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	Interferometer-controlled scanning transmission X-ray microscopes at the Advanced Light Source. Journal of Synchrotron Radiation, 2003, 10, 125-136.	2.4	625
2	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
3	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
4	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
5	NEXAFS microscopy and resonant scattering: Composition and orientation probed in real and reciprocal space. Polymer, 2008, 49, 643-675.	3.8	261
6	Innershell Absorption Spectroscopy of Amino Acids. Journal of Physical Chemistry A, 2002, 106, 3153-3168.	2.5	209
7	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
8	Advanced imaging techniques for assessment of structure, composition and function in biofilm systems. FEMS Microbiology Ecology, 2010, 72, 1-21.	2.7	187
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Soft X-ray spectromicroscopy and ptychography. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 49-63.	1.7	90
20	Comparison of NEXAFS microscopy and TEM-EELS for studies of soft matter. Micron, 2008, 39, 311-319.	2.2	86
21	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
22	Soft Xâ€ray spectromicroscopy of nickel sorption in a natural river biofilm. Geobiology, 2009, 7, 432-453.	2.4	82
23	Core Excitation and Ionization of Molecules. Physica Scripta, 1990, T31, 159-170.	2.5	81
24	Three-dimensional chemical mapping by scanning transmission X-ray spectromicroscopy. Journal of Synchrotron Radiation, 2007, 14, 395-402.	2.4	77
25	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
26	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
27	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
28	Quantitative mapping of chlorhexidine in natural river biofilms. Science of the Total Environment, 2006, 369, 369-383.	8.0	74
29	Ar 2p spectroscopy of free argon clusters. Journal of Chemical Physics, 1993, 98, 2653-2663.	3.0	72
30	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
31	NephilaclavipesSpider Dragline Silk Microstructure Studied by Scanning Transmission X-ray Microscopy. Journal of the American Chemical Society, 2007, 129, 3897-3905.	13.7	70
32	Identification and Quantitation of Urea Precipitates in Flexible Polyurethane Foam Formulations by X-ray Spectromicroscopy. Macromolecules, 2002, 35, 5873-5882.	4.8	69
33	Innerâ€shell excitations in weakâ€bond molecules. Journal of Chemical Physics, 1987, 87, 4344-4360.	3.0	68
34	Towards practical soft X-ray spectromicroscopy of biomaterials. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 919-937.	3.5	67
35	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
36	Core Excitation Spectroscopy of Stable Cyclic Diaminocarbenes, -silylenes, and -germylenes. Organometallics, 1999, 18, 1862-1872.	2.3	66

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37	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
38	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
39	Inner-Shell Excitation Spectroscopy of Polymer and Monomer Isomers of Dimethyl Phthalate. Journal of Physical Chemistry B, 1997, 101, 2267-2276.	2.6	65
40	Ionic fragmentation of SF6ionised in the sulphur 2p shell. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, 3245-3261.	1.6	64
41	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
42	Introduction of Soft X-Ray Spectromicroscopy as an Advanced Technique for Plant Biopolymers Research. PLoS ONE, 2015, 10, e0122959.	2.5	62
43	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
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. Environmental Science & Technology, 2012, 46, 2821-2829.	10.0	60
45	Comparison of NEXAFS microscopy and TEM-EELS for studies of soft matter. Micron, 2008, 39, 741-748.	2.2	58
46	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
47	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
48	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
49	Composite Tectocapsules Containing Porous Polymer Microspheres as Release Gates. Macromolecules, 2005, 38, 2903-2910.	4.8	53
50	Individual Multiwall Carbon Nanotubes Spectroscopy by Scanning Transmission X-ray Microscopy. Nano Letters, 2007, 7, 2435-2440.	9.1	51
51	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
52	Soft Xâ€ray spectroâ€tomography study of cyanobacterial biomineral nucleation. Geobiology, 2009, 7, 577-591.	2.4	49
53	Soft X-ray spectromicroscopy of polymers and biopolymer interfaces. Journal of Synchrotron Radiation, 2001, 8, 66-71.	2.4	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. Journal of Physical Chemistry B, 2006, 110, 16763-16773.	2.6	48

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55	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
56	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
57	Quantitative Compositional Mapping of Coreâ^'Shell Polymer Microspheres by Soft X-ray Spectromicroscopy. Macromolecules, 2001, 34, 4424-4429.	4.8	46
58	Polarization Dependence of the C 1s Xâ€ray Absorption Spectra of Individual Multiâ€Walled Carbon Nanotubes. Small, 2008, 4, 2279-2285.	10.0	46
59	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
60	Quantitative Characterization of Microscopic Variations in the Cross-Link Density of Gels. Macromolecules, 2002, 35, 1336-1341.	4.8	44
61	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
62	Phase Segregation in Polystyreneâ^'Polylactide Blends. Macromolecules, 2009, 42, 1679-1684.	4.8	43
63	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
64	Inner shell excitation spectroscopy of molecules using inelastic electron scattering. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 9-29.	1.7	42
65	Dynamic Stabilization in1Ïƒuâ†'1Ï€gExcited Nitrogen Clusters. Physical Review Letters, 2001, 86, 3767-3770.	7.8	42
66	STXM Study of the Ionomer Distribution in the PEM Fuel Cell Catalyst Layers. ECS Transactions, 2011, 41, 629-635.	0.5	42
67	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
68	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
69	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
70	Kâ€shell spectroscopy of Ar clusters. Journal of Chemical Physics, 1993, 98, 6820-6826.	3.0	38
71	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
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. Environmental Science and Pollution Research, 2016, 23, 10090-10102.	5.3	38

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73	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
74	Characterization of Biomaterials by Soft X-Ray Spectromicroscopy. Materials, 2010, 3, 3911-3938.	2.9	37
75	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
76	3D Chemical Mapping of PEM Fuel Cell Cathodes by Scanning Transmission Soft X-ray SpectroTomography. ECS Transactions, 2013, 50, 361-368.	0.5	37
77	Measuring Point Defect Density in Individual Carbon Nanotubes Using Polarization-Dependent X-ray Microscopy. ACS Nano, 2010, 4, 4431-4436.	14.6	36
78	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
79	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
80	Scanning transmission x-ray microscopy of isolated multiwall carbon nanotubes. Applied Physics Letters, 2006, 89, 093123.	3.3	34
81	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
82	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
83	Variable linear polarization from an X-ray undulator. Journal of Synchrotron Radiation, 2002, 9, 270-274.	2.4	32
84	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
85	X-ray Spectromicroscopy Study of Protein Adsorption to a Polystyreneâ˜'Polylactide Blend. Biomacromolecules, 2009, 10, 1838-1845.	5.4	32
86	Microbial Architecture of Environmental Sulfur Processes: A Novel Syntrophic Sulfur-Metabolizing Consortia. Environmental Science & Technology, 2009, 43, 8781-8786.	10.0	32
87	A New Approach to Studying Microcapsule Wall Growth Mechanisms. Macromolecules, 2009, 42, 2428-2432.	4.8	32
88	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
89	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
90	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

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91	Experimental and theoretical study of generalized oscillator strengths for C1sand O1sexcitations inCO2. Physical Review A, 2000, 61, .	2.5	30
92	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
93	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
94	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
95	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
96	Chemical Mapping of Polymer Microstructure Using Soft X-ray Spectromicroscopy. Australian Journal of Chemistry, 2005, 58, 423.	0.9	28
97	Inner-shell excitation of gas phase carbonates and Î±,Î³-dicarbonyl compounds. Chemical Physics, 2007, 331, 289-303.	1.9	28
98	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
99	Spectromicroscopy and coherent diffraction imaging: focus on energy materials applications. Journal of Synchrotron Radiation, 2014, 21, 1019-1030.	2.4	27
100	Spatially resolved TiOx phases in switched RRAM devices using soft X-ray spectromicroscopy. Scientific Reports, 2016, 6, 21525.	3.3	27
101	Probing platinum degradation in polymer electrolyte membrane fuel cells by synchrotron X-ray microscopy. Physical Chemistry Chemical Physics, 2012, 14, 4835.	2.8	26
102	Chemically selective soft X-ray patterning of polymers. Journal of Synchrotron Radiation, 2007, 14, 181-190.	2.4	25
103	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
104	Polyurea microcapsules: Surface modification and capsule size control. Journal of Polymer Science Part A, 2011, 49, 3038-3047.	2.3	25
105	STXM Characterization of PEM Fuel Cell Catalyst Layers. ECS Transactions, 2013, 50, 405-413.	0.5	24
106	Anomalous Magnetic Orientations of Magnetosome Chains in a Magnetotactic Bacterium: Magnetovibrio blakemorei Strain MV-1. PLoS ONE, 2013, 8, e53368.	2.5	23
107	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
108	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

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109	Zone plate focused soft X-ray lithography. Applied Physics A: Materials Science and Processing, 2011, 103, 1-11.	2.3	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.	7.8	22
111	Magnetite magnetosome biomineralization in Magnetospirillum magneticum strain AMB-1: A time course study. Chemical Geology, 2019, 530, 119348.	3.3	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.	2.1	21
113	Experimental investigation of beam heating in a soft X-ray scanning transmission X-ray microscope. Analyst, The, 2012, 137, 370-375.	3.5	21
114	Synchrotron-Based Chemical Nano-Tomography of Microbial Cell-Mineral Aggregates in their Natural, Hydrated State. Microscopy and Microanalysis, 2014, 20, 531-536.	0.4	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.	3.8	21
116	Microscopic and Spectroscopic Analyses of Chlorhexidine Tolerance in Delftia acidovorans Biofilms. Antimicrobial Agents and Chemotherapy, 2014, 58, 5673-5686.	3.2	20
117	Soft Xâ€ray spectromicroscopy for speciation, quantitation and nanoâ€ecoâ€toxicology of nanomaterials. Journal of Microscopy, 2016, 261, 130-147.	1.8	20
118	Quantitative Mapping of Ionomer in Catalyst Layers by Electron and X-ray Spectromicroscopy. ECS Transactions, 2017, 80, 275-282.	0.5	20
119	Electron Compton scattering from methane and methane-d4. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 28-34.	1.7	19
120	An X-ray Spectromicroscopy Study of Protein Adsorption to Polystyreneâˆ’Poly(ethylene oxide) Blends. Langmuir, 2010, 26, 14759-14765.	3.5	19
121	Secondary electron deposition mechanism of carbon contamination. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, .	1.2	19
122	Spectromicroscopy of C60 and azafullerene C59N: Identifying surface adsorbed water. Scientific Reports, 2016, 6, 35605.	3.3	19
123	Instrumentation for in situ flow electrochemical Scanning Transmission X-ray Microscopy (STXM). Review of Scientific Instruments, 2018, 89, 063702.	1.3	19
124	Chemically Selective Soft X-ray Direct-Write Patterning of Multilayer Polymer Films. Journal of Physical Chemistry C, 2007, 111, 16330-16338.	3.1	18
125	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
126	Ptychography at the carbon K-edge. Communications Materials, 2022, 3, .	6.9	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. Journal of Microscopy, 2001, 204, 69-86.	1.8	17
128	SOFT X-RAY MICROSCOPY OF SOFT MATTER â€" HARD INFORMATION FROM TWO SOFTS. Surface Review and Letters, 2002, 09, 193-201.	1.1	17
129	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
130	Imaging Hydrated Albumin on a Polystyreneâ˜Poly(methyl methacrylate) Blend Surface with X-ray Spectromicroscopy. Langmuir, 2009, 25, 13332-13335.	3.5	17
131	Metallic and Semiconducting Single-Walled Carbon Nanotubes: Differentiating Individual SWCNTs by Their Carbon 1s Spectra. ACS Nano, 2012, 6, 10965-10972.	14.6	17
132	Mapping defects in a carbon nanotube by momentum transfer dependent electron energy loss spectromicroscopy. Ultramicroscopy, 2012, 113, 158-164.	1.9	17
133	Characterization of Polymer Monoliths Containing Embedded Nanoparticles by Scanning Transmission X-ray Microscopy (STXM). Analytical Chemistry, 2014, 86, 2876-2881.	6.5	17
134	Cryo scanning transmission x-ray microscope optimized for spectrotomography. Review of Scientific Instruments, 2018, 89, 093704.	1.3	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. Micron, 2006, 37, 290-295.	2.2	16
137	Understanding energy loss in large-angle scattering of keV electrons from Ar and Ne. Physical Review A, 2011, 83, .	2.5	16
138	Sub-25nm direct write (maskless) X-ray nanolithography. Microelectronic Engineering, 2013, 108, 5-7.	2.4	16
139	Imaging Reactivity of the Ptâ€"Ionomer Interface in Fuel-Cell Catalyst Layers. ACS Catalysis, 2020, 10, 8285-8292.	11.2	16
140	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
141	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
142	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
143	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
144	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

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145	X-ray spectromicroscopy study of competitive adsorption of protein and peptide onto polystyrene-poly(methyl methacrylate). Biointerphases, 2008, 3, FB27-FB35.	1.6	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. ECS Transactions, 2011, 41, 395-402.	0.5	14
147	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
148	Quasielastic electron scattering from methane, methane-d4, methane-d2, ethylene, and 2-methylpropane. Journal of Chemical Physics, 2007, 127, 084315.	3.0	13
149	Electron Compton-like quasielastic scattering from H2, D2, and HD. Journal of Chemical Physics, 2009, 130, 144303.	3.0	13
150	Imaging interactions of cationic antimicrobial peptides with model lipid monolayers using X-ray spectromicroscopy. European Biophysics Journal, 2011, 40, 805-810.	2.2	13
151	Radiation damage yields across the carbon 1s excitation edge. Journal of Electron Spectroscopy and Related Phenomena, 2016, 206, 58-64.	1.7	13
152	Performance of the HERMES beamline at the carbon K-edge. Journal of Physics: Conference Series, 2017, 849, 012046.	0.4	13
153	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
154	Biomineralization at Titanium Revealed by Correlative 4D Tomographic and Spectroscopic Methods. Advanced Materials Interfaces, 2018, 5, 1800262.	3.7	13
155	Electron beam damage of perfluorosulfonic acid studied by soft X-ray spectromicroscopy. Micron, 2019, 121, 8-20.	2.2	12
156	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
157	Characterization of X-ray Damage to Perfluorosulfonic Acid Using Correlative Microscopy. Journal of Physical Chemistry C, 2019, 123, 16023-16033.	3.1	11
158	Electron beam damage of epoxy resin films studied by scanning transmission X-ray spectromicroscopy. Micron, 2019, 120, 74-79.	2.2	11
159	Inner shell excitation spectroscopy of transient molecules: HBS, HBO, and H3B3O3. Journal of Chemical Physics, 1999, 111, 3468-3478.	3.0	10
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