Adam P Hitchcock

List of Publications by Year
in descending order

217 papers	9,139 citations	41344 49 h-index	51608 86 g-index
227 all docs	227 docs citations	227 times ranked	7934 citing authors

#	Article	IF	Citations
1	Ptychography at the carbon K-edge. Communications Materials, 2022, 3, .	6.9	18
2	Nanoscale chemical mapping of exometabolites at fungalâ€“mineral interfaces. Geobiology, 2022, 20, 650-666.	2.4	3
3	Chemical Structure and Distribution in Nickelâ€“Nitrogenâ€“Carbon Catalysts for CO₂ Electroreduction Identified by Scanning Transmission X-ray Microscopy. ACS Catalysis, 2022, 12, 8746-8760.	11.2	8
4	4D Imaging of ZnO-Coated Nanoporous Al₂O₃ Aerogels by Chemically Sensitive Ptychographic Tomography: Implications for Designer Catalysts. ACS Applied Nano Materials, 2021, 4, 621-632.	5.0	14
5	Calculating absorption dose when X-ray irradiation modifies material quantity and chemistry. Journal of Synchrotron Radiation, 2021, 28, 834-848.	2.4	1
6	In-situ and Operando Studies with Soft X-Ray Transmission Spectromicroscopy. Microscopy and Microanalysis, 2021, 27, 59-60.	0.4	5
7	Magnetosome magnetite biomineralization in a flagellated protist: evidence for an early evolutionary origin for magnetoreception in eukaryotes. Environmental Microbiology, 2020, 22, 1495-1506.	3.8	21
8	Characterizing surface states in hematite nanorod photoanodes, both beneficial and detrimental to solar water splitting efficiency. Journal of Materials Chemistry A, 2020, 8, 20513-20530.	10.3	15
9	Imaging Reactivity of the Ptâ€“Ionomer Interface in Fuel-Cell Catalyst Layers. ACS Catalysis, 2020, 10, 8285-8292.	11.2	16
10	Spatially Resolved Soft X-ray Spectroscopy in Scanning X-ray Microscopes. Microscopy and Microanalysis, 2019, 25, 254-255.	0.4	0
11	Magnetite magnetosome biomineralization in Magnetospirillum magneticum strain AMB-1: A time course study. Chemical Geology, 2019, 530, 119348.	3.3	22
12	Characterization of X-ray Damage to Perfluorosulfonic Acid Using Correlative Microscopy. Journal of Physical Chemistry C, 2019, 123, 16023-16033.	3.1	11
13	XRM 2018. Synchrotron Radiation News, 2019, 32, 28-29.	0.8	0
14	Misalignment between the magnetic dipole moment and the cell axis in the magnetotactic bacteriumMagnetospirillum magneticumAMB-1. Physical Biology, 2019, 16, 066008.	1.8	4
15	Correlative Spectromicroscopy and Tomography for Biomedical Applications Involving Electron, Ion, and Soft X-ray Microscopies. Microscopy Today, 2019, 27, 12-19.	0.3	1
16	Electron beam damage of perfluorosulfonic acid studied by soft X-ray spectromicroscopy. Micron, 2019, 121, 8-20.	2.2	12
17	Electron beam damage of epoxy resin films studied by scanning transmission X-ray spectromicroscopy. Micron, 2019, 120, 74-79.	2.2	11
18	First-principles X-ray absorption dose calculation for time-dependent mass and optical density. Journal of Synchrotron Radiation, 2018, 25, 833-847.	2.4	6

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19	4D imaging of polymer electrolyte membrane fuel cell catalyst layers by soft X-ray spectro-tomography. Journal of Power Sources, 2018, 381, 72-83.	7.8	48
20	X-ray Absorption and Solid-State NMR Spectroscopy of Fluorinated Proton Conducting Polymers. Journal of Physical Chemistry C, 2018, 122, 3233-3244.	3.1	18
21	Importance of the RpoE Regulon in Maintaining the Lipid Bilayer during Antimicrobial Treatment with the Polycationic Agent, Chlorhexidine. Proteomics, 2018, 18, 1700285.	2.2	10
22	X-ray Absorption Spectroscopy and Magnetism of Synthetic Greigite and Greigite Magnetosomes in Magnetotactic Bacteria. Geomicrobiology Journal, 2018, 35, 215-226.	2.0	6
23	How do Magnetotactic Bacteria Synthesize Magnetite? - a Soft X-ray Spectroscopy, Spectromicroscopy and Magnetism Time Course Study. Microscopy and Microanalysis, 2018, 24, 378-379.	0.4	1
24	Correlative Spectromicroscopy and Tomography Involving Soft X-ray Methods. Microscopy and Microanalysis, 2018, 24, 364-365.	0.4	0
25	Four-Dimensional Imaging of ZnO-Coated Alumina Aerogels by Scanning Transmission X-ray Microscopy and Ptychographic Tomography. Journal of Physical Chemistry C, 2018, 122, 25374-25385.	3.1	13
26	Cryo scanning transmission x-ray microscope optimized for spectrotomography. Review of Scientific Instruments, 2018, 89, 093704.	1.3	17
27	Optimizing Soft X-ray Spectromicroscopy for Fuel Cell Studies: X-ray Damage of Ionomer.. Microscopy and Microanalysis, 2018, 24, 460-461.	0.4	4
28	Biomineralization at Titanium Revealed by Correlative 4D Tomographic and Spectroscopic Methods. Advanced Materials Interfaces, 2018, 5, 1800262.	3.7	13
29	Effect of UV radiation damage in air on polymer film thickness, studied by soft X-ray spectromicroscopy. Physical Chemistry Chemical Physics, 2018, 20, 16625-16640.	2.8	8
30	High-Resolution Imaging of Polymer Electrolyte Membrane Fuel Cell Cathode Layers by Soft X-ray Spectro-Ptychography. Journal of Physical Chemistry C, 2018, 122, 11709-11719.	3.1	35
31	Instrumentation for in situ flow electrochemical Scanning Transmission X-ray Microscopy (STXM). Review of Scientific Instruments, 2018, 89, 063702.	1.3	19
32	Influence of Local Environment on Inner Shell Excitation Spectra, Studied by Electron and X-ray Spectroscopy and Spectromicroscopy. Zeitschrift Fur Physikalische Chemie, 2018, 232, 723-745.	2.8	0
33	Membrane-Modulating Drugs can Affect the Size of Amyloid-Î²25â€“35 Aggregates in Anionic Membranes. Scientific Reports, 2018, 8, 12367.	3.3	8
34	Soft X-ray Spectrotomographic Microscopy at Cryogenic Temperatures. Microscopy and Microanalysis, 2018, 24, 260-261.	0.4	0
35	X-ray Absorption Spectroscopy and Spectromicroscopy of Supported Lipid Bilayers. Journal of Physical Chemistry B, 2017, 121, 4492-4501.	2.6	5
36	Optimization of Three-Dimensional (3D) Chemical Imaging by Soft X-Ray Spectro-Tomography Using a Compressed Sensing Algorithm. Microscopy and Microanalysis, 2017, 23, 951-966.	0.4	11

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37	Iron Biochemistry is Correlated with Amyloid Plaque Morphology in an Established Mouse Model of Alzheimer's Disease. Cell Chemical Biology, 2017, 24, 1205-1215.e3.	5.2	128
38	Performance of the HERMES beamline at the carbon K-edge. Journal of Physics: Conference Series, 2017, 849, 012046.	0.4	13
39	Quantitative Mapping of Ionomer in Catalyst Layers by Electron and X-ray Spectromicroscopy. ECS Transactions, 2017, 80, 275-282.	0.5	20
40	4d Imaging of Polymer Electrolyte Membrane Fuel Cell Cathodes by Scanning X-Ray Microscopy. Microscopy and Microanalysis, 2017, 23, 1784-1785.	0.4	1
41	Low background, UHV compatible scintillator detector for the CLS cryo scanning soft X-ray microscope. Journal of Physics: Conference Series, 2017, 849, 012045.	0.4	3
42	Advances in Structural Characterization Using Soft X-ray Scanning Transmission Microscopy (STXM): Mapping and Measuring Porosity in PEM-FC Catalyst Layers. ECS Transactions, 2017, 80, 241-252.	0.5	3
43	Progress in Soft X-ray Microscopy Characterization of PEM Fuel Cell Catalyst Layers. Microscopy and Microanalysis, 2016, 22, 1290-1291.	0.4	6
44	Electro-deposition of Cu studied with in situ electrochemical scanning transmission x-ray microscopy. AIP Conference Proceedings, 2016, , .	0.4	3
45	Spectromicroscopy of C60 and azafullerene C59N: Identifying surface adsorbed water. Scientific Reports, 2016, 6, 35605.	3.3	19
46	Characterizing automotive fuel cell materials by soft x-ray scanning transmission x-ray microscopy. AIP Conference Proceedings, 2016, , .	0.4	5
47	Magnetic studies of magnetotactic bacteria by soft x-ray STXM and ptychography. AIP Conference Proceedings, 2016, , .	0.4	4
48	Measuring spectroscopy and magnetism of extracted and intracellular magnetosomes using soft X-ray ptychography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8219-E8227.	7.1	75
49	Magnetic Field Landscapes Guiding the Chemisorption of Diamagnetic Molecules. Langmuir, 2016, 32, 10491-10496.	3.5	3
50	(Plenary) Doing More with Less: Challenges for Catalyst Layer Design. ECS Transactions, 2016, 75, 3-23.	0.5	7
51	Spatially resolved TiOx phases in switched RRAM devices using soft X-ray spectromicroscopy. Scientific Reports, 2016, 6, 21525.	3.3	27
52	Development of in-situ sample cells for scanning transmission x-ray microscopy. AIP Conference Proceedings, 2016, , .	0.4	4
53	Soft Xâ€ray spectromicroscopy for speciation, quantitation and nanoâ€ecoâ€toxicology of nanomaterials. Journal of Microscopy, 2016, 261, 130-147.	1.8	20
54	Radiation damage yields across the carbon 1s excitation edge. Journal of Electron Spectroscopy and Related Phenomena, 2016, 206, 58-64.	1.7	13

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55	Evaluating focused ion beam and ultramicrotome sample preparation for analytical microscopies of the cathode layer of a polymer electrolyte membrane fuel cell. Journal of Power Sources, 2016, 312, 23-35.	7.8	22
56	Effects of fullerene (C60), multi-wall carbon nanotubes (MWCNT), single wall carbon nanotubes (SWCNT) and hydroxyl and carboxyl modified single wall carbon nanotubes on riverine microbial communities. Environmental Science and Pollution Research, 2016, 23, 10090-10102.	5.3	38
57	Complex organic corona formation on carbon nanotubes reduces microbial toxicity by suppressing reactive oxygen species production. Environmental Science: Nano, 2016, 3, 181-189.	4.3	35
58	Quantification of the critical dose for radiation damage to perfluorosulfonic acid membranes using soft X-ray microscopy. Microscopy and Microanalysis, 2015, 21, 2443-2444.	0.4	5
59	Introduction of Soft X-Ray Spectromicroscopy as an Advanced Technique for Plant Biopolymers Research. PLoS ONE, 2015, 10, e0122959.	2.5	62
60	Inner-shell excitation spectroscopy of peroxides. Chemical Physics, 2015, 461, 117-124.	1.9	6
61	What is the correct Fe L23 X-ray absorption spectrum of magnetite?. Journal of Electron Spectroscopy and Related Phenomena, 2015, 199, 19-26.	1.7	15
62	Soft X-ray spectromicroscopy and ptychography. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 49-63.	1.7	90
63	Individual Titanate Nanoribbons Studied by 3D-Resolved Polarization Dependent X-ray Absorption Spectra Measured with Scanning Transmission X-ray Microscopy. Journal of Physical Chemistry C, 2015, 119, 24192-24200.	3.1	10
64	Spectromicroscopy and coherent diffraction imaging: focus on energy materials applications. Journal of Synchrotron Radiation, 2014, 21, 1019-1030.	2.4	27
65	Synchrotron-Based Chemical Nano-Tomography of Microbial Cell-Mineral Aggregates in their Natural, Hydrated State. Microscopy and Microanalysis, 2014, 20, 531-536.	0.4	21
66	Double Cation Formation from the Photo-Fragmentation of the closo-Carboranes. Zeitschrift Fur Physikalische Chemie, 2014, 228, 421-436.	2.8	5
67	In situ Methods for Analysis of Polymer Electrolyte Membrane Fuel Cell Materials by Soft X-ray Scanning Transmission X-ray Microscopy. Microscopy and Microanalysis, 2014, 20, 1532-1533.	0.4	3
68	Carbon corrosion of proton exchange membrane fuel cell catalyst layers studied by scanning transmission X-ray microscopy. Journal of Power Sources, 2014, 266, 66-78.	7.8	72
69	Scanning transmission X-ray microscopy of nano structured thin filmÂcatalysts for proton-exchange-membrane fuel cells. Journal of Power Sources, 2014, 263, 163-174.	7.8	32
70	Microscopic and Spectroscopic Analyses of Chlorhexidine Tolerance in Delftia acidovorans Biofilms. Antimicrobial Agents and Chemotherapy, 2014, 58, 5673-5686.	3.2	20
71	Characterization of Polymer Monoliths Containing Embedded Nanoparticles by Scanning Transmission X-ray Microscopy (STXM). Analytical Chemistry, 2014, 86, 2876-2881.	6.5	17
72	Nickel partitioning in biogenic and abiogenic ferrihydrite: The influence of silica and implications for ancient environments. Geochimica Et Cosmochimica Acta, 2014, 140, 65-79.	3.9	56

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73	Effects of Sample Preparation Technique on Quantitative Analysis of Automotive Fuel Cell Catalyst Layers. Microscopy and Microanalysis, 2014, 20, 472-473.	0.4	3
74	Electrochemical Reaction of Aqueous Iron Sulfate Solutions Studied by Fe L-Edge Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 16343-16348.	3.1	54
75	Fabrication of sealed nanofluidic channels using site-selective direct write (maskless) X-ray lithography. Microfluidics and Nanofluidics, 2013, 15, 509-518.	2.2	2
76	Sub-25nm direct write (maskless) X-ray nanolithography. Microelectronic Engineering, 2013, 108, 5-7.	2.4	16
77	STXM Characterization of Nanostructured Thin Film Anode Before and After Start-Up Shutdown and Reversal Tests. ECS Transactions, 2013, 58, 473-479.	0.5	8
78	3D Chemical Mapping of PEM Fuel Cell Cathodes by Scanning Transmission Soft X-ray SpectroTomography. ECS Transactions, 2013, 50, 361-368.	0.5	37
79	STXM Characterization of PEM Fuel Cell Catalyst Layers. ECS Transactions, 2013, 50, 405-413.	0.5	24
80	Anomalous Magnetic Orientations of Magnetosome Chains in a Magnetotactic Bacterium: Magnetovibrio blakemorei Strain MV-1. PLoS ONE, 2013, 8, e53368.	2.5	23
81	Zone plate focused soft x-ray lithography for fabrication of nanofluidic devices. , 2012, , .		2
82	Secondary electron deposition mechanism of carbon contamination. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, .	1.2	19
83	Using X-PEEM to study biomaterials: Protein and peptide adsorption to a polystyreneâ€“poly(methyl) Tj ETQq1 1 0.784314 rgBT /Ove 2012, 185, 406-416.	1.7	10
84	Soft X-ray Spectromicroscopy of Protein Interactions with Phase-Segregated Polymer Surfaces. ACS Symposium Series, 2012, , 731-760.	0.5	0
85	Metallic and Semiconducting Single-Walled Carbon Nanotubes: Differentiating Individual SWCNTs by Their Carbon 1s Spectra. ACS Nano, 2012, 6, 10965-10972.	14.6	17
86	Monitoring the fate of copper nanoparticles in river biofilms using scanning transmission X-ray microscopy (STXM). Chemical Geology, 2012, 329, 18-25.	3.3	37
87	Characterisation of the dissimilatory reduction of Fe(III)â€oxyhydroxide at the microbe â€“ mineral interface: the application of STXMâ€“XMCD. Geobiology, 2012, 10, 347-354.	2.4	39
88	Examining the chemistry and magnetism of magnetotactic bacterium Candidatus Magnetovibrio blakemorei strain MV-1 using scanning transmission X-ray microscopy. Chemical Geology, 2012, 300-301, 14-23.	3.3	15
89	Experimental investigation of beam heating in a soft X-ray scanning transmission X-ray microscope. Analyst, The, 2012, 137, 370-375.	3.5	21
90	Accurate dosimetry in scanning transmission X-ray microscopesviathe cross-linking threshold dose of poly(methyl methacrylate). Journal of Synchrotron Radiation, 2012, 19, 976-987.	2.4	28

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91	Advances in the Detection of As in Environmental Samples Using Low Energy X-ray Fluorescence in a Scanning Transmission X-ray Microscope: Arsenic Immobilization by an Fe(II)-Oxidizing Freshwater Bacteria. Environmental Science & Technology, 2012, 46, 2821-2829.	10.0	60
92	Probing platinum degradation in polymer electrolyte membrane fuel cells by synchrotron X-ray microscopy. Physical Chemistry Chemical Physics, 2012, 14, 4835.	2.8	26
93	Mapping defects in a carbon nanotube by momentum transfer dependent electron energy loss spectromicroscopy. Ultramicroscopy, 2012, 113, 158-164.	1.9	17
94	Interfacial Interactions in Polypropyleneâ"Organoclayâ"Elastomer Nanocomposites: Influence of Polar Modifications on the Location of the Clay. Macromolecules, 2011, 44, 2179-2189.	4.8	30
95	Investigating the effects of L- to D-amino acid substitution and deamidation on the activity and membrane interactions of antimicrobial peptide anoplin. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1592-1600.	2.6	32
96	Measurement of the point spread function of a soft x-ray microscope by single pixel exposure of photoresists. Proceedings of SPIE, 2011, , .	0.8	8
97	Zone plate focused soft X-ray lithography. Applied Physics A: Materials Science and Processing, 2011, 103, 1-11.	2.3	22
98	Imaging interactions of cationic antimicrobial peptides with model lipid monolayers using X-ray spectromicroscopy. European Biophysics Journal, 2011, 40, 805-810.	2.2	13
99	Investigating the effect of a single glycine to alanine substitution on interactions of antimicrobial peptide latarcinÂ2a with a lipid membrane. European Biophysics Journal, 2011, 40, 1087-1100.	2.2	34
100	Polyurea microcapsules: Surface modification and capsule size control. Journal of Polymer Science Part A, 2011, 49, 3038-3047.	2.3	25
101	Effect of humidity on individual SnO2 coated carbon nanotubes studied by in situ STXM. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 296-300.	1.7	10
102	Understanding energy loss in large-angle scattering of keV electrons from Ar and Ne. Physical Review A, 2011, 83, .	2.5	16
103	Nano to Micro Scale Characterization of Water Uptake in The Catalyst Coated Membrane Measured by Soft X-ray Scanning Transmission X-ray Microscopy. ECS Transactions, 2011, 41, 395-402.	0.5	14
104	STXM Study of the Ionomer Distribution in the PEM Fuel Cell Catalyst Layers. ECS Transactions, 2011, 41, 629-635.	0.5	42
105	Xâ€ray spectromicroscopy study of ubiquitin adsorption to plasma polymerized microstructures. Surface and Interface Analysis, 2010, 42, 830-834.	1.8	2
106	Advanced imaging techniques for assessment of structure, composition and function in biofilm systems. FEMS Microbiology Ecology, 2010, 72, 1-21.	2.7	187
107	Characterization of Biomaterials by Soft X-Ray Spectromicroscopy. Materials, 2010, 3, 3911-3938.	2.9	37
108	Comparative Study of the Valence Electronic Excitations of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>by Inelastic X-Ray and Electron Scattering. Physical Review Letters, 2010, 105, 053202.	7.8	39

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109	Measuring Point Defect Density in Individual Carbon Nanotubes Using Polarization-Dependent X-ray Microscopy. ACS Nano, 2010, 4, 4431-4436.	14.6	36
110	An X-ray Spectromicroscopy Study of Protein Adsorption to Polystyreneâ˜Poly(ethylene oxide) Blends. Langmuir, 2010, 26, 14759-14765.	3.5	19
111	Characterization of Single-Walled Carbon Nanotubes by Scanning Transmission X-ray Spectromicroscopy: Purification, Order and Dodecyl Functionalization. Journal of the American Chemical Society, 2010, 132, 9020-9029.	13.7	30
112	Characterizing magnetism of individual magnetosomes by X-ray magnetic circular dichroism in a scanning transmission X-ray microscope. Chemical Geology, 2010, 270, 110-116.	3.3	67
113	Morphological and biochemical changes inPseudomonas fluorescensbiofilms induced by sub-inhibitory exposure to antimicrobial agents. Canadian Journal of Microbiology, 2009, 55, 163-178.	1.7	47
114	Scanning transmission X-ray microscopy of multi-walled carbon nanotubes. Journal of Physics: Conference Series, 2009, 186, 012106.	0.4	2
115	Electron Compton-like quasielastic scattering from H2, D2, and HD. Journal of Chemical Physics, 2009, 130, 144303.	3.0	13
116	Mapping molecular orientation in dry and wetNephila clavipesdragline spider silk. Journal of Physics: Conference Series, 2009, 186, 012089.	0.4	7
117	Advances in structural and chemical analysis of catalystcoated membranes for hydrogen fuel cell applications. Membrane Technology, 2009, 2009, 6-12.	0.1	7
118	Fission processes following core level excitation in closo â€1,2â€orthocarborane. Physica Status Solidi (B): Basic Research, 2009, 246, 1496-1503.	1.5	4
119	Soft Xâ€ray spectromicroscopy of nickel sorption in a natural river biofilm. Geobiology, 2009, 7, 432-453.	2.4	82
120	Soft Xâ€ray spectroâ€tomography study of cyanobacterial biomineral nucleation. Geobiology, 2009, 7, 577-591.	2.4	49
121	Optimization of analysis of soft X-ray spectromicroscopy at the Ca 2p edge. Journal of Electron Spectroscopy and Related Phenomena, 2009, 173, 44-49.	1.7	38
122	X-ray Spectromicroscopy Study of Protein Adsorption to a Polystyreneâ˜Polylactide Blend. Biomacromolecules, 2009, 10, 1838-1845.	5.4	32
123	Imaging Hydrated Albumin on a Polystyreneâ˜Poly(methyl methacrylate) Blend Surface with X-ray Spectromicroscopy. Langmuir, 2009, 25, 13332-13335.	3.5	17
124	Microbial Architecture of Environmental Sulfur Processes: A Novel Syntrophic Sulfur-Metabolizing Consortia. Environmental Science & Technology, 2009, 43, 8781-8786.	10.0	32
125	A New Approach to Studying Microcapsule Wall Growth Mechanisms. Macromolecules, 2009, 42, 2428-2432.	4.8	32
126	Quantitative Evaluation of Radiation Damage to Polyethylene Terephthalate by Soft X-rays and High-energy Electrons. Journal of Physical Chemistry B, 2009, 113, 1869-1876.	2.6	66

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127	Phase Segregation in Polystyreneâ"Polylactide Blends. Macromolecules, 2009, 42, 1679-1684.	4.8	43
128	3-d chemical imaging with STXM tomography. Journal of Physics: Conference Series, 2009, 186, 012045.	0.4	5
129	3-d chemical imaging using angle-scan nanotomography in a soft X-ray scanning transmission X-ray microscope. Applied Physics A: Materials Science and Processing, 2008, 92, 447-452.	2.3	25
130	Polarization Dependence of the C 1s Xâ€ray Absorption Spectra of Individual Multiâ€Walled Carbon Nanotubes. Small, 2008, 4, 2279-2285.	10.0	46
131	NEXAFS microscopy and resonant scattering: Composition and orientation probed in real and reciprocal space. Polymer, 2008, 49, 643-675.	3.8	261
132	Comparison of NEXAFS microscopy and TEM-EELS for studies of soft matter. Micron, 2008, 39, 311-319.	2.2	86
133	Comparison of NEXAFS microscopy and TEM-EELS for studies of soft matter. Micron, 2008, 39, 741-748.	2.2	58
134	X-ray spectromicroscopy study of competitive adsorption of protein and peptide onto polystyrene-poly(methyl methacrylate). Biointerphases, 2008, 3, FB27-FB35.	1.6	14
135	Mapping the Speciation of Iron in Pseudomonas aeruginosa Biofilms Using Scanning Transmission X-ray Microscopy. Environmental Science & Technology, 2008, 42, 8766-8772.	10.0	43
136	X-ray Microscopy Studies of Protein Adsorption on a Phase Segregated Polystyrene/Polymethylmethacrylate Surface. 2. Effect of pH on Site Preference. Journal of Physical Chemistry B, 2008, 112, 2150-2158.	2.6	32
137	Anomalous Quasielastic Electron Scattering from SingleH2,D2, and HD Molecules at Large Momentum Transfer: Indications of Nuclear Spin Effects. Physical Review Letters, 2008, 100, 043204.	7.8	37
138	Quantitative chemistry and orientation of polymers in 2-d and 3-d by scanning transmission X-ray microscopy. , 2008, , 753-754.		0
139	Quasielastic electron scattering from methane, methane-d4, methane-d2, ethylene, and 2-methylpropane. Journal of Chemical Physics, 2007, 127, 084315.	3.0	13
140	In situ azimuthal rotation device for linear dichroism measurements in scanning transmission x-ray microscopy. Review of Scientific Instruments, 2007, 78, 033703.	1.3	15
141	NephilaclavipesSpider Dragline Silk Microstructure Studied by Scanning Transmission X-ray Microscopy. Journal of the American Chemical Society, 2007, 129, 3897-3905.	13.7	70
142	Individual Multiwall Carbon Nanotubes Spectroscopy by Scanning Transmission X-ray Microscopy. Nano Letters, 2007, 7, 2435-2440.	9.1	51
143	Using Intrinsic X-ray Absorption Spectral Differences To Identify and Map Peptides and Proteins. Journal of Physical Chemistry B, 2007, 111, 7691-7699.	2.6	83
144	Chemically Selective Soft X-ray Direct-Write Patterning of Multilayer Polymer Films. Journal of Physical Chemistry C, 2007, 111, 16330-16338.	3.1	18

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145	Electron Compton scattering from methane and methane-d4. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 28-34.	1.7	19
146	Design and performance of an (e, e+ion) spectrometer for studies of fragmentation of dipole and non-dipole states of gaseous molecules. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 86-91.	1.7	3
147	Chemically selective soft X-ray patterning of polymers. Journal of Synchrotron Radiation, 2007, 14, 181-190.	2.4	25
148	Three-dimensional chemical mapping by scanning transmission X-ray spectromicroscopy. Journal of Synchrotron Radiation, 2007, 14, 395-402.	2.4	77
149	Inner-shell excitation of gas phase carbonates and Î±,Î³-dicarbonyl compounds. Chemical Physics, 2007, 331, 289-303.	1.9	28
150	Speciation and Quantitative Mapping of Metal Species in Microbial Biofilms Using Scanning Transmission X-ray Microscopy. Environmental Science & Technology, 2006, 40, 1556-1565.	10.0	132
151	Quantitative Mapping of the Orientation of Fibroin Î²-Sheets inB.moriCocoon Fibers by Scanning Transmission X-ray Microscopy. Biomacromolecules, 2006, 7, 836-843.	5.4	54
152	X-ray Microscopy Studies of Protein Adsorption on a Phase-Segregated Polystyrene/Polymethyl Methacrylate Surface. 1. Concentration and Exposure-Time Dependence for Albumin Adsorption. Journal of Physical Chemistry B, 2006, 110, 16763-16773.	2.6	48
153	Chemically sensitive 3D imaging at sub 100 nm spatial resolution using tomography in a scanning transmission x-ray microscope. , 2006, , .		5
154	Ionic fragmentation of C 1s excited and ionized formic acid. Chemical Physics, 2006, 326, 589-599.	1.9	3
155	Chemical component mapping of pulverized toner by scanning transmission X-ray microscopy. Micron, 2006, 37, 290-295.	2.2	16
156	Quantitative mapping of chlorhexidine in natural river biofilms. Science of the Total Environment, 2006, 369, 369-383.	8.0	74
157	Scanning transmission x-ray microscopy of isolated multiwall carbon nanotubes. Applied Physics Letters, 2006, 89, 093123.	3.3	34
158	Chemical Mapping of Polymer Microstructure Using Soft X-ray Spectromicroscopy. Australian Journal of Chemistry, 2005, 58, 423.	0.9	28
159	Soft X-ray spectromicroscopy of biological and synthetic polymer systems. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 259-269.	1.7	74
160	Quantitative chemical mapping of sodium acrylate- and N-vinylpyrrolidone-enhanced alginate microcapsules. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 611-627.	3.5	15
161	Inner-Shell Excitation Spectroscopy and X-ray Photoemission Electron Microscopy of Adhesion Promoters. Journal of Physical Chemistry B, 2005, 109, 6343-6354.	2.6	7
162	Inner Shell Excitation Spectroscopy of Biphenyl and Substituted Biphenyls:Â Probing Ringâ^'Ring Delocalization. Journal of Physical Chemistry A, 2005, 109, 10886-10896.	2.5	39

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163	In Situ Spatial and Time-Resolved Studies of Electrochemical Reactions by Scanning Transmission X-ray Microscopy. Analytical Chemistry, 2005, 77, 3479-3487.	6.5	66
164	Quantitative Chemical Mapping of Nanostructured â€œOnionlikeâ€•Poly(methyl methacrylate)/Polystyrene Composite Particles by Soft X-ray Microscopy. Macromolecules, 2005, 38, 542-551.	4.8	29
165	Composite Tectocapsules Containing Porous Polymer Microspheres as Release Gates. Macromolecules, 2005, 38, 2903-2910.	4.8	53
166	Principles of optical design of the SM beamline at the CLS. AIP Conference Proceedings, 2004, , .	0.4	5
167	Inner shell excitation of glycine, glycyl-glycine, alanine and phenylalanine. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 795-799.	1.7	76
168	Quantitative oscillator strengths for ionic fragmentation of C 1s and O 1s excited CO. Canadian Journal of Chemistry, 2004, 82, 1052-1060.	1.1	7
169	Scanning Transmission X-Ray, Laser Scanning, and Transmission Electron Microscopy Mapping of the Exopolymeric Matrix of Microbial Biofilms. Applied and Environmental Microbiology, 2003, 69, 5543-5554.	3.1	331
170	Interferometer-controlled scanning transmission X-ray microscopes at the Advanced Light Source. Journal of Synchrotron Radiation, 2003, 10, 125-136.	2.4	625
171	Inner-Shell Excitation Spectroscopy of the Peptide Bond:â€‰ Comparison of the C 1s, N 1s, and O 1s Spectra of Glycine, Glycyl-Glycine, and Glycyl-Glycyl-Glycine. Journal of Physical Chemistry A, 2003, 107, 6144-6159.	2.5	162
172	3d chemical mapping of toners by serial section scanning transmission X-ray microscopy. European Physical Journal Special Topics, 2003, 104, 509-512.	0.2	33
173	SOFT X-RAY MICROSCOPY OF SOFT MATTER â€” HARD INFORMATION FROM TWO SOFTS. Surface Review and Letters, 2002, 09, 193-201.	1.1	17
174	Towards practical soft X-ray spectromicroscopy of biomaterials. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 919-937.	3.5	67
175	Identification and Quantitation of Urea Precipitates in Flexible Polyurethane Foam Formulations by X-ray Spectromicroscopy. Macromolecules, 2002, 35, 5873-5882.	4.8	69
176	PHOTOIONIZATION DYNAMICS FROM INNER SHELL MASS SPECTROMETRY. Advanced Series in Physical Chemistry, 2002, , 154-227.	1.5	4
177	Quantitative Mapping of Structured Polymeric Systems Using Singular Value Decomposition Analysis of Soft X-ray Images. Journal of Physical Chemistry B, 2002, 106, 5358-5364.	2.6	146
178	Innershell Absorption Spectroscopy of Amino Acids. Journal of Physical Chemistry A, 2002, 106, 3153-3168.	2.5	209
179	Quantitative Characterization of Microscopic Variations in the Cross-Link Density of Gels. Macromolecules, 2002, 35, 1336-1341.	4.8	44
180	Variable linear polarization from an X-ray undulator. Journal of Synchrotron Radiation, 2002, 9, 270-274.	2.4	32

#	Article	IF	Citations
181	Generalized oscillator strengths for C 1s excitation of acetylene and ethylene. Journal of Electron Spectroscopy and Related Phenomena, 2002, 123, 303-314.	1.7	17
182	Optimization of scanning transmission X-ray microscopy for the identification and quantitation of reinforcing particles in polyurethanes. Ultramicroscopy, 2001, 88, 33-49.	1.9	31
183	Soft X-ray spectromicroscopy of polymers and biopolymer interfaces. Journal of Synchrotron Radiation, 2001, 8, 66-71.	2.4	48
184	A new sample preparation method for biological soft X-ray microscopy: nitrogen-based contrast and radiation tolerance properties of glycol methacrylate-embedded and sectioned tissue. Journal of Microscopy, 2001, 204, 69-86.	1.8	17
185	Quantitative Compositional Mapping of Coreâ˜Shell Polymer Microspheres by Soft X-ray Spectromicroscopy. Macromolecules, 2001, 34, 4424-4429.	4.8	46
186	Dynamic Stabilization in1Ïƒuâ†'1Ï€gExcited Nitrogen Clusters. Physical Review Letters, 2001, 86, 3767-3770.	7.8	42
187	Inner shell excitation spectroscopy of molecules using inelastic electron scattering. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 9-29.	1.7	42
188	Experimental and theoretical study of generalized oscillator strengths for C1sand O1sexcitations inCO2. Physical Review A, 2000, 61, .	2.5	30
189	Inner shell excitation spectroscopy of transient molecules: HBS, HBO, and H3B3O3. Journal of Chemical Physics, 1999, 111, 3468-3478.	3.0	10
190	NEXAFS spectromicroscopy of polymers: overview and quantitative analysis of polyurethane polymers. Journal of Electron Spectroscopy and Related Phenomena, 1999, 100, 119-135.	1.7	101
191	P 1s spectroscopy of SPF3: spectral assignments aided by angle-resolved photodissociation. Chemical Physics Letters, 1999, 300, 451-459.	2.6	3
192	Near-Edge X-ray Absorption Fine Structure Spectroscopy of MDI and TDI Polyurethane Polymers. Journal of Physical Chemistry B, 1999, 103, 4603-4610.	2.6	50
193	Core Excitation Spectroscopy of Stable Cyclic Diaminocarbenes, -silylenes, and -germylenes. Organometallics, 1999, 18, 1862-1872.	2.3	66
194	A scanning transmission x-ray microscope for materials science spectromicroscopy at the advanced light source. Review of Scientific Instruments, 1998, 69, 2964-2973.	1.3	96
195	Spectromicroscopy of Poly(ethylene terephthalate):â€‰ Comparison of Spectra and Radiation Damage Rates in X-ray Absorption and Electron Energy Loss. Journal of Physical Chemistry B, 1997, 101, 1950-1960.	2.6	187
196	Inner-Shell Excitation Spectroscopy of Polymer and Monomer Isomers of Dimethyl Phthalate. Journal of Physical Chemistry B, 1997, 101, 2267-2276.	2.6	65
197	Early Stages of Copper Electrocrystallization:â€‰ Electrochemical and in Situ X-ray Absorption Fine Structure Studies of Coadsorption of Copper and Chloride at the Au(111) Electrode Surface. Journal of Physical Chemistry B, 1997, 101, 10310-10322.	2.6	42
198	Core Excitation Spectroscopy of Phenyl- and Methyl-Substituted Silanol, Disiloxane, and Disilane Compounds:Â Evidence for Ï€-Delocalization across the Siâ˜CphenylBond. Organometallics, 1997, 16, 2080-2088.	2.3	22

#	Article	IF	Citations
199	Soft X-ray spectromicroscopy development for materials science at the Advanced Light Source. Journal of Electron Spectroscopy and Related Phenomena, 1997, 84, 85-98.	1.7	45
200	Analysis of polyurethanes using core excitation spectroscopy. Part I: Model polyurethane foam polymers. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1593-1602.	2.1	21
201	Analysis of polyurethanes using core excitation spectroscopy. Part II: Inner shell spectra of ether, urea and carbamate model compounds. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1603-1620.	2.1	60
202	Experimental and theoretical studies of the (Câ€‰1sâ^'1,Ï€*)3Î state of CO: Momentum transfer dependence and vibrational structure. Journal of Chemical Physics, 1994, 101, 10429-10435.	3.0	29
203	Ar 2p spectroscopy of free argon clusters. Journal of Chemical Physics, 1993, 98, 2653-2663.	3.0	72
204	Kâ€shell spectroscopy of Ar clusters. Journal of Chemical Physics, 1993, 98, 6820-6826.	3.0	38
205	Inner-shell spectroscopy of benzaldehyde, terephthalaldehyde, ethylbenzoate, terephthaloyl chloride and phosgene: models for core excitation of poly(ethylene terephthalate). The Journal of Physical Chemistry, 1992, 96, 8736-8750.	2.9	101
206	Inner-shell spectroscopy of p-benzoquinone, hydroquinone, and phenol: distinguishing quinoid and benzenoid structures. The Journal of Physical Chemistry, 1992, 96, 6598-6610.	2.9	177
207	Towards a Canadian synchrotron light source. Synchrotron Radiation News, 1991, 4, 4-4.	0.8	0
208	Inner-shell excitation of gas-phase and polymer thin-film 3-alkylthiophenes by electron energy loss and x-ray photoabsorption spectroscopy. The Journal of Physical Chemistry, 1990, 94, 2327-2333.	2.9	22
209	Core Excitation and Ionization of Molecules. Physica Scripta, 1990, T31, 159-170.	2.5	81
210	The Ïƒ* molecular orbitals of perfluoroalkanes as studied by inner-shell electron energy loss and electron transmission spectroscopies. Canadian Journal of Chemistry, 1988, 66, 2104-2121.	1.1	62
211	Innerâ€shell excitations in weakâ€bond molecules. Journal of Chemical Physics, 1987, 87, 4344-4360.	3.0	68
212	Absolute oscillator strengths fromK-shell electron-energy-loss spectra of the fluoroethenes and 1,3-perfluorobutadiene. Physical Review A, 1987, 36, 1683-1701.	2.5	139
213	A quantitative experimental study of the core excited electronic states of formamide, formic acid, and formyl fluoride. Journal of Chemical Physics, 1987, 87, 830-839.	3.0	92
214	Resonances in the K shell excitation spectra of benzene and pyridine: Gas phase, solid, and chemisorbed states. Journal of Chemical Physics, 1985, 83, 6099-6107.	3.0	361
215	Determination of intramolecular bond lengths in gas phase molecules from K shell shape resonances. Journal of Chemical Physics, 1984, 81, 4906-4914.	3.0	320
216	Recent Advances in Inner-Shell Excitation of Free Molecules by Electron Energy Loss Spectroscopy. , 1982, , .		16

#	Article	IF	Citations
217	Ionic fragmentation of SF6ionised in the sulphur 2p shell. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, 3245-3261.	1.6	64