Francois Farges

List of Publications by Year
in descending order

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60	4,963	109321	138484
papers	citations	35 h-index	58 g-index

62	62	62	6099
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxidation state and coordination of Fe in minerals: An FeK-XANES spectroscopic study. American Mineralogist, 2001, 86, 714-730.	1.9	934
2	TiK-edge XANES studies of Ti coordination and disorder in oxide compounds: Comparison between theory and experiment. Physical Review B, 1997, 56, 1809-1819.	3.2	555
3	Ab initioand experimental pre-edge investigations of the MnK-edge XANES in oxide-type materials. Physical Review B, 2005, 71, .	3.2	216
4	Iron (III)-silica interactions in aqueous solution: insights from X-ray absorption fine structure spectroscopy. Geochimica Et Cosmochimica Acta, 2003, 67, 3559-3573.	3.9	214
5	Continuous Cauchy wavelet transform analyses of EXAFS spectra: A qualitative approach. American Mineralogist, 2003, 88, 694-700.	1.9	194
6	The effect of redox state on the local structural environment of iron in silicate glasses: a combined XAFS spectroscopy, molecular dynamics, and bond valence study. Journal of Non-Crystalline Solids, 2004, 344, 176-188.	3.1	187
7	Coordination chemistry of Ti(IV) in silicate glasses and melts: II. Glasses at ambient temperature and pressure. Geochimica Et Cosmochimica Acta, 1996, 60, 3039-3053.	3.9	166
8	Extracellular Polymeric Substances Govern the Surface Charge of Biogenic Elemental Selenium Nanoparticles. Environmental Science & Technology, 2015, 49, 1713-1720.	10.0	158
9	Multi-spectroscopic study of Fe(II) in silicate glasses: Implications for the coordination environment of Fe(II) in silicate melts. Geochimica Et Cosmochimica Acta, 2005, 69, 4315-4332.	3.9	146
10	Structural environments of incompatible elements in silicate glass/melt systems: I. Zirconium at trace levels. Geochimica Et Cosmochimica Acta, 1991, 55, 1563-1574.	3.9	134
11	Structural environments of incompatible elements in silicate glass/melt systems: II. UIV, UV, and UVI. Geochimica Et Cosmochimica Acta, 1992, 56, 4205-4220.	3.9	127
12	Adsorption of zinc by biogenic elemental selenium nanoparticles. Chemical Engineering Journal, 2015, 260, 855-863.	12.7	119
13	Speciation of Fe in silicate glasses and melts by in-situ XANES spectroscopy. American Mineralogist, 2007, 92, 44-56.	1.9	105
14	Local environment around gold (III) in aqueous chloride solutions: An EXAFS spectroscopy study. Geochimica Et Cosmochimica Acta, 1993, 57, 1243-1252.	3.9	102
15	Coordination chemistry of Ti(IV) in silicate glasses and melts: III. Glasses and melts from ambient to high temperatures. Geochimica Et Cosmochimica Acta, 1996, 60, 3055-3065.	3.9	98
16	Coordination chemistry of titanium (IV) in silicate glasses and melts: IV. XANES studies of synthetic and natural volcanic glasses and tektites at ambient temperature and pressure. Geochimica Et Cosmochimica Acta, 1997, 61, 1863-1870.	3.9	92
17	Experimental and theoretical study of the structural environment of magnesium in minerals and silicate glasses using X-ray absorption near-edge structure. Physics and Chemistry of Minerals, 2009, 36, 241-257.	0.8	81
18	Transition elements in water-bearing silicate glasses/melts. part I. a high-resolution and anharmonic analysis of Ni coordination environments in crystals, glasses, and melts. Geochimica Et Cosmochimica Acta, 2001, 65, 1665-1678.	3.9	77

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19	Chromium speciation in oxide-type compounds: application to minerals, gems, aqueous solutions and silicate glasses. Physics and Chemistry of Minerals, 2009, 36, 463-481.	0.8	77
20	Hydrothermal synthesis, between 75 and 150Â°C, of High-charge, ferric nontronites. Clays and Clay Minerals, 2008, 56, 322-337.	1.3	64
21	Coordination of Ti (super 4+) in silicate glasses; a high-resolution XANES spectroscopy study at the Ti K edge. American Mineralogist, 1997, 82, 36-43.	1.9	62
22	Biogenic nanoparticulate UO2: Synthesis, characterization, and factors affecting surface reactivity. Geochimica Et Cosmochimica Acta, 2009, 73, 3593-3611.	3.9	62
23	Fivefold-coordinated Ti (super 4+) in metamict zirconolite and titanite; a new occurrence shown by Ti K-edge XANES spectroscopy. American Mineralogist, 1997, 82, 44-50.	1.9	56
24	The structure of aperiodic, metamict (Ca, Th)ZrTi₂O₇ (zirconolite): An EXAFS study of the Zr, Th, and U sites. Journal of Materials Research, 1993, 8, 1983-1995.	2.6	53
25	Structural environment of iron in hydrous aluminosilicate glass and melt-evidence from X-ray absorption spectroscopy. Chemical Geology, 2006, 229, 144-161.	3.3	53
26	An X-ray absorption fine structure and nuclear magnetic resonance spectroscopy study of galliumâ€“silica complexes in aqueous solution. Geochimica Et Cosmochimica Acta, 2002, 66, 4203-4222.	3.9	51
27	Entrapped elemental selenium nanoparticles affect physicochemical properties of selenium fed activated sludge. Journal of Hazardous Materials, 2015, 295, 193-200.	12.4	50
28	Does Zrî—¸F â€œcomplexationâ€•occur in magmas?. Chemical Geology, 1996, 127, 253-268.	3.3	47
29	Adsorption mechanisms of trivalent gold on iron- and aluminum-(oxy)hydroxides. Part 1: X-ray absorption and Raman scattering spectroscopic studies of Au(III) adsorbed on ferrihydrite, goethite, and boehmite. Geochimica Et Cosmochimica Acta, 2004, 68, 3019-3042.	3.9	46
30	Speciation and weathering of copper in â€œcopper red rubyâ€•medieval flashed glasses from the Tours cathedral (XIII century). Applied Geochemistry, 2006, 21, 1715-1731.	3.0	46
31	Interaction of Aqueous Zn(II) with Hematite Nanoparticles and Microparticles. Part 1. EXAFS Study of Zn(II) Adsorption and Precipitation. Langmuir, 2009, 25, 5574-5585.	3.5	43
32	An empirical model for the anharmonic analysis of high-temperature XAFS spectra of oxide compounds with applications to the coordination environment of Ni in NiO, Î³-Ni2SiO4 and Ni-bearing Na-disilicate glass and melt. Chemical Geology, 1996, 128, 93-106.	3.3	42
33	Selenium Speciation Assessed by X-Ray Absorption Spectroscopy of Sequentially Extracted Anaerobic Biofilms. Environmental Science & Technology, 2008, 42, 7587-7593.	10.0	41
34	Structural environment around Th4+ in silicate glasses: Implications for the geochemistry of incompatible Me4+ elements. Geochimica Et Cosmochimica Acta, 1991, 55, 3303-3319.	3.9	39
35	Chapter 9. X-RAY SCATTERING AND X-RAY SPECTROSCOPY STUDIES OF SILICATE MELTS. , 1995, , 317-410.		38
36	Iron oxidation state in phyllosilicate single crystals using Fe-K pre-edge and XANES spectroscopy: Effects of the linear polarization of the synchrotron X-ray beam. American Mineralogist, 2013, 98, 1187-1197.	1.9	36

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37	A Ti K-edge EXAFS study of the medium range environment around Ti in oxide glasses. Journal of Non-Crystalline Solids, 1999, 244, 25-33.	3.1	34
38	Transition elements in water-bearing silicate glasses/melts. part II. Ni in water-bearing glasses. Geochimica Et Cosmochimica Acta, 2001, 65, 1679-1693.	3.9	33
39	Structural investigation of platinum solubility in silicate glasses. American Mineralogist, 1999, 84, 1562-1568.	1.9	32
40	Water in Zr-bearing synthetic and natural glasses. European Journal of Mineralogy, 2000, 12, 1093-1107.	1.3	28
41	Combined Speciation Analysis by X-ray Absorption Near-Edge Structure Spectroscopy, Ion Chromatography, and Solid-Phase Microextraction Gas Chromatographyâ^'Mass Spectrometry To Evaluate Biotreatment of Concentrated Selenium Wastewaters. Environmental Science & Technology, 2011, 45, 1067-1073.	10.0	27
42	Interaction of Zn(II) with Hematite Nanoparticles and Microparticles: Part 2. ATR-FTIR and EXAFS Study of the Aqueous Zn(II)/Oxalate/Hematite Ternary System. Langmuir, 2009, 25, 5586-5593.	3.5	25
43	Na-, Al-, and Si K-edge XANES study of sodium silicate and sodium aluminosilicate glasses: influence of the glass surface. Chemical Geology, 2004, 213, 63-70.	3.3	24
44	Na, Mg, Ni and Cs distribution and speciation after long-term alteration of a simulated nuclear waste glass: A micro-XAS/XRF/XRD and wet chemical study. Geochimica Et Cosmochimica Acta, 2009, 73, 2283-2298.	3.9	24
45	Sequestration of Sr(II) by calcium oxalateâ€"A batch uptake study and EXAFS analysis of model compounds and reaction products. Geochimica Et Cosmochimica Acta, 2008, 72, 5055-5069.	3.9	18
46	Alteration of fossil-bearing shale (Autun, France; Permian), part II: Monitoring artificial and natural ageing by combined use of S and Ca K-edge XANES analysis, Rock-Eval pyrolysis and FTIR analysis. Annales De Paleontologie, 2015, 101, 225-239.	0.5	13
47	Oxidative conditions can lead to exceptional preservation through phosphatization. Geology, 2020, 48, 1164-1168.	4.4	11
48	The site of Fe in Fe-bearing MgSiO3 enstatite and perovskite. a theoretical-, x-ray multiple-scattering study at Fe K-edge. Physics and Chemistry of Minerals, 1995, 22, 318.	0.8	10
49	Selenium Speciation in Biofilms from Granular Sludge Bed Reactors Used for Wastewater Treatment. AIP Conference Proceedings, 2007, , .	0.4	9
50	The French Blue and the Hope: New Data from the Discovery of A Historical Lead Cast. Gems & Gemology, 2009, 45, 4-19.	0.6	9
51	Durability of Silicate Glasses: An Historical Approach. AIP Conference Proceedings, 2007, , .	0.4	8
52	X-ray absorption near edge structure (XANES) study of the speciation of uranium and thorium in Al-rich CaSiO3 perovskite. American Mineralogist, 2012, 97, 100-109.	1.9	7
53	Mg K-Edge XANES Spectra in Crystals and Oxide Glasses: Experimental vs. Theoretical Approaches. AIP Conference Proceedings, 2007, , .	0.4	6
54	Biogenic UO2 â€" Characterization and Surface Reactivity. AIP Conference Proceedings, 2007, , .	0.4	6

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55	The Hope Diamond: Rare Gem, Historic Jewel. Rocks and Minerals, 2014, 89, 16-26.	0.1	5
56	Anharmonicity around Th in crystalline oxide-type compounds: An insitu-, high-temperature XAFS spectroscopy study to 1500Â°C. Physica B: Condensed Matter, 1999, 266, 282-289.	2.7	4
57	Understanding Selenium Biogeochemistry in Engineered Ecosystems: Transformation and Analytical Methods. , 2017, , 33-56.		4
58	On the Coordination of Actinides and Fission Products in Silicate Glasses. AIP Conference Proceedings, 2007, , .	0.4	3
59	Coordination Environments of Highly Charged Cations (Ti, Cr, and Light REEâ€™s) in Borosilicate Glass/Melts to 1120Â°C. AIP Conference Proceedings, 2007, , .	0.4	2
60	Adsorption Mechanisms of Trivalent Gold onto Iron Oxy-Hydroxides: From the Molecular Scale to the Model. AIP Conference Proceedings, 2007, , .	0.4	1