

Andrea Somogyi

List of Publications by Year in descending order

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129
papers

3,543
citations

136950

32
h-index

155660

55
g-index

137
all docs

137
docs citations

137
times ranked

3584
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Trace Element Analysis by Confocal X-ray Microfluorescence Imaging. <i>Analytical Chemistry</i> , 2004, 76, 6786-6791.	6.5	237
2	Trace element distribution in annual stalagmite laminae mapped by micrometer-resolution X-ray fluorescence: Implications for incorporation of environmentally significant species. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1494-1512.	3.9	205
3	Nanofocusing parabolic refractive x-ray lenses. <i>Applied Physics Letters</i> , 2003, 82, 1485-1487.	3.3	178
4	Crystal fragmentation and columnar-to-equiaxed transitions in Al-Cu studied by synchrotron X-ray video microscopy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 2515-2524.	2.2	170
5	Internal elemental microanalysis combining x-ray fluorescence, Compton and transmission tomography. <i>Journal of Applied Physics</i> , 2003, 94, 145-156.	2.5	142
6	A library for X-ray matter interaction cross sections for X-ray fluorescence applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1725-1731.	2.9	128
7	Evidence for arsenic metabolism and cycling by microorganisms 2.7 billion years ago. <i>Nature Geoscience</i> , 2014, 7, 811-815.	12.9	100
8	Detection of a Ca-rich lithology in the Earth's deep (>300 km) convecting mantle. <i>Earth and Planetary Science Letters</i> , 2005, 236, 579-587.	4.4	90
9	Effects of Strontium on the Physicochemical Characteristics of Hydroxyapatite. <i>Calcified Tissue International</i> , 2004, 75, 405-415.	3.1	89
10	ID18F: a new micro-x-ray fluorescence end-station at the European Synchrotron Radiation Facility (ESRF): preliminary results. <i>X-Ray Spectrometry</i> , 2001, 30, 242-252.	1.4	84
11	Biological control of Cl/Br and low sulfate concentration in a 3.5-Gyr-old seawater from North Pole, Western Australia. <i>Earth and Planetary Science Letters</i> , 2004, 228, 451-463.	4.4	82
12	Optical design and multi-length-scale scanning spectro-microscopy possibilities at the Nanoscopium Beamline of Synchrotron Soleil. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1118-1129.	2.4	67
13	Microanalysis study of archaeological mural samples containing Maya blue pigment. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1619-1625.	2.9	60
14	Mn-rich clusters in GaN: Hexagonal or cubic symmetry?. <i>Applied Physics Letters</i> , 2005, 86, 131927.	3.3	58
15	Quantitative Trace Element Analysis of Individual Fly Ash Particles by Means of X-ray Microfluorescence. <i>Analytical Chemistry</i> , 2002, 74, 1128-1135.	6.5	56
16	Nondestructive three-dimensional elemental microanalysis by combined helical x-ray microtomographies. <i>Applied Physics Letters</i> , 2004, 84, 2199-2201.	3.3	54
17	Voxel-based Monte Carlo simulation of X-ray imaging and spectroscopy experiments. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1747-1754.	2.9	53
18	Scanning x-ray excited optical luminescence microscopy in GaN. <i>Applied Physics Letters</i> , 2006, 89, 221913.	3.3	50

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19	High-efficiency zone-plate optics for multi-keV X-ray focusing. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 497-501.	2.4	48
20	Microimaging and tomography with chemical speciation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 444-450.	1.4	47
21	Development of fast, simultaneous and multi-technique scanning hard X-ray microscopy at Synchrotron Soleil. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 293-299.	2.4	47
22	Micro-heterogeneity study of trace elements in USGS, MPI-DING and NIST glass reference materials by means of synchrotron micro-XRF. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 350-357.	3.0	46
23	Microchemical Element Imaging of Yeast and Human Cells Using Synchrotron X-ray Microprobe with Kirkpatrick-Baez Optics. <i>Analytical Chemistry</i> , 2004, 76, 309-314.	6.5	46
24	High resolution double-sided diffractive optics for hard X-ray microscopy. <i>Optics Express</i> , 2015, 23, 776.	3.4	46
25	ID22: a multitechnique hard X-ray microprobe beamline at the European Synchrotron Radiation Facility. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 208-215.	2.4	44
26	Direct Determination of Cadmium Speciation in Municipal Solid Waste Fly Ashes by Synchrotron Radiation Induced μ -X-ray Fluorescence and μ -X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2002, 36, 3165-3169.	10.0	42
27	Bromine cycle in subduction zones through in situ Br monitoring in diamond anvil cells. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3839-3850.	3.9	41
28	Distribution, redox state and (bio)geochemical implications of arsenic in present day microbialites of Laguna Brava, Salar de Atacama. <i>Chemical Geology</i> , 2018, 490, 13-21.	3.3	41
29	Patterns of metal distribution in hypersaline microbialites during early diagenesis: Implications for the fossil record. <i>Geobiology</i> , 2017, 15, 259-279.	2.4	40
30	Focusing X-rays with simple arrays of prism-like structures. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 248-253.	2.4	39
31	Very first tests on SOLEIL regarding the Zn environment in pathological calcifications made of apatite determined by X-ray absorption spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 506-509.	2.4	37
32	Development and operation of a μ -X-ray based cryogenic permanent magnet undulator for a high spatial resolution x-ray beam line. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	36
33	Microanalysis (Micro-XRF, Micro-XANES, and Micro-XRD) of a Tertiary Sediment Using Microfocused Synchrotron Radiation. <i>Microscopy and Microanalysis</i> , 2007, 13, 165-172.	0.4	34
34	Investigation of geochemical composition of lake sediments using ED-XRF and ICP-AES techniques. <i>X-Ray Spectrometry</i> , 1999, 28, 399-405.	1.4	32
35	X-ray Fluorescence Tomography of Individual Municipal Solid Waste and Biomass Fly Ash Particles. <i>Analytical Chemistry</i> , 2004, 76, 1586-1595.	6.5	31
36	High-resolution imaging of sulfur oxidation states, trace elements, and organic molecules distribution in individual microfossils and contemporary microbial filaments 1 Associate editor: N. E. Ostrom. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1561-1569.	3.9	30

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37	Planar sets of cross x-ray refractive lenses from SU-8 polymer. , 2004, , .		30
38	Broadband coherent diffractive imaging. Nature Photonics, 2020, 14, 618-622.	31.4	29
39	The rise of oxygen-driven arsenic cycling at ca. 2.48 Ga. Geology, 2019, 47, 243-246.	4.4	27
40	A Monte Carlo Model for Studying the Microheterogeneity of Trace Elements in Reference Materials by Means of Synchrotron Microscopic X-ray Fluorescence. Analytical Chemistry, 2002, 74, 5017-5026.	6.5	26
41	Micro-x-ray absorption near-edge structure imaging for detecting metallic Mn in GaN. Applied Physics Letters, 2005, 87, 061913.	3.3	25
42	Modern arsenotrophic microbial mats provide an analogue for life in the anoxic Archean. Communications Earth & Environment, 2020, 1, .	6.8	24
43	Correlative optical photothermal infrared and X-ray fluorescence for chemical imaging of trace elements and relevant molecular structures directly in neurons. Light: Science and Applications, 2021, 10, 151.	16.6	24
44	Parabolic crossed planar polymeric x-ray lenses. Journal of Micromechanics and Microengineering, 2011, 21, 015020.	2.6	23
45	Manganese Mapping Using a Fluorescent Mn ²⁺ Sensor and Nanosynchrotron X-ray Fluorescence Reveals the Role of the Golgi Apparatus as a Manganese Storage Site. Inorganic Chemistry, 2019, 58, 13724-13732.	4.0	23
46	Detection of titanium nanoparticles in the hair shafts of a patient with frontal fibrosing alopecia. Journal of the European Academy of Dermatology and Venereology, 2018, 32, e442-e443.	2.4	21
47	Standardless quantification of single fluid inclusions using synchrotron radiation induced X-ray fluorescence. Chemical Geology, 2006, 227, 165-183.	3.3	20
48	Fabrication and characterization of high-efficiency double-sided blazed x-ray optics. Optics Letters, 2016, 41, 281.	3.3	20
49	Quantification of Single Fluid Inclusions by Combining Synchrotron Radiation-Induced λ -X-ray Fluorescence and Transmission. Analytical Chemistry, 2004, 76, 3988-3994.	6.5	19
50	Synchrotron radiation induced λ -X-ray fluorescence spectroscopy on municipal solid waste fly ashes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 1355-1365.	2.9	18
51	Beryllium parabolic refractive x-ray lenses. AIP Conference Proceedings, 2004, , .	0.4	18
52	Rapid and reliable diagnosis of Wilson disease using X-ray fluorescence. Journal of Pathology: Clinical Research, 2016, 2, 175-186.	3.0	18
53	Intracellular bound chlorophyll residues identify 1 Gyr-old fossils as eukaryotic algae. Nature Communications, 2022, 13, 146.	12.8	18
54	<i>In situ</i> mapping of high-pressure fluids using hydrothermal diamond anvil cells. High Pressure Research, 2007, 27, 235-247.	1.2	17

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55	Microbially induced potassium enrichment in Paleoproterozoic shales and implications for reverse weathering on early Earth. <i>Nature Communications</i> , 2019, 10, 2670.	12.8	17
56	Anti-inflammatory activity of superoxide dismutase mimics functionalized with cell-penetrating peptides. <i>Dalton Transactions</i> , 2020, 49, 2323-2330.	3.3	17
57	Quantitative X-ray fluorescence analysis at the ESRF ID18F microprobe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 199, 396-401.	1.4	16
58	Determination of the Cd-Bearing Phases in Municipal Solid Waste and Biomass Single Fly Ash Particles Using SR- μ XRF Spectroscopy. <i>Analytical Chemistry</i> , 2007, 79, 6496-6506.	6.5	16
59	Intracellular location matters: rationalization of the anti-inflammatory activity of a manganese(<i>scp</i>) superoxide dismutase mimic complex. <i>Chemical Communications</i> , 2020, 56, 7885-7888.	4.1	16
60	Microextended X-ray Absorption Fine Structure Studies of Cadmium Speciation within Single Municipal Solid Waste Fly Ash Particles. <i>Analytical Chemistry</i> , 2004, 76, 1596-1602.	6.5	15
61	Graftable SCoMPs enable the labeling and X-ray fluorescence imaging of proteins. <i>Chemical Science</i> , 2018, 9, 4483-4487.	7.4	15
62	Comparison between X-ray fluorescence and inductively coupled plasma atomic emission spectrometry in the analysis of sediment samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 2011-2017.	2.9	14
63	XANES micro-imaging and tomography. , 2002, , .		13
64	Revisiting the Organic Template Model through the Microstructural Study of Shell Development in <i>Pinctada margaritifera</i> , the Polynesian Pearl Oyster. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 370.	2.0	13
65	Rhenium carbonyl complexes bearing methylated triphenylphosphonium cations as antibody-free mitochondria trackers for X-ray fluorescence imaging. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3905-3915.	6.0	13
66	<i>MMX-1</i> : data-processing software for multimodal X-ray imaging and tomography. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 783-794.	2.4	13
67	Interpretation and use of inter-element correlation graphs obtained by scanning X-ray fluorescence micro-beam spectrometry from individual particles. Part I "theory". <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 75-89.	2.9	12
68	Effects of beamline components (undulator, monochromator, focusing device) on the beam intensity at ID18F (ESRF). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 199, 559-564.	1.4	11
69	Miniature ionization chamber detector developed for X-ray microprobe measurements. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 187-190.	2.4	11
70	Direct Observation of Mn Clusters in GaN by X-ray Scanning Microscopy. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L695-L697.	1.5	11
71	Geochemical evidence for arsenic cycling in living microbialites of a High Altitude Andean Lake (Laguna Diamante, Argentina). <i>Chemical Geology</i> , 2020, 549, 119681.	3.3	11
72	Speciation of elements in lake sediments investigated using x-ray fluorescence and inductively coupled plasma atomic emission spectrometry. <i>X-Ray Spectrometry</i> , 1998, 27, 283-287.	1.4	10

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73	CLIMATE FORCINGS AND THEIR INFLUENCE ON ALPINE HISTORY AS RECONSTRUCTED THROUGH THE APPLICATION OF SYNCHROTRON-BASED X-RAY MICROFLUORESCENCE ON LAYERED STALAGMITES*. <i>Archaeometry</i> , 2005, 47, 209-219.	1.3	10
74	Multielement Si(Li) detector for the hard x-ray microprobe at ID22 (ESRF). <i>Review of Scientific Instruments</i> , 2006, 77, 063705.	1.3	10
75	3D imaging of vapour and liquid inclusions from the Mole Granite, Australia, using helical fluorescence tomography. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 799-806.	2.9	10
76	Uranium incorporation in fluorite and exploration of Uâ€“Pb dating. <i>Geochronology</i> , 2021, 3, 199-227.	2.5	10
77	Catabolism of lysosome-related organelles in color-changing spiders supports intracellular turnover of pigments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
78	Pathologies related to abnormal deposits in dermatology: a physico-chemical approach. <i>Comptes Rendus Chimie</i> , 2022, 25, 445-476.	0.5	10
79	Formation of Si clusters in AlGaIn: A study of local structure. <i>Applied Physics Letters</i> , 2007, 90, 181129.	3.3	9
80	The Scanning Nanoprobe Beamline Nanoscopium at Synchrotron Soleil. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	9
81	Investigation of lead transport effect from glazed pottery to liquid medium by EDXRF and ICP-AES methods. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 479-482.	3.0	8
82	Characterization of impact materials around Barringer Meteor Crater by micro-PIXE and micro-SRXRF techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 555-560.	1.4	8
83	Micro-XANES and X-ray microtomography study of oxidation State, morphology, and chemistry evolution during nuclear fuel sintering. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 1657-1661.	2.0	8
84	Nanoscopium: a Scanning Hard X-ray Nanoprobe Beamline at Synchrotron Soleil. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	8
85	The Prismatic Layer of Pinna: A Showcase of Methodological Problems and Preconceived Hypotheses. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 365.	2.0	8
86	Interpretation and use of inter-element correlation graphs obtained by scanning X-ray fluorescence micro-beam spectrometry from individual particles. Part II â€” application. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 1039-1049.	2.9	7
87	Nanofocusing Parabolic Refractive X-Ray Lenses. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	7
88	Development of fast parallel multi-technique scanning X-ray imaging at Synchrotron Soleil. <i>Journal of Physics: Conference Series</i> , 2013, 463, 012031.	0.4	7
89	Possibilities and Challenges of Scanning Hard X-ray Spectro-microscopy Techniques in Material Sciences. <i>AIMS Materials Science</i> , 2015, 2, 122-162.	1.4	7
90	Air concentrations of Chernobyl fallout radionuclides in the area Debrecen (Hungary). <i>Acta Physica Hungarica</i> , 1991, 69, 309-319.	0.1	6

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91	In situ radiotracer and voltammetric study of Zn electrosorption on noble metal electrodes. Journal of Electroanalytical Chemistry, 2000, 485, 121-127.	3.8	6
92	The X-ray Microscopy and Microspectroscopy facility at the ESRF. Synchrotron Radiation News, 2003, 16, 35-43.	0.8	6
93	X-ray fluorescence tomography of individual waste fly ash particles. European Physical Journal Special Topics, 2003, 104, 647-650.	0.2	6
94	Seven years of x-ray fluorescence computed microtomography. , 2004, , .		6
95	High efficiency x-ray nanofocusing by the blazed stacking of binary zone plates. Proceedings of SPIE, 2013, , .	0.8	6
96	Fast full-field micro-tomography at the Nanoscopium multitechnique nanoprobe beamline of Synchrotron Soleil. Microscopy and Microanalysis, 2018, 24, 254-255.	0.4	6
97	Determination of incident angle in radioisotope-excited EDXRF. X-Ray Spectrometry, 1993, 22, 395-400.	1.4	5
98	Nanotomography using parabolic refractive x-ray lenses. , 2004, 5535, 701.		5
99	Synchrotron X-rays in situ analysis of extraterrestrial grains trapped in aerogel. Advances in Space Research, 2006, 38, 2068-2074.	2.6	5
100	Foraminiferal Mn/Ca as Bottom-Water Hypoxia Proxy: An Assessment of <i>Nonionella stella</i> in the Santa Barbara Basin, USA. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004167.	2.9	5
101	Comparison of emission-transmission and elemental sensitivity Methods for determining the trace element content of biological samples. X-Ray Spectrometry, 1995, 24, 193-200.	1.4	4
102	Application of combined micro-proton-induced X-ray emission and micro-synchrotron radiation X-ray fluorescence techniques for the characterization of impact materials around Barringer Meteor Crater. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1717-1723.	2.9	4
103	Fluorescence microtomography using nanofocusing refractive x-ray lenses. , 2004, , .		4
104	X-ray transmission properties of intelligent anvils in diamond anvil cells. High Pressure Research, 2006, 26, 235-241.	1.2	4
105	Confocal μ -XRF, μ -XAFS, and μ -XRD Studies of Sediment from a Nuclear Waste Disposal Natural Analogue Site and Fractured Granite Following a Radiotracer Migration Experiment. AIP Conference Proceedings, 2007, , .	0.4	4
106	Non-spherical pearl layers in the Polynesian <i>Chippendale</i> <i>Pinctada margaritifera</i> : The non-nacreous deposits compared to microstructure of the shell growing edge. Aquaculture Research, 2020, 51, 506-522.	1.8	4
107	Early diagenesis of foraminiferal calcite under anoxic conditions: A case study from the Landsort Deep, Baltic Sea (IODP Site M0063). Chemical Geology, 2020, 558, 119871.	3.3	4
108	Methodological Study Using XAS of an ArsenicBased Antileukemia Treatment. Physica Scripta, 2005, , 870.	2.5	3

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109	In Situ Speciation of Nickel in Hydrous Melts Exposed to Extreme Conditions. <i>Physica Scripta</i> , 2005, , 921.	2.5	3
110	Status of the Nanoscopium Scanning Hard X-ray Nanoprobe Beamline of Synchrotron Soleil. <i>Journal of Physics: Conference Series</i> , 2013, 463, 012027.	0.4	3
111	Trace element perspective into the ca. 2.1-billion-year-old shallow-marine microbial mats from the Francevillian Group, Gabon. <i>Chemical Geology</i> , 2020, 543, 119620.	3.3	3
112	Inside black pearls. <i>Materials Characterization</i> , 2020, 163, 110276.	4.4	3
113	Cytoplasmic aggregation of uranium in human dopaminergic cells after continuous exposure to soluble uranyl at non-cytotoxic concentrations. <i>NeuroToxicology</i> , 2021, 82, 35-44.	3.0	3
114	Cellular Detection of a Mitochondria Targeted Brominated Vinyl Triphenylamine Optical Probe (TP ^{Br}) by X-ray Fluorescence Microscopy. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	3
115	Synchrotron-Based HR-Fluorescence and Mineralogical Mapping of the Initial Growth Stages of Polynesian Cultivated Pearls Disprove the "Reversed Shell"™ Concept. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 172.	2.0	2
116	Design optimization of ultra-precise elliptical mirrors for hard x-ray nanofocusing at Nanoscopium. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
117	Status of the Nanoscopium scanning nanoprobe beamline of Synchrotron Soleil. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
118	MMX-I: A data-processing software for multi-modal X-ray imaging and tomography. <i>Journal of Physics: Conference Series</i> , 2017, 849, 012060.	0.4	1
119	Estimated Performance of Nanoscopium at an Upgraded Synchrotron Soleil.. <i>Microscopy and Microanalysis</i> , 2018, 24, 258-259.	0.4	1
120	Resolving Internal Structures and Composition of Biominerals: The Case of Calcitic Prisms of Mollusk Shells. <i>Microscopy and Microanalysis</i> , 2020, 26, 96-98.	0.4	1
121	Focusing of hard X-rays using diamond and silicon refractive lenses. <i>European Physical Journal Special Topics</i> , 2003, 104, 223-226.	0.2	1
122	In situ SXRF determination of Pb partitioning in hydrothermal Diamond Anvil Cell. <i>European Physical Journal Special Topics</i> , 2003, 104, 391-391.	0.2	1
123	Focusing hard x-rays with large kinoform lenses of mm size. , 2004, , .		0
124	Tomography with chemical speciation. , 2004, 5535, 29.		0
125	Inversion domain boundaries in GaN studied by X-ray microprobe. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010, 4, 31-33.	2.4	0
126	Simultaneous fast scanning XRF, dark field, phase-, and absorption contrast tomography. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0

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127	SOLEIL'S Process Automation Improvement Using Industrial Robots. Synchrotron Radiation News, 2021, 34, 10-17.	0.8	0
128	From visible light to X-ray microscopy: major steps in the evolution of developmental models for calcification of invertebrate skeletons. Comptes Rendus Chimie, 2022, 25, 577-595.	0.5	0
129	Arsenic distribution and valence state variation studied by fast hierarchical length-scale morphological, compositional, and speciation imaging at the Nanoscopium, Synchrotron Soleil. , 2017, , .		0