## Neus Otero

## List of Publications by Year in descending order

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117571 102432 4,708 93 34 66 h-index citations g-index papers 100 100 100 4730 citing authors

times ranked

docs citations

all docs

#	Article	IF	CITATIONS
1	Fluctuations in Precambrian atmospheric oxygenation recorded by chromium isotopes. Nature, 2009, 461, 250-253.	13.7	554
2	Fertilizer Characterization:Â Isotopic Data (N, S, O, C, and Sr). Environmental Science & Environmenta	4.6	347
3	Nitrate pollution of groundwater; all right…, but nothing else?. Science of the Total Environment, 2016, 539, 241-251.	3.9	205
4	Fertiliser characterisation: Major, trace and rare earth elements. Applied Geochemistry, 2005, 20, 1473-1488.	1.4	196
5	The geographic distribution of strontium isotopes in Danish surface waters – A base for provenance studies in archaeology, hydrology and agriculture. Applied Geochemistry, 2011, 26, 326-340.	1.4	183
6	Denitrification of groundwater with pyrite and Thiobacillus denitrificans. Chemical Geology, 2010, 278, 80-91.	1.4	160
7	Onset of main Phanerozoic marine radiation sparked by emerging Mid Ordovician icehouse. Scientific Reports, 2016, 6, 18884.	1.6	146
8	Monitoring groundwater nitrate attenuation in a regional system coupling hydrogeology with multi-isotopic methods: The case of Plana de Vic (Osona, Spain). Agriculture, Ecosystems and Environment, 2009, 133, 103-113.	2.5	136
9	Enhanced denitrification in groundwater and sediments from a nitrate-contaminated aquifer after addition of pyrite. Chemical Geology, 2011, 287, 90-101.	1.4	135
10	Highly fractionated chromium isotopes in Mesoproterozoic-aged shales and atmospheric oxygen. Nature Communications, 2018, 9, 2871.	5.8	130
11	Tracing the dynamic life story of a Bronze Age Female. Scientific Reports, 2015, 5, 10431.	1.6	112
12	Controls of $\hat{l}$ 34S and $\hat{l}$ 18O in dissolved sulphate: Learning from a detailed survey in the Llobregat River (Spain). Applied Geochemistry, 2008, 23, 1166-1185.	1.4	86
13	Characterizing sources and natural attenuation of nitrate contamination in the Baix Ter aquifer system (NE Spain) using a multi-isotope approach. Science of the Total Environment, 2017, 580, 518-532.	3.9	85
14	Environmental isotopes (N, S, C, O, D) to determine natural attenuation processes in nitrate contaminated waters: Example of Osona (NE Spain). Applied Geochemistry, 2008, 23, 3597-3611.	1.4	83
15	Bioavailable 87Sr/86Sr in European soils: A baseline for provenancing studies. Science of the Total Environment, 2019, 672, 1033-1044.	3.9	81
16	Relative vs. absolute statistical analysis of compositions: A comparative study of surface waters of a Mediterranean river. Water Research, 2005, 39, 1404-1414.	5.3	80
17	Combining multi-isotopic and molecular source tracking methods to identify nitrate pollution sources in surface and groundwater. Water Research, 2021, 188, 116537.	5.3	78
18	Mesoproterozoic evolution of the RÃo de la Plata Craton in Uruguay: at the heart of Rodinia?. International Journal of Earth Sciences, 2011, 100, 273-288.	0.9	77

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19	Oxidative elemental cycling under the low O2 Eoarchean atmosphere. Scientific Reports, 2016, 6, 21058.	1.6	74
20	Time constraints on the tectonic evolution of the Eastern Sierras Pampeanas (Central Argentina). International Journal of Earth Sciences, 2010, 99, 1199-1226.	0.9	71
21	The geographic distribution of Sr isotopes from surface waters and soil extracts over the island of Bornholm (Denmark) – A base for provenance studies in archaeology and agriculture. Applied Geochemistry, 2013, 38, 147-160.	1.4	63
22	A matter of months: High precision migration chronology of a Bronze Age female. PLoS ONE, 2017, 12, e0178834.	1.1	60
23	Application of chromium stable isotopes to the evaluation of Cr(VI) contamination in groundwater and rock leachates from central Euboea and the Assopos basin (Greece). Catena, 2014, 122, 216-228.	2.2	54
24	Sulphur isotopes as tracers of the influence of potash mining in groundwater salinisation in the Llobregat Basin (NE Spain). Water Research, 2002, 36, 3989-4000.	5.3	53
25	Agricultural and urban delivered nitrate pollution input to Mediterranean temporary freshwaters. Agriculture, Ecosystems and Environment, 2020, 294, 106859.	2.5	53
26	Paleo- and Neoproterozoic magmatic and tectonometamorphic evolution of the Isla Cristalina de Rivera (Nico P©rez Terrane, Uruguay). International Journal of Earth Sciences, 2012, 101, 1745-1762.	0.9	46
27	Environmentally available hexavalent chromium in soils and sediments impacted by dispersed fly ash in Sarigkiol basin (Northern Greece). Environmental Pollution, 2018, 235, 632-641.	3.7	46
28	East Greenland ice core dust record reveals timing of Greenland ice sheet advance and retreat. Nature Communications, 2019, 10, 4494.	5.8	45
29	Multi-isotope (carbon and chlorine) analysis for fingerprinting and site characterization at a fractured bedrock aquifer contaminated by chlorinated ethenes. Science of the Total Environment, 2014, 475, 61-70.	3.9	44
30	Mapping human mobility during the third and second millennia BC in present-day Denmark. PLoS ONE, 2019, 14, e0219850.	1.1	44
31	Using dual-isotope data to trace the origin and processes of dissolved sulphate: a case study in Calders stream (Llobregat basin, Spain). Aquatic Geochemistry, 2007, 13, 109-126.	1.5	43
32	Cl and C isotope analysis to assess the effectiveness of chlorinated ethene degradation by zero-valent iron: Evidence from dual element and product isotope values. Applied Geochemistry, 2013, 32, 175-183.	1.4	42
33	Multi-isotope proveniencing of human remains from a Bronze Age battlefield in the Tollense Valley in northeast Germany. Archaeological and Anthropological Sciences, 2019, 11, 33-49.	0.7	40
34	Title is missing!. Water, Air, and Soil Pollution, 2002, 136, 207-224.	1.1	39
35	Investigative monitoring of pesticide and nitrogen pollution sources in a complex multi-stressed catchment: The lower Llobregat River basin case study (Barcelona, Spain). Science of the Total Environment, 2021, 755, 142377.	3.9	37
36	A strontium isotope baseline of Cyprus. Assessing the use of soil leachates, plants, groundwater and surface water as proxies for the local range of bioavailable strontium isotope composition. Science of the Total Environment, 2020, 708, 134714.	3.9	36

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37	A multi-isotopic approach to investigate the influence of land use on nitrate removal in a highly saline lake-aquifer system. Science of the Total Environment, 2018, 631-632, 649-659.	3.9	35
38	Geodynamic evolution of the Eastern Sierras Pampeanas (Central Argentina) based on geochemical, Sm–Nd, Pb–Pb and SHRIMP data. International Journal of Earth Sciences, 2011, 100, 631-657.	0.9	34
39	Some Basic Concepts of Compositional Geometry. Mathematical Geosciences, 2005, 37, 673-680.	0.9	30
40	Carbon isotope fractionation of $1,1,1$ -trichloroethane during base-catalyzed persulfate treatment. Journal of Hazardous Materials, 2013, 260, 61-66.	6.5	30
41	C, Cl and H compound-specific isotope analysis to assess natural versus Fe(0) barrier-induced degradation of chlorinated ethenes at a contaminated site. Journal of Hazardous Materials, 2015, 299, 747-754.	6.5	30
42	Induced nitrate attenuation by glucose in groundwater: Flow-through experiment. Chemical Geology, 2014, 370, 19-28.	1.4	29
43	Monitoring induced denitrification during managed aquifer recharge in an infiltration pond. Journal of Hydrology, 2018, 561, 123-135.	2.3	28
44	Petrogenetic and geodynamic origin of the Neoarchean Dor $\tilde{A}$ © Lake Complex, Abitibi subprovince, Superior Province, Canada. International Journal of Earth Sciences, 2018, 107, 811-843.	0.9	28
45	Latent Compositional Factors in The Llobregat River Basin (Spain) Hydrogeochemistry. Mathematical Geosciences, 2005, 37, 681-702.	0.9	27
46	Isotope characterization of an in situ biodenitrification pilot-test in a fractured aquifer. Applied Geochemistry, 2013, 32, 153-163.	1.4	27
47	Carbon isotope fractionation of chlorinated ethenes during oxidation by Fe2+ activated persulfate. Science of the Total Environment, 2012, 433, 318-322.	3.9	26
48	The role of Lower Cretaceous sediments in groundwater nitrate attenuation in central Spain: Column experiments. Applied Geochemistry, 2013, 32, 142-152.	1.4	26
49	Heterogeneity and incorporation of chromium isotopes in recent marine molluscs (Mytilus). Geobiology, 2019, 17, 417-435.	1.1	25
50	Nitrate as a tracer of groundwater flow in a fractured multilayered aquifer. Hydrological Sciences Journal, 2011, 56, 108-122.	1.2	24
51	Use of nitrogen and oxygen isotopes of dissolved nitrate to trace field-scale induced denitrification efficiency throughout an in-situ groundwater remediation strategy. Science of the Total Environment, 2019, 686, 709-718.	3.9	24
52	An overview of anorthosite-bearing layered intrusions in the Archaean craton of southern West Greenland and the Superior Province of Canada: implications for Archaean tectonics and the origin of megacrystic plagioclase. Geodinamica Acta, 2018, 30, 84-99.	2.2	23
53	Isotopic evidence of nitrate degradation by a zero-valent iron permeable reactive barrier: Batch experiments and a field scale study. Journal of Hydrology, 2019, 570, 69-79.	2.3	23
54	Do all roads lead to Rome? Exploring community trajectories in response to anthropogenic salinization and dilution of rivers. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180009.	1.8	23

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55	Denitrification in a hypersaline lake–aquifer system (Pétrola Basin, Central Spain): The role of recent organic matter and Cretaceous organic rich sediments. Science of the Total Environment, 2014, 497-498, 594-606.	3.9	21
56	Feasibility of two low-cost organic substrates for inducing denitrification in artificial recharge ponds: Batch and flow-through experiments. Journal of Contaminant Hydrology, 2017, 198, 48-58.	1.6	21
57	Biologically mediated release of endogenous N2O and NO2 gases in a hydrothermal, hypoxic subterranean environment. Science of the Total Environment, 2020, 747, 141218.	3.9	21
58	Goldilocks at the dawn of complex life: mountains might have damaged Ediacaran–Cambrian ecosystems and prompted an early Cambrian greenhouse world. Scientific Reports, 2021, 11, 20010.	1.6	20
59	Nitrate attenuation potential of hypersaline lake sediments in central Spain: Flow-through and batch experiments. Journal of Contaminant Hydrology, 2014, 164, 323-337.	1.6	19
60	The Use of Alkaline Hydrolysis As a Novel Strategy for Chloroform Remediation: The Feasibility of Using Construction Wastes and Evaluation of Carbon Isotopic Fractionation. Environmental Science & Eamp; Technology, 2014, 48, 1869-1877.	4.6	19
61	Coral-based climate records from tropical South Atlantic: 2009/2010 ENSO event in C and O isotopes from Porites corals (Rocas Atoll, Brazil). Anais Da Academia Brasileira De Ciencias, 2015, 87, 1939-1957.	0.3	19
62	Main sources and processes affecting dissolved sulphates and nitrates in a small irrigated basin (Lerma Basin, Zaragoza, Spain): Isotopic characterization. Agriculture, Ecosystems and Environment, 2014, 195, 127-138.	2.5	18
63	Ediacaran Doushantuo-type biota discovered in Laurentia. Communications Biology, 2020, 3, 647.	2.0	17
64	Pulsed volcanism and rapid oceanic deoxygenation during Oceanic Anoxic Event 1a. Geology, 2021, 49, 1452-1456.	2.0	17
65	Nitrate and nitrite reduction by ferrous iron minerals in polluted groundwater: Isotopic characterization of batch experiments. Chemical Geology, 2020, 548, 119691.	1.4	17
66	Origin and evolution of groundwater collected by a desalination plant (Tordera, Spain): A multi-isotopic approach. Journal of Hydrology, 2011, 397, 37-46.	2.3	15
67	Tracing sulfate recycling in the hypersaline Pétrola Lake (SE Spain): A combined isotopic and microbiological approach. Chemical Geology, 2017, 473, 74-89.	1.4	15
68	Fractionation Behavior of Chromium Isotopes during the Sorption of Cr (VI) on Kaolin and its Implications for Using Black Shales as a Paleoredox Archive. Geochemistry, Geophysics, Geosystems, 2019, 20, 2290-2302.	1.0	15
69	Subtle Cr isotope signals track the variably anoxic Cryogenian interglacial period with voluminous manganese accumulation and decrease in biodiversity. Scientific Reports, 2019, 9, 15056.	1.6	14
70	Evaluating the potential use of a dairy industry residue to induce denitrification in polluted water bodies: A flow-through experiment. Journal of Environmental Management, 2019, 245, 86-94.	3.8	14
71	Testing Late Bronze Age mobility in southern Sweden in the light of a new multi-proxy strontium isotope baseline of Scania. PLoS ONE, 2021, 16, e0250279.	1.1	14
72	Tracing the role of endogenous carbon in denitrification using wine industry by-product as an external electron donor: Coupling isotopic tools with mathematical modeling. Journal of Environmental Management, 2018, 207, 105-115.	3.8	13

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73	Fresh biochar application provokes a reduction of nitrate which is unexplained by conventional mechanisms. Science of the Total Environment, 2021, 755, 142430.	3.9	13
74	The geographic distribution of bioavailable strontium isotopes in Greece – A base for provenance studies in archaeology. Science of the Total Environment, 2021, 791, 148156.	3.9	13
75	Characterisation of the natural attenuation of chromium contamination in the presence of nitrate using isotopic methods. A case study from the Matanza-Riachuelo River basin, Argentina. Science of the Total Environment, 2020, 699, 134331.	3.9	12
76	Microbially induced chromium isotope fractionation and trace elements behavior in lower Cambrian microbialites from the JaÃba Member, BambuÃ-Basin, Brazil. Geobiology, 2021, 19, 125-146.	1.1	11
77	Early Cambrian highly metalliferous black shale in South China: Cu and Zn isotopes and a short review of other non-traditional stable isotopes. Mineralium Deposita, 2022, 57, 1167-1187.	1.7	11
78	A back-arc origin for the Neoarchean megacrystic anorthosite-bearing Bird River Sill and the associated greenstone belt, Bird River subprovince, Western Superior Province, Manitoba, Canada. International Journal of Earth Sciences, 2019, 108, 2177-2207.	0.9	10
79	Impact of fertilization with pig slurry on the isotopic composition of nitrate retained in soil and leached to groundwater in agricultural areas. Applied Geochemistry, 2021, 125, 104832.	1.4	10
80	Geochemical and isotopic study of abiotic nitrite reduction coupled to biologically produced Fe(II) oxidation in marine environments. Chemosphere, 2020, 260, 127554.	4.2	9
81	Using a multi-disciplinary approach to characterize groundwater systems in arid and semi-arid environments: The case of Biskra and Batna regions (NE Algeria). Science of the Total Environment, 2021, 757, 143797.	3.9	8
82	The proper choice of proxies for relevant strontium isotope baselines used for provenance and mobility studies in glaciated terranes $\hat{a} \in \text{``Important messages from Denmark. Science of the Total Environment, 2022, 821, 153394.}$	3.9	8
83	Feasibility of using rural waste products to increase the denitrification efficiency in a surface flow constructed wetland. Journal of Hydrology, 2019, 578, 124035.	2.3	7
84	Influence of nitrogen-based fertilization on nitrates occurrence in groundwater of hilly vineyards. Science of the Total Environment, 2021, 766, 144512.	3.9	7
85	Chromium Isotope Systematics in Modern and Ancient Microbialites. Minerals (Basel, Switzerland), 2020, 10, 928.	0.8	5
86	Cadmium isotopes in Bahamas platform carbonates: A base for reconstruction of past surface water bioproductivity and their link with chromium isotopes. Science of the Total Environment, 2022, 806, 150565.	3.9	3
87	Sulfur Recycling Processes in a Eutrophic Hypersaline System: Pétrola Lake (SE, Spain). Procedia Earth and Planetary Science, 2017, 17, 201-204.	0.6	2
88	Chemical and isotopic characterization of nitrate retained and leached from soil after manure fertilization-by lysimeter experiments. E3S Web of Conferences, 2019, 98, 12016.	0.2	2
89	Factors Controlling the Chromium Isotope Compositions in Podiform Chromitites. Minerals (Basel,) Tj ETQq $1\ 1$	0.784314	rgBT /Overlo
90	Combining Isotopic and Compositional Data: A Discrimination of Regions Prone to Nitrate Pollution. , 0, , 302-317.		2

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#	Article	IF	CITATIONS
91	Petrogenesis of the late Archean Pillow Basalts from the Chitradurga greenstone belt, Western Dharwar Craton (southern India). Journal of Earth System Science, 2022, 131, 1.	0.6	1
92	Evaluation of Two Carbon Sources for Inducing Denitrification: Batch and Column Experiments. Procedia Earth and Planetary Science, 2015, 13, 124-128.	0.6	0
93	Isotopic fractionation associated to nitrate attenuation by ferrous iron containing minerals. E3S Web of Conferences, 2019, 98, 12013.	0.2	0