

Roberto Terzano

List of Publications by Year in descending order

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94
papers

3,844
citations

159525

30
h-index

138417

58
g-index

95
all docs

95
docs citations

95
times ranked

5303
citing authors

#	ARTICLE	IF	CITATIONS
1	Chert sources and Early to Middle Neolithic exploitation in the Tavoliere (Northern Apulia, Italy). <i>Quaternary International</i> , 2022, 615, 43-65.	0.7	4
2	Overcome the limits of multi-contaminated industrial soils bioremediation: Insights from a multi-disciplinary study. <i>Journal of Hazardous Materials</i> , 2022, 421, 126762.	6.5	7
3	SEM-EDX hyperspectral data analysis for the study of soil aggregates. <i>Geoderma</i> , 2022, 406, 115540.	2.3	11
4	Synthesis and Use in Catalysis of Hematite Nanoparticles Obtained from a Polymer Supported Fe(III) Complex. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	10
5	Investigating Lead Bioavailability in a Former Shooting Range by Soil Microanalyses and Earthworms Tests. <i>Soil Systems</i> , 2022, 6, 25.	1.0	6
6	Dry fractionation as a promising technology to reuse the physically defected legume-based gluten-free pasta. <i>International Journal of Food Science and Technology</i> , 2022, 57, 4816-4824.	1.3	3
7	Evidence of hexavalent chromium formation and changes of Cr speciation after laboratory-simulated fires of composted tannery sludges long-term amended agricultural soils. <i>Journal of Hazardous Materials</i> , 2022, 436, 129117.	6.5	7
8	In Situ Formation of Zwitterionic Ligands: Changing the Passivation Paradigms of CsPbBr ₃ Nanocrystals. <i>Nano Letters</i> , 2022, 22, 4437-4444.	4.5	30
9	Microplastics make their way into the soil and rhizosphere: A review of the ecological consequences. <i>Rhizosphere</i> , 2022, 22, 100542.	1.4	22
10	Size-tunable and stable cesium lead-bromide perovskite nanocubes with near-unity photoluminescence quantum yield. <i>Nanoscale Advances</i> , 2021, 3, 3918-3928.	2.2	9
11	Antinutritional factors, mineral composition and functional properties of dry fractionated flours as influenced by the type of pulse. <i>Heliyon</i> , 2021, 7, e06177.	1.4	36
12	Combined Effect of Laboratory-Simulated Fire and Chromium Pollution on Microbial Communities in an Agricultural Soil. <i>Biology</i> , 2021, 10, 587.	1.3	5
13	Investigating the evolution of fractures in clay-based ceramics during repeated freeze-thawing cycles using X-ray micro-computed tomography and image analysis. <i>Materials Characterization</i> , 2021, 177, 111185.	1.9	2
14	Fire effects on the distribution and bioavailability of potentially toxic elements (PTEs) in agricultural soils. <i>Chemosphere</i> , 2021, 281, 130752.	4.2	34
15	A Smart and Sustainable Future for Viticulture Is Rooted in Soil: How to Face Cu Toxicity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 907.	1.3	25
16	Insights into the role of the lead/surfactant ratio in the formation and passivation of cesium lead bromide perovskite nanocrystals. <i>Nanoscale</i> , 2020, 12, 623-637.	2.8	48
17	Chemical analysis of cesium lead-halide perovskite nanocrystals by total-reflection X-ray fluorescence spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 164, 105750.	1.5	5
18	Distribution and compositional fingerprints of primary and secondary chert sources in Northern Apulia (Italy). <i>Journal of Cultural Heritage</i> , 2020, 42, 213-225.	1.5	1

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19	On the air atmospheric pressure plasma treatment effect on the physiology, germination and seedlings of basil seeds. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 104001.	1.3	23
20	Synthetic zeolite materials from recycled glass and aluminium food packaging as potential oenological adjuvant. <i>Food Packaging and Shelf Life</i> , 2020, 26, 100572.	3.3	9
21	A new route for the shape differentiation of cesium lead bromide perovskite nanocrystals with near-unity photoluminescence quantum yield. <i>Nanoscale</i> , 2020, 12, 17053-17063.	2.8	16
22	Plasmopara viticola infection affects mineral elements allocation and distribution in Vitis vinifera leaves. <i>Scientific Reports</i> , 2020, 10, 18759.	1.6	20
23	Microwave-Assisted Solvothermal Synthesis of Fe ₃ O ₄ /CeO ₂ Nanocomposites and Their Catalytic Activity in the Imine Formation from Benzyl Alcohol and Aniline. <i>Catalysts</i> , 2020, 10, 1325.	1.6	11
24	The origin of early Acheulean expansion in Europe 700k ago: new findings at Notarchirico (Italy). <i>Scientific Reports</i> , 2020, 10, 13802.	1.6	36
25	Innovative Chemistry for Environmental Enhancement. <i>Chemistry International</i> , 2020, 42, 41-44.	0.3	0
26	The fertilising potential of manure-based biogas fermentation residues: pelleted vs. liquid digestate. <i>Heliyon</i> , 2020, 6, e03325.	1.4	53
27	Phytoremediation and detoxification of xenobiotics in plants: herbicide-safeners as a tool to improve plant efficiency in the remediation of polluted environments. A mini-review. <i>International Journal of Phytoremediation</i> , 2020, 22, 789-803.	1.7	41
28	Macro-classification of meteorites by portable energy dispersive X-ray fluorescence spectroscopy (pED-XRF), principal component analysis (PCA) and machine learning algorithms. <i>Talanta</i> , 2020, 212, 120785.	2.9	34
29	Shape Tailoring of Iodine-Based Cesium Lead Halide Perovskite Nanocrystals in Hot-Injection Methods. <i>ChemNanoMat</i> , 2020, 6, 356-361.	1.5	18
30	Assessing chromium pollution and natural stabilization processes in agricultural soils by bulk and micro X-ray analyses. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22967-22979.	2.7	19
31	Recent advances in analysis of trace elements in environmental samples by X-ray based techniques (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2019, 91, 1029-1063.	0.9	31
32	Hydroponic Solutions for Soilless Production Systems: Issues and Opportunities in a Smart Agriculture Perspective. <i>Frontiers in Plant Science</i> , 2019, 10, 923.	1.7	195
33	Correlations between As in Earthworms' Coelomic Fluid and As Bioavailability in Highly Polluted Soils as Revealed by Combined Laboratory X-ray Techniques. <i>Environmental Science & Technology</i> , 2019, 53, 10961-10968.	4.6	10
34	Development of a multiparametric characterisation protocol for chert investigation and application on the Gargano Promontory mines. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 6037-6063.	0.7	8
35	A fast method for the chemical analysis of clays by total-reflection x-ray fluorescence spectroscopy (TXRF). <i>Applied Clay Science</i> , 2019, 180, 105201.	2.6	13
36	Iron oxide-humic acid coprecipitates as iron source for cucumber plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 921-933.	1.1	5

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37	Cadmium decontamination through ball milling using an expandable clay mineral. <i>Applied Clay Science</i> , 2019, 182, 105256.	2.6	15
38	Exploring the surface chemistry of cesium lead halide perovskite nanocrystals. <i>Nanoscale</i> , 2019, 11, 986-999.	2.8	106
39	Multianalytical characterization of biochar and hydrochar produced from waste biomasses for environmental and agricultural applications. <i>Chemosphere</i> , 2019, 233, 422-430.	4.2	81
40	Rapid multi-element characterization of microgreens via total-reflection X-ray fluorescence (TXRF) spectrometry. <i>Food Chemistry</i> , 2019, 296, 86-93.	4.2	19
41	Carbon nanotube reinforced poly(trimethylene terephthalate) nanocomposites: Viscoelastic properties and chain confinement. <i>Polymer Engineering and Science</i> , 2019, 59, E435.	1.5	7
42	Alkaline hydrothermal stabilization of Cr(VI) in soil using glass and aluminum from recycled municipal solid wastes. <i>Journal of Hazardous Materials</i> , 2018, 344, 381-389.	6.5	8
43	Application of micro X-ray fluorescence and micro computed tomography to the study of laser cleaning efficiency on limestone monuments covered by black crusts. <i>Talanta</i> , 2018, 178, 419-425.	2.9	9
44	Iron Mobilization and Mineralogical Alterations Induced by Iron-Deficient Cucumber Plants (Cucumis Tj ETQq0 0 0,rgBT /Overlock 10 TF	2.1	10
45	Nutritional characterization and shelf-life of packaged microgreens. <i>Food and Function</i> , 2018, 9, 5629-5640.	2.1	72
46	Effect of MWCNTs on Wetting and Thermal Properties of an Immiscible Polymer Blend. <i>Macromolecular Symposia</i> , 2018, 381, 1800103.	0.4	8
47	Cellular Fractionation and Nanoscopic X-Ray Fluorescence Imaging Analyses Reveal Changes of Zinc Distribution in Leaf Cells of Iron-Deficient Plants. <i>Frontiers in Plant Science</i> , 2018, 9, 1112.	1.7	29
48	First evidence of wulfenite in Calabria Region (Southern Italy). <i>Data in Brief</i> , 2018, 19, 687-692.	0.5	7
49	Characterization of As-polluted soils by laboratory X-ray-based techniques coupled with sequential extractions and electron microscopy: the case of Crocette gold mine in the Monte Rosa mining district (Italy). <i>Environmental Science and Pollution Research</i> , 2018, 25, 25080-25090.	2.7	18
50	Solubilization of insoluble zinc compounds by zinc solubilizing bacteria (ZSB) and optimization of their growth conditions. <i>Environmental Science and Pollution Research</i> , 2018, 25, 25862-25868.	2.7	49
51	Cultivation of Potted Sea Fennel, an Emerging Mediterranean Halophyte, Using a Renewable Seaweed-Based Material as a Peat Substitute. <i>Agriculture (Switzerland)</i> , 2018, 8, 96.	1.4	24
52	Does Fe accumulation in durum wheat seeds benefit from improved whole-plant sulfur nutrition?. <i>Journal of Cereal Science</i> , 2018, 83, 74-82.	1.8	36
53	Determination of As concentration in earthworm coelomic fluid extracts by total-reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 130, 21-25.	1.5	12
54	Multiwalled carbon nanotube promotes crystallisation while preserving co-continuous phase morphology of polycarbonate/polypropylene blend. <i>Polymer Testing</i> , 2017, 64, 1-11.	2.3	19

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55	Non-destructive, multi-method, internal analysis of multiple inclusions in a single diamond: First occurrence of mackinawite (Fe,Ni) _{1+x} S. <i>American Mineralogist</i> , 2017, 102, 2235-2243.	0.9	5
56	Effects of municipal solid waste- and sewage sludge-compost-based growing media on the yield and heavy metal content of four lettuce cultivars. <i>Environmental Science and Pollution Research</i> , 2017, 24, 25406-25415.	2.7	29
57	Leaf biochemical responses and fruit oil quality parameters in olive plants subjected to airborne metal pollution. <i>Chemosphere</i> , 2017, 168, 514-522.	4.2	16
58	Degradation of citrate promotes copper co-precipitation within aluminium-(hydr)oxides in calcareous soils. <i>Biology and Fertility of Soils</i> , 2017, 53, 115-128.	2.3	3
59	Silicon dynamics in the rhizosphere: Connections with iron mobilization. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 409-417.	1.1	31
60	Copper accumulation in vineyard soils: Rhizosphere processes and agronomic practices to limit its toxicity. <i>Chemosphere</i> , 2016, 162, 293-307.	4.2	161
61	Combined effect of organic acids and flavonoids on the mobilization of major and trace elements from soil. <i>Biology and Fertility of Soils</i> , 2015, 51, 685-695.	2.3	22
62	Plant-microorganism-soil interactions influence the Fe availability in the rhizosphere of cucumber plants. <i>Plant Physiology and Biochemistry</i> , 2015, 87, 45-52.	2.8	96
63	Iron allocation in leaves of Fe-deficient cucumber plants fed with natural Fe complexes. <i>Physiologia Plantarum</i> , 2015, 154, 82-94.	2.6	25
64	Microbial interactions in the rhizosphere: beneficial influences of plant growth-promoting rhizobacteria on nutrient acquisition process. A review. <i>Biology and Fertility of Soils</i> , 2015, 51, 403-415.	2.3	658
65	Nature and reactivity of layered double hydroxides formed by coprecipitating Mg, Al and As(V): Effect of arsenic concentration, pH, and aging. <i>Journal of Hazardous Materials</i> , 2015, 300, 504-512.	6.5	33
66	Root architecture and morphometric analysis of <i>Arabidopsis thaliana</i> grown in Cd/Cu/Zn-gradient agar dishes: A new screening technique for studying plant response to metals. <i>Plant Physiology and Biochemistry</i> , 2015, 91, 20-27.	2.8	48
67			

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73	Iron (Fe) speciation in xylem sap by XANES at a high brilliant synchrotron X-ray source: opportunities and limitations. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5411-5419.	1.9	21
74	Spatially resolved (semi)quantitative determination of iron (Fe) in plants by means of synchrotron micro X-ray fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3341-3350.	1.9	31
75	Colloidal mercury (Hg) distribution in soil samples by sedimentation field-flow fractionation coupled to mercury cold vapour generation atomic absorption spectroscopy. <i>Journal of Environmental Monitoring</i> , 2012, 14, 138-145.	2.1	7
76	Plant-borne flavonoids released into the rhizosphere: impact on soil bio-activities related to plant nutrition. A review. <i>Biology and Fertility of Soils</i> , 2012, 48, 123-149.	2.3	254
77	Hg bioavailability and impact on bacterial communities in a long-term polluted soil. <i>Journal of Environmental Monitoring</i> , 2011, 13, 145-156.	2.1	22
78	Corn salad (<i>Valerianella locusta</i> (L.) Laterr.) growth in a water-saving floating system as affected by iron and sulfate availability. <i>Journal of the Science of Food and Agriculture</i> , 2011, 91, 344-354.	1.7	19
79	Mercury distribution in soils and plants surrounding an industrial area in the South of Italy. <i>International Journal of Environment and Waste Management</i> , 2010, 5, 79.	0.2	4
80	Solving mercury (Hg) speciation in soil samples by synchrotron X-ray microspectroscopic techniques. <i>Environmental Pollution</i> , 2010, 158, 2702-2709.	3.7	45
81	Recent trends in quantitative aspects of microscopic X-ray fluorescence analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 464-478.	5.8	65
82	Mercury speciation in the colloidal fraction of a soil polluted by a chlor-alkali plant: a case study in the South of Italy. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 187-192.	1.0	15
83	Synchrotron radiation in soil and geosciences. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 147-148.	1.0	6
84	Micro-analytical, physiological and molecular aspects of Fe acquisition in leaves of Fe-deficient tomato plants re-supplied with natural Fe-complexes in nutrient solution. <i>Plant and Soil</i> , 2009, 325, 25-38.	1.8	53
85	Possibilities and limitations of synchrotron X-ray powder diffraction with double crystal and double multilayer monochromators for microscopic speciation studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 775-781.	1.5	16
86	Comparison of Hg concentrations in ombrotrophic peat and corresponding humic acids, and implications for the use of bogs as archives of atmospheric Hg deposition. <i>Geoderma</i> , 2009, 148, 399-404.	2.3	28
87	Zinc Distribution and Speciation within Rocket Plants (<i>Eruca vesicaria</i> L. <i>Cavaleri</i>) Grown on a Polluted Soil Amended with Compost as Determined by XRF Microtomography and Micro-XANES. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 3222-3231.	2.4	87
88	Microscopic single particle characterization of zeolites synthesized in a soil polluted by copper or cadmium and treated with coal fly ash. <i>Applied Clay Science</i> , 2007, 35, 128-138.	2.6	25
89	Assessing the Origin and Fate of Cr, Ni, Cu, Zn, Pb, and V in Industrial Polluted Soil by Combined Microspectroscopic Techniques and Bulk Extraction Methods. <i>Environmental Science & Technology</i> , 2007, 41, 6762-6769.	4.6	71
90	Spectroscopic investigation on the chemical forms of Cu during the synthesis of zeolite X at low temperature. <i>Applied Geochemistry</i> , 2006, 21, 993-1005.	1.4	21

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91	Seed coat tannins and bruchid resistance in stored cowpea seeds. <i>Journal of the Science of Food and Agriculture</i> , 2005, 85, 839-846.	1.7	83
92	Zeolite synthesis from pre-treated coal fly ash in presence of soil as a tool for soil remediation. <i>Applied Clay Science</i> , 2005, 29, 99-110.	2.6	53
93	Copper Stabilization by Zeolite Synthesis in Polluted Soils Treated with Coal Fly Ash. <i>Environmental Science & Technology</i> , 2005, 39, 6280-6287.	4.6	57
94	An electrospray ionization ion trap mass spectrometric (ESI-MS-MSn) study of dehydroascorbic acid hydrolysis at neutral pH. <i>Analyst, The</i> , 2000, 125, 2244-2248.	1.7	24