

Antonio Lanzirotti

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The absorption indicatrix as an empirical model to describe anisotropy in X-ray absorption spectra of pyroxenes. <i>American Mineralogist</i> , 2022, 107, 654-663.	1.9	5
2	An Experimental-XANES Investigation of Cr Valence Systematics in Basaltic Liquids and Applications to Modeling Cr ²⁺ /Cr Evolution in Crystallizing Basaltic Magma Systems. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 130-151.	3.9	3
3	Tools for uranium characterization in carbonate samples: case studies of natural U–Pb geochronology reference materials. <i>Geochronology</i> , 2021, 3, 103-122.	2.5	18
4	Rapid reduction of basaltic glasses in piston-cylinder experiments: a XANES study. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	4
5	Radiation-Induced Changes in Vanadium Speciation in Basaltic Glasses: Implications for Oxybarometry Measurements Using Vanadium K-edge X-ray Absorption Spectroscopy. <i>American Mineralogist</i> , 2021, , .	1.9	1
6	Trace elemental behavior in the solar nebula: Synchrotron X-ray fluorescence analyses of CM and CR chondritic iron sulfides and associated metal. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 310, 131-154.	3.9	2
7	SMART mineral mapping: Synchrotron-based machine learning approach for 2D characterization with coupled micro XRF-XRD. <i>Computers and Geosciences</i> , 2021, 156, 104898.	4.2	19
8	Improving the reliability of Fe- and S-XANES measurements in silicate glasses: Correcting beam damage and identifying Fe-oxide nanolites in hydrous and anhydrous melt inclusions. <i>Chemical Geology</i> , 2021, 586, 120610.	3.3	14
9	Oxybarometry and valence quantification based on microscale X-ray absorption fine structure (XAFS) spectroscopy of multivalent elements. <i>Chemical Geology</i> , 2020, 531, 119305.	3.3	15
10	Redox state of Earth's magma ocean and its Venus-like early atmosphere. <i>Science Advances</i> , 2020, 6, .	10.3	69
11	Valence determinations and oxybarometry on FIB-sectioned olivine and pyroxene using correlated Ti, V, and Cr micro-XAFS spectroscopy: Evaluation of ion-milling effects and application to Antarctic micrometeorite grains. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2553-2569.	1.6	1
12	In-situ mapping of ferric iron variations in lunar glasses using X-ray absorption spectroscopy. <i>American Mineralogist</i> , 2019, 104, 453-458.	1.9	6
13	The source of sulfate in brachiopod calcite: Insights from ^{1/4} XRF imaging and XANES spectroscopy. <i>Chemical Geology</i> , 2019, 529, 119328.	3.3	10
14	Selective Ion Accumulation in Biomineralizing Marine Acantharia. <i>Microscopy and Microanalysis</i> , 2019, 25, 1072-1073.	0.4	1
15	Enhanced Immobilization of Arsenic from Acid Mine Drainage by Detrital Clay Minerals. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2525-2538.	2.7	7
16	Insights into past ocean proxies from micron-scale mapping of sulfur species in carbonates. <i>Geology</i> , 2019, 47, 833-837.	4.4	12
17	Direct measurements of copper speciation in basaltic glasses: understanding the relative roles of sulfur and oxygen in copper complexation in melts. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 267, 164-178.	3.9	15
18	Depositional and diagenetic constraints on the abundance and spatial variability of carbonate-associated sulfate. <i>Chemical Geology</i> , 2019, 523, 59-72.	3.3	23

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19	Solubility and speciation of iron in hydrothermal fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 252, 126-143.	3.9	38
20	Localization of Free and Bound Metal Species through X-Ray Synchrotron Fluorescence Microscopy in the Rodent Brain and Their Relation to Behavior. <i>Brain Sciences</i> , 2019, 9, 74.	2.3	12
21	Ice-VII inclusions in diamonds: Evidence for aqueous fluid in Earth's deep mantle. <i>Science</i> , 2018, 359, 1136-1139.	12.6	166
22	Vanadium, sulfur, and iron valences in melt inclusions as a window into magmatic processes: A case study at Nyamuragira volcano, Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 149-173.	3.9	15
23	Substitution and diffusion of Cr ²⁺ and Cr ³⁺ in synthetic forsterite and natural olivine at 1200–1500 °C and 1 bar. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 407-428.	3.9	35
24	A Mössbauer-based XANES calibration for hydrous basalt glasses reveals radiation-induced oxidation of Fe. <i>American Mineralogist</i> , 2018, 103, 489-501.	1.9	57
25	Accurate predictions of microscale oxygen barometry in basaltic glasses using V K-edge X-ray absorption spectroscopy: A multivariate approach. <i>American Mineralogist</i> , 2018, 103, 1282-1297.	1.9	16
26	Copper complexation and solubility in high-temperature hydrothermal fluids: A combined study by Raman, X-ray fluorescence, and X-ray absorption spectroscopies and ab initio molecular dynamics simulations. <i>Chemical Geology</i> , 2018, 494, 69-79.	3.3	14
27	Chemical complexity induced local structural distortion in NiCoFeMnCr high-entropy alloy. <i>Materials Research Letters</i> , 2018, 6, 450-455.	8.7	54
28	In situ measurement of ferric iron in lunar glass beads using Fe-XAS. <i>Icarus</i> , 2017, 285, 95-102.	2.5	16
29	Spatially Resolved Elemental Analysis, Spectroscopy and Diffraction at the GSECARS Sector at the Advanced Photon Source. <i>Journal of Environmental Quality</i> , 2017, 46, 1158-1165.	2.0	24
30	Shock-transformation of whitlockite to merrillite and the implications for meteoritic phosphate. <i>Nature Communications</i> , 2017, 8, 14667.	12.8	37
31	Evaluating zinc isotope fractionation under sulfate reducing conditions using a flow-through cell and in situ XAS analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 1-14.	3.9	29
32	The bulk valence state of Fe and the origin of water in chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 211, 115-132.	3.9	42
33	Ion Diffusion Within Water Films in Unsaturated Porous Media. <i>Environmental Science & Technology</i> , 2017, 51, 4338-4346.	10.0	24
34	Intraplate mantle oxidation by volatile-rich silicic magmas. <i>Lithos</i> , 2017, 292-293, 320-333.	1.4	11
35	Quantifying and correcting the effects of anisotropy in XANES measurements of chromium valence in olivine: Implications for a new olivine oxybarometer. <i>American Mineralogist</i> , 2017, 102, 1165-1172.	1.9	8
36	Subretinal Pigment Epithelial Deposition of Drusen Components Including Hydroxyapatite in a Primary Cell Culture Model. , 2017, 58, 708.		105

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37	ARSENIC REMOVAL FROM HIGH SALINITY WASTEWATER THROUGH BARITE CO-PRECIPITATION. , 2017, , .		0
38	Use of multivariate analysis for synchrotron micro-XANES analysis of iron valence state in amphiboles. American Mineralogist, 2016, 101, 1171-1189.	1.9	30
39	Structure and thermodynamic stability of U_3O_{10} , a U(<i>v</i>)-bearing compound. Dalton Transactions, 2016, 45, 18892-18899.	3.3	6
40	Structure and thermodynamics of uranium-containing iron garnets. Geochimica Et Cosmochimica Acta, 2016, 189, 269-281.	3.9	41
41	Synchrotron X-ray fluorescence spectroscopy of salts in natural sea ice. Earth and Space Science, 2016, 3, 463-479.	2.6	13
42	Neurotoxins during the Renaissance. Bioarcheology of Ferrante II of Aragon (1469-1496) and Isabella of Aragon (1470-1524). Journal of Archaeological Science: Reports, 2016, 5, 542-546.	0.5	0
43	U(<i>v</i>) in metal uranates: a combined experimental and theoretical study of $MgUO_4$, $CrUO_4$, and $FeUO_4$. Dalton Transactions, 2016, 45, 4622-4632.	3.3	45
44	Structural environment of iron and accurate determination of Fe^{3+}/Fe ratios in andesitic glasses by XANES and Mössbauer spectroscopy. Chemical Geology, 2016, 428, 48-58.	3.3	36
45	Accurate predictions of iron redox state in silicate glasses: A multivariate approach using X-ray absorption spectroscopy. American Mineralogist, 2016, 101, 744-747.	1.9	26
46	High-speed, coupled micro-beam XRD/XRF/XAFS mapping at GSECARS: APS Beamline 13-ID-E. , 2016, , 53-64.		3
47	<i>IN SITU</i> MEASUREMENT OF FERRIC IRON IN LUNAR GLASS BEADS USING FE-XAS. , 2016, , .		0
48	HIGH ENERGY SYNCHROTRON X-RAY MICROSPECTROSCOPY FOR GEOCHEMICAL CHARACTERIZATION OF TERRESTRIAL AND EXTRATERRESTRIAL SAMPLES. , 2016, , .		0
49	INVESTIGATIONS INTO THE DEGASSING OF NYAMURAGIRA VOLCANO (D.R. CONGO, AFRICA) THROUGH SYNCHROTRON MICRO-XANES ANALYSIS. , 2016, , .		0
50	The effect of ore roasting on arsenic oxidation state and solid phase speciation in gold mine tailings. Geochemistry: Exploration, Environment, Analysis, 2015, 15, 273-291.	0.9	23
51	Spectroscopic Evidence of Uranium Immobilization in Acidic Wetlands by Natural Organic Matter and Plant Roots. Environmental Science & Technology, 2015, 49, 2823-2832.	10.0	39
52	Identification of hydroxyapatite spherules provides new insight into subretinal pigment epithelial deposit formation in the aging eye. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1565-1570.	7.1	101
53	Evaluating the cement stabilization of arsenic-bearing iron wastes from drinking water treatment. Journal of Hazardous Materials, 2015, 300, 522-529.	12.4	42
54	Speciation Matters: Bioavailability of Silver and Silver Sulfide Nanoparticles to Alfalfa (<i>Medicago</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	10.0	96

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55	Redox evolution of silicic magmas: Insights from XANES measurements of Ce valence in Bishop Tuff zircons. <i>Chemical Geology</i> , 2015, 402, 77-88.	3.3	33
56	Charge-Coupled Substituted Garnets (Y _{3-x} Ca _{0.5x} M _{0.5x})Fe ₅ O ₁₂ (M = Ce, Th): Structure and Stability as Crystalline Nuclear Waste Forms. <i>Inorganic Chemistry</i> , 2015, 54, 4156-4166.	4.0	29
57	Hyperspectral image reconstruction for x-ray fluorescence tomography. <i>Optics Express</i> , 2015, 23, 9014.	3.4	33
58	Cerium Substitution in Yttrium Iron Garnet: Valence State, Structure, and Energetics. <i>Chemistry of Materials</i> , 2014, 26, 1133-1143.	6.7	53
59	Variation in XANES in biotite as a function of orientation, crystal composition, and metamorphic history. <i>American Mineralogist</i> , 2014, 99, 443-457.	1.9	11
60	Assessing heavy metal exposure in Renaissance Europe using synchrotron microbeam techniques. <i>Journal of Archaeological Science</i> , 2014, 52, 204-217.	2.4	25
61	Retention and chemical speciation of uranium in an oxidized wetland sediment from the Savannah River Site. <i>Journal of Environmental Radioactivity</i> , 2014, 131, 40-46.	1.7	37
62	Trends in X-ray Fluorescence Microscopy. <i>Synchrotron Radiation News</i> , 2013, 26, 32-38.	0.8	17
63	Heavy metal distribution in an urban wetland impacted by combined sewer overflow. <i>Chemosphere</i> , 2013, 93, 2159-2164.	8.2	17
64	Abiotic Reductive Immobilization of U(VI) by Biogenic Mackinawite. <i>Environmental Science & Technology</i> , 2013, 47, 2361-2369.	10.0	100
65	Redox systematics of martian magmas with implications for magnetite stability. <i>American Mineralogist</i> , 2013, 98, 616-628.	1.9	35
66	Using the NSLS for Introducing Synchrotrons into the Classroom (InSynC). <i>Synchrotron Radiation News</i> , 2013, 26, 30-34.	0.8	2
67	Focus on Synchrotron Education Initiatives. <i>Synchrotron Radiation News</i> , 2013, 26, 2-4.	0.8	2
68	Oxidation of Added Mn(II) in Soils Observed by XANES Spectroscopy and Cr(III) Oxidation. <i>Soil Science Society of America Journal</i> , 2013, 77, 1996-2003.	2.2	5
69	Five Hundred Years of Mercury Exposure and Adaptation. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-10.	3.0	12
70	The Role of CAX1 and CAX3 in Elemental Distribution and Abundance in Arabidopsis Seed. <i>Plant Physiology</i> , 2012, 158, 352-362.	4.8	64
71	Titanium and Iron in Lung of a Soldier With Nonspecific Interstitial Pneumonitis and Bronchiolitis After Returning From Iraq. <i>Journal of Occupational and Environmental Medicine</i> , 2012, 54, 1-2.	1.7	22
72	Getting to the core of platinum drug bio-distributions: the penetration of anti-cancer platinum complexes into spheroid tumour models. <i>Metallomics</i> , 2012, 4, 1209.	2.4	56

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73	Scanning X-ray Fluorescence Imaging Study of Lithium Insertion into Copper Based Oxysulfides for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2012, 24, 2684-2691.	6.7	26
74	Thickness measurements of nanoscale brine films on silica surfaces under geologic CO ₂ sequestration conditions using synchrotron X-ray fluorescence. <i>Water Resources Research</i> , 2012, 48, .	4.2	30
75	Accurate determination of ferric iron in garnets by bulk Mossbauer spectroscopy and synchrotron micro-XANES. <i>American Mineralogist</i> , 2012, 97, 1726-1740.	1.9	31
76	Energy, Enthusiasm, Cooperation, and Commitment Characterize NUFO Annual Meeting. <i>Synchrotron Radiation News</i> , 2011, 24, 13-14.	0.8	0
77	Sulfides from martian and lunar basalts: Comparative chemistry for Ni, Co, Cu, and Se. <i>American Mineralogist</i> , 2011, 96, 932-935.	1.9	8
78	Increased brain iron coincides with early plaque formation in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2011, 55, 32-38.	4.2	123
79	Identification and Characterization of Arsenic and Metal Compounds in Contaminated Soil, Mine Tailings, and House Dust Using Synchrotron-Based Microanalysis. <i>Human and Ecological Risk Assessment (HERA)</i> , 2011, 17, 1292-1309.	3.4	14
80	Direct characterization of airborne particles associated with arsenic-rich mine tailings: Particle size, mineralogy and texture. <i>Applied Geochemistry</i> , 2011, 26, 1639-1648.	3.0	56
81	Biologic Rhythms Derived from Siberian Mammoths' Hairs. <i>PLoS ONE</i> , 2011, 6, e21705.	2.5	5
82	Phloem transport of arsenic species from flag leaf to grain during grain filling. <i>New Phytologist</i> , 2011, 192, 87-98.	7.3	170
83	The sub-micron resolution X-ray spectroscopy beamline at NSLS-II. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 649, 46-48.	1.6	8
84	Macroscopic and molecular-scale assessment of soil lead contamination impacted by seasonal dove hunting activities. <i>Journal of Soils and Sediments</i> , 2011, 11, 968-979.	3.0	1
85	Differences in Fe-redox for asbestiform and nonasbestiform amphiboles from the former vermiculite mine, near Libby, Montana, U.S.A.. <i>American Mineralogist</i> , 2011, 96, 1414-1417.	1.9	6
86	TitaniQ under pressure: the effect of pressure and temperature on the solubility of Ti in quartz. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 743-759.	3.1	388
87	Successful Reproduction Requires the Function of Arabidopsis YELLOW STRIPE-LIKE1 and YELLOW STRIPE-LIKE3 Metal-Nicotianamine Transporters in Both Vegetative and Reproductive Structures. <i>Plant Physiology</i> , 2010, 154, 197-210.	4.8	164
88	Natural organobromine in marine sediments: New evidence of biogeochemical Br cycling. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	65
89	Practical Application of Synchrotron-Based Hard X-Ray Microprobes in Soil Sciences. <i>Developments in Soil Science</i> , 2010, 34, 27-72.	0.5	7
90	Gadolinium deposition in nephrogenic systemic fibrosis: An examination of tissue using synchrotron x-ray fluorescence spectroscopy. <i>Journal of the American Academy of Dermatology</i> , 2010, 62, 38-44.	1.2	32

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91	Characterization of geosynthetic clay liner bentonite using micro-analytical methods. Applied Geochemistry, 2010, 25, 1056-1069.	3.0	18
92	Assessment and control of organic and other contaminants associated with the Stardust sample return from comet 81P/Wild 2. Meteoritics and Planetary Science, 2010, 45, 406-433.	1.6	55
93	Using synchrotron X-ray fluorescence microprobes in the study of metal homeostasis in plants. Annals of Botany, 2009, 103, 665-672.	2.9	109
94	Characterization of heterogeneities in detector-grade CdZnTe crystals. Journal of Materials Research, 2009, 24, 1361-1367.	2.6	21
95	Synchrotron X-ray 2D and 3D elemental imaging of CdSe/ZnS quantum dot nanoparticles in Daphnia magna. Analytical and Bioanalytical Chemistry, 2009, 394, 911-917.	3.7	50
96	A synchrotron-based facility for the in-situ location, chemical and mineralogical characterization of $\sim 10^{11}/\mu\text{m}^2$ particles captured in aerogel. Advances in Space Research, 2009, 43, 328-334.	2.6	5
97	High-precision determination of iron oxidation state in silicate glasses using XANES. Chemical Geology, 2009, 268, 167-179.	3.3	183
98	Amyloid plaques in PSAPP mice bind less metal than plaques in human Alzheimer's disease. NeuroImage, 2009, 47, 1215-1220.	4.2	117
99	ARSENIC MINERALOGY OF NEAR-SURFACE TAILINGS AND SOILS: INFLUENCES ON ARSENIC MOBILITY AND BIOACCESSIBILITY IN THE NOVA SCOTIA GOLD MINING DISTRICTS. Canadian Mineralogist, 2009, 47, 533-556.	1.0	101
100	Real-Time X-ray Absorption Spectroscopy of Uranium, Iron, and Manganese in Contaminated Sediments During Bioreduction. Environmental Science & Technology, 2008, 42, 2839-2844.	10.0	21
101	Chemical composition and heterogeneity of Wild 2 cometary particles determined by synchrotron X-ray fluorescence. Meteoritics and Planetary Science, 2008, 43, 187-213.	1.6	35
102	Characterization of carbon- and nitrogen-rich particle fragments captured from comet 81P/Wild 2. Meteoritics and Planetary Science, 2008, 43, 335-351.	1.6	10
103	Effect of Saline Waste Solution Infiltration Rates on Uranium Retention and Spatial Distribution in Hanford Sediments. Environmental Science & Technology, 2008, 42, 1973-1978.	10.0	6
104	Real-Time Speciation of Uranium during Active Bioremediation and U(IV) Reoxidation. Journal of Environmental Engineering, ASCE, 2008, 134, 78-86.	1.4	36
105	Evidence That the ZNT3 Protein Controls the Total Amount of Elemental Zinc in Synaptic Vesicles. Journal of Histochemistry and Cytochemistry, 2008, 56, 3-6.	2.5	108
106	Synchrotron-based imaging detects metal and plaques in a mouse model of Alzheimer's Disease. , 2007, , .		1
107	Technical Report: Growth of Environmental Science at the NSLS. Synchrotron Radiation News, 2007, 20, 6-13.	0.8	1
108	High concentration of zinc in sub-retinal pigment epithelial deposits. Experimental Eye Research, 2007, 84, 772-780.	2.6	117

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109	Long-Term Stability of Organic Carbon-Stimulated Chromate Reduction in Contaminated Soils and Its Relation to Manganese Redox Status. <i>Environmental Science & Technology</i> , 2007, 41, 4326-4331.	10.0	25
110	Synchrotron radiation needs for molecular environmental science. <i>Eos</i> , 2007, 88, 571-571.	0.1	0
111	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
112	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. <i>Science</i> , 2006, 314, 1731-1735.	12.6	200
113	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	12.6	589
114	Accessing User Facilities and Making Your Research Experience Successful. <i>Elements</i> , 2006, 2, 31-35.	0.5	2
115	Tropical dendrochemistry: A novel approach to estimate age and growth from ringless trees. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	48
116	Spatial and Temporal Variability of Arsenic Solid-State Speciation in Historically Lead Arsenate Contaminated Soils. <i>Environmental Science & Technology</i> , 2006, 40, 673-679.	10.0	63
117	Localization of Iron in Arabidopsis Seed Requires the Vacuolar Membrane Transporter VIT1. <i>Science</i> , 2006, 314, 1295-1298.	12.6	614
118	Zinc Coordination to Multiple Ligand Atoms in Organic-Rich Surface Soils. <i>Environmental Science & Technology</i> , 2006, 40, 5688-5695.	10.0	39
119	Quantitative Determination of Absolute Organohalogen Concentrations in Environmental Samples by X-ray Absorption Spectroscopy. <i>Analytical Chemistry</i> , 2006, 78, 5711-5718.	6.5	45
120	Synchrotron-based infrared and X-ray imaging shows focalized accumulation of Cu and Zn co-localized with β -amyloid deposits in Alzheimer's disease. <i>Journal of Structural Biology</i> , 2006, 155, 30-37.	2.8	521
121	X27A—A new hard X-ray micro-spectroscopy facility at the National Synchrotron Light Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 562, 487-494.	1.6	25
122	Metal Speciation and Its Role in Bioaccessibility and Bioavailability. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 64, 59-113.	4.8	158
123	^{241}Am , ^{137}Cs , Sr and Pb uptake by tobacco as influenced by application of Fe chelators to soil. <i>Journal of Environmental Radioactivity</i> , 2005, 82, 33-50.	1.7	18
124	Synchrotron X-ray microprobe and computed microtomography for characterization of nanocatalysts. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 241, 331-334.	1.4	14
125	Emissions and encapsulation of cadmium in CdTe PV modules during fires. <i>Progress in Photovoltaics: Research and Applications</i> , 2005, 13, 713-723.	8.1	81
126	Oxidizing Behavior of Soil Manganese. <i>Soil Science Society of America Journal</i> , 2005, 69, 87-95.	2.2	52

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127	Distribution and Speciation of Metals in Annual Rings of Black Willow. <i>Journal of Environmental Quality</i> , 2005, 34, 1165-1173.	2.0	30
128	Soil Manganese Oxides and Trace Metals. <i>Soil Science Society of America Journal</i> , 2005, 69, 353-361.	2.2	49
129	Development and applications of an epifluorescence module for synchrotron x-ray fluorescence microprobe imaging. <i>Review of Scientific Instruments</i> , 2005, 76, 066107.	1.3	6
130	THE SPECIATION OF ARSENIC IN IRON OXIDES IN MINE WASTES FROM THE GIANT GOLD MINE, N.W.T.: APPLICATION OF SYNCHROTRON MICRO-XRD AND MICRO-XANES AT THE GRAIN SCALE. <i>Canadian Mineralogist</i> , 2005, 43, 1205-1224.	1.0	106
131	Application of Synchrotron X-ray Microbeam Spectroscopy to the Determination of Metal Distribution and Speciation in Biological Tissues. <i>Spectroscopy Letters</i> , 2005, 38, 343-363.	1.0	44
132	Evidence for Biogenic Pyromorphite Formation by the Nematode <i>Caenorhabditis elegans</i> . <i>Environmental Science & Technology</i> , 2005, 39, 5620-5625.	10.0	42
133	Uranium Reduction in Sediments under Diffusion-Limited Transport of Organic Carbon. <i>Environmental Science & Technology</i> , 2005, 39, 7077-7083.	10.0	22
134	Spatial Distribution and Speciation of Lead around Corroding Bullets in a Shooting Range Soil Studied by Micro-X-ray Fluorescence and Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2005, 39, 4808-4815.	10.0	90
135	Enhanced zinc consumption causes memory deficits and increased brain levels of zinc. <i>Physiology and Behavior</i> , 2005, 83, 793-803.	2.1	69
136	Petrographic and trace element analysis of uranium-rich tufa calcite, middle Miocene Barstow Formation, California, USA. <i>Sedimentology</i> , 2004, 51, 433-453.	3.1	33
137	Characterization of Petroleum Deposits Formed in a Producing Well by Synchrotron Radiation-Based Microanalyses. <i>Energy & Fuels</i> , 2004, 18, 1199-1212.	5.1	34
138	Ancient water on asteroid 4 Vesta: evidence from a quartz veinlet in the Serra de Magalhães eucrite meteorite. <i>Earth and Planetary Science Letters</i> , 2004, 219, 189-199.	4.4	57
139	Geochemical Signature of Contaminated Sediment Remobilization Revealed by Spatially Resolved X-ray Microanalysis of Annual Rings of <i>Salix nigra</i> . <i>Environmental Science & Technology</i> , 2003, 37, 1766-1774.	10.0	32
140	Arsenic Speciation and Reactivity in Poultry Litter. <i>Environmental Science & Technology</i> , 2003, 37, 4083-4090.	10.0	139
141	Phosphor imaging as a tool for in situ mapping of ppm levels of uranium and thorium in rocks and minerals. <i>Chemical Geology</i> , 2003, 193, 127-136.	3.3	40
142	Distribution of Chromium Contamination and Microbial Activity in Soil Aggregates. <i>Journal of Environmental Quality</i> , 2003, 32, 541.	2.0	8
143	In Situ Reduction of Chromium(VI) in Heavily Contaminated Soils through Organic Carbon Amendment. <i>Journal of Environmental Quality</i> , 2003, 32, 1641-1649.	2.0	81
144	Distribution of Chromium Contamination and Microbial Activity in Soil Aggregates. <i>Journal of Environmental Quality</i> , 2003, 32, 541-549.	2.0	41

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145	Imaging and microspectroscopy at the national synchrotron light source. <i>Synchrotron Radiation News</i> , 2002, 15, 17-26.	0.8	3
146	Use of the spindle stage for orientation of single crystals for microXAS: Isotropy and anisotropy in Fe-XANES spectra. <i>American Mineralogist</i> , 2002, 87, 1500-1504.	1.9	23
147	Microfluorescence and Microtomography Analyses of Heterogeneous Earth and Environmental Materials. <i>Reviews in Mineralogy and Geochemistry</i> , 2002, 49, 429-483.	4.8	79
148	Crystallization conditions of Los Angeles, a basaltic Martian meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1867-1880.	3.9	49
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