

Neus Otero

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/743385/publications.pdf>

Version: 2024-02-01

93
papers

4,708
citations

117571

34
h-index

102432

66
g-index

100
all docs

100
docs citations

100
times ranked

4730
citing authors

#	ARTICLE	IF	CITATIONS
1	Cadmium isotopes in Bahamas platform carbonates: A base for reconstruction of past surface water bioproductivity and their link with chromium isotopes. <i>Science of the Total Environment</i> , 2022, 806, 150565.	3.9	3
2	The proper choice of proxies for relevant strontium isotope baselines used for provenance and mobility studies in glaciated terranes – Important messages from Denmark. <i>Science of the Total Environment</i> , 2022, 821, 153394.	3.9	8
3	Early Cambrian highly metalliferous black shale in South China: Cu and Zn isotopes and a short review of other non-traditional stable isotopes. <i>Mineralium Deposita</i> , 2022, 57, 1167-1187.	1.7	11
4	Petrogenesis of the late Archean Pillow Basalts from the Chitradurga greenstone belt, Western Dharwar Craton (southern India). <i>Journal of Earth System Science</i> , 2022, 131, 1.	0.6	1
5	Fresh biochar application provokes a reduction of nitrate which is unexplained by conventional mechanisms. <i>Science of the Total Environment</i> , 2021, 755, 142430.	3.9	13
6	Combining multi-isotopic and molecular source tracking methods to identify nitrate pollution sources in surface and groundwater. <i>Water Research</i> , 2021, 188, 116537.	5.3	78
7	Impact of fertilization with pig slurry on the isotopic composition of nitrate retained in soil and leached to groundwater in agricultural areas. <i>Applied Geochemistry</i> , 2021, 125, 104832.	1.4	10
8	Using a multi-disciplinary approach to characterize groundwater systems in arid and semi-arid environments: The case of Biskra and Batna regions (NE Algeria). <i>Science of the Total Environment</i> , 2021, 757, 143797.	3.9	8
9	Microbially induced chromium isotope fractionation and trace elements behavior in lower Cambrian microbialites from the JaÅba Member, BambuÅ-Basin, Brazil. <i>Geobiology</i> , 2021, 19, 125-146.	1.1	11
10	Investigative monitoring of pesticide and nitrogen pollution sources in a complex multi-stressed catchment: The lower Llobregat River basin case study (Barcelona, Spain). <i>Science of the Total Environment</i> , 2021, 755, 142377.	3.9	37
11	Influence of nitrogen-based fertilization on nitrates occurrence in groundwater of hilly vineyards. <i>Science of the Total Environment</i> , 2021, 766, 144512.	3.9	7
12	Testing Late Bronze Age mobility in southern Sweden in the light of a new multi-proxy strontium isotope baseline of Scania. <i>PLoS ONE</i> , 2021, 16, e0250279.	1.1	14
13	Pulsed volcanism and rapid oceanic deoxygenation during Oceanic Anoxic Event 1a. <i>Geology</i> , 2021, 49, 1452-1456.	2.0	17
14	The geographic distribution of bioavailable strontium isotopes in Greece – A base for provenance studies in archaeology. <i>Science of the Total Environment</i> , 2021, 791, 148156.	3.9	13
15	Goldilocks at the dawn of complex life: mountains might have damaged Ediacaran – Cambrian ecosystems and prompted an early Cambrian greenhouse world. <i>Scientific Reports</i> , 2021, 11, 20010.	1.6	20
16	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. <i>Science of the Total Environment</i> , 2020, 699, 134331.	3.9	12
17	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. <i>Science of the Total Environment</i> , 2020, 708, 134714.	3.9	36
18	Ediacaran Doushantuo-type biota discovered in Laurentia. <i>Communications Biology</i> , 2020, 3, 647.	2.0	17

#	ARTICLE	IF	CITATIONS
19	Biologically mediated release of endogenous N ₂ O and NO ₂ gases in a hydrothermal, hypoxic subterranean environment. <i>Science of the Total Environment</i> , 2020, 747, 141218.	3.9	21
20	Chromium Isotope Systematics in Modern and Ancient Microbialites. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 928.	0.8	5
21	Factors Controlling the Chromium Isotope Compositions in Podiform Chromitites. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 928.	0.8	5
22	Geochemical and isotopic study of abiotic nitrite reduction coupled to biologically produced Fe(II) oxidation in marine environments. <i>Chemosphere</i> , 2020, 260, 127554.	4.2	9
23	Agricultural and urban delivered nitrate pollution input to Mediterranean temporary freshwaters. <i>Agriculture, Ecosystems and Environment</i> , 2020, 294, 106859.	2.5	53
24	Nitrate and nitrite reduction by ferrous iron minerals in polluted groundwater: Isotopic characterization of batch experiments. <i>Chemical Geology</i> , 2020, 548, 119691.	1.4	17
25	Mapping human mobility during the third and second millennia BC in present-day Denmark. <i>PLoS ONE</i> , 2019, 14, e0219850.	1.1	44
26	A back-arc origin for the Neoproterozoic megacrystic anorthosite-bearing Bird River Sill and the associated greenstone belt, Bird River subprovince, Western Superior Province, Manitoba, Canada. <i>International Journal of Earth Sciences</i> , 2019, 108, 2177-2207.	0.9	10
27	Subtle Cr isotope signals track the variably anoxic Cryogenian interglacial period with voluminous manganese accumulation and decrease in biodiversity. <i>Scientific Reports</i> , 2019, 9, 15056.	1.6	14
28	East Greenland ice core dust record reveals timing of Greenland ice sheet advance and retreat. <i>Nature Communications</i> , 2019, 10, 4494.	5.8	45
29	Chemical and isotopic characterization of nitrate retained and leached from soil after manure fertilization-by lysimeter experiments. <i>E3S Web of Conferences</i> , 2019, 98, 12016.	0.2	2
30	Feasibility of using rural waste products to increase the denitrification efficiency in a surface flow constructed wetland. <i>Journal of Hydrology</i> , 2019, 578, 124035.	2.3	7
31	Isotopic fractionation associated to nitrate attenuation by ferrous iron containing minerals. <i>E3S Web of Conferences</i> , 2019, 98, 12013.	0.2	0
32	Evaluating the potential use of a dairy industry residue to induce denitrification in polluted water bodies: A flow-through experiment. <i>Journal of Environmental Management</i> , 2019, 245, 86-94.	3.8	14
33	Use of nitrogen and oxygen isotopes of dissolved nitrate to trace field-scale induced denitrification efficiency throughout an in-situ groundwater remediation strategy. <i>Science of the Total Environment</i> , 2019, 686, 709-718.	3.9	24
34	Bioavailable ⁸⁷ Sr/ ⁸⁶ Sr in European soils: A baseline for provenancing studies. <i>Science of the Total Environment</i> , 2019, 672, 1033-1044.	3.9	81
35	Fractionation Behavior of Chromium Isotopes during the Sorption of Cr (VI) on Kaolin and its Implications for Using Black Shales as a Paleoredox Archive. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2290-2302.	1.0	15
36	Heterogeneity and incorporation of chromium isotopes in recent marine molluscs (<i>Mytilus</i>). <i>Geobiology</i> , 2019, 17, 417-435.	1.1	25

#	ARTICLE	IF	CITATIONS
37	Isotopic evidence of nitrate degradation by a zero-valent iron permeable reactive barrier: Batch experiments and a field scale study. <i>Journal of Hydrology</i> , 2019, 570, 69-79.	2.3	23
38	Do all roads lead to Rome? Exploring community trajectories in response to anthropogenic salinization and dilution of rivers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180009.	1.8	23
39	Multi-isotope proveniencing of human remains from a Bronze Age battlefield in the Tollense Valley in northeast Germany. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 33-49.	0.7	40
40	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. <i>Geodinamica Acta</i> , 2018, 30, 84-99.	2.2	23
41	Environmentally available hexavalent chromium in soils and sediments impacted by dispersed fly ash in Sarigkiol basin (Northern Greece). <i>Environmental Pollution</i> , 2018, 235, 632-641.	3.7	46
42	Monitoring induced denitrification during managed aquifer recharge in an infiltration pond. <i>Journal of Hydrology</i> , 2018, 561, 123-135.	2.3	28
43	A multi-isotopic approach to investigate the influence of land use on nitrate removal in a highly saline lake-aquifer system. <i>Science of the Total Environment</i> , 2018, 631-632, 649-659.	3.9	35
44	Petrogenetic and geodynamic origin of the Neoproterozoic Dorset Lake Complex, Abitibi subprovince, Superior Province, Canada. <i>International Journal of Earth Sciences</i> , 2018, 107, 811-843.	0.9	28
45	Tracing the role of endogenous carbon in denitrification using wine industry by-product as an external electron donor: Coupling isotopic tools with mathematical modeling. <i>Journal of Environmental Management</i> , 2018, 207, 105-115.	3.8	13
46	Highly fractionated chromium isotopes in Mesoproterozoic-aged shales and atmospheric oxygen. <i>Nature Communications</i> , 2018, 9, 2871.	5.8	130
47	Feasibility of two low-cost organic substrates for inducing denitrification in artificial recharge ponds: Batch and flow-through experiments. <i>Journal of Contaminant Hydrology</i> , 2017, 198, 48-58.	1.6	21
48	Sulfur Recycling Processes in a Eutrophic Hypersaline System: Párola Lake (SE, Spain). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 201-204.	0.6	2
49	Characterizing sources and natural attenuation of nitrate contamination in the Baix Ter aquifer system (NE Spain) using a multi-isotope approach. <i>Science of the Total Environment</i> , 2017, 580, 518-532.	3.9	85
50	Tracing sulfate recycling in the hypersaline Párola Lake (SE Spain): A combined isotopic and microbiological approach. <i>Chemical Geology</i> , 2017, 473, 74-89.	1.4	15
51	A matter of months: High precision migration chronology of a Bronze Age female. <i>PLoS ONE</i> , 2017, 12, e0178834.	1.1	60
52	Oxidative elemental cycling under the low O ₂ Eoarchean atmosphere. <i>Scientific Reports</i> , 2016, 6, 21058.	1.6	74
53	Onset of main Phanerozoic marine radiation sparked by emerging Mid Ordovician icehouse. <i>Scientific Reports</i> , 2016, 6, 18884.	1.6	146
54	Nitrate pollution of groundwater; all right€, but nothing else?. <i>Science of the Total Environment</i> , 2016, 539, 241-251.	3.9	205

#	ARTICLE	IF	CITATIONS
55	Evaluation of Two Carbon Sources for Inducing Denitrification: Batch and Column Experiments. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 124-128.	0.6	0
56	Coral-based climate records from tropical South Atlantic: 2009/2010 ENSO event in C and O isotopes from <i>Porites</i> corals (Rocas Atoll, Brazil). <i>Anais Da Academia Brasileira De Ciencias</i> , 2015, 87, 1939-1957.	0.3	19
57	Tracing the dynamic life story of a Bronze Age Female. <i>Scientific Reports</i> , 2015, 5, 10431.	1.6	112
58	C, Cl and H compound-specific isotope analysis to assess natural versus Fe(0) barrier-induced degradation of chlorinated ethenes at a contaminated site. <i>Journal of Hazardous Materials</i> , 2015, 299, 747-754.	6.5	30
59	Main sources and processes affecting dissolved sulphates and nitrates in a small irrigated basin (Lerma Basin, Zaragoza, Spain): Isotopic characterization. <i>Agriculture, Ecosystems and Environment</i> , 2014, 195, 127-138.	2.5	18
60	Induced nitrate attenuation by glucose in groundwater: Flow-through experiment. <i>Chemical Geology</i> , 2014, 370, 19-28.	1.4	29
61	Multi-isotope (carbon and chlorine) analysis for fingerprinting and site characterization at a fractured bedrock aquifer contaminated by chlorinated ethenes. <i>Science of the Total Environment</i> , 2014, 475, 61-70.	3.9	44
62	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). <i>Catena</i> , 2014, 122, 216-228.	2.2	54
63	Nitrate attenuation potential of hypersaline lake sediments in central Spain: Flow-through and batch experiments. <i>Journal of Contaminant Hydrology</i> , 2014, 164, 323-337.	1.6	19
64	Denitrification in a hypersaline lake's aquifer system (P�trola Basin, Central Spain): The role of recent organic matter and Cretaceous organic rich sediments. <i>Science of the Total Environment</i> , 2014, 497-498, 594-606.	3.9	21
65	The Use of Alkaline Hydrolysis As a Novel Strategy for Chloroform Remediation: The Feasibility of Using Construction Wastes and Evaluation of Carbon Isotopic Fractionation. <i>Environmental Science & Technology</i> , 2014, 48, 1869-1877.	4.6	19
66	The role of Lower Cretaceous sediments in groundwater nitrate attenuation in central Spain: Column experiments. <i>Applied Geochemistry</i> , 2013, 32, 142-152.	1.4	26
67	Carbon isotope fractionation of 1,1,1-trichloroethane during base-catalyzed persulfate treatment. <i>Journal of Hazardous Materials</i> , 2013, 260, 61-66.	6.5	30
68	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. <i>Applied Geochemistry</i> , 2013, 32, 175-183.	1.4	42
69	Isotope characterization of an in situ biodenitrification pilot-test in a fractured aquifer. <i>Applied Geochemistry</i> , 2013, 32, 153-163.	1.4	27
70	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. <i>Applied Geochemistry</i> , 2013, 38, 147-160.	1.4	63
71	Carbon isotope fractionation of chlorinated ethenes during oxidation by Fe ²⁺ activated persulfate. <i>Science of the Total Environment</i> , 2012, 433, 318-322.	3.9	26
72	Paleo- and Neoproterozoic magmatic and tectonometamorphic evolution of the Isla Cristalina de Rivera (Nico P�rez Terrane, Uruguay). <i>International Journal of Earth Sciences</i> , 2012, 101, 1745-1762.	0.9	46

#	ARTICLE	IF	CITATIONS
73	Nitrate as a tracer of groundwater flow in a fractured multilayered aquifer. <i>Hydrological Sciences Journal</i> , 2011, 56, 108-122.	1.2	24
74	The geographic distribution of strontium isotopes in Danish surface waters – A base for provenance studies in archaeology, hydrology and agriculture. <i>Applied Geochemistry</i> , 2011, 26, 326-340.	1.4	183
75	Enhanced denitrification in groundwater and sediments from a nitrate-contaminated aquifer after addition of pyrite. <i>Chemical Geology</i> , 2011, 287, 90-101.	1.4	135
76	Origin and evolution of groundwater collected by a desalination plant (Tordera, Spain): A multi-isotopic approach. <i>Journal of Hydrology</i> , 2011, 397, 37-46.	2.3	15
77	Mesoproterozoic evolution of the Río de la Plata Craton in Uruguay: at the heart of Rodinia?. <i>International Journal of Earth Sciences</i> , 2011, 100, 273-288.	0.9	77
78	Geodynamic evolution of the Eastern Sierras Pampeanas (Central Argentina) based on geochemical, Sm–Nd, Pb–Pb and SHRIMP data. <i>International Journal of Earth Sciences</i> , 2011, 100, 631-657.	0.9	34
79	Time constraints on the tectonic evolution of the Eastern Sierras Pampeanas (Central Argentina). <i>International Journal of Earth Sciences</i> , 2010, 99, 1199-1226.	0.9	71
80	Denitrification of groundwater with pyrite and <i>Thiobacillus denitrificans</i> . <i>Chemical Geology</i> , 2010, 278, 80-91.	1.4	160
81	Fluctuations in Precambrian atmospheric oxygenation recorded by chromium isotopes. <i>Nature</i> , 2009, 461, 250-253.	13.7	554
82	Monitoring groundwater nitrate attenuation in a regional system coupling hydrogeology with multi-isotopic methods: The case of Plana de Vic (Osona, Spain). <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 103-113.	2.5	136
83	Controls of $\delta^{34}\text{S}$ and $\delta^{18}\text{O}$ in dissolved sulphate: Learning from a detailed survey in the Llobregat River (Spain). <i>Applied Geochemistry</i> , 2008, 23, 1166-1185.	1.4	86
84	Environmental isotopes (N, S, C, O, D) to determine natural attenuation processes in nitrate contaminated waters: Example of Osona (NE Spain). <i>Applied Geochemistry</i> , 2008, 23, 3597-3611.	1.4	83
85	Using dual-isotope data to trace the origin and processes of dissolved sulphate: a case study in Calders stream (Llobregat basin, Spain). <i>Aquatic Geochemistry</i> , 2007, 13, 109-126.	1.5	43
86	Some Basic Concepts of Compositional Geometry. <i>Mathematical Geosciences</i> , 2005, 37, 673-680.	0.9	30
87	Latent Compositional Factors in The Llobregat River Basin (Spain) Hydrogeochemistry. <i>Mathematical Geosciences</i> , 2005, 37, 681-702.	0.9	27
88	Relative vs. absolute statistical analysis of compositions: A comparative study of surface waters of a Mediterranean river. <i>Water Research</i> , 2005, 39, 1404-1414.	5.3	80
89	Fertiliser characterisation: Major, trace and rare earth elements. <i>Applied Geochemistry</i> , 2005, 20, 1473-1488.	1.4	196
90	Fertilizer Characterization: Isotopic Data (N, S, O, C, and Sr). <i>Environmental Science & Technology</i> , 2004, 38, 3254-3262.	4.6	347

#	ARTICLE	IF	CITATIONS
91	Sulphur isotopes as tracers of the influence of potash mining in groundwater salinisation in the Llobregat Basin (NE Spain). <i>Water Research</i> , 2002, 36, 3989-4000.	5.3	53
92	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2002, 136, 207-224.	1.1	39
93	Combining Isotopic and Compositional Data: A Discrimination of Regions Prone to Nitrate Pollution. , 0, , 302-317.		2