

# Pablo Higuera

## List of Publications by Year in descending order

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113  
papers

3,222  
citations

136740

32  
h-index

189595

50  
g-index

129  
all docs

129  
docs citations

129  
times ranked

3268  
citing authors

#	ARTICLE	IF	CITATIONS
1	An approach for evaluating the bioavailability and risk assessment of potentially toxic elements using edible and inedible plants in the Remance (Panama) mining area as a model. <i>Environmental Geochemistry and Health</i> , 2023, 45, 151-170.	1.8	3
2	Environmental challenges related to cyanidation in Central American gold mining; the Remance mine (Panama). <i>Journal of Environmental Management</i> , 2022, 302, 113979.	3.8	12
3	The evolution of the subcontinental mantle beneath the Central Iberian Zone: Geochemical tracking of its mafic magmatism from the Neoproterozoic to the Cenozoic. <i>Earth-Science Reviews</i> , 2022, 228, 103997.	4.0	10
4	Microbial diversity and activity assessment in a 100-year-old lead mine. <i>Journal of Hazardous Materials</i> , 2021, 410, 124618.	6.5	24
5	Occurrence and environmental constraints of gray monazite in red soils from the Campo de Montiel area (SW Ciudad Real province, south central Spain). <i>Environmental Science and Pollution Research</i> , 2021, 28, 4573-4584.	2.7	5
6	Geochemical Characterization and Trace-Element Mobility Assessment for Metallic Mine Reclamation in Soils Affected by Mine Activities in the Iberian Pyrite Belt. <i>Geosciences (Switzerland)</i> , 2021, 11, 233.	1.0	8
7	Biomonitoring of Hg <sup>0</sup> , Hg <sup>2+</sup> and Particulate Hg in a Mining Context Using Tree Barks+. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5191.	1.2	7
8	Abandoned Mine Lands Reclamation by Plant Remediation Technologies. <i>Sustainability</i> , 2021, 13, 6555.	1.6	19
9	Ecological and Health Risk Assessments of an Abandoned Gold Mine (Remance, Panama): Complex Scenarios Need a Combination of Indices. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9369.	1.2	15
10	Feasibility study of fluorescent lamp waste recycling by thermal desorption. <i>Environmental Science and Pollution Research</i> , 2021, 28, 61860-61868.	2.7	7
11	Spatial and Temporal Trends of Gaseous Elemental Mercury over a Highly Impacted Coastal Environment (Northern Adriatic, Italy). <i>Atmosphere</i> , 2020, 11, 935.	1.0	14
12	Characterization of the biochemical basis for copper homeostasis and tolerance in <i>Biscutella auriculata</i> L.. <i>Physiologia Plantarum</i> , 2020, 173, 167-179.	2.6	1
13	Deciphering lead tolerance mechanisms in a population of the plant species <i>Biscutella auriculata</i> L. from a mining area: Accumulation strategies and antioxidant defenses. <i>Chemosphere</i> , 2020, 261, 127721.	4.2	17
14	Evolution of the Speciation and Mobility of Pb, Zn and Cd in Relation to Transport Processes in a Mining Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4912.	1.2	10
15	Mineralogical and Geochemical Nature of Calcareous Vineyard Soils from Alcubillas (La Mancha, Tj ETQq1 1 0.784314 rgBT /Qverlock	1.2	10
16	Spatial Distribution and Biomonitoring of Atmospheric Mercury Concentrations over a Contaminated Coastal Lagoon (Northern Adriatic, Italy). <i>Atmosphere</i> , 2020, 11, 1280.	1.0	11
17	Biogeochemical assessment of the impact of Zn mining activity in the area of the Jebal Trozza mine, Central Tunisia. <i>Environmental Geochemistry and Health</i> , 2020, 42, 3529-3542.	1.8	10
18	Characterization of mechanisms involved in tolerance and accumulation of Cd in <i>Biscutella auriculata</i> L. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110784.	2.9	29

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19	Multi-pathway human exposure risk assessment using Bayesian modeling at the historically largest mercury mining district. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110833.	2.9	22
20	Experimental assessment of the daily exchange of atmospheric mercury in <i>Epipremnum aureum</i> . <i>Environmental Geochemistry and Health</i> , 2020, 42, 3185-3198.	1.8	14
21	4D dispersion of total gaseous mercury derived from a mining source: identification of criteria to assess risks related to high concentrations of atmospheric mercury. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12995-13010.	1.9	7
22	Seasonal and spatial distribution of mercury in stream sediments from Almad�n mining district. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019, 19, 121-128.	0.5	6
23	Assessment of mercury uptake routes at the soil-plant-atmosphere interface. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2019, 19, 146-154.	0.5	16
24	Use of humic substances in froth flotation processes. <i>Journal of Environmental Management</i> , 2019, 252, 109699.	3.8	5
25	Assessment of EDDS and vermicompost for the phytoextraction of Cd and Pb by sunflower ( <i>Helianthus annuus</i> L.). <i>International Journal of Phytoremediation</i> , 2019, 21, 191-199.	1.7	15
26	Assessment of Potentially Toxic Elements in Technosols by Tailings Derived from Pb-Zn-Ag Mining Activities at San Quint�n (Ciudad Real, Spain): Some Insights into the Importance of Integral Studies to Evaluate Metal Contamination Pollution Hazards. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 346.	0.8	17
27	Tailings geomorphology of the San Quint�n mining site (Spain): landform catalogue, aeolian erosion and environmental implications. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	17
28	Comparison of mercury distribution and mobility in soils affected by anthropogenic pollution around chloralkali plants and ancient mining sites. <i>Science of the Total Environment</i> , 2019, 671, 1066-1076.	3.9	22
29	Contaminated sites, waste management, and green chemistry: new challenges from monitoring to remediation. <i>Environmental Science and Pollution Research</i> , 2019, 26, 3095-3099.	2.7	12
30	Geochemical distribution of major and trace elements in agricultural soils of Castilla-La Mancha (central Spain): finding criteria for baselines and delimiting regional anomalies. <i>Environmental Science and Pollution Research</i> , 2019, 26, 3100-3114.	2.7	26
31	Factors influencing mercury uptake by leaves of stone pine ( <i>Pinus pinea</i> L.) in Almad�n (Central Spain). <i>Environmental Science and Pollution Research</i> , 2019, 26, 3129-3137.	2.7	13
32	Biogeochemical Mapping: A New Tool to Assess the Soil Quality and Health. <i>Advances in Science, Technology and Innovation</i> , 2019, , 3-5.	0.2	2
33	Modelling the mercury removal from polluted waters by using TOMAC microcapsules considering the metal speciation. <i>Chemical Engineering Journal</i> , 2018, 341, 308-316.	6.6	11
34	Mobility and fate of Thallium and other potentially harmful elements in drainage waters from a decommissioned Zn-Pb mine (North-Eastern Italian Alps). <i>Journal of Geochemical Exploration</i> , 2018, 188, 1-10.	1.5	34
35	Does mercury presence in soils promote their microbial activity? The Almadenejos case (Almad�n) <a href="#">Tj ETQq1 1 0.784314 rgBT /Overl</a>	4.2	39
36	Iron uptake in vineyard soils and relationships with other elements (Zn, Mn and Ca). The case of Castilla-La Mancha, Central Spain. <i>Applied Geochemistry</i> , 2018, 88, 17-22.	1.4	11

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37	Usage Proposal of a common urban decorative tree ( <i>Salix alba</i> L.) to monitor the dispersion of gaseous mercury: A case study from Turda (Romania). <i>Chemosphere</i> , 2018, 193, 74-81.	4.2	13
38	Particulate matter and particulate-bound mercury in a heavily polluted site related to ancient mining and metallurgy: a proposal for dry deposition modeling based on micrometeorological conditions. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35312-35321.	2.7	5
39	Zonificación de suelos vitícolas en Villanueva de Alcardete (Toledo, La Mancha, España) utilizando elementos traza. <i>E3S Web of Conferences</i> , 2018, 50, 01025.	0.2	0
40	Approach to the potential usage of two wood ashes waste as soil amendments on the basis of the dehydrogenase activity and soil oxygen consumption. <i>Journal of Soils and Sediments</i> , 2018, 18, 2148-2156.	1.5	8
41	Influence of the soil pH in the uptake and bioaccumulation of heavy metals (Fe, Zn, Cu, Pb and Mn) and other elements (Ca, K, Al, Sr and Ba) in vine leaves, Castilla-La Mancha (Spain). <i>Journal of Geochemical Exploration</i> , 2017, 174, 79-83.	1.5	93
42	The role of native lichens in the biomonitoring of gaseous mercury at contaminated sites. <i>Journal of Environmental Management</i> , 2017, 186, 207-213.	3.8	27
43	A combined photovoltaic and novel renewable energy system: An optimized techno-economic analysis for mining industry applications. <i>Journal of Cleaner Production</i> , 2017, 149, 999-1010.	4.6	23
44	Bioaccumulation of thallium and other trace metals in <i>Biscutella laevigata</i> nearby a decommissioned zinc-lead mine (Northeastern Italian Alps). <i>Journal of Environmental Management</i> , 2017, 186, 214-224.	3.8	36
45	Potentially harmful elements in soils and holm-oak trees ( <i>Quercus ilex</i> L.) growing in mining sites at the Valle de Alcudia Pb-Zn district (Spain) – Some clues on plant metal uptake. <i>Journal of Geochemical Exploration</i> , 2017, 182, 166-179.	1.5	21
46	Trace metal pollution in freshwater sediments of the world's largest mercury mining district: sources, spatial distribution, and environmental implications. <i>Journal of Soils and Sediments</i> , 2017, 17, 1893-1904.	1.5	26
47	Incidence of the Almadén historical mining district on the hydrochemical characteristics of Valdeazogues Basin (Spain). <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 44, 052034.	0.2	1
48	Predicting the Stability of Homologous Gene Duplications in a Plant RNA Virus. <i>Genome Biology and Evolution</i> , 2016, 8, 3065-3082.	1.1	20
49	Time variations of gaseous and reactive mercury in the industrial area of Puertollano (south-central Tj ETQq1 1 0.784314 rgBT /Overl 1.9	1.9	5
50	Sequential extraction procedure as a tool to investigate PTHE geochemistry and potential geoavailability of dam sediments (Almadén mining district, Spain). <i>Catena</i> , 2016, 147, 394-403.	2.2	14
51	Characterization and remediation of contamination: the influences of mining and other human activities. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5997-6001.	2.7	4
52	Distribution of chemical elements in calc-alkaline igneous rocks, soils, sediments and tailings deposits in northern central Chile. <i>Journal of South American Earth Sciences</i> , 2016, 69, 25-42.	0.6	10
53	Temporal variations in gaseous elemental mercury concentrations at a contaminated site: Main factors affecting nocturnal maxima in daily cycles. <i>Atmospheric Environment</i> , 2016, 125, 8-14.	1.9	24
54	Heavy metal contamination in sediments of an artificial reservoir impacted by long-term mining activity in the Almadén mercury district (Spain). <i>Environmental Science and Pollution Research</i> , 2016, 23, 6024-6038.	2.7	56

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55	Mercury transfer from soil to olive trees. A comparison of three different contaminated sites. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6055-6061.	2.7	14
56	Effect of the addition of sewage sludge as a fertilizer on a sandy vineyard soil. <i>Journal of Soils and Sediments</i> , 2016, 16, 1360-1365.	1.5	15
57	Adsorption of biosolids and their main components on chalcopyrite, molybdenite and pyrite: Zeta potential and FTIR spectroscopy studies. <i>Minerals Engineering</i> , 2015, 78, 128-135.	1.8	72
58	Hydrochemistry of Ground Waters from Urban Wells in Almad�n (Central Spain): Water Quality Around the World's Largest Mercury Mining-Metallurgical Complex. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	2
59	Atmospheric mercury pollution around a chlor-alkali plant in Flix (NE Spain): an integrated analysis. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4842-4850.	2.7	42
60	An estimation of mercury concentrations in the local atmosphere of Almad�n (Ciudad Real Province). <i>Environmental Science and Pollution Research</i> , 2015, 22, 4833-4841.	2.7	16
61	Soil pollution related to mercury-mining activities in the proximity of Usagre (Badajoz, SW Spain). <i>International Journal of Mining, Reclamation and Environment</i> , 2014, 28, 377-388.	1.2	5
62	Stream bottom sediments as a means to assess metal contamination in the historic mining district of Almad�n (Spain). <i>International Journal of Mining, Reclamation and Environment</i> , 2014, 28, 357-376.	1.2	17
63	Assessment of the floatability of chalcopyrite, molybdenite and pyrite using biosolids and their main components as collectors for greening the froth flotation of copper sulphide ores. <i>Minerals Engineering</i> , 2014, 64, 38-43.	1.8	21
64	Pb, Zn, Cd, As Pollution in Soils Affected by Mining Activities in Central and Southern Spain: A Scattered Legacy Posing Potential Environmental and Health Concerns. <i>Handbook of Environmental Chemistry</i> , 2014, , 175-205.	0.2	2
65	Mercury Soil Pollution in Spain: A Review. <i>Handbook of Environmental Chemistry</i> , 2014, , 135-158.	0.2	7
66	A compilation of field surveys on gaseous elemental mercury (GEM) from contrasting environmental settings in Europe, South America, South Africa and China: separating fads from facts. <i>Environmental Geochemistry and Health</i> , 2014, 36, 713-734.	1.8	49
67	Variations in mercury and other trace elements contents in soil and in vine leaves from the Almad�n Hg-mining district. <i>Journal of Soils and Sediments</i> , 2014, 14, 773-777.	1.5	6
68	Greening Chilean copper mining operations through industrial ecology strategies. <i>Journal of Cleaner Production</i> , 2014, 84, 671-679.	4.6	35
69	Environmental geochemistry of a highly polluted area: The La Union Pb-Zn mine (Castilla-La Mancha). <i>Environmental Science and Pollution Research</i> , 2014, 21, 7843-7852.	1.5	26
70	Evaluation of Mercury Stress in Plants from the Almad�n Mining District by Analysis of Phytochelatins and Their Hg Complexes. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6256-6263.	4.6	49
71	Intraplate mafic magmatism, degasification, and deposition of mercury: The giant Almad�n mercury deposit (Spain) revisited. <i>Ore Geology Reviews</i> , 2013, 51, 93-102.	1.1	37
72	Mercury isotope fractionation during ore retorting in the Almad�n mining district, Spain. <i>Chemical Geology</i> , 2013, 357, 150-157.	1.4	41

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73	Lupinus albus plants acquire mercury tolerance when inoculated with an Hg-resistant Bradyrhizobium strain. <i>Plant Physiology and Biochemistry</i> , 2013, 73, 168-175.	2.8	35
74	Industrial and natural sources of gaseous elemental mercury in the Almad�n district (Spain): An updated report on this issue after the ceasing of mining and metallurgical activities in 2003 and major land reclamation works. <i>Environmental Research</i> , 2013, 125, 197-208.	3.7	28
75	Distribution of gaseous Hg in the Mercury mining district of Mt. Amiata (Central Italy): A geochemical survey prior the reclamation project. <i>Environmental Research</i> , 2013, 125, 179-187.	3.7	59
76	Mercury emissions in equilibrium: a novel approach for the quantification of mercury emissions from contaminated soils. <i>Analytical Methods</i> , 2013, 5, 2793.	1.3	17
77	Low-cost geochemical surveys for environmental studies in developing countries: Testing a field portable XRF instrument under quasi-realistic conditions. <i>Journal of Geochemical Exploration</i> , 2012, 113, 3-12.	1.5	68
78	Mercury vapor emissions from the Ingenios in Potos� (Bolivia). <i>Journal of Geochemical Exploration</i> , 2012, 116-117, 1-7.	1.5	13
79	Mercury-resistant rhizobial bacteria isolated from nodules of leguminous plants growing in high Hg-contaminated soils. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 543-554.	1.7	50
80	Time and space variations in mercury and other trace element contents in olive tree leaves from the Almad�n Hg-mining district. <i>Journal of Geochemical Exploration</i> , 2012, 123, 143-151.	1.5	32
81	Mercury emission and dispersion models from soils contaminated by cinnabar mining and metallurgy. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3460.	2.1	35
82	Sampling high to extremely high Hg concentrations at the Cerco de Almadenejos, Almad�n mining district (Spain): The old metallurgical precinct (1794 to 1861AD) and surrounding areas. <i>Journal of Geochemical Exploration</i> , 2011, 109, 70-77.	1.5	41
83	The Mazarr�n Pb�(Ag)�Zn mining district (SE Spain) as a source of heavy metal contamination in a semiarid realm: Geochemical data from mine wastes, soils, and stream sediments. <i>Journal of Geochemical Exploration</i> , 2011, 109, 113-124.	1.5	46
84	Determinants of exposure to mercury in hair from inhabitants of the largest mercury mine in the world. <i>Chemosphere</i> , 2011, 84, 571-577.	4.2	42
85	The MERSADE (European Union) project: Testing procedures and environmental impact for the safe storage of liquid mercury in the Almad�n district, Spain. <i>Science of the Total Environment</i> , 2010, 408, 4901-4905.	3.9	16
86	XANES speciation of mercury in three mining districts � Almad�n, Asturias (Spain), Idria (Slovenia). <i>Journal of Synchrotron Radiation</i> , 2010, 17, 179-186.	1.0	49
87	In Vitro Studies Evaluating Leaching of Mercury from Mine Waste Calcine Using Simulated Human Body Fluids. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4782-4788.	4.6	74
88	Environmental assessment of the arsenic-rich, Rodalquilar gold�(copper�lead�zinc) mining district, SE Spain: data from soils and vegetation. <i>Environmental Geology</i> , 2009, 58, 761.	1.2	21
89	Plate Interactions, Evolving Magmatic Styles, and Inheritance of Structural Paths: Development of the Gold-Rich, Miocene El Indio Epithermal Belt, Northern Chile. <i>International Geology Review</i> , 2007, 49, 844-853.	1.1	5
90	Mercury in air and plant specimens in herbaria: A pilot study at the MAF Herbarium in Madrid (Spain). <i>Science of the Total Environment</i> , 2007, 387, 346-352.	3.9	31

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91	Mineral deposits and Cu-Zn-As dispersion contamination in stream sediments from the semiarid Coquimbo Region, Chile. <i>Environmental Geology</i> , 2007, 53, 283-294.	1.2	31
92	Strong Metal Anomalies in Stream Sediments from Semiarid Watersheds in Northern Chile: When Geological and Structural Analyses Contribute to Understanding Environmental Disturbances. <i>International Geology Review</i> , 2006, 48, 1133-1144.	1.1	15
93	Microprobe Techniques for Speciation Analysis and Geochemical Characterization of Mine Environments: The Mercury District of Almad�n in Spain. <i>Environmental Science &amp; Technology</i> , 2006, 40, 4090-4095.	4.6	108
94	The As-Contaminated Elqui River Basin: a Long Lasting Perspective (1975-1995) Covering the Initiation and Development of Au-Cu-As Mining in the High Andes of Northern Chile. <i>Environmental Geochemistry and Health</i> , 2006, 28, 431-443.	1.8	39
95	Mercury accumulation in soils and plants in the Almad�n mining district, Spain: one of the most contaminated sites on Earth. <i>Environmental Geochemistry and Health</i> , 2006, 28, 487-498.	1.8	91
96	The Almad�n district (Spain): Anatomy of one of the world's largest Hg-contaminated sites. <i>Science of the Total Environment</i> , 2006, 356, 112-124.	3.9	139
97	Atmospheric mercury data for the Coquimbo region, Chile: influence of mineral deposits and metal recovery practices. <i>Atmospheric Environment</i> , 2005, 39, 7587-7596.	1.9	16
98	Size fractionation in mercury-bearing airborne particles (HgPM10) at Almad�n, Spain: Implications for inhalation hazards around old mines. <i>Atmospheric Environment</i> , 2005, 39, 6409-6419.	1.9	47
99	First lead isotopic data for cinnabar in the Almad�n district (Spain): implications for the genesis of the mercury deposits. <i>Mineralium Deposita</i> , 2005, 40, 115-122.	1.7	22
100	Pre-industrial Metal Anomalies in Ice Cores: A Simplified Reassessment of Windborne Soil Dust Contribution and Volcanic Activity during the Last Glaciation. <i>International Geology Review</i> , 2005, 47, 1120-1130.	1.1	7
101	Treatment of Wastewater Contaminated by Mercury by Adsorption on the Crandallite Mineral. , 2005, , 243-250.		0
102	Mercury Speciation and Microbial Transformations in Mine Wastes, Stream Sediments, and Surface Waters at the Almad�n Mining District, Spain. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4285-4292.	4.6	194
103	Environmental assessment of copper-gold-mercury mining in the Andacollo and Punitaqui districts, northern Chile. <i>Applied Geochemistry</i> , 2004, , .	1.4	0
104	Strong arsenic enrichment in sediments from the Elqui watershed, Northern Chile: industrial (gold) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 84, 53-64.	1.5	76
105	Environmental assessment of copper-gold-mercury mining in the Andacollo and Punitaqui districts, northern Chile. <i>Applied Geochemistry</i> , 2004, 19, 1855-1864.	1.4	74
106	Elimination of inorganic mercury from waste waters using crandallite-type compounds. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 399-405.	1.6	11
107	A first insight into mercury distribution and speciation in soils from the Almad�n mining district, Spain. <i>Journal of Geochemical Exploration</i> , 2003, 80, 95-104.	1.5	152
108	Geology and geochemistry of high-grade, volcanic rock-hosted, mercury mineralisation in the Nuevo Entredicho deposit, Almad�n district, Spain. <i>Mineralium Deposita</i> , 2002, 37, 421-432.	1.7	17

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109	Fuchsite and other Cr-rich phyllosilicates in ultramafic enclaves from the Almad�n mercury mining district, Spain. <i>Clay Minerals</i> , 2001, 36, 345-354.	0.2	10
110	Palaeozoic magmatic-related hydrothermal activity in the Almad�n syncline, Spain: a long-lasting Silurian to Devonian process?. <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2000, 109, 199-202.	0.8	6
111	The Las Cuevas deposit, Almaden district (Spain): An unusual case of deep-seated advanced argillic alteration related to mercury mineralization. <i>Mineralium Deposita</i> , 1999, 34, 211-214.	1.7	24
112	The Almad�n mercury mining district, Spain. <i>Mineralium Deposita</i> , 1999, 34, 539-548.	1.7	74
113	Dating of alteration episodes related to mercury mineralization in the Almad�n district, Spain. <i>Earth and Planetary Science Letters</i> , 1997, 148, 287-298.	1.8	64