

# Adam P Hitchcock

## List of Publications by Year in descending order

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217  
papers

9,139  
citations

41258

49  
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51492

86  
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227  
all docs

227  
docs citations

227  
times ranked

7934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interferometer-controlled scanning transmission X-ray microscopes at the Advanced Light Source. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 125-136.	1.0	625
2	Resonances in the K shell excitation spectra of benzene and pyridine: Gas phase, solid, and chemisorbed states. <i>Journal of Chemical Physics</i> , 1985, 83, 6099-6107.	1.2	361
3	Scanning Transmission X-Ray, Laser Scanning, and Transmission Electron Microscopy Mapping of the Exopolymeric Matrix of Microbial Biofilms. <i>Applied and Environmental Microbiology</i> , 2003, 69, 5543-5554.	1.4	331
4	Determination of intramolecular bond lengths in gas phase molecules from K shell shape resonances. <i>Journal of Chemical Physics</i> , 1984, 81, 4906-4914.	1.2	320
5	NEXAFS microscopy and resonant scattering: Composition and orientation probed in real and reciprocal space. <i>Polymer</i> , 2008, 49, 643-675.	1.8	261
6	Innershell Absorption Spectroscopy of Amino Acids. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3153-3168.	1.1	209
7	Spectromicroscopy of Poly(ethylene terephthalate): Comparison of Spectra and Radiation Damage Rates in X-ray Absorption and Electron Energy Loss. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1950-1960.	1.2	187
8	Advanced imaging techniques for assessment of structure, composition and function in biofilm systems. <i>FEMS Microbiology Ecology</i> , 2010, 72, 1-21.	1.3	187
9	Inner-shell spectroscopy of p-benzoquinone, hydroquinone, and phenol: distinguishing quinoid and benzenoid structures. <i>The Journal of Physical Chemistry</i> , 1992, 96, 6598-6610.	2.9	177
10	Inner-Shell Excitation Spectroscopy of the Peptide Bond: Comparison of the C 1s, N 1s, and O 1s Spectra of Glycine, Glycyl-Glycine, and Glycyl-Glycyl-Glycine. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6144-6159.	1.1	162
11	Quantitative Mapping of Structured Polymeric Systems Using Singular Value Decomposition Analysis of Soft X-ray Images. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5358-5364.	1.2	146
12	Absolute oscillator strengths from K-shell electron-energy-loss spectra of the fluoroethenes and 1,3-perfluorobutadiene. <i>Physical Review A</i> , 1987, 36, 1683-1701.	1.0	139
13	Speciation and Quantitative Mapping of Metal Species in Microbial Biofilms Using Scanning Transmission X-ray Microscopy. <i>Environmental Science &amp; Technology</i> , 2006, 40, 1556-1565.	4.6	132
14	Iron Biochemistry is Correlated with Amyloid Plaque Morphology in an Established Mouse Model of Alzheimer's Disease. <i>Cell Chemical Biology</i> , 2017, 24, 1205-1215.e3.	2.5	128
15	Inner-shell spectroscopy of benzaldehyde, terephthalaldehyde, ethylbenzoate, terephthaloyl chloride and phosgene: models for core excitation of poly(ethylene terephthalate). <i>The Journal of Physical Chemistry</i> , 1992, 96, 8736-8750.	2.9	101
16	NEXAFS spectromicroscopy of polymers: overview and quantitative analysis of polyurethane polymers. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 100, 119-135.	0.8	101
17	A scanning transmission x-ray microscope for materials science spectromicroscopy at the advanced light source. <i>Review of Scientific Instruments</i> , 1998, 69, 2964-2973.	0.6	96
18	A quantitative experimental study of the core excited electronic states of formamide, formic acid, and formyl fluoride. <i>Journal of Chemical Physics</i> , 1987, 87, 830-839.	1.2	92

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19	Soft X-ray spectromicroscopy and ptychography. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 200, 49-63.	0.8	90
20	Comparison of NEXAFS microscopy and TEM-EELS for studies of soft matter. <i>Micron</i> , 2008, 39, 311-319.	1.1	86
21	Using Intrinsic X-ray Absorption Spectral Differences To Identify and Map Peptides and Proteins. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7691-7699.	1.2	83
22	Soft X-ray spectromicroscopy of nickel sorption in a natural river biofilm. <i>Geobiology</i> , 2009, 7, 432-453.	1.1	82
23	Core Excitation and Ionization of Molecules. <i>Physica Scripta</i> , 1990, T31, 159-170.	1.2	81
24	Three-dimensional chemical mapping by scanning transmission X-ray spectromicroscopy. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 395-402.	1.0	77
25	Inner shell excitation of glycine, glycyl-glycine, alanine and phenylalanine. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 137-140, 795-799.	0.8	76
26	Measuring spectroscopy and magnetism of extracted and intracellular magnetosomes using soft X-ray ptychography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8219-E8227.	3.3	75
27	Soft X-ray spectromicroscopy of biological and synthetic polymer systems. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 259-269.	0.8	74
28	Quantitative mapping of chlorhexidine in natural river biofilms. <i>Science of the Total Environment</i> , 2006, 369, 369-383.	3.9	74
29	Ar 2p spectroscopy of free argon clusters. <i>Journal of Chemical Physics</i> , 1993, 98, 2653-2663.	1.2	72
30	Carbon corrosion of proton exchange membrane fuel cell catalyst layers studied by scanning transmission X-ray microscopy. <i>Journal of Power Sources</i> , 2014, 266, 66-78.	4.0	72
31	Nephilaclavipes Spider Dragline Silk Microstructure Studied by Scanning Transmission X-ray Microscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 3897-3905.	6.6	70
32	Identification and Quantitation of Urea Precipitates in Flexible Polyurethane Foam Formulations by X-ray Spectromicroscopy. <i>Macromolecules</i> , 2002, 35, 5873-5882.	2.2	69
33	Inner-shell excitations in weak-bond molecules. <i>Journal of Chemical Physics</i> , 1987, 87, 4344-4360.	1.2	68
34	Towards practical soft X-ray spectromicroscopy of biomaterials. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002, 13, 919-937.	1.9	67
35	Characterizing magnetism of individual magnetosomes by X-ray magnetic circular dichroism in a scanning transmission X-ray microscope. <i>Chemical Geology</i> , 2010, 270, 110-116.	1.4	67
36	Core Excitation Spectroscopy of Stable Cyclic Diaminocarbenes, -silylenes, and -germylenes. <i>Organometallics</i> , 1999, 18, 1862-1872.	1.1	66

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37	In Situ Spatial and Time-Resolved Studies of Electrochemical Reactions by Scanning Transmission X-ray Microscopy. <i>Analytical Chemistry</i> , 2005, 77, 3479-3487.	3.2	66
38	Quantitative Evaluation of Radiation Damage to Polyethylene Terephthalate by Soft X-rays and High-energy Electrons. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1869-1876.	1.2	66
39	Inner-Shell Excitation Spectroscopy of Polymer and Monomer Isomers of Dimethyl Phthalate. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2267-2276.	1.2	65
40	Ionic fragmentation of SF <sub>6</sub> ionised in the sulphur 2p shell. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1978, 11, 3245-3261.	1.6	64
41	The $\tilde{\Gamma}_f^*$ molecular orbitals of perfluoroalkanes as studied by inner-shell electron energy loss and electron transmission spectroscopies. <i>Canadian Journal of Chemistry</i> , 1988, 66, 2104-2121.	0.6	62
42	Introduction of Soft X-Ray Spectromicroscopy as an Advanced Technique for Plant Biopolymers Research. <i>PLoS ONE</i> , 2015, 10, e0122959.	1.1	62
43	Analysis of polyurethanes using core excitation spectroscopy. Part II: Inner shell spectra of ether, urea and carbamate model compounds. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 1603-1620.	2.4	60
44	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. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2821-2829.	4.6	60
45	Comparison of NEXAFS microscopy and TEM-EELS for studies of soft matter. <i>Micron</i> , 2008, 39, 741-748.	1.1	58
46	Nickel partitioning in biogenic and abiogenic ferrihydrite: The influence of silica and implications for ancient environments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 65-79.	1.6	56
47	Quantitative Mapping of the Orientation of Fibroin $\beta$ -Sheets in Bombyx Mori Cocoon Fibers by Scanning Transmission X-ray Microscopy. <i>Biomacromolecules</i> , 2006, 7, 836-843.	2.6	54
48	Electrochemical Reaction of Aqueous Iron Sulfate Solutions Studied by Fe L-Edge Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16343-16348.	1.5	54
49	Composite Tectocapsules Containing Porous Polymer Microspheres as Release Gates. <i>Macromolecules</i> , 2005, 38, 2903-2910.	2.2	53
50	Individual Multiwall Carbon Nanotubes Spectroscopy by Scanning Transmission X-ray Microscopy. <i>Nano Letters</i> , 2007, 7, 2435-2440.	4.5	51
51	Near-Edge X-ray Absorption Fine Structure Spectroscopy of MDI and TDI Polyurethane Polymers. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4603-4610.	1.2	50
52	Soft X-ray spectro-tomography study of cyanobacterial biomineral nucleation. <i>Geobiology</i> , 2009, 7, 577-591.	1.1	49
53	Soft X-ray spectromicroscopy of polymers and biopolymer interfaces. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 66-71.	1.0	48
54	X-ray Microscopy Studies of Protein Adsorption on a Phase-Segregated Polystyrene/Polymethyl Methacrylate Surface. 1. Concentration and Exposure-Time Dependence for Albumin Adsorption. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16763-16773.	1.2	48

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55	4D imaging of polymer electrolyte membrane fuel cell catalyst layers by soft X-ray spectro-tomography. <i>Journal of Power Sources</i> , 2018, 381, 72-83.	4.0	48
56	Morphological and biochemical changes in <i>Pseudomonas fluorescens</i> biofilms induced by sub-inhibitory exposure to antimicrobial agents. <i>Canadian Journal of Microbiology</i> , 2009, 55, 163-178.	0.8	47
57	Quantitative Compositional Mapping of Core-Shell Polymer Microspheres by Soft X-ray Spectromicroscopy. <i>Macromolecules</i> , 2001, 34, 4424-4429.	2.2	46
58	Polarization Dependence of the C 1s X-ray Absorption Spectra of Individual Multi-Walled Carbon Nanotubes. <i>Small</i> , 2008, 4, 2279-2285.	5.2	46
59	Soft X-ray spectromicroscopy development for materials science at the Advanced Light Source. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1997, 84, 85-98.	0.8	45
60	Quantitative Characterization of Microscopic Variations in the Cross-Link Density of Gels. <i>Macromolecules</i> , 2002, 35, 1336-1341.	2.2	44
61	Mapping the Speciation of Iron in <i>Pseudomonas aeruginosa</i> Biofilms Using Scanning Transmission X-ray Microscopy. <i>Environmental Science &amp; Technology</i> , 2008, 42, 8766-8772.	4.6	43
62	Phase Segregation in Polystyrene-Polylactide Blends. <i>Macromolecules</i> , 2009, 42, 1679-1684.	2.2	43
63	Early Stages of Copper Electrocrystallization: Electrochemical and in Situ X-ray Absorption Fine Structure Studies of Coadsorption of Copper and Chloride at the Au(111) Electrode Surface. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10310-10322.	1.2	42
64	Inner shell excitation spectroscopy of molecules using inelastic electron scattering. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 112, 9-29.	0.8	42
65	Dynamic Stabilization in Excited Nitrogen Clusters. <i>Physical Review Letters</i> , 2001, 86, 3767-3770.	2.9	42
66	STXM Study of the Ionomer Distribution in the PEM Fuel Cell Catalyst Layers. <i>ECS Transactions</i> , 2011, 41, 629-635.	0.3	42
67	Inner Shell Excitation Spectroscopy of Biphenyl and Substituted Biphenyls: Probing Ring-Ring Delocalization. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10886-10896.	1.1	39
68	Comparative Study of the Valence Electronic Excitations of $N_2$ by Inelastic X-Ray and Electron Scattering. <i>Physical Review Letters</i> , 2010, 105, 053202.	2.9	39
69	Characterisation of the dissimilatory reduction of Fe(III)-oxyhydroxide at the microbe-mineral interface: the application of STXM-XMCD. <i>Geobiology</i> , 2012, 10, 347-354.	1.1	39
70	K-shell spectroscopy of Ar clusters. <i>Journal of Chemical Physics</i> , 1993, 98, 6820-6826.	1.2	38
71	Optimization of analysis of soft X-ray spectromicroscopy at the Ca 2p edge. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 173, 44-49.	0.8	38
72	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. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10090-10102.	2.7	38

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73	Anomalous Quasielastic Electron Scattering from Single H <sub>2</sub> , D <sub>2</sub> , and HD Molecules at Large Momentum Transfer: Indications of Nuclear Spin Effects. <i>Physical Review Letters</i> , 2008, 100, 043204.	2.9	37
74	Characterization of Biomaterials by Soft X-Ray Spectromicroscopy. <i>Materials</i> , 2010, 3, 3911-3938.	1.3	37
75	Monitoring the fate of copper nanoparticles in river biofilms using scanning transmission X-ray microscopy (STXM). <i>Chemical Geology</i> , 2012, 329, 18-25.	1.4	37
76	3D Chemical Mapping of PEM Fuel Cell Cathodes by Scanning Transmission Soft X-ray SpectroTomography. <i>ECS Transactions</i> , 2013, 50, 361-368.	0.3	37
77	Measuring Point Defect Density in Individual Carbon Nanotubes Using Polarization-Dependent X-ray Microscopy. <i>ACS Nano</i> , 2010, 4, 4431-4436.	7.3	36
78	Complex organic corona formation on carbon nanotubes reduces microbial toxicity by suppressing reactive oxygen species production. <i>Environmental Science: Nano</i> , 2016, 3, 181-189.	2.2	35
79	High-Resolution Imaging of Polymer Electrolyte Membrane Fuel Cell Cathode Layers by Soft X-ray Spectro-Ptychography. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11709-11719.	1.5	35
80	Scanning transmission x-ray microscopy of isolated multiwall carbon nanotubes. <i>Applied Physics Letters</i> , 2006, 89, 093123.	1.5	34
81	Investigating the effect of a single glycine to alanine substitution on interactions of antimicrobial peptide laticin A <sub>2</sub> with a lipid membrane. <i>European Biophysics Journal</i> , 2011, 40, 1087-1100.	1.2	34
82	3d chemical mapping of toners by serial section scanning transmission X-ray microscopy. <i>European Physical Journal Special Topics</i> , 2003, 104, 509-512.	0.2	33
83	Variable linear polarization from an X-ray undulator. <i>Journal of Synchrotron Radiation</i> , 2002, 9, 270-274.	1.0	32
84	X-ray Microscopy Studies of Protein Adsorption on a Phase Segregated Polystyrene/Polymethylmethacrylate Surface. 2. Effect of pH on Site Preference. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2150-2158.	1.2	32
85	X-ray Spectromicroscopy Study of Protein Adsorption to a Polystyrene~Polylactide Blend. <i>Biomacromolecules</i> , 2009, 10, 1838-1845.	2.6	32
86	Microbial Architecture of Environmental Sulfur Processes: A Novel Syntrophic Sulfur-Metabolizing Consortia. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8781-8786.	4.6	32
87	A New Approach to Studying Microcapsule Wall Growth Mechanisms. <i>Macromolecules</i> , 2009, 42, 2428-2432.	2.2	32
88	Investigating the effects of L- to D-amino acid substitution and deamidation on the activity and membrane interactions of antimicrobial peptide anoplín. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1592-1600.	1.4	32
89	Scanning transmission X-ray microscopy of nano structured thin film catalysts for proton-exchange-membrane fuel cells. <i>Journal of Power Sources</i> , 2014, 263, 163-174.	4.0	32
90	Optimization of scanning transmission X-ray microscopy for the identification and quantitation of reinforcing particles in polyurethanes. <i>Ultramicroscopy</i> , 2001, 88, 33-49.	0.8	31

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91	Experimental and theoretical study of generalized oscillator strengths for C1s and O1s excitations in CO <sub>2</sub> . <i>Physical Review A</i> , 2000, 61, .	1.0	30
92	Characterization of Single-Walled Carbon Nanotubes by Scanning Transmission X-ray Spectromicroscopy: Purification, Order and Dodecyl Functionalization. <i>Journal of the American Chemical Society</i> , 2010, 132, 9020-9029.	6.6	30
93	Interfacial Interactions in Polypropylene-Organoclay-Elastomer Nanocomposites: Influence of Polar Modifications on the Location of the Clay. <i>Macromolecules</i> , 2011, 44, 2179-2189.	2.2	30
94	Experimental and theoretical studies of the (C 1s) state of CO: Momentum transfer dependence and vibrational structure. <i>Journal of Chemical Physics</i> , 1994, 101, 10429-10435.	1.2	29
95	Quantitative Chemical Mapping of Nanostructured "Onionlike" Poly(methyl methacrylate)/Polystyrene Composite Particles by Soft X-ray Microscopy. <i>Macromolecules</i> , 2005, 38, 542-551.	2.2	29
96	Chemical Mapping of Polymer Microstructure Using Soft X-ray Spectromicroscopy. <i>Australian Journal of Chemistry</i> , 2005, 58, 423.	0.5	28
97	Inner-shell excitation of gas phase carbonates and $\hat{1},\hat{1}^3$ -dicarbonyl compounds. <i>Chemical Physics</i> , 2007, 331, 289-303.	0.9	28
98	Accurate dosimetry in scanning transmission X-ray microscopes via the cross-linking threshold dose of poly(methyl methacrylate). <i>Journal of Synchrotron Radiation</i> , 2012, 19, 976-987.	1.0	28
99	Spectromicroscopy and coherent diffraction imaging: focus on energy materials applications. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1019-1030.	1.0	27
100	Spatially resolved TiO <sub>x</sub> phases in switched RRAM devices using soft X-ray spectromicroscopy. <i>Scientific Reports</i> , 2016, 6, 21525.	1.6	27
101	Probing platinum degradation in polymer electrolyte membrane fuel cells by synchrotron X-ray microscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4835.	1.3	26
102	Chemically selective soft X-ray patterning of polymers. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 181-190.	1.0	25
103	3-d chemical imaging using angle-scan nanotomography in a soft X-ray scanning transmission X-ray microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 447-452.	1.1	25
104	Polyurea microcapsules: Surface modification and capsule size control. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3038-3047.	2.5	25
105	STXM Characterization of PEM Fuel Cell Catalyst Layers. <i>ECS Transactions</i> , 2013, 50, 405-413.	0.3	24
106	Anomalous Magnetic Orientations of Magnetosome Chains in a Magnetotactic Bacterium: <i>Magnetovibrio blakemorei</i> Strain MV-1. <i>PLoS ONE</i> , 2013, 8, e53368.	1.1	23
107	Inner-shell excitation of gas-phase and polymer thin-film 3-alkylthiophenes by electron energy loss and x-ray photoabsorption spectroscopy. <i>The Journal of Physical Chemistry</i> , 1990, 94, 2327-2333.	2.9	22
108	Core Excitation Spectroscopy of Phenyl- and Methyl-Substituted Silanol, Disiloxane, and Disilane Compounds: Evidence for $\pi$ -Delocalization across the Si-C phenyl Bond. <i>Organometallics</i> , 1997, 16, 2080-2088.	1.1	22



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109	Zone plate focused soft X-ray lithography. Applied Physics A: Materials Science and Processing, 2011, 103, 1-11.	1.1	22
110	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.	4.0	22
111	Magnetite magnetosome biomineralization in Magnetospirillum magneticum strain AMB-1: A time course study. Chemical Geology, 2019, 530, 119348.	1.4	22
112	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.	2.4	21
113	Experimental investigation of beam heating in a soft X-ray scanning transmission X-ray microscope. Analyst, The, 2012, 137, 370-375.	1.7	21
114	Synchrotron-Based Chemical Nano-Tomography of Microbial Cell-Mineral Aggregates in their Natural, Hydrated State. Microscopy and Microanalysis, 2014, 20, 531-536.	0.2	21
115	Magnetosome magnetite biomineralization in a flagellated protist: evidence for an early evolutionary origin for magnetoreception in eukaryotes. Environmental Microbiology, 2020, 22, 1495-1506.	1.8	21
116	Microscopic and Spectroscopic Analyses of Chlorhexidine Tolerance in Delftia acidovorans Biofilms. Antimicrobial Agents and Chemotherapy, 2014, 58, 5673-5686.	1.4	20
117	Soft X-ray spectromicroscopy for speciation, quantitation and nano-toxicology of nanomaterials. Journal of Microscopy, 2016, 261, 130-147.	0.8	20
118	Quantitative Mapping of Ionomer in Catalyst Layers by Electron and X-ray Spectromicroscopy. ECS Transactions, 2017, 80, 275-282.	0.3	20
119	Electron Compton scattering from methane and methane-d4. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 28-34.	0.8	19
120	An X-ray Spectromicroscopy Study of Protein Adsorption to Polystyrene~Poly(ethylene oxide) Blends. Langmuir, 2010, 26, 14759-14765.	1.6	19
121	Secondary electron deposition mechanism of carbon contamination. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, .	0.6	19
122	Spectromicroscopy of C60 and azafullerene C59N: Identifying surface adsorbed water. Scientific Reports, 2016, 6, 35605.	1.6	19
123	Instrumentation for <i>in situ</i> flow electrochemical Scanning Transmission X-ray Microscopy (STXM). Review of Scientific Instruments, 2018, 89, 063702.	0.6	19
124	Chemically Selective Soft X-ray Direct-Write Patterning of Multilayer Polymer Films. Journal of Physical Chemistry C, 2007, 111, 16330-16338.	1.5	18
125	X-ray Absorption and Solid-State NMR Spectroscopy of Fluorinated Proton Conducting Polymers. Journal of Physical Chemistry C, 2018, 122, 3233-3244.	1.5	18
126	Ptychography at the carbon K-edge. Communications Materials, 2022, 3, .	2.9	18



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127	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. <i>Journal of Microscopy</i> , 2001, 204, 69-86.	0.8	17
128	SOFT X-RAY MICROSCOPY OF SOFT MATTER " HARD INFORMATION FROM TWO SOFTS. <i>Surface Review and Letters</i> , 2002, 09, 193-201.	0.5	17
129	Generalized oscillator strengths for C 1s excitation of acetylene and ethylene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2002, 123, 303-314.	0.8	17
130	Imaging Hydrated Albumin on a Polystyrene/Poly(methyl methacrylate) Blend Surface with X-ray Spectromicroscopy. <i>Langmuir</i> , 2009, 25, 13332-13335.	1.6	17
131	Metallic and Semiconducting Single-Walled Carbon Nanotubes: Differentiating Individual SWCNTs by Their Carbon 1s Spectra. <i>ACS Nano</i> , 2012, 6, 10965-10972.	7.3	17
132	Mapping defects in a carbon nanotube by momentum transfer dependent electron energy loss spectromicroscopy. <i>Ultramicroscopy</i> , 2012, 113, 158-164.	0.8	17
133	Characterization of Polymer Monoliths Containing Embedded Nanoparticles by Scanning Transmission X-ray Microscopy (STXM). <i>Analytical Chemistry</i> , 2014, 86, 2876-2881.	3.2	17
134	Cryo scanning transmission x-ray microscope optimized for spectrotomography. <i>Review of Scientific Instruments</i> , 2018, 89, 093704.	0.6	17
135	Recent Advances in Inner-Shell Excitation of Free Molecules by Electron Energy Loss Spectroscopy. , 1982, , .		16
136	Chemical component mapping of pulverized toner by scanning transmission X-ray microscopy. <i>Micron</i> , 2006, 37, 290-295.	1.1	16
137	Understanding energy loss in large-angle scattering of keV electrons from Ar and Ne. <i>Physical Review A</i> , 2011, 83, .	1.0	16
138	Sub-25nm direct write (maskless) X-ray nanolithography. <i>Microelectronic Engineering</i> , 2013, 108, 5-7.	1.1	16
139	Imaging Reactivity of the Pt/Ionomer Interface in Fuel-Cell Catalyst Layers. <i>ACS Catalysis</i> , 2020, 10, 8285-8292.	5.5	16
140	Quantitative chemical mapping of sodium acrylate- and N-vinylpyrrolidone-enhanced alginate microcapsules. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 611-627.	1.9	15
141	In situ azimuthal rotation device for linear dichroism measurements in scanning transmission x-ray microscopy. <i>Review of Scientific Instruments</i> , 2007, 78, 033703.	0.6	15
142	Examining the chemistry and magnetism of magnetotactic bacterium <i>Candidatus Magnetovibrio blakemorei</i> strain MV-1 using scanning transmission X-ray microscopy. <i>Chemical Geology</i> , 2012, 300-301, 14-23.	1.4	15
143	What is the correct Fe L23 X-ray absorption spectrum of magnetite?. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 199, 19-26.	0.8	15
144	Characterizing surface states in hematite nanorod photoanodes, both beneficial and detrimental to solar water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20513-20530.	5.2	15

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145	X-ray spectromicroscopy study of competitive adsorption of protein and peptide onto polystyrene-poly(methyl methacrylate). <i>Biointerfaces</i> , 2008, 3, FB27-FB35.	0.6	14
146	Nano to Micro Scale Characterization of Water Uptake in The Catalyst Coated Membrane Measured by Soft X-ray Scanning Transmission X-ray Microscopy. <i>ECS Transactions</i> , 2011, 41, 395-402.	0.3	14
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