive-mill waste addition to soil on sorption, degradation and leaching of the herbicide simazine. Soil Use and Management, 2003, 19, 150-156.	2.6	45
60	Bioavailability of solid and non-aqueous phase liquid (NAPL)-dissolved phenanthrene to the biosurfactant-producing bacterium Pseudomonas aeruginosa 19SJ. Environmental Microbiology, 2001, 3, 561-569.	1.8	63
61	Influence of Soil Components on the Transport of Polycyclic Aromatic Hydrocarbon-Degrading Bacteria through Saturated Porous Media. Environmental Science & Technology, 2000, 34, 3649-3656.	4.6	70
62	Bioavailability of labile and desorptionâ€•resistant phenanthrene sorbed to montmorillonite clay containing humic fractions. Environmental Toxicology and Chemistry, 1999, 18, 2729-2735.	2.2	36
63	Biodegradation of Sorbed 2,4-Dinitrotoluene in a Clay-Rich, Aggregated Porous Medium. Environmental Science & Technology, 1999, 33, 3737-3742.	4.6	31
64	Effect of Humic Fractions and Clay on Biodegradation of Phenanthrene by a Pseudomonas fluorescens Strain Isolated from Soil. Applied and Environmental Microbiology, 1998, 64, 3123-3126.	1.4	98
65	Effect of organic matter and clays on the biodegradation of Phenanthrene in soils. International Biodeterioration and Biodegradation, 1997, 40, 101-106.	1.9	36
66	Deterioration of building materials from the Great Jaguar Pyramid at Tikal, Guatemala. Building and Environment, 1995, 30, 591-598.	3.0	35
67	Effect of Varying the Rate of Partitioning of Phenanthrene in Nonaqueous-Phase Liquids on Biodegradation in Soil Slurries. Environmental Science & Technology, 1995, 29, 2222-2225.	4.6	52
68	Microbial communities in weathered sandstones: the case of Carrascosa del Campo church, Spain. Science of the Total Environment, 1995, 167, 249-254.	3.9	46
69	The chemical structure of fungal melanins and their possible contribution to black stains in stone monuments. Science of the Total Environment, 1995, 167, 305-314.	3.9	27
70	Factors affecting the weathering and colonization of monuments by phototrophic microorganisms. Science of the Total Environment, 1995, 167, 329-341.	3.9	169
71	Lichen colonization of the Roman pavement at Baelo Claudia (Cadiz, Spain): biodeterioration vs. bioprotection. Science of the Total Environment, 1995, 167, 353-363.	3.9	101
72	Organic and Inorganic Compounds in Limestone Weathering Crusts from Cathedrals in Southern and Western Europe. Environmental Science & Technology, 1995, 29, 1691-1701.	4.6	30

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73	Effect of sulfur starvation on the morphology and ultrastructure of the cyanobacterium Gloeothece sp. PCC 6909. Archives of Microbiology, 1995, 163, 447-453.	1.0	38
74	Pyrolysis/Methylation: A Microanalytical Method for Investigating Polar Organic Compounds in Cultural Properties. International Journal of Environmental Analytical Chemistry, 1994, 56, 63-71.	1.8	7
75	Sulphateâ€limited growth in the N 2 â€fixing unicellular cyanobacterium Gloeothece (NÃgeli) sp. PCC 6909. New Phytologist, 1994, 128, 273-281.	3.5	29
76	Conventional pyrolysis: A biased technique for providing structural information on humic substances?. Die Naturwissenschaften, 1994, 81, 28-29.	0.6	21
77	Decay of Roman and repair mortars in mosaics from Italica, Spain. Science of the Total Environment, 1994, 153, 123-131.	3.9	11
78	Cyanobacterial Sulfate Accumulation from Black Crust of a Historic Building. Geomicrobiology Journal, 1994, 12, 15-22.	1.0	29
79	Chemical composition ofSpirulina and eukaryotic algae food products marketed in Spain. Journal of Applied Phycology, 1993, 5, 425-435.	1.5	108
80	Pyrolysis/methylation: A method for structural elucidation of the chemical nature of aquatic humic substances. Water Research, 1993, 27, 1693-1696.	5.3	54
81	Microbial induced corrosion of metallic antiquities and works of art: a critical review. International Biodeterioration and Biodegradation, 1992, 29, 367-375.	1.9	18
82	Biodeterioration of building materials by cyanobacteria and algae. International Biodeterioration, 1991, 28, 165-185.	0.2	165
83	Applications of analytical pyrolysis to the study of stony cultural properties. Journal of Analytical and Applied Pyrolysis, 1991, 20, 239-251.	2.6	28
84	Endolithic cyanobacteria in Maastricht limestone. Science of the Total Environment, 1990, 94, 209-220.	3.9	62