Hoi-Ying N Holman

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Interplay of microbial communities with mineral environments in coralline algae. Science of the Total Environment, 2021, 757, 143877.	3.9	6
2	Gaussian processes for autonomous data acquisition at large-scale synchrotron and neutron facilities. Nature Reviews Physics, 2021, 3, 685-697.	11.9	44
3	Copper (II) Ion Action on Soil Bacteria. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	5
4	Micromundos biominerales en las algas rojas. Revista Digital Universitaria, 2021, 22, .	0.0	0
5	Towards high-throughput autonomous infrared spectromicroscopy. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, C85-C85.	0.0	0
6	Autonomous adaptive data acquisition for scanning hyperspectral imaging. Communications Biology, 2020, 3, 684.	2.0	8
7	Tunable rainbow light trapping in ultrathin resonator arrays. Light: Science and Applications, 2020, 9, 194.	7.7	16
8	Lipid analysis of CO2-rich subsurface aquifers suggests an autotrophy-based deep biosphere with lysolipids enriched in CPR bacteria. ISME Journal, 2020, 14, 1547-1560.	4.4	29
9	Deconstruction of plant biomass by a Cellulomonas strain isolated from an ultra-basic (lignin-stripping) spring. Archives of Microbiology, 2020, 202, 1077-1084.	1.0	2
10	Mechanisms of soft tissue and protein preservation in Tyrannosaurus rex. Scientific Reports, 2019, 9, 15678.	1.6	27
11	INFLUENCE OF SODIUM ON ASSIMILATION PROCESS OF Cr(VI) AND Cu BY ARTHROBACTER GLOBIFORMIS 151B CHROMIUM-RESISTANT BACTERIUM. European Chemical Bulletin, 2019, 8, 128.	2.7	0
12	High pCO2-induced exopolysaccharide-rich ballasted aggregates of planktonic cyanobacteria could explain Paleoproterozoic carbon burial. Nature Communications, 2018, 9, 2116.	5.8	19
13	Exploring Biogeochemistry and Microbial Diversity of Extant Microbialites in Mexico and Cuba. Frontiers in Microbiology, 2018, 9, 510.	1.5	29
14	Towards Integrating Synchrotron FTIR Microscopy with Mass Spectrometry at the Berkeley Synchrotron Infrared Structural Biology (BSISB) Program. Synchrotron Radiation News, 2017, 30, 17-23.	0.2	1
15	Human age and skin physiology shape diversity and abundance of Archaea on skin. Scientific Reports, 2017, 7, 4039.	1.6	78
16	Longitudinal Shaping of Subwavelength Infrared Beams using Plasmonic Bull's-eye Structure with Concentric Slits. , 2017, , .		0
17	Microfluidic approaches to synchrotron radiation-based Fourier transform infrared (SR-FTIR) spectral microscopy of living biosystems. Protein and Peptide Letters, 2016, 23, 273-282.	0.4	35
18	Belowground Response to Drought in a Tropical Forest Soil. II. Change in Microbial Function Impacts Carbon Composition. Frontiers in Microbiology, 2016, 7, 323.	1.5	46

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19	IR-Live: fabrication of a low-cost plastic microfluidic device for infrared spectromicroscopy of living cells. Lab on A Chip, 2016, 16, 1644-1651.	3.1	25
20	Genome Sequence of the Alkaline-Tolerant <i>Cellulomonas</i> sp. Strain FA1. Genome Announcements, 2015, 3, .	0.8	4
21	Bimodal effect of hydrogen peroxide and oxidative events in nitrite-induced rapid root abscission by the water fern Azolla pinnata. Frontiers in Plant Science, 2015, 6, 518.	1.7	3
22	Structural characterization of a mixed-linkage glucan deficient mutant reveals alteration in cellulose microfibril orientation in rice coleoptile mesophyll cell walls. Frontiers in Plant Science, 2015, 6, 628.	1.7	24
23	Ambient Infrared Laser Ablation Mass Spectrometry (AIRLAB-MS) of Live Plant Tissue with Plume Capture by Continuous Flow Solvent Probe. Analytical Chemistry, 2015, 87, 2631-2638.	3.2	22
24	Diverse uncultivated ultra-small bacterial cells in groundwater. Nature Communications, 2015, 6, 6372.	5.8	342
25	Open-Channel Microfluidic Membrane Device for Long-Term FT-IR Spectromicroscopy of Live Adherent Cells. Analytical Chemistry, 2015, 87, 4601-4606.	3.2	26
26	Installing extra bicarbonate transporters in the cyanobacterium Synechocystis sp. PCC6803 enhances biomass production. Metabolic Engineering, 2015, 29, 76-85.	3.6	76
27	Coupling Genetic and Chemical Microbiome Profiling Reveals Heterogeneity of Archaeome and Bacteriome in Subsurface Biofilms That Are Dominated by the Same Archaeal Species. PLoS ONE, 2014, 9, e99801.	1.1	28
28	Synchrotron Chemical and Structural Analysis of Tyrannosaurus rex Blood Vessels: The Contribution of Collagen Hypercrosslinking to Tissue Longevity. Microscopy and Microanalysis, 2014, 20, 1430-1431.	0.2	2
29	Metabolic phenotyping of the cyanobacterium Synechocystis 6803 engineered for production of alkanes and free fatty acids. Applied Energy, 2013, 102, 850-859.	5.1	41
30	Tackling the minority: sulfate-reducing bacteria in an archaea-dominated subsurface biofilm. ISME Journal, 2013, 7, 635-651.	4.4	57
31	Synchrotron infrared imaging of advanced glycation endproducts (AGEs) in cardiac tissue from mice fed high glycemic diets. Biomedical Spectroscopy and Imaging, 2013, 2, 301-315.	1.2	18
32	Synchrotron Infrared Measurements of Protein Phosphorylation in Living Single PC12 Cells during Neuronal Differentiation. Analytical Chemistry, 2012, 84, 4118-4125.	3.2	57
33	Metagenome, metatranscriptome and single-cell sequencing reveal microbial response to Deepwater Horizon oil spill. ISME Journal, 2012, 6, 1715-1727.	4.4	547
34	Remediation of Chromium and Uranium Contamination by Microbial Activity. Elements, 2012, 8, 107-112.	0.5	54
35	Quantitative studies of long-term stable, top-down fabricated silicon nanowire pH sensors. Applied Physics A: Materials Science and Processing, 2012, 107, 421-428.	1.1	31
36	Deepâ€sea bacteria enriched by oil and dispersant from the Deepwater Horizon spill. Environmental Microbiology, 2012, 14, 2405-2416.	1.8	275

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37	Effect of Zn(II) on the reduction and accumulation of Cr(VI) by Arthrobacter species. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1803-1808.	1.4	3
38	2010 ALS Users' Meeting and Workshops. Synchrotron Radiation News, 2011, 24, 2-9.	0.2	0
39	Synchrotron Infrared Spectromicroscopy for Studying Chemistry of Microbial Activity in Geologic Materials. Developments in Soil Science, 2010, 34, 103-130.	0.5	5
40	Response of antioxidant defense system to chromium (VI)-induced cytotoxicity in human diploid cells. BioMetals, 2010, 23, 161-172.	1.8	13
41	Imaging Cell Wall Architecture in Single Zinnia elegans Tracheary Elements Â. Plant Physiology, 2010, 154, 121-133.	2.3	42
42	Deep-Sea Oil Plume Enriches Indigenous Oil-Degrading Bacteria. Science, 2010, 330, 204-208.	6.0	1,109
43	Ultrafast Self-Assembly of Microscale Particles by Open-Channel Flow. Langmuir, 2010, 26, 4661-4667.	1.6	38
44	Synchrotron IR Spectromicroscopy: Chemistry of Living Cells. Analytical Chemistry, 2010, 82, 8757-8765.	3.2	116
45	Infrared Spectromicroscopy: Probing Live Cellular Responses to Environmental Changes. Synchrotron Radiation News, 2010, 23, 12-19.	0.2	6
46	Chapter 13. Mid-Infrared Reflectivity of Mouse Atheromas: A Case Study. Metal Ions in Life Sciences, 2010, , 351-368.	1.0	0
47	Real-time molecular monitoring of chemical environment in obligate anaerobes during oxygen adaptive response. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12599-12604.	3.3	38
48	Decomposition of Cr(V)-diols to Cr(III) Complexes by Arthrobacter oxydans. Microbial Ecology, 2009, 57, 360-366.	1.4	7
49	Real-Time Chemical Imaging of Bacterial Activity in Biofilms Using Open-Channel Microfluidics and Synchrotron FTIR Spectromicroscopy. Analytical Chemistry, 2009, 81, 8564-8570.	3.2	128
50	The Real-Time Behavior of Chromium in <i>Arthrobacter oxydans</i> . , 2009, , .		0
51	Biotechnology of Cr(VI) transformation into Cr(III) complexes. Journal of Radioanalytical and Nuclear Chemistry, 2008, 278, 565-569.	0.7	8
52	Mid-infrared reflectivity of experimental atheromas. Journal of Biomedical Optics, 2008, 13, 030503.	1.4	22
53	Surface-Mediated Chromate-Resistant Mechanism ofEnterobacter CloacaeBacteria Investigated by Atomic Force Microscopy. Langmuir, 2007, 23, 4480-4485.	1.6	16
54	Rapid Water Sample Screening for Estrogenic Activity Using Live Yeast Cells. , 2007, , .		0

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55	Epithermal Neutron Activation Analysis of Cr(VI)-Reducer Basalt-Inhabiting Bacteria. Analytical Chemistry, 2006, 78, 6285-6290.	3.2	6
56	Salt Stress in Desulfovibrio vulgaris Hildenborough: an Integrated Genomics Approach. Journal of Bacteriology, 2006, 188, 4068-4078.	1.0	155
57	Probing the structure-function relationships of microbial systems by high-resolution in vitro atomic force microscopy. , 2006, , .		Ο
58	Developing a biosensor for estrogens in water samples: Study of the real-time response of live cells of the estrogen-sensitive yeast strain RMY/ER-ERE using fluorescence microscopy. Biosensors and Bioelectronics, 2006, 21, 1654-1658.	5.3	32
59	Effect of chromate action on morphology of basalt-inhabiting bacteria. Materials Science and Engineering C, 2006, 26, 610-612.	3.8	23
60	Chromium(V) complexes generated in Arthrobacter oxydans by simulation analysis of EPR spectra. Journal of Inorganic Biochemistry, 2006, 100, 1827-1833.	1.5	23
61	Characterization of chromium-induced apoptosis in cultured mammalian cells:. Thermochimica Acta, 2006, 441, 8-15.	1.2	12
62	Synchrotron Radiation Infrared Spectromicroscopy: A Noninvasive Chemical Probe for Monitoring Biogeochemical Processes. Advances in Agronomy, 2006, 90, 79-127.	2.4	26
63	The effect of solvent dynamics on the low frequency collective motions of DNA in solution and unoriented films. Journal of Chemical Physics, 2006, 124, 224706.	1.2	9
64	Improving Risk Assessments for Manufactured Gas Plant Soils by Measuring PAH Availability. Integrated Environmental Assessment and Management, 2005, 1, 259.	1.6	9
65	Estimation of the Cellular Antioxidant Response to Chromium Action Using ESR Method. Scientific World Journal, The, 2004, 4, 785-794.	0.8	2
66	ENAA studies of chromium uptake by Arthrobacter oxydans. Journal of Radioanalytical and Nuclear Chemistry, 2004, 259, 527-531.	0.7	13
67	Effects of Cr(VI) long-term and low-dose action on mammalian antioxidant enzymes (an in vitro study). Journal of Inorganic Biochemistry, 2004, 98, 490-496.	1.5	30
68	Effect of Chromium(VI) Action on Arthrobacter oxydans. Current Microbiology, 2004, 49, 321-326.	1.0	75
69	Electron Tomographic Studies of Bacterial Structure and Function. Microscopy and Microanalysis, 2004, 10, 1184-1185.	0.2	1
70	Antioxidant Capacity of Cultured Mammalian Cells Estimated by ESR Method. Scientific World Journal, The, 2004, 4, 490-499.	0.8	3
71	Synchrotron-Based FTIR Spectromicroscopy: Cytotoxicity and Heating Considerations. Journal of Biological Physics, 2003, 29, 275-286.	0.7	44
72	Electron Spin Resonance Study of Chromium(V) Formation and Decomposition by Basalt-Inhabiting Bacteria. Environmental Science & Technology, 2003, 37, 4678-4684.	4.6	39

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73	Tracking Chemical Changes in a Live Cell: Biomedical Applications of SR-FTIR Spectromicroscopy. Spectroscopy, 2003, 17, 139-159.	0.8	56
74	A Calorimetric Characterization of Cr(VI)-ReducingArthrobacter oxydansat Different Phases of the Cell Growth Cycle. Scientific World Journal, The, 2003, 3, 432-442.	0.8	6
75	Synchrotron infrared spectromicroscopy as a novel bioanalytical microprobe for individual living cells: cytotoxicity considerations. Journal of Biomedical Optics, 2002, 7, 417.	1.4	77
76	Evaluation of Gastrointestinal Solubilization of Petroleum Hydrocarbon Residues in Soil Using an In Vitro Physiologically Based Model. Environmental Science & Technology, 2002, 36, 1281-1286.	4.6	26
77	Catalysis of PAH Biodegradation by Humic Acid Shown in Synchrotron Infrared Studies. Environmental Science & Technology, 2002, 36, 1276-1280.	4.6	103
78	Capillary electrophoresis of Cr(VI) reducerArthrobacter oxydans. Biomedical Chromatography, 2002, 16, 327-331.	0.8	14
79	Assessment of in-situ bioremediation at a refinery waste-contaminated site and an aviation gasoline contaminated site. Biodegradation, 2002, 13, 79-90.	1.5	29
80	Individual human cell responses to low doses of chemicals studied by synchrotron infrared spectromicroscopy. , 2000, , .		12
81	IR spectroscopic characteristics of cell cycle and cell death probed by synchrotron radiation based Fourier transform IR spectromicroscopy. Biopolymers, 2000, 57, 329-335.	1.2	205
82	Flow dynamics and potential for biodegradation of organic contaminants in fractured rock vadose zones. Journal of Contaminant Hydrology, 2000, 43, 63-90.	1.6	30
83	Low-Dose Responses to 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Single Living Human Cells Measured by Synchrotron Infrared Spectromicroscopy. Environmental Science & Technology, 2000, 34, 2513-2517.	4.6	43
84	IR spectroscopic characteristics of cell cycle and cell death probed by synchrotron radiation based Fourier transform IR spectromicroscopy. Biopolymers, 2000, 57, 329-335.	1.2	3
85	Real-Time Characterization of Biogeochemical Reduction of Cr(VI) on Basalt Surfaces by SR-FTIR Imaging. Geomicrobiology Journal, 1999, 16, 307-324.	1.0	72
86	Mineralization of Sparsely Water-Soluble Polycyclic Aromatic Hydrocarbons in a Water Table Fluctuation Zone. Environmental Science & Technology, 1999, 33, 1819-1824.	4.6	13
87	<title>Detecting exposure to environmental organic toxins in individual cells: toward development of a microfabricated device</title> . , 1999, , .		4
88	Surface-enhanced infrared absorption-reflectance (SEIRA) microspectroscopy for bacteria localization on geologic material surfaces. Journal of Microbiological Methods, 1998, 34, 59-71.	0.7	31
89	Applications of Synchrotron Infrared Microspectroscopy to the Study of Inorganic-Organic Interactions at the Bacterial- Mineral Interface. Materials Research Society Symposia Proceedings, 1998, 524, 17.	0.1	4
90	Evaluation of Transient Dissolution of Slightly Water-Soluble Compounds From a Light Nonaqueous Phase Liquid Pool. Water Resources Research, 1996, 32, 915-923.	1.7	41

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91	On the potential importance of transient air flow in advective radon entry into buildings. Geophysical Research Letters, 1990, 17, 821-824.	1.5	22
92	Comparison of the observed and predicted visual effects caused by power plant plumes. Atmospheric Environment, 1981, 15, 2135-2150.	1.1	12
93	Bioremediation potential of hexavalent chromium-resistant Arthrobacter globiformis 151B: study of the uptake of cesium and other alkali ions. International Microbiology, 0, , .	1.1	0