Stefan Vogt

List of Publications by Year in descending order

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253	11,943	20817	34986
papers	citations	60 h-index	98 g-index

258	258	258	14271
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic zinc fluxes regulate meiotic progression in Caenorhabditis elegans. Biology of Reproduction, 2022, 107, 406-418.	2.7	5
2	Broadband X-ray ptychography using multi-wavelength algorithm. Journal of Synchrotron Radiation, 2021, 28, 309-317.	2.4	20
3	Development of Fe3O4 coreâ€“TiO2 shell nanocomposites and nanoconjugates as a foundation for neuroblastoma radiosensitization. Cancer Nanotechnology, 2021, 12, 12.	3.7	9
4	Use of X-Ray Fluorescence Microscopy for Studies on Research Models of Hepatocellular Carcinoma. Frontiers in Public Health, 2021, 9, 711506.	2.7	1
5	Achieving high spatial resolution in a large field-of-view using lensless x-ray imaging. Applied Physics Letters, 2021, 119, .	3.3	15
6	Development of Multi-Scale X-ray Fluorescence Tomography for Examination of Nanocomposite-Treated Biological Samples. Cancers, 2021, 13, 4497.	3.7	4
7	Ptychopy: GPU framework for ptychographic data analysis. , 2021, , .		1
8	Three-dimensional reconstruction of integrated circuits by single-angle X-ray ptychography with machine learning. , 2021, , .		0
9	Method development of X-ray ptychography: Towards high-resolution and high-throughput coherent imaging. , 2021, , .		0
10	Multi-beam X-ray ptychography for high-throughput coherent diffraction imaging. Scientific Reports, 2020, 10, 19550.	3.3	10
11	Measurement of moisture-dependent ion diffusion constants in wood cell wall layers using time-lapse micro X-ray fluorescence microscopy. Scientific Reports, 2020, 10, 9919.	3.3	18
12	High-speed Three-dimensional Imaging at the Nanoscale via Fly-scan Ptycho-tomography. Microscopy and Microanalysis, 2020, 26, 1006-1008.	0.4	0
13	Fungalâ€“copper interactions in wood examined with large field of view synchrotron-based X-ray fluorescence microscopy. Wood Material Science and Engineering, 2019, 14, 174-184.	2.3	6
14	X-ray methods to observe and quantify adhesive penetration into wood. Journal of Materials Science, 2019, 54, 705-718.	3.7	28
15	Copper distribution and oxidation states near corroded fasteners in treated wood. SN Applied Sciences, 2019, 1, 1.	2.9	6
16	The Velociprobe: An ultrafast hard X-ray nanoprobe for high-resolution ptychographic imaging. Review of Scientific Instruments, 2019, 90, 083701.	1.3	61
17	Correlative 3D X-ray Fluorescence and Ptychographic Tomography of Frozen-Hydrated Green Algae. Microscopy and Microanalysis, 2019, 25, 114-115.	0.4	0
18	Correlative X-ray Ptychographic and Fluorescence Imaging at the Advanced Photon Source. Microscopy and Microanalysis, 2019, 25, 1030-1031.	0.4	1

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19	High-speed and Large Field-of-view Imaging via X-ray Fly-scan Ptychography. Microscopy and Microanalysis, 2019, 25, 46-47.	0.4	1
20	Copper Transporter ATP7A (Copper-Transporting P-Type ATPase/Menkes ATPase) Limits Vascular Inflammation and Aortic Aneurysm Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2320-2337.	2.4	28
21	Bovine eggs release zinc in response to parthenogenetic and sperm-induced egg activation. Theriogenology, 2019, 127, 41-48.	2.1	34
22	Instrumentation and method developments of x-ray ptychography at the Advanced Photon Source. , 2019, , .		3
23	Optimization-based simultaneous alignment and reconstruction in multi-element tomography. Optics Letters, 2019, 44, 4331.	3.3	8
24	Optimized illumination for high-throughput ptychography. , 2019, , .		0
25	Quantifying X-Ray Fluorescence Data Using MAPS. Journal of Visualized Experiments, 2018, , .	0.3	16
26	Investigation into the intracellular fates, speciation and mode of action of selenium-containing neuroprotective agents using XAS and XFM. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2393-2404.	2.4	7
27	Spatial distribution of metals within the liver acinus and their perturbation by PCB126. Environmental Science and Pollution Research, 2018, 25, 16427-16433.	5.3	3
28	Trace Metal Imaging of Sulfate-Reducing Bacteria and Methanogenic Archaea at Single-Cell Resolution by Synchrotron X-Ray Fluorescence Imaging. Geomicrobiology Journal, 2018, 35, 81-89.	2.0	13
29	Intracellular in situ labeling of TiO2 nanoparticles for fluorescence microscopy detection. Nano Research, 2018, 11, 464-476.	10.4	30
30	Performance and Ongoing Development of the Velociprobe, a Fast Hard X-ray Nanoprobe for High-Resolution Ptychographic Imaging. Microscopy and Microanalysis, 2018, 24, 54-55.	0.4	13
31	Correlative 3D x-ray fluorescence and ptychographic tomography of frozen-hydrated green algae. Science Advances, 2018, 4, eaau4548.	10.3	79
32	Acetylation increases relative humidity threshold for ion transport in wood cell walls â€“ A means to understanding decay resistance. International Biodeterioration and Biodegradation, 2018, 133, 230-237.	3.9	29
33	Zinc sparks induce physiochemical changes in the egg zona pellucida that prevent polyspermy. Integrative Biology (United Kingdom), 2017, 9, 135-144.	1.3	72
34	Synchrotron-based X-ray fluorescence microscopy enables multiscale spatial visualization of ions involved in fungal lignocellulose deconstruction. Scientific Reports, 2017, 7, 41798.	3.3	38
35	(Pentamethylcyclopentadienato)rhodium Complexes for Delivery of the Curcumin Anticancer Drug. European Journal of Inorganic Chemistry, 2017, 2017, 1812-1823.	2.0	16
36	Encapsulation, controlled release, and antitumor efficacy of cisplatin delivered in liposomes composed of sterol-modified phospholipids. European Journal of Pharmaceutical Sciences, 2017, 103, 85-93.	4.0	33

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37	Increased Throughput and Sensitivity of Synchrotron-Based Characterization for Photovoltaic Materials. IEEE Journal of Photovoltaics, 2017, 7, 763-771.	2.5	10
38	Imaging of Vanadium in Microfossils: A New Potential Biosignature. Astrobiology, 2017, 17, 1069-1076.	3.0	12
39	X-ray ptychographic and fluorescence microscopy of frozen-hydrated cells using continuous scanning. Scientific Reports, 2017, 7, 445.	3.3	88
40	Preserving elemental content in adherent mammalian cells for analysis by synchrotronâ€based xâ€ray fluorescence microscopy. Journal of Microscopy, 2017, 265, 81-93.	1.8	83
41	Microdistribution of lead in human teeth using microbeam synchrotron radiation X-ray fluorescence (Î¼-SRXRF). X-Ray Spectrometry, 2017, 46, 19-26.	1.4	6
42	Cementum structure in Beluga whale teeth. Acta Biomaterialia, 2017, 48, 289-299.	8.3	32
43	Intracellular distribution and stability of a luminescent rhenium(<scp>i</scp>) tricarbonyl tetrazolato complex using epifluorescence microscopy in conjunction with X-ray fluorescence imaging. Metallomics, 2017, 9, 382-390.	2.4	31
44	PlantPredict: Solar Performance Modeling Made Simple. , 2017, , .		3
45	X-ray fluorescence at nanoscale resolution for multicomponent layered structures: a solar cell caseÂstudy. Journal of Synchrotron Radiation, 2017, 24, 288-295.	2.4	27
46	Distribution of Iron Oxide Core-Titanium Dioxide Shell Nanoparticles in VX2 Tumor Bearing Rabbits Introduced by Two Different Delivery Modalities. Nanomaterials, 2016, 6, 143.	4.1	7
47	Directed plant cell-wall accumulation of iron: embedding co-catalyst for efficient biomass conversion. Biotechnology for Biofuels, 2016, 9, 225.	6.2	12
48	Carcinogenic Chromium(VI) Compounds Formed by Intracellular Oxidation of Chromium(III) Dietary Supplements by Adipocytes. Angewandte Chemie - International Edition, 2016, 55, 1742-1745.	13.8	54
49	Imaging trace element distributions in single organelles and subcellular features. Scientific Reports, 2016, 6, 21437.	3.3	39
50	Cell wall targeted in planta iron accumulation enhances biomass conversion and seed iron concentration in Arabidopsis and rice. Plant Biotechnology Journal, 2016, 14, 1998-2009.	8.3	19
51	Microplankton trace element contents: implications for mineral limitation of mesozooplankton in an HNLC area. Journal of Plankton Research, 2016, 38, 256-270.	1.8	13
52	HYBRID Simulations of Diffraction-Limited Focusing with Kirkpatrick-Baez Mirrors for a Next-Generation In Situ Hard X-ray Nanoprobe. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5715-5721.	2.2	0
53	Micro X-ray Fluorescence Study of Late Pre-Hispanic Ceramics from the Western Slopes of the South Central Andes Region in the Arica y Parinacota Region, Chile: A New Methodological Approach. Applied Spectroscopy, 2016, 70, 1759-1769.	2.2	5
54	MicroXRF tomographic visualization of zinc and iron in the zebrafish embryo at the onset of the hatching period. Metallomics, 2016, 8, 1122-1130.	2.4	14

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55	Copper Uptake, Intracellular Localization, and Speciation in Marine Microalgae Measured by Synchrotron Radiation X-ray Fluorescence and Absorption Microspectroscopy. Environmental Science & Technology, 2016, 50, 8827-8839.	10.0	44
56	Copper, zinc and calcium: imaging and quantification in anterior pituitary secretory granules. Metallomics, 2016, 8, 1012-1022.	2.4	10
57	Endothelial Antioxidant-1: a Key Mediator of Copper-dependent Wound Healing in vivo. Scientific Reports, 2016, 6, 33783.	3.3	55
58	Advances and challenges in cryo ptychography at the Advanced Photon Source. AIP Conference Proceedings, 2016, 1696, .	0.4	0
59	2D/3D cryo x-ray fluorescence imaging at the bionanoprobe at the advanced photon source. AIP Conference Proceedings, 2016, , .	0.4	5
60	Carcinogenic Chromium(VI) Compounds Formed by Intracellular Oxidation of Chromium(III) Dietary Supplements by Adipocytes. Angewandte Chemie, 2016, 128, 1774-1777.	2.0	7
61	The â€˜Tully monsterâ€™ is a vertebrate. Nature, 2016, 532, 496-499.	27.8	35
62	The Bionanoprobe: Synchrotron-Based Hard X-ray Fluorescence Microscopy for 2D/3D Trace Element Mapping. Microscopy Today, 2015, 23, 26-29.	0.3	13
63	The inorganic anatomy of the mammalian preimplantation embryo and the requirement of zinc during the first mitotic divisions. Developmental Dynamics, 2015, 244, 935-947.	1.8	25
64	X-Ray Fluorescence Microscopy Demonstrates Preferential Accumulation of a Vanadium-Based Magnetic Resonance Imaging Contrast Agent in Murine Colonic Tumors. Molecular Imaging, 2015, 14, 7290.2015.00001.	1.4	10
65	Ultraviolet Germicidal Irradiation and Its Effects on Elemental Distributions in Mouse Embryonic Fibroblast Cells in X-Ray Fluorescence Microanalysis. PLoS ONE, 2015, 10, e0117437.	2.5	24
66	Cryogenic Sample Preparation Preserves Elemental Composition for Correlative Light and X-ray Fluorescence Microscopy. Microscopy and Microanalysis, 2015, 21, 877-878.	0.4	0
67	Simultaneous x-ray nano-ptychographic and fluorescence microscopy at the bionanoprobe. , 2015, , .		2
68	Opportunities and limitations for combined fly-scan ptychography and fluorescence microscopy. , 2015, 9592, .		2
69	Stacking multiple zone plates for efficient hard x-ray focusing at the Advanced Photon Source. Proceedings of SPIE, 2015, , .	0.8	0
70	Mechanisms of murine cerebral malaria: Multimodal imaging of altered cerebral metabolism and protein oxidation at hemorrhage sites. Science Advances, 2015, 1, e1500911.	10.3	25
71	Optimizing detector geometry for trace element mapping by X-ray fluorescence. Ultramicroscopy, 2015, 152, 44-56.	1.9	29
72	Simultaneous cryo X-ray ptychographic and fluorescence microscopy of green algae. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2314-2319.	7.1	146

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73	Synchrotron-based X-ray Fluorescence Microscopy in Conjunction with Nanoindentation to Study Molecular-Scale Interactions of Phenolâ€“Formaldehyde in Wood Cell Walls. ACS Applied Materials & Interfaces, 2015, 7, 6584-6589.	8.0	70
74	Continuous motion scan ptychography: characterization for increased speed in coherent x-ray imaging. Optics Express, 2015, 23, 5438.	3.4	102
75	IV Administered Gadodiamide Enters the Lumen of the Prostatic Glands: X-Ray Fluorescence Microscopy Examination of a Mouse Model. American Journal of Roentgenology, 2015, 205, W313-W319.	2.2	6
76	Metal contents of phytoplankton and labile particulate material in the North Atlantic Ocean. Progress in Oceanography, 2015, 137, 261-283.	3.2	81
77	Threshold for ion movements in wood cell walls below fiber saturation observed by X-ray fluorescence microscopy (XFM). Holzforschung, 2015, 69, 441-448.	1.9	36
78	Quantitative mapping of zinc fluxes in the mammalian egg reveals the origin of fertilization-induced zinc sparks. Nature Chemistry, 2015, 7, 130-139.	13.6	185
79	Metal-deficient aggregates and diminished copper found in cells expressing SOD1 mutations that cause ALS. Frontiers in Aging Neuroscience, 2014, 6, 110.	3.4	52
80	Non-negative matrix analysis for effective feature extraction in X-ray spectromicroscopy. Faraday Discussions, 2014, 171, 357-371.	3.2	37
81	Fresnel zone plate stacking in the intermediate field for high efficiency focusing in the hard X-ray regime. Optics Express, 2014, 22, 28142.	3.4	35
82	A Next-Generation Hard X-Ray Nanoprobe Beamline for In Situ Studies of Energy Materials and Devices. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 85-97.	2.2	14
83	XAS and XFM studies of selenium and copper speciation and distribution in the kidneys of selenite-supplemented rats. Metallomics, 2014, 6, 1602-1615.	2.4	30
84	Quantitation and localization of intracellular redox active metals by X-ray fluorescence microscopy in cortical neurons derived from APP and APLP2 knockout tissue. Metallomics, 2014, 6, 1894-1904.	2.4	21
85	3D imaging of transition metals in the zebrafish embryo by X-ray fluorescence microtomography. Metallomics, 2014, 6, 1648.	2.4	45
86	Scientific data exchange: a schema for HDF5-based storage of raw and analyzed data. Journal of Synchrotron Radiation, 2014, 21, 1224-1230.	2.4	86
87	Differential remineralization of major and trace elements in sinking diatoms. Limnology and Oceanography, 2014, 59, 689-704.	3.1	84
88	Wood as inspiration for new stimuli-responsive structures and materials. , 2014, , .		3
89	Multiscale deconstruction of molecular architecture in corn stover. Scientific Reports, 2014, 4, 3756.	3.3	30
90	Alignment of low-dose X-ray fluorescence tomographyÂimages using differential phase contrast. Journal of Synchrotron Radiation, 2014, 21, 229-234.	2.4	24

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91	The Bionanoprobe: hard X-ray fluorescence nanoprobe with cryogenic capabilities. Journal of Synchrotron Radiation, 2014, 21, 66-75.	2.4	151
92	Unsupervised cell identification on multidimensional X-ray fluorescence datasets. Journal of Synchrotron Radiation, 2014, 21, 568-579.	2.4	10
93	Opportunities in multidimensional trace metal imaging: taking copper-associated disease research to the next level. Analytical and Bioanalytical Chemistry, 2013, 405, 1809-1820.	3.7	35
94	Iron distribution through the developmental stages of Medicago truncatula nodules. Metallomics, 2013, 5, 1247.	2.4	52
95	Methylmercury Targets Photoreceptor Outer Segments. ACS Chemical Biology, 2013, 8, 2256-2263.	3.4	40
96	Epidermal Growth Factor Receptor Targeted Nuclear Delivery and High-Resolution Whole Cell X-ray Imaging of Fe₃O₄@TiO₂ Nanoparticles in Cancer Cells. ACS Nano, 2013, 7, 10502-10517.	14.6	113
97	X-ray fluorescence imaging of single human cancer cells reveals that the N-heterocyclic ligands of iodinated analogues of ruthenium anticancer drugs remain coordinated after cellular uptake. Journal of Biological Inorganic Chemistry, 2013, 18, 845-853.	2.6	21
98	Trends in X-ray Fluorescence Microscopy. Synchrotron Radiation News, 2013, 26, 32-38.	0.8	17
99	Periplasmic response upon disruption of transmembrane Cu transport in Pseudomonas aeruginosa. Metallomics, 2013, 5, 144.	2.4	31
100	Tissue specific specialization of the nanoscale architecture of Arabidopsis. Journal of Structural Biology, 2013, 184, 103-114.	2.8	16
101	Intracellular Targeting and Pharmacological Activity of the Superoxide Dismutase Mimics MnTE-2-PyP⁵⁺ and MnTnHex-2-PyP⁵⁺ Regulated by Their Porphyrin Ring Substituents. Inorganic Chemistry, 2013, 52, 4121-4123.	4.0	27
102	A next-generation in-situ nanoprobe beamline for the Advanced Photon Source. Proceedings of SPIE, 2013, , .	0.8	2
103	Sub-100-nm 3D-elemental mapping of frozen-hydrated cells using the bionanoprobe. Proceedings of SPIE, 2013, , .	0.8	0
104	Optomechanical design of a modular K-B mirror mount system for x-ray microfocusing at the advanced photon source. , 2013, , .		3
105	Synchrotron X-ray fluorescence studies of a bromine-labelled cyclic RGD peptide interacting with individual tumor cells. Journal of Synchrotron Radiation, 2013, 20, 226-233.	2.4	10
106	Role of biogenic silica in the removal of iron from the Antarctic seas. Nature Communications, 2013, 4, 1981.	12.8	61
107	Three-dimensional Imaging of Crystalline Inclusions Embedded in Intact Maize Stalks. Scientific Reports, 2013, 3, 2843.	3.3	4
108	Rapid and Accurate Analysis of an X-Ray Fluorescence Microscopy Data Set through Gaussian Mixture-Based Soft Clustering Methods. Microscopy and Microanalysis, 2013, 19, 1281-1289.	0.4	14

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109	Mapping the subcellular localization of Fe₃O₄@TiO₂ nanoparticles by X-ray Fluorescence Microscopy. Journal of Physics: Conference Series, 2013, 463, 012020.	0.4	4
110	New Developments in Hard X-ray Fluorescence Microscopy for In-situ Investigations of Trace Element Distributions in Aqueous Systems of Soil Colloids. Journal of Physics: Conference Series, 2013, 463, 012005.	0.4	2
111	Selenium Metabolism in Cancer Cells: The Combined Application of XAS and XFM Techniques to the Problem of Selenium Speciation in Biological Systems. Nutrients, 2013, 5, 1734-1756.	4.1	60
112	Simultaneous X-ray fluorescence and ptychographic microscopy of Cyclotella meneghiniana. Optics Express, 2012, 20, 18287.	3.4	75
113	Role of Copper Transport Protein Antioxidant 1 in Angiotensin IIâ€“Induced Hypertension. Hypertension, 2012, 60, 476-486.	2.7	57
114	X-Ray Fluorescence Microscopy for Investigation of Archival Tissues. Health Physics, 2012, 103, 181-186.	0.5	25
115	Submicron hard X-ray fluorescence imaging of synthetic elements. Analytica Chimica Acta, 2012, 722, 21-28.	5.4	7
116	Significant silicon accumulation by marine picocyanobacteria. Nature Geoscience, 2012, 5, 886-891.	12.9	96
117	Identifying metalloproteins through X-ray fluorescence mapping and mass spectrometry. Metallomics, 2012, 4, 921.	2.4	22
118	High-Resolution Imaging of Selenium in Kidneys: A Localized Selenium Pool Associated with Glutathione Peroxidase 3. Antioxidants and Redox Signaling, 2012, 16, 185-192.	5.4	44
119	Role of diatoms in nickel biogeochemistry in the ocean. Global Biogeochemical Cycles, 2012, 26, .	4.9	58
120	The Unique Biogeochemical Signature of the Marine Diazotroph Trichodesmium. Frontiers in Microbiology, 2012, 3, 150.	3.5	57
121	Nanocarriers Enhance Doxorubicin Uptake in Drug-Resistant Ovarian Cancer Cells. Cancer Research, 2012, 72, 769-778.	0.9	97
122	Synchrotron radiation induced X-ray emission studies of the antioxidant mechanism of the organoselenium drug ebselen. Journal of Biological Inorganic Chemistry, 2012, 17, 589-598.	2.6	16
123	LOCALIZATION OF IRON WITHIN CENTRIC DIATOMS OF THE GENUS THALASSIOSIRA¹. Journal of Phycology, 2012, 48, 626-634.	2.3	37
124	Uptake, Distribution, and Speciation of Selenoamino Acids by Human Cancer Cells: X-ray Absorption and Fluorescence Methods. Biochemistry, 2011, 50, 1641-1650.	2.5	50
125	Direct Determination of the Intracellular Oxidation State of Plutonium. Inorganic Chemistry, 2011, 50, 7591-7597.	4.0	15
126	Metabolism of Selenite in Human Lung Cancer Cells: X-Ray Absorption and Fluorescence Studies. Journal of the American Chemical Society, 2011, 133, 18272-18279.	13.7	73

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127	Uptake and Distribution of a Platinum(II)-Carborane Complex Within a Tumour Cell Using Synchrotron XRF Imaging. Australian Journal of Chemistry, 2011, 64, 253.	0.9	10
128	Plutonium uptake and distribution in mammalian cells: Molecular vs. polymeric plutonium. International Journal of Radiation Biology, 2011, 87, 1023-1032.	1.8	18
129	Zinc Sparks Are Triggered by Fertilization and Facilitate Cell Cycle Resumption in Mammalian Eggs. ACS Chemical Biology, 2011, 6, 716-723.	3.4	184
130	Increased brain iron coincides with early plaque formation in a mouse model of Alzheimer's disease. NeuroImage, 2011, 55, 32-38.	4.2	123
131	Distribution and speciation of gold in biogenic and abiogenic calcium carbonates â€“ Implications for the formation of gold anomalous calcrete. Geochimica Et Cosmochimica Acta, 2011, 75, 1942-1956.	3.9	28
132	Elemental composition of equatorial Pacific diatoms exposed to additions of silicic acid and iron. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 512-523.	1.4	37
133	Metal quotas of plankton in the equatorial Pacific Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 325-341.	1.4	103
134	Selectivity in biomineralization of barium and strontium. Journal of Structural Biology, 2011, 176, 192-202.	2.8	53
135	Elemental Profiling of Single Bacterial Cells As a Function of Copper Exposure and Growth Phase. PLoS ONE, 2011, 6, e21255.	2.5	10
136	Hard X-ray Fluorescence Microscopy to Determine the Element Distribution of Soil Colloids in Aqueous Environment. , 2011, , .		2
137	PAST AND FUTURE WORK ON RADIOBIOLOGY MEGA-STUDIES: A CASE STUDY AT ARGONNE NATIONAL LABORATORY. Health Physics, 2011, 100, 613-621.	0.5	23
138	Spatially Resolved Sulfur Speciation in Urban Soils. , 2011, , .		2
139	Interrogation of EGFR-Targeted Uptake of TiO[sub 2] Nanoconjugates by X-ray Fluorescence Microscopy. , 2011, 1365, 423-426.		4
140	Combined X-ray Microfluorescence and Atomic Force Microscopy Studies of Mg Distribution in Whole Cells. , 2011, , .		0
141	Radiation damage to protein crystals is reduced with a micron-sized X-ray beam. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C158-C158.	0.3	0
142	A Multimodal Nanocomposite for Biomedical Imaging. AIP Conference Proceedings, 2011, 1365, 379.	0.4	5
143	Intracellular concentration map of magnesium in whole cells by combined use of X-ray fluorescence microscopy and atomic force microscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 834-840.	2.9	20
144	Quantitative comparison of preparation methodologies for x-ray fluorescence microscopy of brain tissue. Analytical and Bioanalytical Chemistry, 2011, 401, 853-864.	3.7	53

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145	Î²â€Cell subcellular localization of glucoseâ€stimulated Mn uptake by Xâ€ray fluorescence microscopy: implications for pancreatic MRI. Contrast Media and Molecular Imaging, 2011, 6, 474-481.	0.8	16
146	Selective Sequestration of Strontium in Desmid Green Algae by Biogenic Coâ€precipitation with Barite. ChemSusChem, 2011, 4, 470-473.	6.8	37
147	Calcium-dependent copper redistributions in neuronal cells revealed by a fluorescent copper sensor and X-ray fluorescence microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5980-5985.	7.1	182
148	Reduced Utilization of Selenium by Naked Mole Rats Due to a Specific Defect in GPx1 Expression. Journal of Biological Chemistry, 2011, 286, 17005-17014.	3.4	35
149	An iron-dependent and transferrin-mediated cellular uptake pathway for plutonium. Nature Chemical Biology, 2011, 7, 560-565.	8.0	76
150	Radiation damage in protein crystals is reduced with a micron-sized X-ray beam. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6127-6132.	7.1	124
151	Variations in Synechococcus cell quotas of phosphorus, sulfur, manganese, iron, nickel, and zinc within mesoscale eddies in the Sargasso Sea. Limnology and Oceanography, 2010, 55, 492-506.	3.1	35
152	One-Micron Beams for Macromolecular Crystallography at GMâ•CA-CAT. , 2010, , .		9
153	Biomedical applications of X-ray absorption and vibrational spectroscopic microscopies in obtaining structural information from complex systems. Radiation Physics and Chemistry, 2010, 79, 176-184.	2.8	34
154	Virulence-related Mycobacterium avium subsp hominissuis MAV_2928 gene is associated with vacuole remodeling in macrophages. BMC Microbiology, 2010, 10, 100.	3.3	29
155	Selective Aggregation of a Platinumâ€“Gadolinium Complex Within a Tumorâ€Cell Nucleus. Angewandte Chemie - International Edition, 2010, 49, 1231-1233.	13.8	44
156	Quantification of phosphorus in single cells using synchrotron X-ray fluorescence. Journal of Synchrotron Radiation, 2010, 17, 560-566.	2.4	33
157	Zinc availability regulates exit from meiosis in maturing mammalian oocytes. Nature Chemical Biology, 2010, 6, 674-681.	8.0	208
158	Zernike phase contrast in scanning microscopy with X-rays. Nature Physics, 2010, 6, 883-887.	16.7	105
159	X-Ray Fluorescence Microscopy Reveals Accumulation and Secretion of Discrete Intracellular Zinc Pools in the Lactating Mouse Mammary Gland. PLoS ONE, 2010, 5, e11078.	2.5	52
160	Quantitative 3D elemental microtomography ofCyclotella meneghinianaat 400-nm resolution. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15676-15680.	7.1	146
161	Unexpected Role of the Copper Transporter ATP7A in PDGF-Induced Vascular Smooth Muscle Cell Migration. Circulation Research, 2010, 107, 787-799.	4.5	73
162	Wilson Disease at a Single Cell Level. Journal of Biological Chemistry, 2010, 285, 30875-30883.	3.4	95

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163	Imaging Metals in Proteins by Combining Electrophoresis with Rapid X-ray Fluorescence Mapping. ACS Chemical Biology, 2010, 5, 577-587.	3.4	52
164	Hard X-ray fluorescence tomographyâ€"an emerging tool for structural visualization. Current Opinion in Structural Biology, 2010, 20, 606-614.	5.7	153
165	Uptake and Distribution of Ultrasmall Anatase TiO₂Alizarin Red S Nanoconjugates inArabidopsis thaliana. Nano Letters, 2010, 10, 2296-2302.	9.1	395
166	Silicon nitride as a versatile growth substrate for microspectroscopic imaging and mapping of individual cells. Molecular BioSystems, 2010, 6, 1316.	2.9	72
167	Loss of Pluripotency in Human Embryonic Stem Cells Directly Correlates with an Increase in Nuclear Zinc. PLoS ONE, 2010, 5, e12308.	2.5	18
168	Variations in Synechococcus cell quotas of phosphorus, sulfur, manganese, iron, nickel, and zinc within mesoscale eddies in the Sargasso Sea. Limnology and Oceanography, 2010, 55, 492-506.	3.1	30
169	Uptake mechanisms of EGFR-targeted TiO2 nanoparticles.. Journal of Clinical Oncology, 2010, 28, e13583-e13583.	1.6	0
170	Ductal Carcinoma in Situ: X-ray Fluorescence Microscopy and Dynamic Contrast-enhanced MR Imaging Reveals Gadolinium Uptake within Neoplastic Mammary Ducts in a Murine Model. Radiology, 2009, 253, 399-406.	7.3	76
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