

# Jose-Julio Ortega-Calvo

## List of Publications by Year in descending order

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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	Changes in enzyme activities and microbial biomass after <i>in situ</i> remediation of a heavy metal-contaminated soil. <i>Applied Soil Ecology</i> , 2005, 28, 125-137.	2.1	230
2	From Bioavailability Science to Regulation of Organic Chemicals. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10255-10264.	4.6	171
3	Factors affecting the weathering and colonization of monuments by phototrophic microorganisms. <i>Science of the Total Environment</i> , 1995, 167, 329-341.	3.9	169
4	Biodeterioration of building materials by cyanobacteria and algae. <i>International Biodeterioration</i> , 1991, 28, 165-185.	0.2	165
5	Distribution of the Mycobacterium community and polycyclic aromatic hydrocarbons (PAHs) among different size fractions of a long-term PAH-contaminated soil. <i>Environmental Microbiology</i> , 2006, 8, 836-847.	1.8	139
6	Influence of the sunflower rhizosphere on the biodegradation of PAHs in soil. <i>Soil Biology and Biochemistry</i> , 2013, 57, 830-840.	4.2	127
7	Is it possible to increase bioavailability but not environmental risk of PAHs in bioremediation?. <i>Journal of Hazardous Materials</i> , 2013, 261, 733-745.	6.5	118
8	Chemical composition of Spirulina and eukaryotic algae food products marketed in Spain. <i>Journal of Applied Phycology</i> , 1993, 5, 425-435.	1.5	108
9	Lichen colonization of the Roman pavement at Baelo Claudia (Cadiz, Spain): biodeterioration vs. bioprotection. <i>Science of the Total Environment</i> , 1995, 167, 353-363.	3.9	101
10	Effect of Humic Fractions and Clay on Biodegradation of Phenanthrene by a <i>Pseudomonas fluorescens</i> Strain Isolated from Soil. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3123-3126.	1.4	98
11	Biosurfactant- and Biodegradation-Enhanced Partitioning of Polycyclic Aromatic Hydrocarbons from Nonaqueous-Phase Liquids. <i>Environmental Science &amp; Technology</i> , 2003, 37, 2988-2996.	4.6	91
12	Electrokinetic enhancement of phenanthrene biodegradation in creosote-polluted clay soil. <i>Environmental Pollution</i> , 2006, 142, 326-332.	3.7	86
13	The effect of humic acids on biodegradation of polycyclic aromatic hydrocarbons depends on the exposure regime. <i>Environmental Pollution</i> , 2014, 184, 435-442.	3.7	85
14	Chemotaxis in polycyclic aromatic hydrocarbon-degrading bacteria isolated from coal-tar- and oil-polluted rhizospheres. <i>FEMS Microbiology Ecology</i> , 2003, 44, 373-381.	1.3	83
15	Bacterial chemotaxis towards aromatic hydrocarbons in <i>Pseudomonas</i> . <i>Environmental Microbiology</i> , 2011, 13, 1733-1744.	1.8	78
16	Bioavailability of pollutants and chemotaxis. <i>Current Opinion in Biotechnology</i> , 2013, 24, 451-456.	3.3	78
17	Influence of Soil Components on the Transport of Polycyclic Aromatic Hydrocarbon-Degrading Bacteria through Saturated Porous Media. <i>Environmental Science &amp; Technology</i> , 2000, 34, 3649-3656.	4.6	70
18	Bioavailability of solid and non-aqueous phase liquid (NAPL)-dissolved phenanthrene to the biosurfactant-producing bacterium <i>Pseudomonas aeruginosa</i> 19SJ. <i>Environmental Microbiology</i> , 2001, 3, 561-569.	1.8	63

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19	Endolithic cyanobacteria in Maastricht limestone. <i>Science of the Total Environment</i> , 1990, 94, 209-220.	3.9	62
20	Bioavailability of the herbicide 2,4-D formulated with organoclays. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2117-2124.	4.2	62
21	Chemoeffectors Decrease the Deposition of Chemotactic Bacteria during Transport in Porous Media. <i>Environmental Science &amp; Technology</i> , 2008, 42, 1131-1137.	4.6	62
22	Enhanced kinetics of solid-phase microextraction and biodegradation of polycyclic aromatic hydrocarbons in the presence of dissolved organic matter. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1526-1532.	2.2	61
23	Effect of a Nonionic Surfactant on Biodegradation of Slowly Desorbing PAHs in Contaminated Soils. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3019-3026.	4.6	61
24	Role of Desorption Kinetics in the Rhamnolipid-Enhanced Biodegradation of Polycyclic Aromatic Hydrocarbons. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10869-10877.	4.6	61
25	Rhamnolipid-enhanced solubilization and biodegradation of PAHs in soils after conventional bioremediation. <i>Science of the Total Environment</i> , 2019, 668, 790-796.	3.9	58
26	Integrating Biodegradation and Electroosmosis for the Enhanced Removal of Polycyclic Aromatic Hydrocarbons from Creosote-Polluted Soils. <i>Journal of Environmental Quality</i> , 2007, 36, 1444-1451.	1.0	57
27	Pyrolysis/methylation: A method for structural elucidation of the chemical nature of aquatic humic substances. <i>Water Research</i> , 1993, 27, 1693-1696.	5.3	54
28	Impact of Dissolved Organic Matter on Bacterial Tactic Motility, Attachment, and Transport. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4498-4505.	4.6	54
29	Effect of Varying the Rate of Partitioning of Phenanthrene in Nonaqueous-Phase Liquids on Biodegradation in Soil Slurries. <i>Environmental Science &amp; Technology</i> , 1995, 29, 2222-2225.	4.6	52
30	Microbial communities in weathered sandstones: the case of Carrascosa del Campo church, Spain. <i>Science of the Total Environment</i> , 1995, 167, 249-254.	3.9	46
31	Effects of solid olive-mill waste addition to soil on sorption, degradation and leaching of the herbicide simazine. <i>Soil Use and Management</i> , 2003, 19, 150-156.	2.6	45
32	Adsorptive bioremediation of soil highly contaminated with crude oil. <i>Science of the Total Environment</i> , 2020, 706, 135739.	3.9	44
33	Colloidal and biological properties of cationic single-chain and dimeric surfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 247-254.	2.5	43
34	Comparison of mineralization of solid-sorbed phenanthrene by polycyclic aromatic hydrocarbon (PAH)-degrading <i>Mycobacterium</i> spp. and <i>Sphingomonas</i> spp.. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 829-836.	1.7	42
35	Effect of sulfur starvation on the morphology and ultrastructure of the cyanobacterium <i>Gloeotheca</i> sp. PCC 6909. <i>Archives of Microbiology</i> , 1995, 163, 447-453.	1.0	38
36	Effect of organic matter and clays on the biodegradation of Phenanthrene in soils. <i>International Biodeterioration and Biodegradation</i> , 1997, 40, 101-106.	1.9	36

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37	Bioavailability of labile and desorption-resistant phenanthrene sorbed to montmorillonite clay containing humic fractions. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 2729-2735.	2.2	36
38	Effect of Slow Desorption on the Kinetics of Biodegradation of Polycyclic Aromatic Hydrocarbons. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8776-8783.	4.6	36
39	Chemical Effectors Cause Different Motile Behavior and Deposition of Bacteria in Porous Media. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6790-6797.	4.6	36
40	Deterioration of building materials from the Great Jaguar Pyramid at Tikal, Guatemala. <i>Building and Environment</i> , 1995, 30, 591-598.	3.0	35
41	Swimming performance of <i>Bradyrhizobium diazoefficiens</i> is an emergent property of its two flagellar systems. <i>Scientific Reports</i> , 2016, 6, 23841.	1.6	33
42	Biodegradation of Sorbed 2,4-Dinitrotoluene in a Clay-Rich, Aggregated Porous Medium. <i>Environmental Science &amp; Technology</i> , 1999, 33, 3737-3742.	4.6	31
43	Simultaneous biodegradation of creosote-polycyclic aromatic hydrocarbons by a pyrene-degrading <i>Mycobacterium</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 165-172.	1.7	31
44	Organic and Inorganic Compounds in Limestone Weathering Crusts from Cathedrals in Southern and Western Europe. <i>Environmental Science &amp; Technology</i> , 1995, 29, 1691-1701.	4.6	30
45	Sulphate-limited growth in the N <sub>2</sub> -fixing unicellular cyanobacterium <i>Gloeotheca</i> ( <i>N<sub>2</sub></i> -fixing) sp. PCC 6909. <i>New Phytologist</i> , 1994, 128, 273-281.	3.5	29
46	Cyanobacterial Sulfate Accumulation from Black Crust of a Historic Building. <i>Geomicrobiology Journal</i> , 1994, 12, 15-22.	1.0	29
47	Applications of analytical pyrolysis to the study of stony cultural properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 1991, 20, 239-251.	2.6	28
48	The chemical structure of fungal melanins and their possible contribution to black stains in stone monuments. <i>Science of the Total Environment</i> , 1995, 167, 305-314.	3.9	27
49	Effect of Interface Fertilization on Biodegradation of Polycyclic Aromatic Hydrocarbons Present in Nonaqueous-Phase Liquids. <i>Environmental Science &amp; Technology</i> , 2011, 45, 1074-1081.	4.6	27
50	Bacterial tactic response to silver nanoparticles. <i>Environmental Microbiology Reports</i> , 2011, 3, 526-534.	1.0	26
51	Recalcitrance of polycyclic aromatic hydrocarbons in soil contributes to background pollution. <i>Environmental Pollution</i> , 2011, 159, 3692-3699.	3.7	25
52	Tactic response of bacteria to zero-valent iron nanoparticles. <i>Environmental Pollution</i> , 2016, 213, 438-445.	3.7	25
53	Implementing standardized desorption extraction into bioavailability-oriented bioremediation of PAH-polluted soils. <i>Science of the Total Environment</i> , 2019, 696, 134011.	3.9	24
54	Scientific concepts and methods for moving persistence assessments into the 21st century. <i>Integrated Environmental Assessment and Management</i> , 2022, 18, 1454-1487.	1.6	24

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55	Influence of Low Oxygen Tensions and Sorption to Sediment Black Carbon on Biodegradation of Pyrene. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4430-4437.	1.4	22
56	Conventional pyrolysis: A biased technique for providing structural information on humic substances?. <i>Die Naturwissenschaften</i> , 1994, 81, 28-29.	0.6	21
57	Differential Responses of Eubacterial, <i>Mycobacterium</i> , and <i>Sphingomonas</i> Communities in Polycyclic Aromatic Hydrocarbon (PAH)-Contaminated Soil to Artificially Induced Changes in PAH Profile. <i>Journal of Environmental Quality</i> , 2007, 36, 1403-1411.	1.0	21
58	Bioavailability of phenanthrene and nitrobenzene sorbed on carbonaceous materials. <i>Carbon</i> , 2016, 110, 404-413.	5.4	21
59	Rhizosphere-enhanced biosurfactant action on slowly desorbing PAHs in contaminated soil. <i>Science of the Total Environment</i> , 2020, 720, 137608.	3.9	21
60	Dual partitioning and attachment effects of rhamnolipid on pyrene biodegradation under bioavailability restrictions. <i>Environmental Pollution</i> , 2015, 205, 378-384.	3.7	20
61	Root-mediated bacterial accessibility and cometabolism of pyrene in soil. <i>Science of the Total Environment</i> , 2021, 760, 143408.	3.9	19
62	Microbial induced corrosion of metallic antiquities and works of art: a critical review. <i>International Biodeterioration and Biodegradation</i> , 1992, 29, 367-375.	1.9	18
63	Flow cytometry discrimination between bacteria and clay-humic acid particles during growth-linked biodegradation of phenanthrene by <i>Pseudomonas aeruginosa</i> 19SJ. <i>FEMS Microbiology Ecology</i> , 2003, 43, 55-61.	1.3	16
64	Effect of Electrokinetics on the Bioaccessibility of Polycyclic Aromatic Hydrocarbons in Polluted Soils. <i>Journal of Environmental Quality</i> , 2010, 39, 1993-1998.	1.0	16
65	Impact of bacterial motility on biosorption and cometabolism of pyrene in a porous medium. <i>Science of the Total Environment</i> , 2020, 717, 137210.	3.9	16
66	Development of eukaryotic zoospores within polycyclic aromatic hydrocarbon (PAH)-polluted environments: A set of behaviors that are relevant for bioremediation. <i>Science of the Total Environment</i> , 2015, 511, 767-776.	3.9	14
67	Role of photo- and biodegradation of two PAHs on leaves: Modelling the impact on air quality ecosystem services provided by urban trees. <i>Science of the Total Environment</i> , 2020, 739, 139893.	3.9	14
68	Impact of Chemoeffectors on Bacterial Motility, Transport, and Contaminant Degradation in Sand-Filled Percolation Columns. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10673-10679.	4.6	12
69	Determining the bioavailability of benzo(a)pyrene through standardized desorption extraction in a certified reference contaminated soil. <i>Science of the Total Environment</i> , 2022, 803, 150025.	3.9	12
70	Decay of Roman and repair mortars in mosaics from Italica, Spain. <i>Science of the Total Environment</i> , 1994, 153, 123-131.	3.9	11
71	Mycelium-Enhanced Bacterial Degradation of Organic Pollutants under Bioavailability Restrictions. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11935-11942.	4.6	11
72	ENHANCED KINETICS OF SOLID-PHASE MICROEXTRACTION AND BIODEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN THE PRESENCE OF DISSOLVED ORGANIC MATTER. <i>Environmental Toxicology and Chemistry</i> , 2007, preprint, 1.	2.2	11

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73	Nature-based approaches to reducing the environmental risk of organic contaminants resulting from military activities. <i>Science of the Total Environment</i> , 2022, 843, 157007.	3.9	11
74	Carbon nanomaterials differentially impact mineralization kinetics of phenanthrene and indigenous microbial communities in a natural soil. <i>NanoImpact</i> , 2018, 11, 146-155.	2.4	10
75	The effect of organic acids on the behaviour and biodegradation of <sup>14</sup> C-phenanthrene in contaminated soil. <i>Soil Biology and Biochemistry</i> , 2020, 143, 107722.	4.2	10
76	Dual <sup>14</sup> C/residue analysis method to assess the microbial accessibility of native phenanthrene in environmental samples. <i>Environmental Geochemistry and Health</i> , 2008, 30, 159-163.	1.8	9
77	Mobilization of Pollutant-Degrading Bacteria by Eukaryotic Zoospores. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7633-7640.	4.6	9
78	Pyrolysis/Methylation: A Microanalytical Method for Investigating Polar Organic Compounds in Cultural Properties. <i>International Journal of Environmental Analytical Chemistry</i> , 1994, 56, 63-71.	1.8	7
79	Why Biodegradable Chemicals Persist in the Environment? A Look at Bioavailability. <i>Handbook of Environmental Chemistry</i> , 2020, , 243-265.	0.2	7
80	Role of tactic response on the mobilization of motile bacteria through micrometer-sized pores. <i>Science of the Total Environment</i> , 2022, 832, 154938.	3.9	6
81	Microbial degradation of pyrene in holm oak ( <i>Quercus ilex</i> ) phyllosphere: Role of particulate matter in regulating bioaccessibility. <i>Science of the Total Environment</i> , 2021, 786, 147431.	3.9	3
82	Bioavailability of Polycyclic Aromatic Hydrocarbons in Soil as Affected by Microorganisms and Plants. , 2017, , 305-319.		2
83	Connectivity and pore accessibility in models of soil carbon cycling. <i>Global Change Biology</i> , 2021, 27, 5405-5406.	4.2	2
84	Introduction Setting of the Scene, Definitions, and Guide to Volume. <i>Handbook of Environmental Chemistry</i> , 2020, , 1-4.	0.2	0