

Bibliography of Soft X-ray Microscopy (UPDATE of supplemental material for Polymer invited review)

A.P. Hitchcock

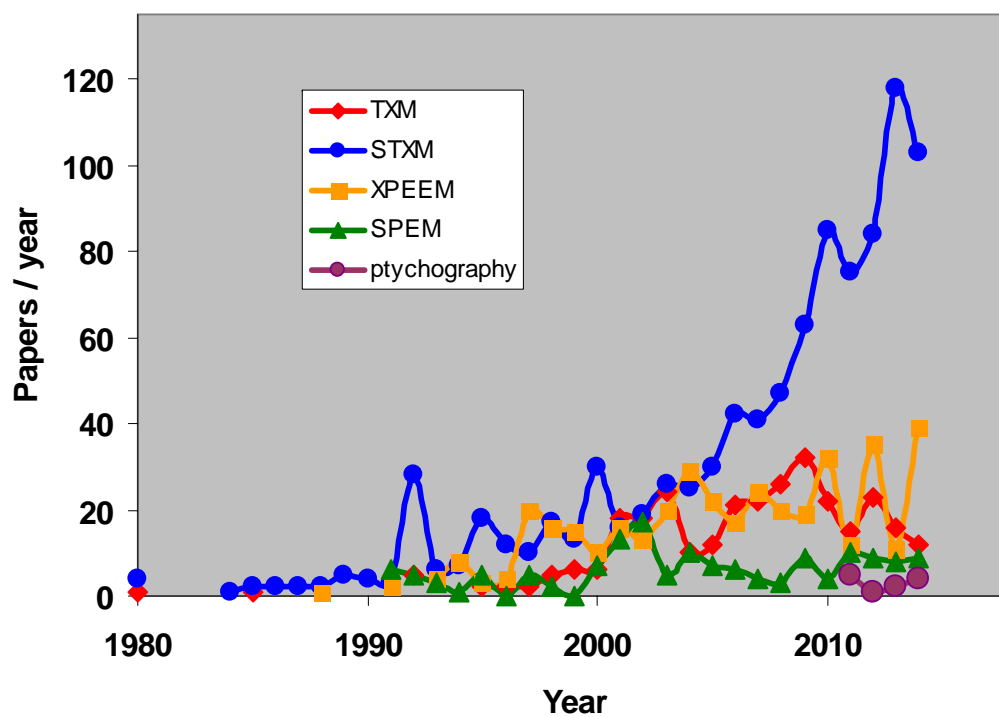
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H. Ade and A.P. Hitchcock, *NEXAFS microscopy and resonant scattering:*

Composition and orientation probed in real and reciprocal space, *Polymer* **49** (2008) 643-67

Publications/year for the different types of soft X-ray microscopy - tallied 12-May-2015



Materials

P – polymer; M – material (non-polymer); E – environmental; B - biological

Types

R – review; I – instrumentation; T – technique; A - application

Techniques

CXDI – coherent X-ray diffraction imaging

CXRM – contact microscopy

DIXH – Digital in-line X-ray holography

ESCA Microscopy = SPEM (Elettra pub list)

FTH - Fourier transform holography

Nanospectroscopy = XPEEM (Elettra pub list)

PEEM – photoemission electron microscopy

Ptycho - ptycography

RSoXS – resonant Soft X-ray Scattering (extends XRM spatial resolution)

SFXM – scanning focused X-ray microscope

SPAM – scanning photo-excited Auger microscope

SPEM – scanning photoemission X-ray microscopy

SP-STXM – STXM with scanning probe pickup

STXM – scanning transmission X-ray microscopy

TR-PEEM – time resolved PEEM

TXM – full field transmission X-ray microscopy

Polymer and materials abbreviations

Alb, HSA	human serum albumin
ABS	polybutadiene-acrylonitrile blend
DVB55	divinylbenzene (45% monovinylbenzene)
EGDMA	ethylene glycoldimenthylacrylate
EVA	poly (ethylene-co-vinyl alcohol
Fg	fibrinogen
F8BT	poly(9,9'-dioctylfluorene-co-benzothiadiazole)
LDPE	low density polyethylene
Kraton	type of rubber
MDI	merhlyene di(isocyanate)
MMT	montmorillonite clay
Nylon-6	poly(ϵ -caprolacatam)
PAR	polyacrylate
PBMA	poly-n-butyl-methacrylate
PPrS	poly-bromo-styrene
PC	polycarbonate
PET	poly(ethyleneterephthalate)
PMMA	polymethylmethacrylate
PMGI	poly dimethylgultarimide
PAA	polyacrylic acid
PE	polyethylene
PEP	poly(ethylene- <i>alt</i> -propylene)
PI	polyisoprene
PLA	polylactide (polylactic acid)
PP	polypropylene
PP-g-MA	polypropylene-graft maleic anhydride
PPTA	poly(p-phenylene terphthalamide) = Kevlar™
PS	polystyrene
PTMO-ED	polytetramethylene oxide + ethylenediamine + MDI)
RBC	poly[(styrene- <i>r</i> -isoprene)- <i>b</i> -(styrene- <i>r</i> -isoprene)''], (S/I)'- <i>b</i> -(S/I)'', copolymer; ' = 75/25; '' = 50/50 (wt %) S/I block compositions
SEBS	poly(styrene- <i>b</i> -ethylene butylene- <i>b</i> -styrene)
TDI	toluene di(isocyanate)
TFB	poly(9,9-dioctylfluorene-co-N-(4-butylphenyl)diphenylamine)
Vectra	poly(butylene terephthalate)

code	materials	type	tech	species	Comments
1969SR	M	I	TXM		First zone plates designed for XRM
1972HH	M	I	pinhole		2 um resolution (at NSLS)
1974K	M	I	STXM		zone plate theory
1976NRS	M	I	TXM	<i>Eremosphaera viridis</i> , cotton fibre	First synchrotron TXM (at DESY)
1977SK&a	B	T	STXM		radiation dose (electron vs. X-ray)
1977SK&b	B	T	STXM		water window theory
1980Ka	B	A	STXM		elemental mapping
1980Kb	B	I	STXM		radiation damage
1980KS	B	R	STXM		early review of soft X-ray microscopy
1980RK&	B	I	STXM		UV ring STXM – first results
1980SR&	B	R	TXM		
1984RK&	B	A	STXM		UV ring STXM
1985HK&	B	R	STXM, TXM		popular review
1985KR	B	I, R	STXM		first NSLS microscope
1986JK&	B	I	STXM		U15 BM STXM
1986RS&	B	I	STXM		plans for X1A STXM
1987JK	B	R	STXM		
1987YH	M	I	STXM		zone plate theory
1988DH&	P	A, T	RSoXS	sulphonated PS	resonant scattering
1988RS&a	B	I	STXM		first X1A result (?)
1988RS&b	B	I	STXM		UV ring STXM
1988SS&	M	I	STXM		interferometer encoder for STXM
1988TR	M	I	XPEEM	BaO cathode, Au/Si	First synchrotron PEEM
1988YH	M	I	STXM		ZP fabrication
1989BR&	B	I	STXM		
1989RI&	B	A	STXM	zymogen granules	
1990AK&	P	I	STXM		
1990KA&	B	R	STXM		
1990RA&	B	R	STXM		
1990RB&	M	I	STXM		NSLS X1a STXM
1990RB&b	M	I	STXM		X1a beamline and undulator
1990RCa	M	A	RSoXS	Amorphous polymer films	
1990RCa	P	A, T	RSoXS	sulphonated PS	resonant scattering

code	materials	type	tech	species	Comments
1990RCb	M	A	RSoXS	Semocrystalline polymer films	
1990RCb	P	A, T	RSoXS	sulphonated PS	resonant scattering
1991AK&	M	I	SPEM	circuits	
1991DC&	B	A	SPEM	neurons	
1991HKS	B	R	STXM, SPEM		popular review
1991JR&	M	A	RSoXS	Langmuir-Blodgett films	
1991JR&	P	A, T	RSoXS	Langmuir-Blodgett films	soft X-ray non-resonant scattering
1991JW&	B	I	STXM		
1991M	M	R	PEEM	Hg lamp Cu/Mo(100)	
1991MD&	B	A	SPEM	neurons	
1991T	M	R	PEEM, SPEM		
1991TG&	M	I	STXM		zone plate fabrication
1992A	R,I	T	SPEM		
1992AK&a	M	I	SPEM		astigmatism correction
1992AK&b	M	I	SPEM		
1992AK&c	M	A,I	SPEM		
1992AZ&	P	A	STXM	PAN, PS, PP	
1992B	B	A	STXM	Ca in bone	
1992BA&	B	A	STXM	Ca mapping in cartilage	
1992BB&	B	A	STXM	collagen fibrils	
1992BB&a	B	A	STXM	Ca mapping in cartilage	
1992BB&b	B	A	STXM	Ca mapping in cartilage	
1992BF&	B	A	STXM	Ca mapping in cartilage	
1992CKW	P	I	STXM		resolution evaluation
1992DK&	B	A	PEEM	neurons	
1992FP&	B	T	TXM/TEM	radiation damage to cells	
1992GM&	B	A	STXM	organelles in cells	
1992GP	B	A	STXM	whole cell imaging	
1992GP&	B	A	STXM	whole, wet tissue imaging	
1992GR	B	A	STXM	protein secretion from zymogen granules	
1992J	B	I	STXM		
1992JKW	I	T,R	TXM, STXM		resolution
1992JL&a	B	I	STXM		luminescence detection

code	materials	type	tech	species	Comments
1992JL&b	M	I	STXM		ZP replication (litho)
1992KA&a	B	R	STXM		coherence effects
1992KA&b	M	I	SPEM		
1992LK&	B	T	STXM		3d imaging by stereo microscopy
1992LR&	I	I	STXM		NSLS X1A undulator and beamline
1992LTJ	B	T	STXM/TXM	radiation damage	
1992LW&	B	T	STXM		steromicroscopy
1992M	I	T	STXM, TXM		phase, dark field
1992PG	B	T	STXM	live cells	
1992RGL	B	T	STXM		protein transport
1992WJ&a	B	T	STXM	chromosomes	radiation damage
1992WJ&b	B	T	STXM	chromosomes	
1992WJ&c	B	T	STXM	chromosomes	
1992WS&	B	A	TXM		
1992ZJW	B	T	STXM		deconvolution image enhancement
1993AH	P	A	STXM	polyimide	Dichroism mapping
1993AH	P	A,T	STXM	Kevlar	dichroism
1993AJ&	B, P	R	STXM		
1993BF&	B	A	STXM	myofibrils	radiation damage
1993CM&	I	I	SPEM		Maximum
1993DD&	B	A	PEEM	Al in neurons	
1993DH&	B	A	PEEM	neurons	
1993DM	B	R	PEEM	neurons	
1993DP&a	B	A	SPEM	neurons	
1993DP&b	B	A	SPEM	neurons	
1993JL&	B	T	STXM		luminescence microscopy
1993SW&	M	T	PEEM	first XMCD imaging	
1993WZ&	B	A	STXM	wet chromosome imaging	
1994AH&	P	A, R	STXM		dichoism
1994BC&	E	A	STXM	coal	
1994BD&	B	A	STXM	Ca in bone	
1994D	B	A	PEEM	neurons	
1994DC&	B	R	PEEM		
1994DD&	B	A	PEEM	Al in metals	

code	materials	type	tech	species	Comments
1994DM&a	B	A	PEEM	Al in neurons	
1994DM&b	B	A	PEEM	Al in neurons	
1994HM&a	B	T	STXM		microtomography
1994HM&b	B	T	STXM		microtomography
1994KA&	B	R, I	STXM	Na salicylate	luminescence
1994RC	M	A, R	SPEM, PEEM	GaAs, Al-Cu-S, XMCD	
1994T	I,M	A	PEEM	first XMCD PEEM	
1994ZA&	P	I, A	STXM		micro-XANES demonstrated
1995AH&	P	A	STXM	various polymers	
1995AS&	P	R	STXM	PS-PAN-polypropylene, PC-PET, Kevlar, PUR	
1995B	B	A	STXM	mapping Ca in tissue	
1995BB&	B	A	STXM	biological Calcium phosphates	
1995CB&a	E	A	STXM	coal	
1995CB&b	E	A	STXM	C, Ca, Cl in coal	
1995CB&c	E	A	STXM	coal	
1995CJW	B	I	STXM		CCD detector
1995DD&	B	A	PEEM	neurons	UV-ashed samples
1995GBR	B	A	STXM	zymogen granules	
1995GR	B	A	STXM	zymogen granules	
1995HT&a	B	T	STXM		microtomography
1995HT&b	B	I	SPEM		
1995J	M	I	TXM		effect of partial coherence
1995KJH	B	R	TXM, STXM		
1995KK&a	M	I	SPEM		NSLS SPEM
1995KK&b	M	A	SPEM		
1995KK&c	M	A	SPEM		
1995MC&	B	R	STXM		
1995MDC	B	R	PEEM		
1995MH&	B	T	STXM		microtomography
1995SC	B,P	R	STXM		
1995TD&	M	R	PEEM, SPEM	PAN, magnetic samples	
1995WJ&	B, P	R,B, P	STXM		NSLS STXM review
1995ZF&	I, M	A	scan-SXM	Gd ₂ O ₂ S:Pr phosphor	

code	materials	type	tech	species	Comments
1995ZJ&	B	I	STXM		
1996AC&	M	A	PEEM	Pt/GaP(001) interface	
1996AS&	P	A	STXM	LC polyester, LDPE/PET/Kraton. PC/ABS	
1996CB&	B, P	A	STXM	sporinite in coal	
1996CF&	B	T	STXM		dark field, immuno-gold labels
1996CJW	M	I	STXM		zone plate fabrication
1996DL&	B	I	PEEM	Transmission by PEEM	
1996DM&	B	A	PEEM	Co in granule cells	
1996J	B	R	STXM		
1996JC&	B, P	R	STXM		X1A STXM review
1996K	R	A	TXM, SM		
1996KY&	B	A	TXM	COS cells; Mn enhanced	
1996MAS	B	R	PEEM		
1996MKV	M	I	SFXM	mirror focused system	instrument , luminescence detection
1996OJ&	B	I	STXM		cryo sample preparation
1996SA	P	A	STXM	polyimide	Dichroism mapping
1996UH&	P	A	STXM	polyurethane characterization	
1996VF&	M	R, I	SFXM	ceramics, porous Si	luminescence, PE, transmission detection
1996WA&	B, P	R, I	STXM		NSLS X1A revised beamline
1996WH&	B, P	R, I	STXM		NSLS X1ASTXM IV design
1996ZB&	B	A	STXM	Sperm (DNA, protein)	
1997A	P	R	STXM		
1997AD&	B	A	PEEM	Boron Neutron Capture Therapy	
1997AS&	P	I, R	STXM, SPEM	PS, PC, PE, PP, PET, PAR, Kevlar (PPTA), PS, PU, polyester, Nylon-6, MDI. SAN, TDI, (LDPE, PET, Kraton)-blend; PC-ABS blend PUR, polyurea. BM, B2, B0, LC-polyester, ,ZDDP	NSLS polymer & tribology review (Ade)
1997BK&	M	I, A	(L) PEEM	Ag/Si	
1997BK&a	B	A	STXM	tissue	
1997BO&	B	A	STXM		amino acid spectroscopy
1997BS&	M	A	STXM	silica	colloids

code	materials	type	tech	species	Comments
1997BY&	M	I	STXM+	collimator after ZP	design
1997CD&	P	R	PEEM		
1997CM	M	I	SPEM	various	
1997D	B	R	PEEM		
1997DC&	B	T	PEEM		Effect of ashing
1997DG&	B	A	PEEM	Boron NCT	
1997DM	B	A	PEEM	neurobiology	
1997DMT	E	A	PEEM	ilmenite	
1997FW&	M	I	PEEM	SMART	
1997H	M	A	PEEM	high-Tc superconductors	
1997HS&	M	A	PEEM	XMCD, FeNi alloys	
1997JZN	M	I	SPEM	Si oxides	
1997MB&	M	A	PEEM	various	
1997MC&	M	I,R	SPEM	Au/Si, MoO ₃ /sapphire,	
1997MD	B	A,T	PEEM	neurobiology	
1997MG	M	I	PEEM	Ag/Cu	angle-resolved PEEM (lab)
1997MGS	M	I	PEEM	Wien filter	
1997ML&	B	A	TXM	Plasmodium falciparum parasites	
1997MR&	M	I	XPEEM	various	
1997MTB	E	A	TXM	Fe oxides / Se	
1997RH&	P	A, T	STXM	polyethylene terephthalate	damage rate relative to EM
1997SF&	M	A	PEEM	XMCD, FePt alloy	
1997SJT	M	I	STXM		Lucent zone plate fabrication
1997SL&	P	A	STXM		
1997SS&	M	A	PEEM	TiSi test (PRISM)	
1997TD&	M	I	PEEM	PRISM	
1997V	M	I	SFXM	luminescence	HasyLab mirrors
1997WA&	P, M	I	STXM, PEEM	Kevlar, PU	
1997WW&	M	I	SPAM	scanning Auger, undulator	
1998A	P	R	STXM, PEEM	PC, PET, PPTA, PAR, PS, SAN, Nylon-6, PP, PE; LDPE, PET, Kraton; Liq. crystal polyester; Kevlar, magnetic domains; wood; coke	
1998AA	M	I	TXM		resolution - partial coherence issues

code	materials	type	tech	species	Comments
1998Ab	P	R	STXM, PEEM		dichroism
1998Ac	P	A	STXM	PET, Vectra™ blend	
1998AW&	P	A	PEEM		dewetting
1998AY&	I	R	PEEM	FEL based PEEM metals	
1998BB&	B	A	STXM	sperm	
1998BK&	B	A	STXM	bone	
1998BO&	B	A	STXM	amino acids	
1998CA&	M	A	STXM	vitrinite	luminescence alteration
1998CD&	P	A	PEEM	polyimides	orientation, dichroism
1998DC&	B	I	PEEM		Mephisto
1998DG&	B	T	PEEM	Transmission by PEEM	
1998FC&	B, P	R, I	STXM		NLSL X1ASTXM IV design
1998FK&	E	A	STXM	interplanetary dust	
1998FR&	B	A	STXM	Axon	
1998GR&	B	A	PEEM	Boron NCT	
1998GT&	M	A,R	XPEEM	impurity particles in Si wafers	
1998JK	B,P	R	STXM, TXM		review
1998JMW	B	R	STXM		comp. to electron microscopy
1998KK&	M	I	SPEM		SRRC SPEM project
1998KLM	B	A	TXM	parasite metazoa	
1998KW&	P	A	STXM	PAN heat treatment	
1998MJ&	B	I	STXM	cell tomography	cryo STXM instrumentation
1998MU	B	I	TXM	wet cell	instrument
1998SA&a	P	A	PEEM		dewetting
1998SA&b	M	A, R	PEEM	various	
1998SB&	P	A	STXM	PET-Vectra™	Mechanical blends
1998SH&	I	R	PEEM	leem, leed, peem metals	
1998SJT	M	I	STXM		zone plate fabrication
1998SP&	M	R	XPEEM		XMCD microscopy
1998SS&	M	A	PEEM	tribology – hard disk wear	
1998WF&a	P	I, R	STXM		ALS BL 7.0 first instrument
1998WF&b	M	I	PEEM	SMART design description	
1998WJ	B	I	contact-XRM		contact; contrast versus resolution
1998YB&	B	A	TXM	CD36 cytoadherence by p. falciparum	

code	materials	type	tech	species	Comments
1998ZM&	M	A	PEEM	Boron carbide	
1998ZZ&	M	I	SPEM		
1999AP&	I	T	PEEM	PEEM2 (ALS) instrument	
1999AS&a	M	A	PEEM	hard disk wear	
1999AS&b	M	A	PEEM	hard disk wear	
1999AS&c	M	I	XPEEM	magnetic materials	
1999AW&	P	A	STXM	PS/PMMA	Phase segregation
1999BF&	M	A	XPEEM	disk-head interface tribology	
1999CS&a	M	A	PEEM	ZDDP tribology	
1999CS&b	M	A	PEEM	ZDDP tribology	
1999DG&	B	T	PEEM		Ashing by UV/ozone
1999GKK	E	A	TXM	biofilm formation	
1999GS&	P	A	STXM	2,5-diphenyl-1,3,4-oxadiazole films	
1999HS&	I	R	SPELEEM	FET junctions	
1999HT&a	P	A	STXM	polyurea capsules, PS-PI layers	
1999HT&b	P,B	A	PEEM	Protein - polyurethane studies	
1999J	B	R	STXM	cell biology	
1999JN	E	A	STXM		
1999KM&	M	A	TXM	ASR gel	Hydration kinetics & mechanisms
1999KMB	M,E	A	TXM	concrete	deterioration products
1999M	M	I	STXM	luminescent probes	
1999MH&	P	A	PEEM	polypyrrole, defects	
1999MM	E	A	TXM	humic substance imaging	
1999MZ&	M	A	PEEM	Boron carbide nanowires	
1999NA&	E	A	STXM	colloid emulsions. milk	
1999PJP	M	I	STXM		phase contrast
1999RK&	E, B	A	STXM, TXM	Mn, Fe biomineralization	
1999SG&	P	A	PEEM	PS/PBMA	
1999SP&	M	I	PEEM		20 nm resolution
1999SS&	P	A	STXM	PMMA / PI blend	Mechanical blends
1999SS&b	M	A	XPEEM	NiO	AFM structure
1999TD&	E, B	A	STXM, TXM	Mn, Fe biomineralization	
1999UH&	P	A	STXM	polyurethanes	
1999ZL&	P	A	STXM	PS/PMMA	confinement induced miscibility

code	materials	type	tech	species	Comments
20008SC&	M	A	STXM	Nanopillar spin valves	Spin injection dynamics
2000A	B	R		many	
2000AO&	M	I	STXM		CXRO zone plate fabrication
2000BR&a	B	T	TXM		Compact water window TXM
2000BR&b	B	T	TXM		Compact water window TXM
2000C	B	A	STXM	lignin, cellulose	modern wood (oak, cedar)
2000DG&	B	I	PEEM		wet samples by inverted PEEM
2000EH&	M	A	SPEM	Cu(In, Ga)Se ₂ films	
2000FB&	M	I	STXM		STXMIV, segmented detector
2000GA&	B	T	PEEM		Charging & effects on imaging
2000GKM	M	A	TXM	cement	Hydration kinetics & mechanisms
2000GP&a	B	T	PEEM		Ashing effects on cells
2000GP&b	B	A	PEEM	BSH effect on glioblastomas	
2000JA&	B,E	R	STXM		review of NSLS program
2000JW&	P	I	STXM		Stack method
2000Ka	M	I, R	SPEM	surface & interfaces	
2000Kb	M	I, R	SPEM	surface & interfaces	
2000KG&	M	A	SPEM	(Ni,Ag)/Si(111)	
2000KJ&	B	I	STXM		sealed wet cell
2000KW&	B	I	STXM		cryo tomography
2000LD&	B,E	A	PEEM	Sulfate reducing bacteria	
2000LG&	M	A	SPEM	O at Pt/YSZ interface	
2000LR	B	A	TXM		image montage
2000LYB	B	A	TXM		
2000MO&	B	I	STXM		Cryo microscopy
2000NA&	E	A	STXM		
2000ND&	M	A	SPEM	laser annealed CdTe	
2000NJ&	B	I	STXM		wet cell
2000NS&	M	A	PEEM	AFM, FM coupling - pinning	
2000OJ	E	T	STXM		principle component analysis
2000PJ&	B	T	STXM		phase contrast: expt-simulation comparison
2000PK&	E	A	STXM	Mn, Fe particles ox st.	
2000RDD	E	A	STXM	colloids	
2000S	M	A, R	XPEEM		magnetic structure

code	materials	type	tech	species	Comments
2000SA	M	A, R	PEEM	XMCD, tribology	
2000SA&	P	A	STXM		Cryo-mechanical blends
2000SA&a	P	A	STXM	PMMA, PI, poly(ethylene- <i>alt</i> -propylene)	Cryo-mechanical blends
2000SA&b	P	A	STXM	PMMA, PI, poly(ethylene- <i>alt</i> -propylene)	Cryo-mechanical blends
2000SA&c	P	A	STXM	PMMA, PI, poly(ethylene- <i>alt</i> -propylene)	bilayer polymer contact angles
2000SS&a	P	A	STXM	PMMA, PEP	rubber modified PMMA
2000SS&b	P	A	STXM	PMMA, Polyisoprene , Poly(ethylene- <i>alt</i> -propylene)	Mechanical blends
2000SS&d	M	A	XPEEM		antiferromagnetic domain visualization
2000ST&	E	A	STXM	soils	
2000TL&	M	A	XPEEM	domain wall oscillations	
2000TS&	M	I	STXM		zone plate fabrication
2000WA&a	P	A	STXM	PS, PMMA	
2000WA&b	B	I	STXM		renewed X1A beamline
2000WG&	P	A	STXM	PS, PMMA	Phase segregation
2000WJ&	B	I	STXM		cryo-tomography
2000WS&	B	A	TXM	green algae tomography	
2000WT&	M	I	STXM		BESSY STXM
2000WZ&	P	A	STXM	PS, PMMA	Phase segregation
2000ZN	M	A	SPEM	benzoic acid / Ni(11)	linear dichroism , orientation
2000ZS&	M	A	STXM	a-C, graphite, diamond	
2001 SO&	I	I	TR-PEEM	In, Cu	Time-resolved PEEM
2001AU	P	R	STXM		
2001BC&	M	A	SPEM	Ni/GaN	
2001BC&a	M	A	SPEM	Au/GaN	
2001BC&b	M	A	SPEM	Au/GaN	
2001BGK	M	A	SPEM	metal/GaN(0001) interfaces – Shottky barriers	
2001CL&	M	A	PEEM	liquid crystal alignment	
2001DA&	B	R	TXM	Biological and materials applications	
2001DC&	B	A	PEEM	Gd in glioblastoma cells	Gd NCT

code	materials	type	tech	species	Comments
2001DF&	M	A	TXM		Magnetic domain imaging
2001DG&	B,E	R	PEEM		
2001EF&a	M	A	TXM		Magnetic domain imaging
2001EF&b	M	A	TXM		XMCD - magnetic imaging
2001ES&	M	A	TXM	FeGd nandot array	Magnetic reversal
2001FB&a	B,E	R	STXM		review of NSLS program
2001FE&a	M	A	TXM	permalloy	Magnetic imaging
2001FE&b	M	A	TXM	permalloy	Magnetic imaging
2001FE&c	M	A	TXM		magnetic imaging
2001FE&d	M	A	TXM		magnetic imaging
2001FJ&	M	I	STXM		segmented detector
2001GB&	M	A	SPEM	(Ni,Ag)/Si(111)	
2001GM&a	B	R	PEEM		
2001GM&b	E	A,I	PEEM	biomineralization	Charge compensation
2001GM&c	M	I	SPEM	multi-channel detection	
2001GM&d	M	A	SPEM	laterally inhomogeneous surface reactions	
2001H	P, B	R	STXM, PEEM	PUR (MDI)-polyurea precipitates; 355 (PU-matrix, SAN, pipa); PS-PI-PS trilayer; polyurea capsules; HSA on PUR-filler; Alb on PTMO-ED-MDI (polytetramethylene oxide±ethylenediamine±MDI)	
2001HK&	P	A	STXM	Polyurethanes, urea precipitates	
2001HL&	B	A	TXM		protein localization
2001HS	P,B	R	STXM, PEEM	many	
2001HT&	I	T	PEEM	hard X-rays, Fe K-edge	
2001KH&	P	A	STXM	DVB55, EGDMA	core-shell microspheres
2001KK&	M	A	TXM	CoPt ML	magnetic imaging
2001LD&a	M	A	SPEM	laser annealed Ti/Si(111)	
2001LD&b	M	A	SPEM	laser annealed Ti/Si(111)	
2001LD&c	M	A	SPEM	laser annealed Ti/Si(111)	
2001LS&	B	A	TXM	Protein in eukaryotic cells	Eembedding method
2001LSa	M	I	SPEM		PSL beamline and undulator

code	materials	type	tech	species	Comments
2001LSb	M	I	SPEM	electrical circuits	instrument description
2001MH&	B	A	TXM	Protein in cells	
2001MI&	P	A	PEEM, STXM	PS, PMMA	Compare to AFM; phase segregation
2001OJ&	B	I	STXM	sperm	cryo STXM instrumentation
2001OR&	M	A	PEEM	interfacial mag. spin imaging	
2001OS&	M	A	PEEM	AFM, FM coupling - pinning	
2001RO&	M	A	PEEM	metal-oxide interfaces (pinning)	
2001SA&a	P	A	STXM	Polycarbonate; poly(ABS)	
2001SA&b	P	A	STXM	tires	Mechanical blends
2001SA&c	P	A	STXM	PMMA/ poly(ethylene- <i>alt</i> -propylene)	Cryo-mechanical blends
2001SB	M	A	PEEM	Pb on Si(111) with Au interfactant	
2001SK&	E	A	STXM	humic acid, fulvic acid	
2001SL	M	I	SPEM		PSL SPEM
2001SN&	M	A	PEEM	AFM, FM coupling - pinning	
2001SU&	P	A, R	STXM	PC, P(BrS), PS, PMMA, PE, PVC-PET (food packaging film), PP	
2001TF&a	M	A	TXM	TbFeCo Films	thermo-magnetic recording
2001TFT	M	A	TXM		Thermo-magnetic recording
2001TFTb	M	A	TXM	TbFeCo Films	thermo-magnetic recording
2001VC&	B	I	STXM		dark field microscopy
2001WK&	M	I	TXM		DIC mode
2001ZG&	P	A	STXM	PB/ BIMS / filler (= C-black or SiO ₂)	nanofiller effect on interfaces
2001ZG&b	M	A	XPEEM		hard disk lubricant test
2001ZS&	B	A	TXM	Transcription factor MIZ-1	microtubule imaging
2002A	M,B	R	TXM	various	Optics and samples
2002AA&	M	A	TXM	various	Zone plate improvements
2002AK&	P	A	STXM	polylefins	
2002AS	P	R		many	
2002AS&	M	A	XPEEM	lithography prepared nanomagnets	
2002AT&	M	A	XPEEM	polymer/FePt nanoparticles	
2002BC&a	B	A	STXM	Fossil plant cells	
2002BC&b	M	I	STXM		Combined for STXM & topography (AFM?)
2002BF&	B	R	STXM		review of NSLS program
2002BG&a	M	A	SPEM	electrochemically patterned Ga on GaN	

code	materials	type	tech	species	Comments
2002BG&b	M	A	SPEM	metal/GaN – Shottky barriers	
2002BK	M	R	SPEM	zone plate microscopies	
2002BS&	M	A	SPEM	O/Ru(0001)	
2002CB&	E	A	STXM	high-pH clays	
2002CL&	M	A	XPEEM	Fe/Cu/Ni/Cu(001)	spin reorientation transition
2002CUA	P	A	STXM	PMMA, many others	radiation damage
2002ES&	M	A	TXM	magnetic multilayers	undulation instabilities
2002FD&a	M	A	TXM		Magnetic domain imaging
2002FD&a	M	R	TXM		magnetic imaging
2002FD&b	M	A	TXM		Magnetic domain imaging
2002FD&c	M	A	TXM		magnetic imaging
2002FE&	M	A	TXM		Magnetic domain imaging
2002FGD	B,E	T	PEEM	Transmission in PEEM	
2002GK&	M	R	SPEM, u-ESCA	review	
2002GL&	M	A	SPEM	XPS of single carbon nanotubes	
2002GM&	M	A	SPEM	K transport on catalysts	
2002GM&b	M	A	SPEM	patterns in H&O on Rh(110)/Pt	
2002HM&	P, B	A	STXM	polyurethane, SAN, pipa, Fg	protein on polymers, dry vs. wet
2002I	M	A	XPEEM		magnetic imaging
2002JB&	B,E	R	STXM		review of NSLS program
2002KCM	M	A	TXM	cement	Alkali-Si reaction
2002KD&	P	A	STXM	PS	craze alignment, dichroism
2002KH&	P	A	STXM	PAA, PE	Filtration membranes
2002KO&	B	A	STXM		amino acid spectroscopy
2002KP&	M	I	STXM		Differential phase contrast aperture
2002KT&	M	A	TXM	CoPt ML	magnetic imaging
2002KZ&	M	A	TXM	Fe(001)/Au(001) ML	magnetic imaging
2002LG&	M	A	microprobe	LiF direct patterning	
2002LJ&	M	A	SPEM	reduction fronts in zirconia	
2002LO&	M	A	XPEEM	SiC transition metals	
2002MG&a	M	A	SPEM	patterned alkali on metals	
2002MG&b	M	A	SPEM	transport of alkali on metals	
2002MM&	M	A	XPEEM	polymer brushes	lateral versus perpendicular segregation
2002MW&	P	A	STXM	PAA	Cross-link mapping

code	materials	type	tech	species	Comments
2002ND&	M	A	SPEM	laser modified Pt/Si(001)	
2002NL&	M	A	XPEEM	FeOx nanocrystals	
2002PD&	M	A	TXM		Magnetic domain imaging
2002PH&	M	A	SPEM	PbS oxidation	
2002PM&a	M	I	SPEM	multi-channel detection in SPEM (e)	
2002PM&b	M	A	SPEM	Au/Ni(poly)	
2002PR	E	A	STXM	Eu(III) – humics agglomeration	
2002RMM	M	A	STXM	Organics on atmospheric particles	
2002RN&	M	A	PEEM	singl ~10 nm Fe2O3 nanoxlls	sub spatial resolution spectroscopy
2002RU&	P	A	STXM	Polyurethanes, SAN, pipa	
2002S	M	R	XPEEM		review of magnetic imaging
2002SA&a	B	A	TXM	Whole cells	tomography
2002SA&b	M	A	XPEEM	polymer-mediated magnetic np	
2002SD&	M	A	TXM	Cu interconnects	electromigration
2002SM&a	M	A	TXM	Cu interconnects	electromigration
2002SM&b	M	A	TXM	Cu interconnects	electromigration
2002SO&	M, I	A, T	PEEM	XMCD at PEEM2	
2002SW&	M	A	SPEM	Cs in carbon nanotubes	
2002SW&b	M	A	SPEM	XPS of carbon nanotubes	
2002UA	E	A	STXM	carbonyl compounds	
2002WK&	M	I	TXM		DIC mode
2002WW&	M	A	XPEEM	Ni/Fe/Co/Cu(100)	Fe interfacial magnetism
2002YS	B	A	TXM	macrophages	
2002ZF&	P	A	STXM	PMMA, Silsequioxane	
2003AA&	M	R	TXM		
2003AK&	P	I	STXM	STXM532 instrumentation	
2003AT&	M	A	XPEEM	polymer/FePt nanoparticle assemblis	
2003BC&a	B	A	STXM	Fossil plant cells	
2003BC&b	M	A	SPEM	Si nanowires catalysed by C nanoparticles	
2003BF&	M	A	SPEM	Fe/Au(001) magnetic films	role of Au segregation
2003BG&	M	R	STXM, PEEM	review	
2003BJ	P	A	STXM	PMMA	radiation damage
2003BJ&	M, B	I	CDI		Tomo, CDI, on ALS BL 9.0.1

code	materials	type	tech	species	Comments
2003CA&a	M	I	TXM		20 nm resolution
2003CA&b	M	I	TXM		20 nm resolution
2003CA&c	M	I	TXM		20 nm resolution
2003CB&	P	A	STXM		Crystal structure from dichroism
2003CD&	M	A	XPEEM	Co-doped TiO2 anatase	
2003CM&	P	A	STXM	polyurea capsules	
2003DA&	M	A	TXM		magnetic imaging
2003DC&	M	I	STXM		Optics design
2003DF&	E	I	PEEM	zircon	Charge compensation
2003DS&	M	I, R	TXM		XM1 status
2003EE&	M	A	TXM	magnetic nanostrips	
2003ES&	M	A	TXM	magnetic systems	polarization with coherent scattering
2003F	M	A,R	TXM		magnetic imaging
2003FD&	M	A	TXM		Magnetic domain imaging
2003FE&	M	A,R	TXM		magnetic imaging
2003FG&	M	T	PEEM		Depth sensitivity
2003FJ&	M	I	STXM		segmented detector
2003FK&a	E	A	STXM	interplanetary dust	
2003FK&b	E	A	STXM	extraterrestrial organics	
2003GK	P	R	STXM, PEEM	PS/P(BrS) wetting	wetting of polymer surfaces
2003GT&	E	T	STXM		analysis program for Fe-organic interactions
2003HA&	P	A	STXM	3d chemical mapping of toners	First serial section STXM tomo
2003HAA	P	A	PEEM	PS, PMMA	
2003HC&	M	A	SPEM	Aligned CNT	Without polarization dep.
2003HD&	M	A	TXM	out-of-plane magnetization	stripe domains
2003IF&	M	A	TXM	CoCrPt films	magnetization reversal
2003IL&	M,E	A	XPEEM		reversible chemical patterning (stimuli-response)
2003JC&	M	B	contact	E. coli cells	
2003JF&	E	T	STXM		cluster analysis
2003JL&	M	A	TXM	cement	Hydration kinetics & mechanisms
2003K	M	R	SPEM, u-ESCA	review	
2003KB&	M	I	TXM, STXM	Twin-mic progress report	
2003KD&	B	A	TXM	parasite metazoa	

code	materials	type	tech	species	Comments
2003KK&	M	A	TXM	CoPt ML	
2003KM	M	A	TXM	Chemical additives	
2003KMM	M	A	TXM	Steel-in-cement - corrosion	
2003KR	M	A	TXM	Ash filler in cement	Hydration kinetics
2003KT&	P	I	STXM	polyurethane, SAN, pipa	ALS interferometric STXM
2003KZ&	M	A	SPEM	Patterning SAMs with SPEM beam	
2003LN&	M	A	PEEM	AFM, FM coupling - pinning	
2003LO&	M	A	XPEEM	SiC/ Ti	
2003LS&	B, E	A	STXM	bio-mapping biofilms	
2003MK&	M	A	PEEM	ZDDP tribology	
2003MS&	M	A	TXM	E. coli	imaging by diffraction (CDI)
2003OS&	M	A	PEEM	exchange bias	
2003PM&	M	A	SPEM, XPEEM	Pd/Ni(poly) dynamics	
2003RMD	E	A	STXM	Eu(111)-humic aggregates	
2003RU	M	A	STXM	spectroscopy by 5322	
2003S	M	R	XPEEM		
2003SA&	M	A	XPEEM	FePt nanoparticles	
2003SC&a	E	A	STXM	organics in clays	
2003SC&b	M	A	SPEM	SiN/Si(111)	
2003SD&	M	A	TXM	Cu interconnects	electromigration
2003SH&	E	A	STXM	colloid functional groups	
2003SL&	M	I	SPEM	Zn/Fe electro-deposition	Instrument at PLS
2003SS&	E	A	XPEEM	mineral intergrowths	
2003ST&	E	A	STXM	soil colloids	
2003TSK	E	A	TXM	Bacteria & soil colloids	tomography
2003TT&	M	A	TXM		Thermo-magnetic recording
2003WA&	P	A	STXM		Application to rubber science
2003WO&	M	A	XPEEM	NO	antiferromagnetic
2003WS&	P	A	STXM, PEEM	PS, PMMA	
2003WT&	M	I	STXM	polyimide	In air, modified TXM design
2003WW&a	M	A	XPEEM	Ni/Co/Ni/Cu(100)	magnetic anisotropy
2003WW&b	M	A	XPEEM	Co/Cu/Ni/Cu(100) , Co/Fe/Ni/Cu(100)	magnetic phase transitions
2003WYJ	M	I	STXM		achromatic Fresnel optics
2003ZG	P, M	A	STXM	PS, PMMA, WS ₂ nanotubes	

code	materials	type	tech	species	Comments
2004A	P	R		many	
2004AB&a	M	A	XPEEM	electron quantum confinement	nanospectroscopy
2004AB&b	M	A	XPEEM	Pd/W(110)	
2004AG&	M	A	SPEM	Au/Si ₃ N ₄ /Si(111) interfaces	
2004AT&	M	A	SPEM	TM nanocrystals in carbon	XPS mapping
2004BL&	E, B	A	STXM	marine particulates	
2004BS&	E	A	STXM	diesel soot	
2004BY&	E	A	STXM	Mn redox states	
2004BZ&	B	A	STXM	Fossil plant cell walls	
2004CA&a	M	A	PEEM(t)	magnetic vortex dynamics	
2004CA&b	M	A	PEEM-(t)	vortex dynamics	
2004CA&c	M	A	SPEM	UV metallization of TiO ₂	Valence band patterning
2004CD&	E	A	PEEM	Polysaccharide templating of Fe nanofibers	
2004CV&	M	A	PEEM	Ag/Si(111)	
2004DF&	B	T	PEEM	Cell surfaces	Ion sputtering depth profile
2004DL&a	M	I	STXM	Cu, CO, CO ₂	in situ gas-solid absorption cell, catalysis
2004DL&b	M	A	TXM	surfactant aggregates	shape control
2004DM&	M	A	SPEM	promoter induced phase segregation	
2004FG&	B	I	PEEM		Sphinx performance
2004FK&a	E	A	STXM	interplanetary dust	
2004FK&b	E	A	STXM	extraterrestrial organics	
2004FKT	M	I	STXM		phosphor detectors
2004FM&	I	T	PEEM	aberration corrector design	
2004FS&	M	A	TXM		magnetic dynamics
2004FW&	M	A	SPEM	Au/Si(111)-H interface	annealing effects
2004GB&	M	I	u-ESCA	48-channel XPS detector	
2004GE&	M	A	SPEM	MoO ₃ on Al ₂ O ₃	gas transport
2004GL	B	A	TXM	cells	cryo-tomo at <50 nm
2004GS&	E	A	STXM	radionuclide migration	
2004HK&	M	A	XPEEM	Co ₂ MnSi Heusler alloy	magnetic tunnel junctions
2004HRH	M	T	TXM		Micro zone plate fabrication
2004IW&	M	A	SPEM	O at Al/organic interfaces	
2004JK&	B	A	TXM	inner ear structures	

code	materials	type	tech	species	Comments
2004KH&	M	A	XPEEM	SiC / Zr	
2004KM&	E	A	STXM	interplanetary dust	
2004KT	M	I	STXM		fast beam shutter
2004LH&	B,E	A	STXM	biofilms	
2004LHK	M	A	XPEEM	Au/Rh(110)	kinetics of lateral spread
2004LJ&	E	T	STXM		cluster analysis
2004LLa	B	A	TXM	Saccharomyces cerevisiae,	cryo tomo
2004LLb	B	A	TXM	Saccharomyces cerevisiae,	cryo tomo
2004M	B,M	A	XPEEM	HSA/PS-PMMA	biomaterials
2004ME&	M	A	TXM	microcontacts	magnetization reversal
2004MG&	M	A	SPEM	O ₂ +H ₂ reaction on Rh(110)	
2004MH&	P	A	PEEM	PS, PMMA, Fg	protein adsorption on polymer blend
2004MR&	E	A	STXM	aerosols	Impact on climate forcing
2004NB&	M	A	PEEM	Antiwear films	
2004NK&	M	A	PEEM	Antiwear films	
2004NN&	M	A	PEEM	Antiwear films	
2004OH&	M	A	STXM		buttressed zone plates - 25 nm outer zone
2004OK&	I,M	T	PEEM(t)	time-of-flight energy analysis	
2004OO&	M	A	XPEEM		colossal magnetoresistance
2004PR&	E	A	STXM	humic acid analysis	
2004PRD	E	A	STXM	groundwater colloids	
2004RH&	M	T	TXM		Condenser zone plate fabrication
2004RPD	E	A	STXM	organics speciation in soils	
2004SJ&	M	A	XPEEM	FeNi films	
2004SL&	M	A	PEEM	AFM exchange spring	
2004SL&b	M	A	XPEEM	FeOx / Al ₂ O ₃	
2004SN	M	A	PEEM	exchange bias – domain size effect	
2004SP&	M	A	TXM		magnetization dynamics
2004ST&	M	A	SPEM	La ₁ =4Pr ₃ =8Ca ₃ =8MnO ₃ Manganite	Detect insulating domains in metallic mtz
2004SW&	M	A	SPEM	valence band of SW carbon nanotubes	
2004SZ&	M	A	XPEEM	MFe ₂ O ₄ (M=Fe, Co, Mn) nanoparticles	
2004TW&	B,E,M	I	STXM		ALS STXM11.0.2 instrument description
2004U	M,P	A	STXM	binary polymer brushes	thesis
2004W	P	A	STXM	BR/BIMS rubbers	

code	materials	type	tech	species	Comments
2004WD&	M	I	STXM		Twinmic Ta zone plates
2004WG&	M, P	A	STXM	PEVA	
2004WK&	M	I	STXM		Twinmic Ta zone plates
2004WW&	M	A	XPEEM	Ni/Fe/Co/Cu(100)	interlayer coupling
2004WW&b	M	A	XPEEM		magnetic stripe domains
2004YJ&	E	A	STXM	Al micro-organisms	
2004ZO&	M	A	XPEEM	polyimide	lithography
2004ZW&	M	A	XPEEM	Cu/Ni/Fe/Cu(001)	spin-reorientation transition
2005AH&	P	A	STXM	Ca alginate; poly N-vinylpyrrolidone	
2005AMS	B	I	TXM		Design principles of water window table top
2005BC&	M	A	SPEM	nanoparticles to nanotubes	catalytic free transformation
2005BE&	M	A	TXM		magnetic imaging, micromagnetic simulations
2005BG&	M	A	XPEEM	patterned double-vortex	
2005BH&	E	A	STXM	diesel soot	TEM-EELS comparison
2005BK&	M	A	XPEEM	exchange-biased Fe/MnPd bilayers	
2005BN&	M	A	SPEM	subsurface O in O/Ru(0001)	
2005BR&	E	A	STXM	Eu(III) adsorb. on smectite	
2005BS&	E	A	STXM	diesel soot	
2005BT&	E	A	STXM	Eu on smectite	
2005BY&	E	A	STXM	Meteoritic Mg-Fe Pyroxene	Bio-weatherin
2005BY&b	M	A	XPEEM	patterned trilayer nanodots	magnetism
2005CH&	M	I	STXM		CXRO zone plate fabrication – 15 nm resolution
2005CS&	P	A	STXM	DVB55, malonic acid, EGDMA	tectocapsules
2005CS&b	E	A	STXM	Cm(III) sorption	
2005DB&	M	A	SPEM	oxid/ reduct of Rh(110)	
2005DC&	M	I	STXM		Optics design
2005DRC	B	A	PEEM	Gd CNT	
2005DSG	E	A	PEEM	biomineralization	
2005FA&	P	A	STXM	P4VP/SiO ₂ microgel particles	pH swellable stimulus response microgels
2005FF&	I	T	PEEM	aberration corrector design	
2005FI&	M	A	TXM	CoCrPt films	magnetization reversal
2005FU	M	A	STXM	linear alkanes	dichroism
2005GFA	E	A	PEEM	biomineralization	

code	materials	type	tech	species	Comments
2005GML	B	A	TXM	Yeast cells (S. Pombe)	tomography
2005GS&	P	I	STXM	polyaniline	in situ electrochemistry
2005GT&	M	A	XPEEM	LaFeO ₃	AFM structure - thermal effects
2005HK&	M	A	STXM	ternary PS/PCHMA/PMMA	
2005HM&	M,E	R	STXM	Polyurethanes, biofilms	review
2005JM&	M	A	TXM	CaCl ₂ in cement	
2005KK&	M	A	TXM		polarization modulation mag. imaging
2005KK&	M	A	TXM		Barkhausen avalanche
2005KS	E	A	STXM	metal transport	
2005LB&	M	R	SPEM, XPEEM	review	
2005LJ&	E	T	STXM		Cluster analysis method
2005LL&	E	A	STXM	black carbon, soil	
2005LS&	M	A	XPEEM	H ₂ +O ₂ on au/Ru(110)	
2005MB&	M	A	SPEM	dark spots on OLEDs	
2005ML&	B	A	STXM	lignin mapping	
2005MP&	P	A	STXM	Polymer resists	
2005NB&	M	A	PEEM	Antiwear films	
2005NN&	M	A	PEEM	Antiwear films	
2005NT&	M	A	STXM	Actinide particles	
2005OK&	M	T	PEEM(t)	XMCD dynamics	
2005PL&	M	A	PEEM	Antiwear films	
2005PM&	M	A	SPEM	Pd/Ni as f(T)	
2005PR&	E	A	STXM	model studies for humics in soil	
2005PS&	M	A	TXM		magnetization dynamics
2005PW&	M	A	STXM	Fe magnetic particles	ferromagnetic eignemode imaging
2005SB&	E	A	STXM	fulvic acids in aquifers	
2005SC&a	B,M	A	SPEM	cysteine on Pt(111)	
2005SC&a	E	A	STXM	humics in soil	
2005SC&b	E	A	STXM	organic soil colloids	
2005SL&	E	A	STXM	organics speciation in soils	
2005SM	M	A	TXM	Cement deterioration	
2005SMb	M	A	TXM	C(3), EVA cements	hydration imaging
2005SMc	M	A	TXM	C(3), EVA cements	hydration imaging
2005SO&	M	R	XPEEM	FM - AFM coupling	

code	materials	type	tech	species	Comments
2005SR&a	M	A	TXM	Electromigration visualization	
2005SR&b	B	A	STXM	Gd compounds	Neutron capture therapy
2005SS&	E,B	R	PEEM	nacre; Fe-OOH template; zircons;	designer peptides for guiding mineralization
2005TF&	E,B	A	STXM	Biogenic MnOx	bacterial
2005TK&	M	A	XPEEM	adhesion layer	
2005TO&	P	A	STXM	PS, PMMA	
2005TR&	M	A	XPEEM	magnetic nanowires	
2005WAA	P	A, T	RSoXS	PS-PMMA	resonant scattering
2005WAA	M	R	RSoXS	Organic thin films	
2005WW&a	M	A	XPEEM	FeMn/Co/Cu(001)	magnetic phase transitions
2005WW&b	M	A	XPEEM	Fe/Ni/Cu(001)	magnetic stripe melting
2005ZS&	M	A	XPEEM	polyimide	lithography
2006A	B,M	R	TXM		nanotomography
2006AA&	P	A	REXS		
2006AA&	M	A	RSoXS	PS & PMMA particles	
2006AC&	M	B	TXM	15 nm bio imaging	
2006AH&	B	A	STXM	melanomas in mouse iris	
2006AS&	M	A	PEEM(t)	quantum magnetism dynamics	
2006BA&	B, E	R,I	STXM	environmental apps.	ALS BL 11.0.2 MES science overview
2006BE&	M	A	TXM	Fe array	magnetic interactions
2006BM&	M	A	STXM	Calcification deposits	Bacterial origin of human calcification
2006BM&b	E	A	STXM	carbonate microbialites	Organic speciation
2006BT&	E	A	STXM	Wild 2 comet analysis	
2006BW&	E	A	STXM	diesel soot	
2006CH&a	M	A	PEEM	polyimide alignment	
2006CH&b	M	A	SPEM	SAM (CH, CF)/Au	Line patterns
2006CP&	M	A	STXM	Coupled permalloy magnets	Vortex switching
2006CR&	P, B	A	STXM	silk	Dichroism mapping
2006CS&	M	I	TXM		interference contrast objective lens
2006CZ&	M	A	SPEM	organic LED degradation	
2006D	E	A	STXM	actinide speciation	
2006DA&	M	A	SPEM	Oxidation of Rh(001)	
2006DL&	B, E	A	STXM	chlorhexidine in biofilms	antimicrobials
2006DR&	B	A	PEEM	Gd neutron capture therapy	

code	materials	type	tech	species	Comments
2006DT&	B, E	A	STXM	Fe, Ni, Mn in biofilms	
2006DZ&	E	A	STXM	zeolites	H ⁺ , Cu ⁺ exchange
2006EO&	M	T	STM-SR	Ni-dots	STM tip current modulation by SR, 20 nm
2006F	M	A,R	TXM		magnetic imaging
2006FB&a	M	A	TXM	Ni ₈₁ Fe ₁₉ /Ru/Co ₉₀ Fe ₁₀	magnetization reversal
2006FB&b	M	A	XPEEM		interface coupling transition
2006FH&a	M	A	STXM	carbon nanotubes	
2006FH&b	B	I	STXM		dark/phase detector (seg. Si photodiode)
2006FK&a	E	A	STXM	extraterrestrial organics	
2006FK&b	M	A,R	TXM		magnetic imaging
2006FK&c	M	A,R	TXM		magnetic dynamics
2006GH&	M	A	SPEM	K 7 K/O on Rh(111)	
2006GM&	M	I	STXM		Twinmic STXM & configurable detector
2006GM&	M	T	STXM	CCD-based segmented detector	
2006GR&	M	A	TXM	Electromigration visualization	
2006HB&	E	A	STXM	black carbon, sediments	
2006HC&	M	A	SPEM	C-H, C-F SAM/Au	XPS of line patterns
2006HH&a	P, B	A	STXM	silk worm cocoon silk	orientation mapping
2006HH&b	I, P, B	A	STXM	spider dragline silk	in situ azimuthal rotation; orientation mapping
2006HH&c	M	A	PEEM	Hexanoic acid; terphenylmethanethiol SAM, pentacene	C 1s spectra & dichroism
2006HLH	M	T	TXM		Optimizing zone plate fabrication
2006HN&	M	A	TXM	Co antidot arrays	magnetization reversal
2006HS&a	M	A	XPEEM	magnetic nanostructures	thermal stability in ion-bombarded samples
2006HS&b	M	A	XPEEM	half-metal Heusler alloys	
2006IT&a	P	A	STXM	toners	
2006IT&b	P	A	STXM	toners	
2006JD&a	B	A	STXM	Tomography - biofilm	First 3d chemical mapping by tomo
2006JD&b	P	A	STXM	Tomography - PS, acrylate spheres	
2006JMG	M	A	TXM	blast furnace slag	hydration
2006KF&	M	A	TXM	CoCrPt multilayer	15 nm XMCD imaging of domains
2006KF&	M	A	TXM		BM elliptical polarization charact.
2006KS&	E	A	STXM	soils	

code	materials	type	tech	species	Comments
2006KS&	M	I	TXM/STXM		Elettra Twinmic description
2006L	B, M	A	XPEEM	HSA/ & Fg / PS-PMMA	biomaterials
2006LA&	M	A, R	XPEEM	review	
2006LH&	P	A	PEEM	PS, PMMA, alb	protein adsorption on polymer blend
2006LH&b	I, M	A	PEEM		CLS PEEM described
2006LK	M	R	SPEM	review	
2006LL&	E	A	STXM	black carbon in sediments	
2006LM&	M	A	XPEEM	periodic surface reactions	
2006MG&	M	I	STXM		CCD system for bright/dark/phase
2006ML&	M	A	RSoXS	SiLK structure	
2006ML&	P	A, T	RSoXS	low K dielectric	resonant scattering
2006MW&a	P	A	STXM	poly(9,9-dioctylfluorene-co-N-(4-butylphenyl)diphenylamine) (TFB) and poly(9,9'-dioctylfluorene-co-benzothiadiazole) (F8BT)	solar cell blend
2006MW&b	P	A	STXM	fullerene-PHT, PCBM composites	reinforcement
2006NP&	E	A	STXM	Eu(II) in humics	
2006NT&	M	R	STXM	actinies	
2006OL&	P	A	STXM	Hydrogen Silsesquioxane Resist	Damage mechansims
2006OS&	M	A	PEEM	exchange bias	
2006OU	M	A	STXM	amino acids	zwitterionic spectral effects
2006PL&	M	A	XPEEM	Tribofilms on steel	Role of cation
2006SA&a	P	A	STXM	PS/PMMA, PC/SN and PMMA/EVA blends with Cloisite 20A or Cloisite 6A	Clay compatibilizers
2006SA&b	E	A	STXM	Wild 2 comet analysis	
2006SC&	E	A	STXM	dissolved organic matter	
2006SM	M	A	TXM	polymers in Portland cement	
2006SR&	B	A	STXM	Motexafin-Gadolinium	
2006SW	M	R	all	Magnetism	spectroscopy & microscopy
2006TC&	M	A	XPEEM	$\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$	magnetic domains
2006TE&	M	A	STXM	tomo of yeast cell	CDI tomography
2006TO&	B	A	TXM	Diatom, latex spheres, NIH 3T3 cells	
2006TVH	B	T	TXM	Diatom, COS-cells	Liquid jet TXM design & performance
2006VL&a	B	T	TXM	Diatom, COS-cells	Liquid jet TXM design & performance

code	materials	type	tech	species	Comments
2006VL&b	M	I	TXM		Twinmic condenser (coherence breaking)
2006WP&	M	A	STXM	vortex dynamics	80 ps time resolution
2006WR&	P	A	PEEM	PE	T-m depends on substrate
2006WS&	M, P	A	STXM	PE	
2006WW&	M	I	TXM-lab	diatom	HHG at 100 eV; 200 nm resolution; 2 eV ΔE
2006YB&	E	A	STXM	Coke, carbon black, soot	
2006ZA&	M	A	STXM	polyethylene	Solid state effects on C 1s spectrum
2006ZS&	M	A	XPEEM	BiFeO ₃ films	electric control of AFM domains
2006ZZ&	E	A	STXM	Wild 2 comet analysis	
2007AB&a	M	A, R	SPEM, XPEEM	review	
2007AB&b	M	A	XPEEM	Mg/W(110)	
2007AC&	M	A	STXM	Permalloy magnetic dynamics	Software for acquisition
2007AL&	M	A	STXM	Fe/Gd multilayers on nanosphere SAM	Magnetization reversal
2007BB&	M	A	XPEEM	MnAs/GaAs	
2007BC&	M	A	XPEEM	CuCr ₂ Se ₄ thin films	
2007BE&	M	I	XPEEM	CoFe Nanoparticle Ensembles	Superferromagnetism
2007BM&	E	A	STXM	submarine basaltic glass	
2007BT&	M	T	TXM		Zone plate testing rig
2007C	M	A	STXM	hydrocarbon-clay mixtures	thesis
2007CK	E	A	STXM	humic acids	
2007CM&	M	A	XPEEM	multiferroics	
2007CO&	M	A	XPEEM		exchange coupling
2007CP&	M	A	STXM	permalloy	Vortex core dynamics
2007CW&a	M	A	XPEEM	Ultrathin Fe/Ni/Cu(001)	magnetic bubble
2007CW&b	M	A	XPEEM	FeMn/Co films / vicinal Cu(001)	
2007DK&	M	A	TXM	Polyelectrolyte capsules	
2007EG&	M,B	R	SPEM, TXM, STXM, IR	Bone, catalysts	Overview of Elettra capabilities as TwinMIC turns on
2007ES&	M	A	XPEEM		pump - probe magnetic dynamics
2007F	M	A	TXM	correlated electron systems	expt-theory integration
2007FA&	P	A	STXM	P4VP-SiO ₂ microgel	
2007FB&a	M	A	STXM	nanotubes	
2007FB&b	M	A	STXM	Actinide spectroscopy	
2007FD&	M	A	STXM	Actinide spectroscopy	

code	materials	type	tech	species	Comments
2007FK&a	M	A	TXM	permalloy	Magnetic dynamics
2007FK&b	M	A	TXM		nanomagnetism
2007FS&	M	A	XPEEM		high electric field-SPM lithography
2007FU	M	A	STXM	n-alkane films	growth (n, T dependence)
2007GD&	M	A	TXM	exchange biased nanocap arrays	magnetization reversal
2007GG&	M	A	SPEM	organic LED degradation	
2007GGL	B	A	TXM	S. pombe yeast	
2007GS&	B	A	TXM	Yeast cells (S. Pombe)	tomography
2007GS&	M	A	XPEEM	Tibology properties on nano-diamond	
2007GS&	M	A	XPEEM		
2007GT&	B,P	A	TXM	dragline spider silk	
2007HFJ	M	T	STXM		Quantitative amplitude & phase imaging
2007HH&	I, P, B	A	STXM	spider dragline silk	orientation mapping
2007HJ&	P, I	A	STXM	Polyacrylate-polystyrene spheres in 3d	Tomography at C 1s edge
2007HJW	B,E,P	R		many	
2007HL&a	P	A	STXM	polyurea – aromatic, aliphatic	capsules
2007HL&b	E	A	STXM	Aerosol balls	correlate optical, chemical, physical props
2007HN&	M	A	TXM	Co antidot arrays	fabrication
2007HT&	E	A	STXM	black carbon & aerosols	
2007HYV	M	T	TXM	Modeling image formation	Phase contrast microscope
2007JT&	P, I	A	STXM	Polyacrylate-polystyrene spheres in 3d	tomography
2007KB&	M	A	STXM	permalloy	Mag. Vortex dynamics
2007KD&a	M, P	A	STXM	Liquid crystal	orientation mapping
2007KD&b	M	A	TXM	Polyelectrolyte assemblies (colloids)	
2007KH	P	A	STXM	smectic liquid crystal	orientation mapping
2007KK&	M	I	STXM, PEEM	CLS 10ID beamline & microscopes	
2007KOC	M	A	XPEEM	Co ₂ Cr _{1-x} Fe _x Al	XMCD
2007KV&	B	A	XPEEM	surface protein layers	X-ray damage
2007LF&	M	A	TXM		magnetic dynamics
2007LHH	M	T	TXM		High resolution ZP manufacture
2007LT&	M	T	TXM		High resolution ZP manufacture
2007MA&	B, M	A	PEEM	nacre (aragonite)	polarization mapping
2007MB&a	M	A	SPEM	LiF damage & patterning	
2007MB&b	M	A	TXM	permalloy	Magnetic dynamics

code	materials	type	tech	species	Comments
2007MS&	M	A	STXM	endohedral Sc ₃ N@C ₊₈₀ and Ce@C ₊₈₂	
2007MT&	E	A	STXM	Soot by laser – aerosol models	
2007MW&	M	A	STXM	Photovoltaic cells	
2007OT&	M	A	STXM	carbon	magnetism
2007PB&	M	A	TXM		disorder induced magnetic memory
2007PL&a	M	A	XPEEM	Tribofilms on steel	
2007PL&b	M	A	XPEEM	Tribofilms on AlSi	
2007PL&b	M	A	XPEEM	ZDDP tribofilms on AlSi	
2007RH&	P, B	A	STXM	silk	orientation mapping
2007SC&a	E	A	STXM	colloid particulates in lake water	
2007SC&b	M	A	STXM		pulses for Xray pump probe
2007SG&a	M	A	XPEEM	Tribology properties on nano-diamond	
2007SG&b	M	T	TXM	diatom	Algorithm for auto-locating Au cols
2007SM	M	A	TXM	Ettringite in Tricalcium Aluminate	
2007SPH	M	T	STXM	wet cell design	
2007SW&	M	A	XPEEM	antase nc on TiO ₂ rutile thin films	
2007TG&	P	A	STXM	phase change microcapsules	first SLS science paper ?
2007TG&a	E	A	STXM	aerosol tar balls	
2007TG&b	E	A	STXM	organic aerosol particles	
2007TOH	M	T	TXM		Phase contrast microscope
2007TS&	B	T	TXM	Diatom, COS-cells	Liquid jet TXM design & performance
2007ULF	P, M	R	STXM, PEEM	orientation mapping	
2007VT&	M	A	RSoXS	Block copolymer films	
2007W	E	A	STXM	organics in soil	thesis
2007WA&	M	R	RSoXS	Organic thin films	
2007WB&	M	A	STXM	Stardust tracks	
2007WS&	P	A	STXM	PMMA, PAN	chemically sensitive patterning
2007WSH	P	A	STXM	PMMA, PAN, PEC, PPC	Tricolor chemically sensitive patterning
2007WT	M	A	STXM	rubbers	filler migration
2007WTT	E	A	STXM	soil	Organic carbon forms
2007ZS&	M	A	XPEEM	multi-ferroics	nanoscale magnetism, XMCD
2008AA&	M	A	STXM	Compare to TEM-EELS	
2008AG&	B	T	STXM	TiO ₂ nanoparticles	Contrast agent tests
2008AH	P	R	STXM		Review of polymer X-ray microscopy

code	materials	type	tech	species	Comments
2008AL&	B	I	STXM	hepatocyte from human liver	Low energy X-ray fluorescence in STXM
2008BB&	M	A	STXM	PFB-F8BT organic solar cell films	Role of solvent
2008BC&	M,E	A	STXM	Natural graphites	Orientation and chemical variation
2008BC&a	M	A	SPEM		lithography
2008BF&	M	A	TXM	magnetic nanowires	
2008BG&	E	A	STXM	Carbonaceous material	FIB damage
2008BH&a	M, B	A	PEEM	HSA, sub-6 peptide competitive adsorption on PS/PMMA	
2008BH&b	M	T	TXM		Differential interference contrast microscope
2008BH&c	E, B	A	STXM	Aerosol particles	Distinguishing woodsmoke & diesel exhaust
2008BK&	M	A	TXM	domain wall oscillations	magnetic dynamics
2008BM&a	E	A	STXM	Nanoscale arsenic	
2008BM&b	M	A	STXM	permalloy	Mag. Vortex dynamics
2008BT&	E	A	STXM	stardust	
2008BU&	M	T	STXM	Silver corrosion	Technique demonstration
2008CA&a	E	A	STXM	Comet Wild 2 particles	
2008CA&b	E	A	STXM	chondric meteorites	
2008CC&	M	A	XPEEM		STM & PEEM
2008CL&	M	A	PEEM	Langmuir-Blodgett films	Phase segregation, SEEM contrast
2008CM&	M	A	XPEEM	magnetolectric multiferroic	electric field control
2008CR&	M	A	XPEEM		
2008CW&	M	A	STXM	permalloy	Magnetic dynamics, vortex switching
2008DF&	E	A	STXM	Elemental carbon	
2008DL&	E	A	STXM	Chlorhexidine – antimicrobial maps	
2008DSE	E	A	STXM	Renazzo CR chondrite	
2008DV&	M	A	STXM	uranium carbide	
2008EGG	B	A	TXM	contact elements of insect attachment	
2008EU&	M	A	STXM	Co/Pt ML nanospheres	Spin reorientation dynamics
2008F	M	A,R	TXM		magnetic dynamics
2008FK&	M	A	TXM	Permalloy	Vortex dynamics
2008FT&	M	A	STXM	Gas filled PVA microballoons	
2008GF&	B,E	A	STXM		Biom mineralization by bacteria
2008GFK	M	A	PEEM	Polyaniline/steel	Corrosion protection
2008GG&	M	A	XPEEM	Co on Au(455)	

code	materials	type	tech	species	Comments
2008GK&	M	A	XPEEM	Diamond film	Low friction mechanism
2008GM&	B, M	A	STXM	Au nanoparticles in skin	
2008GS&	E	A	STXM	Stardust	
2008HB&	M	T	TXM	Test structure	Simple Zernicke phase contrast
2008HBV	M	T	TXM		Differential interference contrast optic
2008HD&	P, M	A	STXM	Acrylate/PS microsphere tomo; PET radiation damage	comparison of STXM-NEXAFS and TEM-EELS
2008HD&b	E	A	STXM	Cloud droplets	
2008HG&a	M	A	TXM	perpendicular anisotropy films	domain nucleation
2008HG&b	M	A	TXM	perpendicular anisotropy films	H, T induced nucleation
2008HH	P	R	STXM, PEEM	comprehensive polymer review	Contains this biblio as supplement
2008HH&	E	A	STXM	<i>Pseudomonas Aeruginosa</i> & iron	
2008HJ&	M	A,T	STXM	Latex PS, p-MMA microspheres	tomography
2008HL&	M	A	XPEEM		Magnetic tunnel junctions
2008HT&	M	A	PEEM	Fluorocarbon / Ti stent	Reliability analysis
2008II&	M	A	TXM	arrival time	random walk magnetic domain formation
2008IK&	M	A	TXM		magnetic domain formation
2008JV&	M	I	TXM		Condenser design
2008KG&	M	A	XPEEM	ultrananocrystalline diamond	origin of low friction
2008KO&	M	A	TXM		standing wave XPS in XM1
2008KW&	M	A	STXM	Water particulate matter	Quantification (size, chemistry)
2008LB&	M, B	A	XPEEM	Alb on PS/PMMA	pH effect
2008LG&a	P	A	STXM	RuO ₂ in Nafion fuel cell membrane	
2008LG&b	M	A	XPEEM	NiCo/(Ni, Co)O Bilayers	
2008LH&	P,B	A	PEEM	Peptide (sub-6) vs. protein (albumin) competitive adsorption on PS/PMMA	Natural NEXAFS contrast
2008LK&	M	A	TXM	magnetic nanodots	universal criterion for switching
2008LM&	E	A	STXM	Asian atmospheric aerosols	
2008LR&	M	A,I	X-SNOM	ZnO	ESRF implementation of tip detection of XAS
2008LS&	E	A	STXM	soil organics	
2008MC&	M	A	XPEEM	multi-ferroics	
2008MC&b	M	A	XPEEM	BiFeO ₃ Thin Film	exchange bias
2008MD&	E	A	STXM	Atmospheric aerosols - metals	
2008MH&a	M	A	TXM	[Pt/Co] _{xn} /TbFe	magnetic imaging

code	materials	type	tech	species	Comments
2008MH&b	M	A	TXM	[Pt /Co]xn/TbFe	magnetic imaging
2008MK&	E	A	STXM	Aragonite in abalone nacre	Polarization; growth mechanism
2008ML&	E	A	STXM	framboidal pyrite	Formation inside bacteria
2008MM&	E	A	STXM	Ferrihydrite & polysaccharides	Alginate, xanthan spectra; multi-technique
2008MT&a	M	A	TXM	Soil colloids	
2008MT&b	E	A	STXM	Framboidal pyrite in biofilm	
2008MW&	M	A	STXM	polyfluorene blends	Photovoltaic optimization
2008MZ&	E	A	STXM	Aragonite in abalone nacre	Polarization; growth mechanism
2008NH&	M	A	STXM	Multi-wall carbon nanotubes	Dichroism; quality evaluation (AD, vs, CVD)
2008NM&	B	A	STXM	Lipid membranes (solid supported)	
2008O	M	A	STXM	organics	thesis
2008PM&a	B	A	TXM	Tomography with NCXT	
2008PM&b	B	A	TXM	eukaryotic cells	quantitative tomography
2008PP&	M	A	PEEM	graphene	1-5 layer NEXAFS
2008PT&	M	A	STXM	Fe nanoparticles	surface oxidation
2008RB&	M	I,A	DIXH	PS and Fe ₃ O ₄ spheres	First chemical (elemental) contrast
2008RT&	M	I	STXM	Pt-Ir-Co film - XMCD, TCNQ - XLD	PoLux BL & STXM description
2008SC&	M	A	STXM		spin-torque magnetization reversal
2008SRW	M	I	TXM		Zone plate fabrication
2008SS&a	M	A	STXM	Fe-oxide catalyst	In situ, H ₂ , 1 atm, T to 450 C
2008SS&b	E	A	XPEEM	mineral intergrowths	
2008TG&a	M	A	STXM	Phase change microcapsules	
2008TG&b	E	R	TXM		
2008TG&c	M	A	STXM	N ₂ filled PVA balloons in water	
2008TGR	E	A	STXM	Atmospheric aerosols	
2008TS&	E	AR	TXM		enviro applications
2008ULF	M	R	STXM, PEEM	Dichroic measurements	
2008VB&	M	A	STXM	permalloy	Mag. Vortex dynamics
2008VJ&	M	I	STXM/TXM		high heat load Si zone plates
2008W	M	A	STXM	PMMA, PAN, PS, Fg, PEC	Lithography, chemically selective patterns
2008WA	M	A	STXM	graphite	polarization calibration
2008Wb	M	A	STXM	RSoXS of polymer films (PV)	thesis
2008WL&	M	A	SPEM	Wurtzite InN/GaN Heterojunction	
2008WL&b	M	A	SPEM	InN	

code	materials	type	tech	species	Comments
2008WS&	M	A	XPEEM	Kagome lattice	magnetic reversal
2008YA&	E	A	STXM	kerogen in sediments	
2008ZG&	M	A	TXM	Semiconductor circuits	
2008ZM&	M	A	STXM	Biogenic aragonite	C 1s spectroscopy & pol. Dep.
2008ZYS	M	A	TXM	Semiconductor circuits	non-destructive imaging
2009AK&	M, B	I	STXM	NIST 2783 particulates, hepatocytes	Low energy X-ray fluorescence in STXM
2009AS	M, P	R	STXM	Magnetic & polymer applications	review
2009AS&	M	A	STXM	Metal-carboxylates	C 1s spectroscopy & calc
2009AW&	M	A	STXM	Polymer solar cells	Predicts hard X-rays will win out
2009AW&	P	A	SXoXS	Polymer trilayers	
2009BB&a	M	I	TXM	design	Colorado State; EUV HH-laser
2009BB&b	P	A	STXM	Ternary blend organic solar cells	
2009BB&c	B	A	STXM	sporopollen	Related to coalification & palaeobotany
2009BB&d	M	A	STXM	ternary blend PV	solvent trapping
2009BH&	B	A	TXM	Diatom, soil particles	Stockholm compact lab-TXM
2009BK&	E	A	STXM	Soot particles	Radiation damage in EELS
2009BN&	E	A	STXM	Primitive dust particles in space	
2009BN&b	M	A	XPEEM	AFM-FM-AFM trilayers	
2009BS&	M	A	XPEEM	Fe-Co-O	
2009BU&b	M	A	STXM	Ag corrosion by chloride	In situ electrochemistry
2009CB&	B	A	STXM	Polysaccharides, lignin, cellulose	Plant cell wall analysis
2009CC&	B	A	TXM	Vaccinia Virus	tomography
2009CF&	E	A	STXM	Fe-oxyhydride mineralization	on polysaccharides
2009CH&	E	A	STXM	Hydrocarbon, clay	Oil sands issues
2009CH&b	M	A	SPEM	Ti-Zr-V Getter Films	
2009CK&a	M	I	TXM		12 nm resolution
2009CK&b	M	I	TXM	HSQ resist for 12 nm ZP	
2009CM&	M	A	XPEEM		Magnetic dots
2009CP	M	A	PEEM	pyrite	Surface oxidation
2009CS&	M	A	STXM	Spin torque switching	Magnetic dynamics
2009DD&	M	A	STXM	Actinide spectroscopy	
2009DH&	M	A	SPEM	Ta2O5 nanorod arrays	
2009DH&a	M	A	TXM	Co/Pt ML	high field irreversibility
2009DH&b	M	A	TXM	Co/Pt ML	stripe domain formation

code	materials	type	tech	species	Comments
2009DL&a	E	A	STXM	Chlorhexidine – antimicrobial maps	
2009DL&b	M	A	STXM	manganese oxide np	
2009DT&	E	A	STXM	Organics in aerosols	
2009FD&	P	A	STXM	Poly(2-vinylpyridine) microgels	pH, electrolyte; wet cell
2009GA&	E	A	STXM	Carbonaceous nanoglobules	meteorites
2009GK&a	M	I	STXM		Low energy X-ray fluorescence in STXM
2009GK&b	M, B	I	STXM	Star pattern, hepatocytes	Low energy X-ray fluorescence in STXM
2009GM&	E	A	XPEEM	Aragonite in abalone nacre	Ordering kinetics
2009GS&a	E	I	TXM	soils	Stereoscopic methods
2009GS&b	E	A	STXM	Organic matter in comets	
2009GT&	E	A	TXM	Haematite; clay suspensions	Stereo imaging
2009HB&a	M	I	TXM	design	Stockholm compact lab-TXM
2009HB&b	M	I	TXM	phase contrast ZP optics	Stockholm compact lab-TXM – phase contrast
2009HB&c	B,M	R	STXM, CDI	Expect to limit at 10 nm	Radiation damage limitations
2009HC&	M	A	SPEM	ALD Al ₂ O ₃ and HfO ₂ on In _x Ga _{1-x} As	Band structure
2009HD&	B,E	A	STXM	Ni, Mn, Fe in Ni-loaded biofilm	co-localized metals
2009HG&	M, B	I	TXM	TiO ₂ particles; cell;	First real spectroscopy in TXM
2009HK&	M	A	TXM	Ca(OH) ₂ crystal formation	cements
2009HM&	M	A	SPEM	Re _{0.7} Ca _{0.3} MnO ₃ Epitaxial Films	
2009HS&	M	T	STXM	Dealing with absorption saturation	Ca compounds
2009HSH	M	I	TXM	design	Energetiq Technology, Inc.
2009IB&	M	A	TXM	magnetic nanowires	stochastic domain-wall depinning
2009IF&	M	A	TXM		Barkhausen avalanches
2009JS&	M	A	TXM		coupled magnetic vortices
2009KG&	B	A	STXM	Aleurone cells, bio applications	Low energy X-ray fluorescence in STXM
2009KI&	M	I	STXM	Mirror characterization	
2009KJ	R	R	all		history of X-ray Microscopy
2009KL&	M	A	SPEM	GaN p-n Junction	Cross-section SPEM
2009KM&	B,E	A	XPEEM	Calcite sea urchin tooth	orientation
2009LB&	B	A	STXM	Organics in 2.9 Gy stromalites	Biogeo, compare to STEM-EELS
2009LC&a	M	A	SPEM	SAMs	Chemical patterning
2009LC&b	M	A	XPEEM	Exchange-biased NiFe/Mn Bilayers	
2009LH&a	P	A	STXM	Polyurea capsules	Gradient mapping, mechanisms

code	materials	type	tech	species	Comments
2009LH&b	P	A	XPEEM	PS-PLA blends	Comp to AFM
2009LH&c	M	A	SPEM	Ti-Zr-V Getter Films	
2009LK&	M	A	SPEM	Epitaxial Si ₃ N ₄ /Si(111)	
2009LM&	E	A	STXM	aerosols	
2009LM&	B	I	TXM	Yeast cells (S. Pombe)	Light microscopy & tomo complement
2009LP&	B	A	STXM	Spider silk – beta sheet orientation –	effect of water
2009LP&	B, P	A	STXM	N. clavipes silk	effect of humidity on alignment
2009LT&	E	A	STXM	aerosols	
2009LW&	B,M	A	XPEEM	HSA adsorbed to PS-PLA	
2009LW&a	B	A	XPEEM	Albumin on PS-PLA	
2009LW&b	B	A	STXM	Albumin on PS-PMMA	
2009LW&c	B,M	A	XPEEM	HSA adsorbed to Poly-lactide, PS blend	
2009MA&	B	A	XPEEM	Sea urchin teeth	Dichroic mapping
2009MB&	E,B	A	STXM	Fe-metabolizing bacteria	
2009MB&a	B,E	A	STXM	Iron biomineralization	Anoxic studies
2009MB&b	B,E	A	STXM	Vivianite reduction by bacteria	
2009MG&	B	A,R	TXM		Cro-TXM & cryo-CLSM
2009MGK	M	I	STXM	PS microspheres (test object)	Image reconstruction (toward ptychography)
2009MH&	E	A	STXM	Aerosols in Mexico city	
2009MJ&	M	A	STXM	PP /Montmorillonite Nanocomposites	
2009MK&	M	A	STXM	(CpSiMe ₃) ₃ M-ECp* (M = Nd, U; E = Al, Ga; Cp* = C ₅ Me ₅)	Actinide structure by STXM spectroscopy
2009ML&a	B	I	TXM	Yeast cells (S. Pombe)	tomography
2009MM&a	M	A	TXM	lateral spin valves	magnetic imaging
2009MM&b	M	A	XPEEM	NiO (001)	
2009MP&	B	A	STXM	wood	
2009MT&	E	A	STXM	Pyrite in biofilm	
2009NA&	E	A	STXM	Stardust	
2009NH&	M	A	STXM	Defects in MW-CNTs	
2009NS&	E	A	STXM	S-metabolizing - syntrophic	
2009OD&	E	A	STXM	Biomineralization – calcite & bacteria	
2009OKU	M	A	STXM	ferrocene and related compounds	
2009OL&	M	A	XPEEM	Co/NiO(001) interfaces	
2009OWHa	E	A	STXM	Calcite biomineralization in	Grid tomography

code	materials	type	tech	species	Comments
				cyanobacteria	
2009OWHb	E	A	STXM	Calcite biomineralization in cyanobacteria	Grid tomography
2009PR&	E	A	STXM	Eu-humic acid complexes	
2009QU&	M	A	XPEEM	Palmitic & Perfluorooctadecanoic Acid	phase segregation, LB films
2009RR&	M	I	TXM		Higher order ZP focusing
2009RS&	B	I	DIXH	diatom	Fs coherent imaging at 140 eV
2009RY&	M	A	XPEEM	BiFeO ₃ Thin Film	electric control of magnetism
2009SA&	E	A	STXM	Stardust	
2009SB&	M	I	TXM	design	Accel: Electric discharge source
2009SC	M	I	TXM	Test patterns	Hefei NSRL instrument
2009SS&	M	A	STXM	Fischer Torpsch catalyst (Fe)	in situ operation (, H ₂ , 1 atm, T to 450 C)
2009SW&	P	A	RSoXS	polymers	
2009SW&	M	R	RSoXS	Polymer tri-layers	
2009SY&	M	A	XPEEM	TiO ₂ memresistors	
2009TF&	M	A	STXM	Gas filled PVA microballoons	
2009TF&b	E	A	STXM	Fe(II) in carbonmatrices	
2009TI&	B	A	TXM	Plankton in Lake Biwa (eutrophic)	COD, BOD
2009TS&	E	A	TXM	soils	Stockholm compact lab-TXM
2009UM&	B	A	TXM	<i>Candida albicans</i>	Fungae tomography
2009VC&	M	A	STXM	permalloy vortex	core deformation
2009WA&	M	A	RSoXS	Solar cell interfaces	
2009WB&a	P	A	STXM	Rad. Dmg in PET	Comp. to TEM-EELS
2009WB&b	M	A	STXM	P3HT:PCBM blend films	Solar cells
2009WC&	M	A	XPEEM	(Fe/Ni)/Cu/Ni/Cu(001)	stripe to bubble
2009WG&	P	A	STXM	Conjugated Polymer Bilayers	Interfacial widths
2009WL&	M	A	SPEM	Alkane-thiol SAM	+ve and -ve resist patterning
2009WM&	P	A,T	PEEM, STXM	PS, PMMA, Fg	radiation damage
2009WR&	M	I	TXM		Stacked zone plates
2009WV&	M	A	STXM	permalloy	Vortex core dynamics
2009YC&	E	A	STXM	early solar system history by STXM	
2009YT&a	B	A	TXM	chromosomes	
2009YT&b	B	A	TXM	Immuno-labelled cells	
2009ZH&a	M	A	TXM	Electronic interconnects	

code	materials	type	tech	species	Comments
2009ZH&b	M	A	TXM	Copper interconnects	
2010AE&	M	A	STXM	FeGd ML on nanospheres	
2010AH&	M	A	XPEEM	Pentlandite, Pyrrhotite, Chalcopyrite	compared to TOF-SIMS
2010AH&	E	A	XPEEM	Pentlandite, Pyrrhotite & Chalcopyrite	
2010AL&	M	A	STXM	Nanosphere magnets	out-of-plane magnetized
2010AL&	M	A	STXM	Fe/Gd multilayers on nanosphere SAM	Out of plane magnetization
2010BA&	E, B	A	XPEEM	Calcium-organic composites	Paleobotany, coal formation
2010BB&	E	A	STXM	Fossils in pyrite	Organic residues
2010BC&a	M	A	STXM	La ₂ U ₂ Se ₉	
2010BC&b	M	A	XPEEM	CoFe/Al ₂ O ₃ multilayers	
2010BF&	M	A	TXM	domain wall injection	
2010BG&	M	A	STXM	Metal corrosion of nafion in fuel cell	In situ electrochemistry
2010BK&	M	A	TXM	domain wall oscillations	magnetic dynamics
2010BM&	E	A	STXM	phototrophic iron-oxidizing bacterium	Fe biomineralization
2010BR&a	M	A	STXM		Magnetic imaging & dynamics
2010BR&b	M	A	STXM	foraminiferal calcite	Mg co-odination
2010BRP	E	A	STXM	Soot particles	
2010BRP	E	A	STXM	aerosol analysis	
2010BS&	M	A	TXM	superparamagnetic Fe beads	
2010BV&	M	A	STXM	pentacene	In a FET
2010BV&a	M	A	STXM	Pentacene FET	Grain orientation
2010BV&b	M	A	STXM	Pentacene FET	Grain orientation
2010BW&	P, B	A	STXM, PEEM	PEO, albumin adsorption	
2010BY&	M	A	STXM	NaReO ₄ – O 1s spectrum	FY, TEY, I-t (STXM) comparison
2010C	M	A	STXM	Si based photoresists	thesis
2010CF&	E	A	STXM	Iron oxidizing bacteria M. ferrooxydans	Polysaccharides in stalks
2010CG	E	A	XPEEM	pyrite	Oxidation & weathering
2010CG&	P	A	STXM	Polymer-fullerene (organic solar cell)	Miscibility
2010CH&	P	A	PEEM	Fluorocarbon coatings on implants	
2010CH&b	M	A	XPEEM	Co-Pentacene	
2010CK&	P	A	STXM	HSQ	Radiation damage spreading
2010CL&	M	A	XPEEM	spinel thin films	
2010DA&	M	A	SPEM	Pt on Gas Diffusion Layer	PEM-FC
2010DL&	M	I	SPEM		Elettra SPEM (3.2L) beamline

code	materials	type	tech	species	Comments
2010DS&	E	A	STXM	organics in Comet 81P/Wild 2	
2010Fa	M	R	TXM	(Co _x Cy _y) _z , permalloy	Spin dynamics
2010Fb	M	A,R	TXM		magnetic dynamics
2010FG&a	M	A	STXM	Defects mapping in carbon nanotubes	
2010FG&b	M	A	STXM	Uranyl compound spectroscopy	
2010FI	M	A	TXM		magnetic dynamics
2010FR&	M	A	XPEEM		Neel caps, Q-dots, Asym. hysteresis
2010G	M	R	TXM, STXM		Nanoscience applications review
2010GK&	M	A	TXM	Co microdot arrays	standing wave XPS in TXM
2010GN&	E	A	STXM	Organic nanoglobules	
2010GS&	M	R, A	STXM	Fe catalysts	In situ; review comparing to TEM-EELS
2010GS&b	M	A	STXM	actinides	
2010GT	E	A	STXM	Aerosol particles	Hygroscopic effects
2010HB&	P, M	A	STXM	pentacene based P-FET	In situ operating device
2010HB&a	M	A	TXM	planar magnetic nanowires	pinning
2010HB&b	M	A	TXM	Ni ₈₀ Fe ₂₀ planar nanowires	
2010HC&a	E	A	STXM	Carbonated Calcium Silicate Hydrate	
2010HC&b	M	A	XPEEM	Strained Nd _{1-x} Ca _x MnO ₃ Thin Film	
2010HO&	E	A	STXM	Acidovorax cells As / Fe	As binding mechanisms
2010HR	E	A	STXM	Classification of aerosol organics	
2010HS&	M	A	SPEM	Pt/MgO/Pt Nonvolatile Memory Device	
2010HT&	E,B	A	STXM	Acidovorax cells As / Fe	X-ray fluorescence yield stacks
2010HW&	M	I	STXM		Electron yield detection
2010HWO	E	A	STXM	CaCO ₃ S. leopolensis Biomineralization	STXM spectro-tomography
2010JR&	M	A	XPEEM	GaAs nanowires	
2010JY&	M	A	TXM	coupled vortice	mag dynamics, 70 ps, 20 nm resolution
2010KA&	M	I	STXM		Stxm5321 design
2010KB&	M	A	STXM	Pentacene, per-F-pentacene on PEN	Crystal ordering in thin films
2010KK&	M, B	A	XPEEM	protein-metal composites	X-ray damage
2010KM&	M	A	STXM		Magnetic dynamics: pulsed chirality reversal
2010KN&	E	A	STXM	biochar	
2010KW&	E	A	STXM	Ice formation on anthropogenic NP	
2010La	B	A	STXM	MV-1 MTB, MMP	XMCD of single magnetosomes
2010Lb	B,M	A	XPEEM	HSA PS-PMMA-b-PAA, HSA / PS-	Protein-polymer interactions

code	materials	type	tech	species	Comments
				PMMA-b-PAA, HSA/PS-PLA; Ubq/PEO-ppAA,	
2010LBH	R, P	A	XPEEM, STXM	HSA, Fg, peptides adsorbed on : PS/PMMA, PS/PEO, PS/PLA	Protein – polymer adsorption in context of biomaterials
2010Lc	M	A	STXM	Aromatic, aliphatic	Microcapsule synthesis methods
2010Lc	M	A	STXM	microcapsules	thesis
2010LH&a	B,E	A	STXM	MV-1 magnetotactic bacteria	XMCD of individual magnetosomes
2010LH&b	P, B	A	PEEM	PEO, albumin adsorption	
2010LHS	P	A	STXM	Polymer capsules	
2010LN	B	A,R	TXM		Sub-cellular imaging
2010LS	E	R	STXM	soils	spectroscopy
2010LS&	M	A	TXM	nanostructured sulfated zirconias	
2010LT&	M, P	A	PEEM	Fluorocarbon coatings on stainless steel	
2010LW&a	P	A	PEEM	Cross-linked PEO	PETA at levels >5% destroys protein repellancy
2010LW&b	B,P	A	XPEEM	HSA adsorbed to PS-PEO(x-link)	
2010Ma	E,M	R	PEEM, SPEM	Ge/Au; SnO2 nanowires, Co np, abalone	Rules for efficient spectromicroscopy
2010MA&	P	A	STXM	Ferroelectric polymers	
2010Mb	M	A	STXM	Actinide materials	Technique comparison
2010MB&	M	A	XPEEM		Magnetic exchange coupling
2010ME&	B,E	A	XPEEM	Protein template to aragonite in nacre	biomineralization
2010MG&	B	I, T	CXDI, FTH, DIXH	diatom	Fs coherent imaging at 140 eV
2010MH&a	M	A	STXM	Aerosol particles	Automated analysis
2010MH&b	E	A	STXM	carbonaceous aerosol particle	Mexico city
2010MJ&	P	A	STXM	PP/MMT/SEBS polymer nanocomposite	
2010MK&	M	I	STXM		Ptychography set-up
2010MN&	E	A	STXM	aerosols	
2010MT&a	B,E	A	XPEEM	asp2 peptide in calcite (CaCO3)	biomineralization
2010MT&b	E	A	STXM	aerosols	
2010MT&c	E	A	STXM	aerosols	
2010MTG	E	A	STXM	aerosols	
2010MU&	M	A	TXM	vortex core imaging	
2010NH&	M	A	CDI-tomo	Yeast cells	tomography

code	materials	type	tech	species	Comments
2010NK&	E	R	STXM		Soil organic-mineral interactions
2010NM&a	B,E	R	STXM	Bacterial biofilms	Compare to LSCM, nmr
2010NM&b	E	A	STXM	Artificial cometary ice	
2010NW&	M	A	STXM	SW-CNT; dodecyl-functionalization	Dichroism of SWCNT like that in MWCNT
2010O	M	R	XPEEM	antiferromagnetic domains	
2010OB&	M	A	XPEEM	graphene	Nano magnetic vortices
2010OR&	M	R	XPEEM	Time & energy- resolved PEEM	108 ps time resolution, xmed dynamics; use for chromatic aberration correction
2010PG&	E	A	STXM	Graphite in quartz-pyroxene	
2010PR&	E	A	STXM	Eu(III) – humic acid aggregates	Luminescence yield correlated; calculations
2010PT&	E	A	STXM	Playa salts – nucleating clouds	
2010RD&	E	A	STXM	Cloud droplets	
2010RF&	B,E	A	STXM	Amorphous CaCO ₃	
2010RH&	E	A	STXM	Particles in ocean bubble bursts	
2010RL	E	A	STXM	roots	Nutrient flow
2010SD&	M, E	A	STXM	Organics in meteorites	
2010SG&	B	A, I	TXM	mouse adenocarcinoma cells	First tissue tomo by TXM, 70 nm resolution
2010SG&b	E	A	STXM	Meteorite inclusions	
2010SK&a	M	A	TR-PEEM	In Co/Cr/Fe(0 0 1) pads	Vortex motion
2010SK&b	M	A	TXM	permalloy	magnetic dynamics
2010SM&	M	I	PEEM		Optics – 4 nm in LEEM
2010SP&	M	A	STXM	Memresistive device	Identify functional channels
2010SR&a	M	I	SP-STXM	Scanning probe enhanced STXM	Instrument description
2010SR&b	E	A	STXM	Organic aerosol particles	
2010SR&c	M	I	TXM		High efficiency zone plates
2010SS&a	M	A	TXM	SmCo ₅ /Fe nanocomposite bilayers	layer resolved magnetism
2010SS&b	M,G	A	XPEEM	Santa Catarina meteorite	
2010SW&a	M	A	STXM	N in fuel cell membranes	
2010SW&b	M	A	RSoXS	Heterojunction photovoltaics	
2010TC	M	R	STXM	Permalloy vortices; spin valves	Magnetization dynamics
2010TG&	E	A	TXM	Nanoparticles in water	
2010TH&	E	A	STXM	carboxylic acids in aerosols	
2010TLR	E	A	STXM	Carboxylic acids - aerosols	
2010TP&	M	A	STXM	lyotropic chromonic liquid crystals	Effect of additives

code	materials	type	tech	species	Comments
2010TS&	B	R	TXM, STXM	Soil	Review of soil & environmental apps.
2010TV&	M	A	XPEEM	direct write Ge nanostructures	
2010UP&	M	A	XPEEM		Spin valve nanowires
2010VW&	M	A	TXM		domain wall pinning
2010W&	M	I	RSoXS		ALS 11.0.1 instrument
2010WC&	M	A	STXM	Montmorillonite exchange $\text{Na}^+/\text{NH}_4^+$	
2010WM	M	A	STXM	PS-PMMA; polyfluorene	TEY, transmission
2010WR&	M	I	TXM	15 nm Zone plate development	
2010WS&b	M	A	XPEEM		
2010WZ&	P	A	STXM	PE orientation	
2010YA&	E	A	STXM	Organics in meteorites	
2010YS&	M	A	RSoXS		Organic PV materials
2010YW&	M, P	A	STXM	Organic photovoltaics	Interface roughness / annealing
2010ZG&	M	I	CDI	Differential holography encoding	
2010ZW&a	M	A	STXM	N in carbon nanotubes	
2010ZW&b	M	A	STXM	RuO ₂ /CNT sensors	
2011AH&	M	A	SPEM	Metal sulfide minerals	
2011B	M	A	STXM	organic PV	thesis
2011BA&	M	A	SPEM		
2011BB&a	M	A	STXM	Magnetic nanopillar	Spin torque switching
2011BB&b	M	A	XPEEM	a-Fe ₂ O ₃	AFM domain structure
2011BC&	M	A	STXM	Uranium selenides	
2011BG&	M	A	STXM	Ni corrosion in ionic liquid	XRF and in situ electrochem
2011BH&a	E	A	STXM	Organics in shale	
2011BH&b	M	A	STXM		Surface-sensitive TEY
2011BM&a	E	A	STXM	coral	Dichroic mapping
2011BM&b	M	A	STXM	Fuel cells	In situ electrochem; XRF
2011BS&	M	A	ptycho	PMMA, SiO ₂	first spectro-ptycho
2011BS&a	M	A	STXM	Mapping gas & liquid water in fuel cells	
2011BS&b	M	A	STXM	PFB-F8BT organic solar cell films	Composition & morphology
2011BS&c	M	A	ptycho	PMMA, SiO ₂	O 1s phase and amplitude contrast
2011BT&	M	A	STXM	SOFC interconnects	
2011CB&	M	A	STXM	MEH-PPV:Porphyrin:PCBM solar cells	
2011CC&	E,B	A	STXM	Fe biomineralization	

code	materials	type	tech	species	Comments
2011CG&	E	A	STXM	Chitin-protein complexes	
2011CH&	M	A	XPEEM		SEEM in energy filtered XPEEM
2011CH&b	E	A	STXM		chondritic and cometary organic solids
2011CL&	M	A	STXM	Silole- PSBTBT-08 fullerene PV	
2011CR&	M	A	SPEM	Au/ZnO nanorod photocatalysts	
2011CS&	M	A	STXM		Fe film ion-beam patterning
2011CT&	M	A	STXM	P3HT:PCBM PV	morphology
2011CTA	M	A	RSoXS		Organic solar cells
2011DG&	M	A	SPEM	high O SiO _x protrusions on SiO ₂	
2011DQ&	B	A	TXM	myelinated axon	TXM tomo coupled to ESRF XRF-STXM
2011DV&	M	A	STXM	Co in cement	
2011F	M	A	TXM		magnetic dynamics
2011FI&	M	A	TXM	NiFe	vortex core visualization
2011FJ&	R	I, A	STXM, ptycho		review
2011GB&	M	A	TXM	TiO ₂ nano ribbons	First TXM spectromicroscopy, dichroism
2011GB&b	B	A	ptycho	diatom	water window ptycho demo-ed, 50 nm res.
2011GK&	M	A	STXM	Fe – Au galvanic couple	in situ Electrochem
2011GLT	M	A	STXM	Malonic acid particles	Keto-enol tautomerism
2011GS&	E	A	STXM	stardust	
2011GW	B	R	XPEEM		Biomineralization review
2011GYC	M	A	XPEEM	Mollusk calcite	C 1s Linear dichroism
2011H	M	A	STXM	block copolymers - Li batt	thesis
2011HB&	E	A	STXM	Organics in Tagish lake meteorite	
2011HF&	M	A	STXM	GaN nanowires	
2011HK&	B	A	TXM	Malaria parasite, <i>P. falciparum</i>	
2011HM&	M	A	STXM	Anticontamination N ₂ trap	
2011HZ&	M	I	STXM		In situ (T, RH) cell (-40C to 50 C, full RH)
2011IW&	B	A	STXM	Latarcin A antimicrobial peptide	
2011JL&	M	A	TXM	vortex gyration	tunable E-transfer
2011K	M	A	XPEEM	FeNi	magnetic imaging
2011KB&	M	T	STXM	Magnetic materials	Lock-in methods
2011KC&a	M	A	SPEM	InN/GaN/AlN Nanorod Heterojunctions	
2011KC&b	M	A	SPEM	II-nitrides	Spontaneous polarization-induced asymmetry
2011KD&a	M	T	SPEM	Graphene windows allow liquid PES	

code	materials	type	tech	species	Comments
2011KD&b	E, M	A	TXM	C(3)A cement	
2011KL&	M	A	SPEM	InN	charging
2011KM&a	B,M	A	PEEM	Sea urchin teeth	Sharpening mechanism
2011KM&b	M	A	STXM	permalloy	Magnetic dynamics; antivortex
2011KN&	E	A	STXM	Organics in soil	
2011KT&	R	I, A	STXM, ptycho		review
2011LD&b	E	A	STXM		Aerosols from burning
2011LH&	B	A	STXM	Anoplin (antimicrobial-peptide)	Lipid interactions
2011LHa	P	A	STXM	PMMA	Source of 'damage spreading' is PSF
2011LHb	E	R	STXM	chlorhexidine	Organic contaminants in environment
2011LHc	T	T	STXM	PMMA	point spread function mapping at 3 STXMs
2011LM&a	P	A	STXM	polyurea microcapsules	Surface modification for triggered release
2011LM&b	B	A	XPEEM	Rat tendon collagen	C 1s Linear dichroism
2011LR&	M	A	STXM	Monopole magnetic defects	
2011LS&	M	A	SPEM	1-dodecanethiol/ Si	SAM
2011MC&	B	A	STXM	CoFe particles in fibroblasts	XRF mapping
2011MJ&	M	A	RSoXS	Heteropolymer thin films	Molecular orientation
2011MJ&	P	A	STXM	Polypropylene-clay-elastomer	Compatibilizer mapping
2011MM&a	P	A	STXM	Reverse osmosis filtration membranes	
2011MM&b	B, E	A	STXM	Protein & peptidoglycan in cell walls	
2011N	M	A	STXM	MWCNT, SWCNT	Dichroism, functionalization
2011NM&	E	A	STXM	Organic residues in ice analogs	Star-dust related
2011NW&	M	A	STXM	CoTb, FePt, FePt np	Surface-sensitive TEY
2011OG&	M	A	STXM	Carbon black sorbents	
2011PC&	M	A	STXM	Diamonoid aerogel	
2011PG&a	E	A	STXM		Graphite in old banded-Fe formations
2011PG&b	M	A	STXM	asbestos	
2011PW&	M	A	STXM	Wadsley-type Tunnel Bronze	
2011RM&	M	A	XPEEM	Co nanomagnets	Artificial Kagome lattice
2011S	EB	R	STXM	Humic substances	Enviro & bio; Bessy & lab XRM
2011SB&	M	A	STXM	Ionomer in cathode	Fuel cell optimization
2011SB&b	M	A	STXM	Uranium compounds	
2011SC&	M	A	STXM	MWCNT and GO nanoribbons	
2011SD&	M	A	STXM	VO ₂ Nanowires	

code	materials	type	tech	species	Comments
2011SG&	B	A	TXM	Smooth muscle cells	good C 1s, Ca 2p spectroscopy
2011SH&	M	A	STXM	Photonic crystals	
2011SS&	M	A	STXM	memresistor	Switching effects
2011TH&	M	A	TXM	magnetic nanostructures	X-ray diffraction (XM1 as reference)
2011TL&	M	A	STXM	Cobalt Diamond-like films	
2011TM&	M	A	CDI-ptycho	GdFe magnetic film	First resonance dichroic (XMCD) imaging
2011TS&	E	A	STXM		Aerosols from burning
2011US&	B	A	TXM	<i>Schizosaccharomyces pombe</i> ., <i>Candida albicans coff1-22</i> mutant strain of <i>S. cerevisiae</i> .	Cryotomography, segmentation
2011VD&	M	A	TXM		domain wall pinning
2011VK&	M	A	STXM	permalloy	Mag. Dynamics coupled oscillations
2011VR&	M	A	STXM	Co ₂ FeAl _{0.4} Si _{0.6} Heusler alloy	Spin structure
2011VW&	M	A	TXM	permalloy nanowires,magnetic soft spots	
2011WC&	M	A	XPEEM	Co-Pentacene-Co	
2011WH&A	M	A	PEEM	Magnetoelectric antiferromagnet	
2011WH&b	B	A	STXM	Sulfur(0) in S-metabolizing bacteria	tomography
2011WJ&	M	A	XPEEM		Perpendicular magnetic anisotropy
2011WK&	B	A	STXM	Anoplin antimicrobial peptide	
2011WK&	B, P	A	STXM	Anoplin antimicrobial peptide/lipid membrane interactions	
2011WL&a	M	A	RSoXS		Tri-block co-polymer morphology
2011WL&b	M	A	SPEM	Pb(Zr0.2Ti0.8)O3 (PZT) / La0.7Sr0.3MnO3 (LSMO) electrode	in situ charging
2011WM	M	A	STXM	Redox of Pd nanoparticles	
2011WS&	M	A	STXM	Magnetic/non/magnetic structures	AFM coupling of vortex states
2011WSM	P	A	STXM	poly(9,9'-dioctylfluorene-co-benzothiadiazole) (F8BT)	Molecular orientation & order mapping
2011WZ&a	M	A	STXM	SnO2-CNT humidity effects	
2011WZ&b	M	A	STXM	domain ordering in polyc films	
2011YJ&	M	A	TXM	vortex-core cross-point architecture	mag memory
2011YK&	E, B	A	XPEEM	Biological nanoparticles	Space filling
2011YL&	M	A	TXM		
2011YP&	M	A	STXM	Spin driven oscillator	

code	materials	type	tech	species	Comments
2011YP&	M	A	TXM	magnetic nano-oscillator	
2011ZL&	M	A	STXM	Nanoparticle compatibilizers	
2011ZM&	M	A	STXM	Diesel soot particles	Reaction with water
2011ZW&a	M	A	STXM	Water on SnO ₂ carbon nanotubes	Humid cell
2011ZW&b	M	A	STXM	Single sheet graphene oxide NEXAFS	
2011ZX&	M	A	STXM	Functionalized CNT	
20120SS&	M	A	SPEM	SnO ₂ electronic noses	Alcohol beverage discrimination
2012AS&	M	A	STXM	Alumina zeolites	
2012B	M	R	XPEEM		Historical perspective LEEM, PEEM etc
2012BA&	M	R	STXM, SPEM	PEM-FC metal electrodes; SOFC	Review of fuel cell in situ studies
2012BD&	M	A	STXM	FIB sample prep of soft matter	Minimizing damage
2012BG&a	M	A	STEM	Mn, MnO ₂	In situ electrochem
2012BG&b	M	A	STXM	Liquid crystal - Au corrosion	In situ, X-ray fluorescence
2012BH&a	E	A	STXM	Organic-rich shales	
2012BH&b	M	A	TXM	NaTiO ₃ nanorods	Spectroscopy & linear dichroism
2012BH&b	M	A	XPEEM	Rh ₂ O ₃ (0001)	
2012BL&a	M	T	STXM	Knife-edge (FIB met glass)	Resolution profile
2012BM&	M, P	A	STXM	N-ligands to Pt	Fuel cell degradation
2012BMb	M	A	STXM	Fe-rich carbonates from lower mantle	
2012BS&	M	A	STXM	Cathode porosity in PEM-FC	Spectro-tomography
2012BW&	E	A	STXM	nanoporous pyrobitumen residue	
2012C	M	A	STXM	energy materials	thesis
2012CA	P	A	STXM	P3HT, P61BM organic photovoltaics	
2012CB	M	A	STXM	Ghz magnetic susceptibility	Sub-micron mapping of
2012CB&a	E, M	A	STXM	Geobacter – external magnetite	XMCD
2012CB&b	E	A	STXM	microbialite cyanobacterium fossil	
2012CC&a	M	R	RSoXS	Organic films	Polarized X-ray scattering (SAXS dichroism)
2012CC&b	M	A	STXM	Polymer cement	
2012CC&c	M	A	SPEM	TiN/Si buried interface	
2012CF&	T	T	STXM		10 nm resolution
2012CI&	M	A	STXM	Cr(VI) reduction by aerobic bacteria	
2012CK	M	A	STXM		nanomagnetism
2012CKB	M	A	STXM	permalloy	sub-micron magnetization dynamics
2012CL&	B	A	TXM	Olfactory receptors	

code	materials	type	tech	species	Comments
2012CP&	I	I	CDI		CDI and holography (SiN window as ref.)
2012CW&	M	A	SPEM	Graphene/Au/SiOx	
2012CZ&	M	A	STXM	ternary MEH-PPV:porphyrin:PCBM PV	
2012DC&	M	T	XPEEM		Cryo PEEM-2 aberration corrected
2012FF	M	A,R	TXM		magnetic dynamics
2012FS&	M	A	STXM	Co nanoconstrictions	Magnetic imaging, magnetostriction
2012FS&b	M	A	XPEEM	magnetic stripes on Pd(11N) terrace	
2012FTG	M	A	XPEEM	LaFeO3	Antiferromagnetic domains
2012FZ&	M	A	XPEEM	(6 x 1) NiO Surface Oxide on Rh(111)	
2012G	E, B	R	XPEEM	Carbonate biominerals	Biomineralization; PIC
2012GB&	M	A	TXM	TiO2	Spectroscopy & dichroism
2012GH&	M	A	TXM	spin valves	
2012GK&	B	R	TXM		Sub-cellular imaging
2012GK&	E, B	R	XPEEM	Amorphous Calcium carbonate	Phase transitions
2012GK&b	B	A	TXM		Sub-cellular imaging
2012GK&c	M	A	XPEEM	O / graphene / Ir(111)	
2012GK&d	M	A	XPEEM	O / Ag	
2012GM&	M	A	XPEEM	ordered arrays of nanoparticles	
2012GP&	M	A	STXM	Metal-metal hip joints	Chemical speciation of particles
2012H	MEB	R	TXM, STXM, SPEM, XPEEM	many	Review of all soft X-ray techniques & many applications
2012HC&a	M	A	STXM	PTB ₇ :PC ₇₁ BM solar cells	Domain composition
2012HC&b	E	A	STXM	Polymer cement	
2012HK&	E	R	STXM	Natural organics, ferric iron interact	
2012HK&b	B	A	TXM	Malaria parasite, <i>P. falciparum</i>	
2012HL&	B,M	A	XPEEM STXM	Collagen; HSA/PS-PMMA; HSA / PS-PMMA-b-PAA, HSA/PS-PLA; HSA / PIPA-SAN&polyurethane; Ubq/PEO-ppAA	Protein-polymer interactions
2012HR&	E	A	STXM		distinct Fe pool in S. Pacific
2012HS&a	M	A	STXM	Colloidal photonic crystals	tomography
2012HS&b	E	A	STXM	aerosols	
2012HS&c	M	A	STXM	water	Size of hydrophobic solvation
2012HV&c	M	A	SPEM	Plasma modified pentacene	Organic spin valve

code	materials	type	tech	species	Comments
2012HW&	M	A	XPEEM	nanowires	
2012I	M	A	XPEEM	H2, O2 react with VOx	Pattern formation
2012IB&	M	A	TXM	permalloy magnetic nanowires	
2012IF&	M	A	TXM	magnetic vortex states in nanodisks	symmetry breaking
2012JC&	B	A	XPEEM	Cu, Mn in prion plaques	
2012JL&	M	A	TXM	magnetic vortex networks	logic functiond
2012JS&	M	A	STXM	Nanocrystalline Cr ³⁺ -Doped BaTiO ₃	Phase transitions
2012K	B	A	STXM	MV-1 Magnetotactic bacteria	XMCD improvements, reversal
2012KB&	E	A	STXM	iron (hydr)oxides in a forest soil	
2012KG&	M	A	XPEEM	Diamond like films	
2012KL&	E	A	STXM	MV-1 magnetotactic bacteria	
2012KO&	M	T	XPEEM	instrument	Pump probe dynamics
2012KY&	E	A	STXM	simulated early atmospheres	particulate formation
2012L	M	A	STXM	PMMA, stearic acid	Lithography, nanofluidics, dosimetry
2012LA&	E	A	STXM	organic aerosols	
2012LD&	E	A	STXM	Cu nanoparticles, river biofilms	
2012LE&	M	A	STXM		35 nm island; magnetic switching
2012LG&	M	A	STXM	organic PV	morphology
2012LH&a	B,M	A	XPEEM	HSA PS-PMMA-b-PAA	Protein-polymer interactions
2012LH&b	M, I	I	STXM	PMMA	Detector efficiency & dosimetry
2012LHa	M, T	T	STXM	Stearic acid melting	Heating not an issue in STXM
2012LHb	M, T	T	STXM	PMMA, PMGI layers	Nanofluidic lithography
2012LHc	M	A	STXM	carbon	Contamination rates for EUV
2012LHd	M, B	A	XPEEM, STXM	Apb, sub-6 on PS/PM-b-PAA	Review and new system
2012LK&a	M	A	XPEEM		Magnetic vectometry
2012LK&b	M	A	SPEM	In, GaN	
2012LM&a	E, B	A	XPEEM	collagen	Xanes anisotropy
2012LM&b	E	A	STXM	sea salt & org. acid reactions	
2012LS&	E	A	STXM	organonitrates in aerosol	
2012LW&	M	A	STXM	Artificial spin-ice honeycombs	Magnetic monopole defects
2012MB&	M	A	TXM	magnetic nanodisks	
2012MF&a	B	A,R	TXM	cells	Phenotype identification
2012MF&b	E	A	STXM	Fe in aerosols from Asia	

code	materials	type	tech	species	Comments
2012ML	M	A	XPEEM		Angle resolved XPEEM
2012ML&a	B	A,R	TXM		Sub-cellular imaging
2012ML&b	B	A	TXM	Human Amnion Epithelial Cells	Cystic fibrosis regulation
2012MU	M	A	STXM	n-alkane epitaxy films	Substrate T effect
2012MW&	M	A	TXM	ultrathin Co Ni multilayer films	
2012MZ&	M	A	STXM	TiO ₂ nanocrystals on C-film	
2012NN&	M	A	STXM	multiferroic Bi ₂ FeCrO ₆ nanostructures	Anti-FM and FM
2012NY	M	A	XPEEM	Cs/Ni/Cu(001)	MCD laser
2012O	M	I	STXM		UVSOR BL4U instrument
2012OG	E, B	A	XPEEM	Pinctada margaritifera. mollusks	Biomineralization; PIC
2012OH&a	M	A	XPEEM	18 nm Fe nanocubes	T-dependent magnetism
2012OH&b	E	A	STXM	chondrule	Wild 2 comet
2012OK&	E, B	A	XPEEM	Pinctada margaritifera. mollusks	T,P effects on ultrastructure
2012PC&	M	A	TXM	epitaxial Fe antidot arrays	
2012PK&	B	A	TXM		Image alignment protocols
2012PO&	E	A	STXM	BoFeN1 anaerobic Fe eating bacteria	Green rust
2012PR&	M	A	STXM/SPM	PS-P3HT, Cr/Ti; CoPt ML	Combined nano-XAS,AFM
2012PS&a	B	A	STXM	Ag np in sea urchin	Nanomaterials safety
2012PS&b	M	A	XPEEM	Ni/Cu(001) Films	Perpendicular magnetic anisotropy
2012PW&	E	A	STXM	Amazon aerosols	
2012RB&	M	A	STXM	Semicond & metal SWCNT	Linear dichroism; C 1s pi* fine structure
2012RH&	M	A	STXM	organics in soil	
2012SB&	M	A	STXM	Ionomer mapping in PEM-FC	
2012SC&	M	A	STXM		Magnetic vortex dynamics
2012SE&	M	A	STXM	PTB ₇ :PC ₇₁ BM solar cells	Oligomeric compatibilizers
2012SG&	B	I	TXM	Algae, tomo of cell	Bessy full field TXM, spectroscopy
2012SH&	M	A	XPEEM	Fe nanocubes magnetic hysteresis	Spin-polarized, Bessy, variable T, H
2012SK&	M	A	TXM	CO on Cu core-shell nanoparticles	DRIFTS
2012SL&a	E	A	STXM	Organics in soil	
2012SL&b	E	A	STXM	Organics in soil	
2012SV&	M	A	STXM	organic PV	
2012SW&a	M	A	STXM	PBTTT solar cells	Domain mapping
2012SW&b	M	A	SPEM	Graphene, Bi ₂ Te ₂	Nano-ESCA
2012SY&	M	A	SPEM	Co _x Cu _{1-x} O ₂	PES in SPEM

code	materials	type	tech	species	Comments
2012T	M	A	STXM	polymers	thesis
2012VA&	M	A	TXM	Co dot, antidot	magnetization reversal
2012VM&	M	I	STXM	magnetic materials	luminescence detection
2012VN&	M	A	TXM	triangular structures	vortex dynamics
2012WA	M	R	STXM	Organic materials	Review & overview
2012WB&	M	A	STXM	spin vortex pairs	coupling
2012WC&	M	A	XPEEM	Soft magnets	Anti-ferro-ferro coupling
2012WCH	M	A	XPEEM	Pentacene (Pn) , Co/Pn, Pn/Co	
2012WH&	M	A	STXM		Magnetic vortex dynamics
2012WMR	M	R	STXM	F8BT, PFB	Organic semiconductors & solar cells; bulk-surface
2012WS&	M	A	STXM		Magnetic vortex dynamics
2012WSK	M	A	XPEEM	titanium alloy (Ti-6Al-4V)	dimpling
2012WTM	M	A	XPEEM	pentacene	
2012WW&a	M	A	STXM	ZnS/ZnO nano-heterostructure	
2012WW&b	M	A	STXM		Gaussian noise filter
2012WW&c	M	A	XPEEM	Organic SC-ferromagnet Heterojunction	
2012YC&	M	A	RSoXS		Organic PV materials
2012YC&	M	A	STXM	correlating STXM & resonant SoXS	
2012YS&	E	A	STXM	uranium transport, NOM	multi-scale
2012YZ&	M	A	STXM	PDPP3T PV	
2012ZA&	E	A	STXM	NH4SO4, adipic acid particles	Water uptake in aerosol particles
2012ZMA	M	A	XPEEM	SiOx / InAs(111)B; GaP(111)	Spin resolved, band mapping
2012ZP&	M	A	STXM	Spin-cross over Fe adsorbate	
2012ZS&	E	A	STXM	carbonaceous aerosols	
2012ZW&	M	A	STXM	TiO2-decorated 2-wall CNT	
2013A	E	A	STXM	aerosols	thesis
2013AL&	M	A	STXM	zeolites	tomography
2013AM&	E	A	STXM	sea-spray aerosol	
2013AOL	M	A	XPEEM	AA 6061 aluminum	aging, strain rates
2013AP&	M	A	XPEEM	Graphene	
2013AR&a	M	I	SEM		Soleil nano-ARPES interferometry
2013AR&b	M	I	SEM		Soleil nano-ARPES performance
2013AS&	E	A	STXM	aerosol particles	WACS210

code	materials	type	tech	species	Comments
2013AT&	M	A	STXM	H-ZSM-5 catalysts	
2013BA&	M	A	STXM		Energy materials applications, in situ
2013BB&a	E	A	STXM		Fe(II)/Fe(III) determination
2013BB&b	M	A	STXM	fullerene percolation	bulk heterojunction solar cells
2013BE&	M	A	STXM	magnetization dynamics	spin torque magnetic switching
2013BG&a	M	T	STXM	polypyrrole	In situ echem-cell
2013BG&b	M	A	STXM	Au-Mn electrodeposition	
2013BM&	M	A	STXM	LiFePO ₄	Intercalation process
2013BR&a	E	A	STXM	Mg in foraminiferal calcite	Daily calcite growth in fossils
2013BR&c	E	A	STXM	SiO ₂ glass	Fe alteration
2013BRb	E	A	STXM	B in foraminiferal calcite	Daily calcite growth in fossils
2013BS&a	M	A	STXM	PEM-FC	Spectro-tomography
2013BS&b	M	A	STXM		Magnetic domain wall velocities
2013BW&	M	A	STXM	CNT	Disorder , tube-tube interactions
2013CA&a	M	A	STXM	Conjugated Polythiophene-S,S-dioxides,	
2013CA&b	E	A	STXM	sea spray aerosol	
2013CD&	M	A	STXM	ultra-soft CoZrTa/SiO ₂ /CoZrTa trilayer	inductors
2013CE&	M	A	STXM	Li battery material	Charge state
2013CH&	E	A	STXM	organic aerosols from burning	
2013CL&	M	A	STXM	PTB ₇ :PC ₇₁ BM solar cells	Domain composition
2013CL&a	M	A	SPEM	ZnO	UV sensor
2013CL&b	M	A	SPEM	Au/graphene	SERS substrate
2013CL&c	M	A	STXM	PTB ₇ :PC ₇₁ BM PV	domain composition & size
2013CM&	M	R	STXM	cements	
2013DC&a	M	A	STXM	Th, Np, Pu (CN) ₆ Fe(III) compounds	
2013DC&b	M	A	STXM	Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ cathode	Li battery
2013EJ&	M	I	XPEEM		Siam photon lab
2013FHR	E	A	STXM	Cr(III)-Doped In ₂ O ₃ Nanocrystals	
2013FI&	M	A	TXM		magnetic imaging
2013FP	M	I	TXM	Heritage (MnOx, MnSO ₄ pigments	Proper spectroscopy (tender X-ray) ID21
2013FS&	M	R	RSoXS	Resonant soft X-ray scattering	Review all applications
2013FU&	M	A	STXM	nanoparticulate organic PV	
2013GB&	M	A	XPEEM	O / Ag(111)	
2013GK&	M	A	STXM	Organic solar cells	Multi-phase formation

code	materials	type	tech	species	Comments
2013GK&a	M	A	STXM	Open, using ionic liquids	In situ echem cell description
2013GK&b	M	I	STXM		8-detector XRF system Twinmic
2013GK&c	B	A,R	STXM		Life science applications
2013GL&	M	A	RSoXS	Organic solar cells	3 % efficient
2013GM&	B	A	STXM	Magnetic particles	Nanomaterials safety
2013GN&	M	A	STXM	di-Nb complexes - spectroscopy	NbL (2370) & N L (2465) on ALS 5.3.2.1
2013GR&a	E	A	STXM	kerogens	e-beam radiation damage – interstellar effect
2013GR&b	M	I	TXM	Cells, TiO ₂	Cryo-tomo, spectromicroscopy
2013GS&	E	A	STXM	Organo globules in meteorites	
2013H	E	A	STXM	seafloor microbe-mineral interactions	thesis
2013HB&a	E	A	STXM	ice crystals from clouds	Isdac 2008
2013HB&b	M	A	STXM	P3HT:PCBM nanoparticles PV	
2013HD&	B	A	TXM	Malaria parasite, <i>P. falciparum</i>	Mechanism of erythrocyte invasion
2013HG&	E	A	STXM	Gibbsite	Litter degradation
2013HH&	M	A	STXM	Magnetic dopants in semiconductors	
2013HK&	M	A	TXM	Calcium Sulfoaluminate	cement
2013HV&	M	A	TXM	magnonic crystals	
2013IL&	B	A	TXM	Chromatin mapping	
2013JC&	M, E	A	STXM	Al-tobermorite	Understanding Roman sea cement
2013JD&	M	A	STXM	Graphene oxide	Domain mapping
2013JG&	B	A	XPEEM	Prion plaques – low Cu , High Mn	
2013JL&	M	A	TXM	correction to earlier paper	
2013JW&	M	A	XPEEM	Soft magnets	Anti-ferro-ferro coupling
2013K	E	A	STXM	soil organic material	thesis
2013KBH	B	A	STXM	MV-1 magnetotactic bacteria	Magnetic reversal anomaly
2013KG&	M	A	TXM	magnetic nanowires	
2013KL&	B	A	STXM	Methyl mercury	
2013KM&	M	A	STXM	VO ₂	thermal structural (insulator-metal) transition
2013KN&	M, I	A	STXM	Humidity cell	
2013La	M	A	STXM	PAN	Radiation damage, G-values
2013Lb	E	A	STXM	bacterial EPS & goethite	thesis
2013LB&	E	A	STXM	Fe biomineralization → fossils	review
2013LC&	M	A	SPEM	Cr / InN	
2013LC&b	M	A	SPEM	SiOx	2D protrusion layers

code	materials	type	tech	species	Comments
2013LE&	E	A	STXM	goethite - EPS	S-rich aggregates
2013LF&	B,E	A	STXM	ferric oxyhydroxide np aggregates	Iron-reducing bacteria
2013LG&	M	A	STXM	np on CNT	
2013LG&b	M	A	STXM	organic PV	morphology
2013LH	M	A	STXM	PMMA / PMGI	Nanofluidic channel
2013LH&	M	A	STXM	PMMA	28 nm record direct write optical
2013LL&	M	A	SPEM	Zwitterionic Polysquaraine	
2013LS&	M	A	STXM	PEM-FC	NSTF anode – reversal & SU/SD effects
2013LW&	M	A	STXM	Diketopyrrolopyrrole based PV	
2013MA	M	R	STXN, RSoXS	Polymer semiconductor films	
2013MB&	M	A	STXM	Silicate glass - iron	
2013MC&a	M	I	STXM	Au-Mn electrodeposition	
2013MC&b	E	A	STXM	Carbon sequestration in concrete	
2013MC&c	M	A	STXM	Solid oxide fuel cell	operando
2013MD&	M	A	STXM	Ferrous archaeology artefacts	corrosion
2013MF&	E	A	STXM	cloud condensation nuclei	
2013MI&	M	A	STXM		Self absorption correction for XRF
2013MK&a	M	A	STXM	permalloy	Vortex core switching
2013MK&b	M	A	STXM	MO ₄ ²⁻ (Cr, Mo, W) MO ₄ ⁻ (Mn, Tc, Re)	M-O bonding; O 1s spectroscopy in STXM
2013MK&c	M	A	STXM	MCp ₂ Cl ₂ (M=Ti, Zr, Hf)	M-C bonding
2013MKC	E	A	STXM	interstellar formaldehyde	
2013MM&	M	I	STXM-ptycho	ptychography	Random phase illumination
2013MO&	E	A	STXM	Cd in Geobacter	
2013MR&	E	A	STXM	carbonaceous aerosols	California
2013MT&	M	A	STXM	organic PV	domain purity
2013MY&	M	A	STXM	organic PV	thermal annealing; additives
2013NB&	M	A	STXM	FeOx np on CNT	
2013ND&	B	A	STXM		Nanomaterials safety
2013NH&	M	A	TXM		magnetic dynamics
2013NT	M	I	XPEEM		Siam photon lab
2013NT&	M	A	TXM	Pt-Co nanocatalysts	electrochemical stability
2013OA&	M	I	STXM		UVSOR STXM
2013OB&	B	A	XPEEM	Nacre structure	
2013OM&	B	A	XPEEM	Nacre structure	

code	materials	type	tech	species	Comments
2013P	E	A	STXM	biogenic aerosols	thesis
2013PB&a	E	A	STXM	hydrothermal oil	mid-ocean ridge
2013PB&b	M	A	STXM	lab based sea spray aerosol	
2013PG&	B	A	STXM	Asbestos & Fe in lung tissue	
2013PG&	B	A	STXM	Cerebral Fluorodeoxy D-Glucose	Metabolism imaged by F XRF
2013PM&	B	A	TXM		Sub-cellular imaging
2013PM&b	M	A	STXM	Vanadium Bisimide	Compare stxm, xlog, nmr
2013PV&	B	A	STXM	Metals in buckwheat	Quantitative (wt%)
2013RB&	E	A	STXM	foraminifera	tomography
2013RE&	B	A	STXM	<i>Noccaea praecox (Brassicaceae)</i>	metal hyperaccumulation
2013RM&	M	A	STXM	Kaolinite, metallic iron	
2013RSF	M	A	STXM	Ag-TCNQ salts	Role of solvent in crystallization mechanism
2013SA	M	A	STXM	odd vs. even long chain alkanes	
2013SB&	M	A	STXM	PEM-FC	Overview of STXM to fuel cell materials
2013SC&a	B	A,R	TXM		Cell imaging; correlative TXM, CLSM
2013SC&b	M	A	SPEM	transparent graphene on GaN	
2013SC&b	M	A	STXM	graphene/GaN	
2013SCH	E	A, R	STXM		Organics in soil, metal redox coupling
2013SF&	M	A	STXM	Co nm	domain wall modification by Ga ⁺ irradiation
2013SG&	E	A	STXM	Wild 2 comet	Fe valence
2013SH&	M	A	STXM	CCD	verifying sub-pixel detection
2013SL&	M	A	SPEM	Sc on TM surfaces	
2013SM&	M	A	STXM	magnetization dynamics	dynamic domain stabilization
2013SR&	M	I	ptycho		Cosmic developments at ALS
2013ST&a	M	A	STXM	Ionomer in cathodes	Inkjet printed electrodes
2013ST&b	M	A	XPEEM	CoxNi1-x/Cu(001)	Surface oxidation
2013ST&c	M	A	STXM	organic PV	
2013SY&	M	A	STXM	TiO2 memresistors	
2013SZ&	E	A	STXM	ferrihydrite-humic acid coprecipitates	
2013TG&a	E	A	STXM	organic aerosols	
2013TG&b	M	A	STXM	organic PV	
2013TK&	M	A	STXM	telephores	
2013TM	M	A	STXM	photovoltaics	all polymer system
2013TS&	M	A	RSoXS	Effect of fluorination	Organic PV materials

code	materials	type	tech	species	Comments
2013TS&	M	A	STXM	fluorinated organic PV	
2013TZ&	M	A	STXM	Aerospace materials	Synchrotron method overview
2013UH&	M	A	STXM	P3HT:PCBM PV	
2013UU&	M	A	TXM	tapered nanodisks	
2013VDM	E	A	STXM	stromatolites	banded Fe in modern ones
2013WB&	M	A	STXM	magnetization dynamics	spin-meron pairs
2013WF&	M	A	TXM	ferromagnetic organic sandwiches	
2013WH&a	M	A	SPEM	alkane thiol SAM	micro-plasma stamp
2013WH&b	M	A	XPEEM		Antiferromagnetism creates out-of-plane M
2013WZ&	M	A	STXM	Single sheet graphene – Co ₃ O ₄	
2013XB&	M	A	STXM	CNT – Xray induced C-coatings	
2013YH&	M	A	TXM	vortex core oscillations	
2013YNK	B	A	STXM	quinoa	
2013YT&	M	A	STXM	organic PV	
2013YW&	M	A	RSoXS	PMMA	Derive optical constants
2013YW&	M	A	STXM	organics	C 1s index of refraction determination
2013ZW&a	M	A	STXM	Graphidyne	
2013ZW&b	M	A	STXM	LiMn _{0.75} Fe _{0.25} P ₄ nanorod graphene	
2013ZW&c	M	A	STXM	chiral magnetic carriers on spin ice	
2014AB&	M	A	TXM	Ni ₈₀ Fe ₂₀ contacts	spin valves
2014AC&	M	A	STXM	Cinnamate photoaligners	photoreactions
2014AH&	M	A	STXM	DVB modification	separation media
2014AT&	M	A	STXM	Fluorinated PCPDTBT PV	quantifying charge
2014AV&	M	A	STXM	polymer-fullerene PV	charge transfer efficiency
2014B	M	R	XPEEM	Review, book	PEEM, LEEM
2014BA&	M	A	SPEM	Co/PPY fuel cell catalysts	Electrochemically prepared
2014BB&a	M	A	STXM	Electrodeposited Co/CoO	Fuel cell catalysts
2014BB&b	M	A	STXM	Mica, chlorite	Low-T magnetism
2014BF&	M	A	STXM	polymer:fullerene PV	
2014BF&b	M	A	STXM		StarDust (IR STXM)
2014BG&a	M	A	STXM	MnCuZnO supercapaciter	
2014BG&b	M	A	STXM	Co/PPY fuel cell catalysts	Raman & STXM
2014BG&c	M	A	STXM	MnCuZnO supercapaciter	
2014BG&d	M	A	STXM	Pr ³⁺ and Pr ³⁺ -Yb ³⁺ Co-doped ZnO	luminescence

code	materials	type	tech	species	Comments
2014BK&a	B,E	A	STXM	Microbial biofilms on U tailings	
2014BK&b	M	A	SPEM	graphene	nanoscale functionalization
2014BM&	M	A	XPEEM	greigite	In situ vapor-solid synthesis
2014BN&	E	A	STXM	ambient & lab-generated aerosols	
2014BT&	E	A	STXM	Fe oxyhydroxide stacks	bacterial produced
2014BW&	E	A	STXM	stardust	
2014BW&b	M	A	STXM		StarDust (ESRF; STXM)
2014BY&	M	A	SPEM	BiTeI Rashba semiconductor	band bending
2014CB	B,E	R	STXM		Biominerals handbook review
2014CC	M	A	XPEEM	Organic magnets on Si	
2014CC&a	M	A	XPEEM	Kagome array	Magnetic frustration, variable-T
2014CC&b	M	A	SPEM	graphene	defects by scanning probe litho
2014CC&d	M	A	XPEEM	Co-C60 Interfaces	
2014CD&a	B,E	A	STXM	Pasture soil	Mineral-bio interactions
2014CD&b	B,E	A	STXM		Fe-organic matter association
2014CD&c	B	A, R	TXM	Correlative CLSM and TXM	cells
2014CG&	M	A	TXM	nano-SiO ₂ additive, Portland cement	
2014CJ&	M	A	STXM	Tridentate N- UO ₂ ²⁺ Complexes	
2014DH&	M	A	STXM	nanoparticulate organic PV	
2014DM&	B	A	XPEEM		O 1s of carbonates
2014DR&	M	A	XPEEM	Cylindrical magnetic nanowires	Bloch-point domain walls
2014DZ&	M	A	SPEM	Au/graphene	SERS substrate
2014EC&a	B	A	STXM	β -amyloid Fe(II)	
2014EC&b	B	A	STXM		redox after Fe(III)- β -amyloid interactions
2014EK&	B	A	STXM	Mouse Leydig cell	Cluster PCA analysis
2014EO&	E	A	STXM	Ni in biogenic & abiogenic ferrihydrite	
2014Fa	M	A,R	TXM		magnetic dynamics
2014Fb	M	A,R	TXM		magnetic dynamics
2014FG&	M	A	XPEEM	CO reduction of <i>Pd₇₅Ag₂₅(100) Surfaces</i>	
2014FKO	M	A	SPEM	Graphene transistors	operando
2014FR&	E	A	STXM	artificial versus natural sea aerosols	
2014FS	M	A	XPEEM	quasi free-standing graphene	
2014FS&	M	A	STXM	Dilute magnetic oxides	Charge transfer ferromagnetism
2014FS&b	M	A	STXM		StarDust (APS; STXM)

code	materials	type	tech	species	Comments
2014FW&	E	A	STXM	Stardust	
2014G	B, E	R	XPEEM		biomineralization
2014GB&	E	A	STXM	Stardust	
2014GB&b	E	A	STXM	meteorite hydration	
2014GK&	B,E	A	XPEEM	biomineralization	crystal growth by particles from ACC
2014GM&a	M	A	XPEEM	O2/Ag(111)	Desorption kinetics site specific
2014GM&b	M	A	XPEEM	Au on CeO	Water-gas shift catalyst
2014GN&	E	A	STXM	Presolar Supernova Graphite Grain	
2014GS&a	E	A	STXM	Fe in FeBoN1	Wet cell spectro tomography
2014GS&b	E	A	STXM	StarDust	Cometary orgnaic matter
2014GSM	B,M	A	STXM	lignocellulose	bioconversion
2014GZ&	M	A	STXM	CNT, CN-fibers - catalysts	
2014H	E, B	A	STXM	siderophores	
2014HB&a	M	A	STXM	ionomer, carbon-black	carbon corrosion of PEM-FC
2014HB&b	M	A	STXM	ionomer, water	in situ studies of PEM-FC
2014HB&c	M	A	TXM		virtual domain walls
2014HH&	M	A	STXM	polymer - cement composites	STXM combined with u-CT
2014HH&	M	A	STXM	Polymer cement	
2014HM&	M	A	STXM	photovoltaics	influence of F, MWt
2014HT	M	R	STXM, ptycho	MTB XMCD-ptycho; fuel cells	DLSR effect on field
2014HU&	M	A	STXM	P3HT:PCBM nanoparticles PV	polymer MW effect
2014HW&	M	A	STXM	PV	polymer modifiers
2014HY&	M	A	XPEEM	3,4,9,10-perylene-teracarboxylic Dianhydride	Organic Spin-valve
2014IL&	M	A	TXM	aasymmetric nanodisks	stochastic vortex formation
2014IO&	B	A	STXM	DNA, Protein in cell nucleii	apoptosis
2014IW&	M	A	STXM	Au/graphene	Plasmoninc structure
2014JA&	M	A	SPEM	graphite / Cu	sub-100 nm nano-ARPES
2014JC&	M	A	XPEEM	Fe ₂ TeO ₆	Magneto-electric thin films
2014JE&	B	A, M	ptycho	MEF cell	quantitative phase / amplitudes
2014JS&	B	A	STXM	<i>Bacillus subtilis</i> , <i>Desulfotomaculum reducens</i> endospores	
2014JV	M	A	XPEEM	C-face SiC & Si-face SiC graphene	
2014K	M	A	STXM	TM oxide resistance switching	thesis

code	materials	type	tech	species	Comments
2014KA&	E	A	STXM	ice nucleating particles	
2014KV&	B	A	STXM	Metals in leaves	
2014KZ&	E	A	STXM	Sutter's Mill meteorite - diamonds	
2014LA&	M	A	STXM	organic PV	
2014LB&a	M	A	STXM	perylene	NSTF (nanostructured thin film) electrodes
2014LB&b	M	A	STXM	CNT	Inside damage in CNT
2014LB&c	E	A	STXM	Preservation of biominerals	fossilization
2014LD&	M	A	STXM	Cu-SSZ-13 ammonia selective catalyst	
2014LE&	M	A	STXM	LiFePO4 battery cathode	Whole particle conversion
2014LG&	B	A	STXM	Human superoxide dismutase	nmr & STXM
2014LL&	M	A	XPEEM	NiCo/(Ni, Co)O	Exchange Bias
2014LM	M	A, R	XPEEM		review
2014LMb	M	A	STXM	MANTis	Data processing, NNM
2014LP&	M	A	XPEEM	Memresistor oxide	Electrochemical reduction, multi-filaments
2014LS&	M	A	SPEM	graphene	layer dependent spectroscopy
2014LT&a	M	A	TXM	Fe/NiO/Fe/CoO/Ag(001)	antiferromagnetic NiO domain walls
2014LT&b	E	A	STXM	microbial iron	deep sea vents
2014LY&	M	A	STXM	organic PV	MW effects
2014LZM	M	A	XPEEM	Graphene / Ir(111)	
2014MB&	M	A	XPEEM	NiO	XMCD, AFM surface magnetism
2014MBK	M	R	STXM		microbe-mineral interactions
2014MC&	E	A	STXM	carboxylic acids, nitriles, and urea in N ₂ :CH ₄ :CO ices	ice chemistry
2014MI&	B	A	STXM	Metals in intact cells	Quantitative XRF mapping (abs. corrected)
2014MK&a	M	A	STXM	actinocenes	covalency
2014MK&b	E	A	STXM	biochar	
2014MK&c	M	A	XPEEM	O/Ag(111)	
2014ML&a	M	A	XPEEM	Kagome spin ice	
2014ML&b	B,E	A	STXM	Green rust formation	nitrate-dependent iron oxidation
2014ML&c	M	A	STXM	Fuel cell MEA	FIB destroys ionomer
2014ML&d	M	A	STXM	crystalline low bandgap PV	
2014MM&a	M	A	XPEEM	Silicene in Si/ Ag(111)	
2014MM&b	M	A	STXM	Magnetite → maghemite oxidation	
2014MP&a	M	A	XPEEM	Fe/ZnSe(001)	

code	materials	type	tech	species	Comments
2014MP&b	M	A	XPEEM	Graphene / Re(0001)	
2014MR&	B,E,M	A	XPEEM	aragonite	dichroism
2014MT&	M	A	STXM	fullerene based PV	phase segregation
2014MZ&	M	A, R	XPEEM	Graphene/ Ir(001), Au intercalation	
2014NK&	M	A	STXM	graphene-oxide	resistive random access memory
2014NK&	M	A	TXM		thermodynamics
2014NV&	B	A	STXM	Spider silk	
2014NW&	M	A	XPEEM	Graphene nanoribbons	
2014OB&	B	A	XPEEM	nacre	growth mechanisms
2014OH&	M	A	XPEEM	Graphen/alumina nanosheets	
2014OI&	M	A	STXM	Nd-Fe-B nanocrystalline magnets	Magnetic hysteresis
2014OS	B,E	R	STXM		3D chemical mapping; STXM tomo
2014PB&	B	A	STXM	PLGA nanoparticles	SR-IR & STXM-XRF
2014PC&	E	A	STXM	Uranyl complexes	
2014PG&	B	A	STXM	Ca microdeposits in cells	Hard (ESRF) & soft (Twinmic) X-ray
2014PO&	B	A	STXM	BODIPY indacene	drug carrier Skin penetration
2014RE&	M	A	XPEEM	GaN	Strain at N 1s edge
2014RL&	E, B	A	STXM	Delftia	Antimicrobial resistance
2014RM&	M	A	XPEEM	BaTiO ₃	Domain switching by low current
2014RZ&	M	A	STXM	pentacene OFETS	charge trapping visualized
2014SA&	M	A	STXM	Al craters	StarDust (STXM)
2014SC&a	M	A	STXM	polymer PV	
2014SE&	M	A	STXM	LiFePO ₄ LiB particles	TEM-EELS vs. STXM
2014SH&	M	A	STXM	Carbon-Coated Li ₄ Ti ₅ O ₁₂	Li ion battery
2014SK&	M	A	TXM	CoFeB	spin-wave excitations
2014SL&	M	A	STXM		StarDust (STXM-XRF)
2014SM&	M	I, R	ptycho		review - bridging atomic and molecular
2014SM&b	M	A	STXM	ionic liquids	radiation damage effects
2014SM&c	M	A	TXM	roll up magnetic structures	
2014SN&	M	I	SPEM		ambient pressure SPEM BL11.0.2
2014SS&a	M	I	STXM		3D by through focal series
2014SS&b	M	A	TXM	chiral domain walls	
2014ST&	M	A	ptycho	LiFePO ₄	Li battery characterization; 3 nm resolution
2014SW&a	B	A	STXM	Insect eyes	Damage enhanced contrast

code	materials	type	tech	species	Comments
2014SW&b	M	A	STXM	ZnO nano	d ⁰ magnetism, XEOL
2014SW&b	M	A	STXM		StarDust (STXM) – grain orientation
2014SW&c	M	A	STXM	Styrene-co-DVB/SiO ₂	Radioactive sorbent efficiency
2014SZ&	M	A	STXM	protein-based polymer blends	Correlative with FTIR
2014SZ&b	B,E	A	STXM	BoFeN1 cell-(iron)mineral aggregates	STXM tomo
2014SZ&b	B,E	A	STXM	BoFeN1 aggregates	wet tomo
2014TC&a	M	A	STXM		Bulk heterojunction solar cells
2014TC&b	M	A	XPEEM	O/Au catalysis of olefin epoxidation	
2014TGM	M	R	ptycho		
2014TI&	M	I	STXM	biofilm, NaCl	attocube based mobile STXM
2014TSF	M	A	STXM	PVA membranes	radiolysis type damage in STXM
2014TY&	M	A	STXM	organic PV	
2014UN	E	A	STXM	C- particles of asteroid Itokawa	Compare to STEM
2014VA&	M	A	STXM	Zeolite H-ZSM-5	Phosphatation
2014VC&	M	A	STXM	Al phosphates	catalyst binders
2014VD&	M	A	STXM	Co(CO)(3)NO	autocatalysis
2014VK&	M	A	XPEEM	Co intercalation into graphene/Ir(111)	
2014VM&	M	A	STXM	Steamed Phosphated Zeolite H-ZSM-5	Hexane cracking catalyst
2014VR&	B	A	STXM	Nanoparticles in human skin	
2014VW	M	A	STXM	Zeolite H-ZSM-5	
2014WA&	M	I	STXM	Ni nanoparticles, β-keto ester	In situ, chiral modification
2014WH&a	M	A	XPEEM	Ultrathin antiferromagnets	Magneto-elastic effects
2014WH&b	M	A	XPEEM	TiO ₂ / SrTiO ₃	
2014WK&	M	A	XPEEM		magnetic vortex imaging dynamics
2014WL&	M	A	STXM	U ₃ O ₈	spectroscopy
2014WM&	M	A	STXM	8 uranium complexes	spectroscopy
2014WO&	E	A	STXM	org-Cl, org-NO ₃ - aerosols	
2014WS&	E	A	STXM	stardust	interstellar grains
2014WT&	M	A	SPEM	ZnO nanowire	piezoelectric potential
2014WW&	M	A	STXM	ZnO/CdS Core/shell Nanowire	luminescence
2014XJ&	M	A	XPEEM	Al - graphene on 6H-SiC(0001).	
2014YH&	M	A	STXM	NaCl in cements	
2014YL&	E	A	STXM	Cu in mining soil	Multi-technique comparison
2014YO&	B	A	STXM	Dexamethasone	Skin penetration

code	materials	type	tech	species	Comments
2014YT&	E	A	STXM	Synthetic meteorite analogs	FIB damage
2014ZG&	M	A	STXM	Benzodithiophene PV	
2014ZH&	B	A	STXM		MTB NS vs. SS ; biomineraization
2014ZJ	M	A	XPEEM	PTCDA on Sn/Si(111)-2√3 x 2√3.	
2014ZO&	M	A	STXM	NaTiOx nanorods	linear dichroism (2D) - O 1s
2014ZW&	M	A	STXM	Water in nano-bubbles	
2014ZWS	M	A	STXM	Nanoplatelet Ni/Graphene	
2015AP&	M	A	STXM	Al co-ordination complexes	
2015BK&	E	A	STXM	B in foraminiferal calcite	
2015BT&	M	A	STXM, ptycho	cement	ptychography
2015CB&	B,E	A	STXM	Ca-phosphate biominerals	
2015CW&	M	A	STXM	Fe ₂ O ₃ on ZnO nanorod	
2015DB&	M	A,R	XPEEM	Non-volatile magneto-electric devices	spintronics
2015DH&	M	A	STXM	Nanoparticle effects	OPV
2015DH&b	M	A	ptycho		CAMERA SHARP
2015DR&	E	A	STXM		soils analysis
2015DS&	M	A	STXM	metal np	Li battery
2015DS&b	B,E	A	XPEEM	nacre	energy landscape
2015EB&	E	A	STXM	Murray chondrite	
2015GB	M	R	TXM, STXM	NaTiOx nanorods	
2015GB&	E	A	STXM	Chondrule particles from Wild	
2015GCB	E	A	STXM	silicates in chondritic meteorites	
2015GG&	M	A	STXM	Di Niobium benzene	
2015GN&	M	A	STXM	Human skin	Nanoparticle penetration
2015GT&	M	A	STXM	Aged concrete	
2015H	M	R	STXM, TXM, XPEEM, SPEM		Review & perspective
2015HE&	M	A	STXM	thiophene–quinoxaline copolymer:PC70BM blend	Vertical and lateral inhomogeneity effects
2015HH&a	M	A	STXM	peroxides	
2015HH&b	M	A	STXM	cement	
2015HN&	M	A	STXM	nanoparticulate organic photovoltaics	
2015IO&	B	A	STXM	DNA, protein in mammalian cell nuclei	
2015KB&	E	A	STXM	artificial soil - rhizome	effect of bio-acids

code	materials	type	tech	species	Comments
2015KC&	M,E	A	XPEEM	Xanthate Induced Chalcopyrite	flotation
2015KG&	M	A	STXM	TaOx memristors	Operando studies
2015KL&	B	A	STXM		Compared to EM, IR
2015LB&	M, B	A	STXM	Lipids on SiOx nanowires	Nanoscale ordering
2015LJ&	M	A	STXM	orientation on org. solar cells	
2015LK&	M	A	STXM	LaCl _{6-x} , x=2,3	
2015LL&	M	A	STXM	Pd catalyst - O activation	
2015LM&	M	A	STXM	LiFePO4 LIB anodes	Particle size effects
2015LW&	M	A	STXM	LiFePO4 LIB anodes	Operando imaging
2015MBH	M	A	STXM	Fuel cell cathode	FIB damage
2015MG&	M	A	STXM	strained graphene	
2015MJ&	E	A	STXM	Rock varnish	
2015MM&	E	A	STXM	Aerosol particles	
2015MP&	M	A	STXM	organic PV	domain purity
2015MR	M	I	STXM, ptycho		OMNY interferometry
2015MS&	E	A	STXM	S, Ca speciation of aerosols	
2015MZ&	B,E	A	STXM	<i>Acidithiobacillus Ferroxidans</i> pyrite	
2015NO&	M	A	STXM	water	Liquid cell
2015NU	E	A	STXM	Chondrites	FIB contamination
2015OI&	M	A	STXM	PEM-FC – humidity changes	in situ humidity
2015ON&	B.M	A,R	STXM	Nanoparticles in human skin	Review of techniques
2015OW&a	E	A	STXM	Aerosol particles	Liq – Liq phase separation
2015OW&b	E	A	STXM	aerosols	
2015PK&	B,E	A	XPEEM	vaterite	orientation
2015RB	M, E	A	STXM	Iron gall ink	In historic paper
2015RT&	E	A	STXM	Radionuclides, magnetite	Transport in nuclear waste glass
2015SB&	M	A	STXM		Dose-Damage concerns raised
2015SL&	M	A	STXM	shikimic acid ozonolysis	In situ study
2015SM&	M	A	STXM	Hair (human, lamb)	Damage qualitatively
2015SM&b	E	A	STXM	FeO _x nanoparticles	
2015SR&a	M	A	STXM	singlet O ₂ from metal nanowires	
2015SR&b	M	A	STXM	non-linear optical nanowires	
2015SRF	M	A	STXM		Confocal STMX set-up
2015SWK	M	A	STXM	SiO ₂ –polymer radioactive sorber	

code	materials	type	tech	species	Comments
2015TY&	M	A	STXM	Uranium oxidation	
2015UN&	M	A	STXM	Extra-terrestrial particles	Contamination ?
2015WH&	M	A	STXM	TiO ₂ core-shell nanostructures	
2015WL&	E	A	STXM	marine origin aerosols	
2015WO	E	A	STXM	atmospheric aerosol reactions	
2015WP&	M	A	STXM	Ta/TaO ₂ M-RAM switching	
2015WT&	B	I	TXM	CT 26 fibroblast	N ₂ plasma based SXR
2015WW&	M	A	STXM	BN nanosheets	
2015YA&	E	A	STXM	Meteoritic organics	
2015YF&	B	A	STXM	Dexamethasone skin penetration	
2015YG&	B,E	A	XPEEM		crystal growth by particles
2015YJ&a	M	A	STXM	organic solar cells	
2015YJ&b	M	A	STXM	organic solar cells	
2015YK&	M	A	STXM	LiFePO ₄ LIB anodes	Particle size effects
2015YK&b	B	A	STXM	Tacrolimus skin penetration	
2015ZH&	M	A	STXM	NaTiOx nanorods	3D polarization; theory
2015ZK&	M	A	STXM	Magnetite, maghemite	correct Fe 2p spectrum; purity important
2015ZL&	M	A	STXM	C-stabilized Fe oxide NS	
2015ZY&	M	A	STXM	Pt np/Mo ₂ C nanotube catalyst	
2016&WW	M	A	STXM, ptycho	FCC catalyst particle	3D
2016AE&	M	A	STXM	design	STXM at P04 PetraIII (250-2000eV)
2016AK&	M, B	A	STXM	Lys-nanodiamonds	Gene transfer uptake
2016AP&	M	A	STXM	Lanthanide Sesquioxides	O 1s spectroscopy
2016AS&	M	A	STXM		In situ catalysis
2016CH&	M	A	TXM	TiO ₂ memristors	
2016CT	E,B	A	STXM	Bimorphic C-S structures	Self-assembly
2016DB&	M	A	STXM	Lanthanide, actinide ferricyanides	
2016DG&	E	A	STXM	silicate glass Fe corrosion	
2016DG&b	M	A	STXM	Lanthanide, actinide ferricyanides	
2016DV&	B,E	A	ptycho		Cryo-ptycho; ptycho processing
2016ES&	M	A	TXM, STXM	Aza-fullerene	
2016HC&	M	A	STXM	Fly ash	
2016HL&	M	A	STXM	Fuel cells	
2016HQ&	M	A	STXM	Cu electrodeposition	In situ

code	materials	type	tech	species	Comments
2016J	M,B,E	R	all		Future challenges
2016JH&	M	A	STXM	V ₂ O ₅ nanowire	Polaron states, Li gradients, LIB
2016JL&	E	A	STXM	Fe redox states	oxycline in a lignite mine lake
2016KG&	M	A	STXM	Memresistors	
2016KK&	B	A	STXM	Live cells	Correlative imaging
2016KP&	M	A	STXM	Zeolite FCC particle	dealuminization
2016KS&	M	A	STXM	VO ₂	phase transition
2016KW&	M	A	STXM	HfO memresistors	
2016LC&a	M	A	STXM	Li ₂ FeSiO ₄	Li battery dynamics
2016LC&b	B	A	TXM	Nerve cell chromatin connectivity	tomography
2016LHE	M	A	STXM	pmma, ps	Critical dose same for E < or > C 1s edge
2016LL&	M	A	STXM	LiFePO ₄ LiB	Operando – rate dependent structure
2016LS&a	E	A, R	STXM	Cu np, CNT	Nanomaterial toxicity
2016LS&b	E	A, R	STXM	CNT	Nanomaterial toxicity
2016LW&	E	A	STXM	Fullerene,SW-CNT, MW-CNT	Effect on river biofilms
2016LW&a	E, M	A	STXM	SWCNT	Enviro impact
2016LW&b	M	A	STXM	TiO ₂ nanotubes, anatase ,rutile	
2016MH&	M	A	STXM	PEM-FC MEA	FIB damages
2016MJ&	M	A	STXM	solution processed solar cells	
2016MK&	M	A	ptycho		SHARP GUI code
2016ML&b	B	A	STXM	<i>Planococcus halocryophilus Or1</i>	Sub-15 C growth
2016MT&	B,E	A	XPEEM	Oyster adhesive	
2016MWJ	M	A	STXM		Regularizers for NNM analysis
2016OI&	B	A	STXM	HeLa cells	DNA, protein
2016ON&	M	I	STXM	Humidity, azi-rotate, tomo, echem	In situ sample cells
2016PA&	M	A	STXM		Selective chelation of Ln ⁴⁺
2016PB&	M	A	ptycho	Real-time data intensive processing	
2016PG&	M	A	STXM	nanobubbles	
2016PG&	E	A	STXM	stromatolites	
2016PP&	M	A	STXM	photo-generated anti-fouling surfaces	
2016PS&	M	A	STXM	PEM-FC Fuel cell electrodes	Tomography, modeling
2016PY&	M	A	STXM	CeO ₂	solubility
2016SF&	M	A	STXM, ptycho	SmCo ₅	XMCD
2016SO&	E, M	R	STXM	FeBoN ₁ , fuel cells	tomography

code	materials	type	tech	species	Comments
2016TB&	B,E	A	STXM	lignocellulosic plant cell walls (Ca)	
2016TG&	E	A, R	STXM	Deep Ocean Particle analysis	
2016TI&	M	I	STXM		Compact STXM PF
2016VF&	M	A	ptycho		X-ray phase ptycho-tomo
2016WB&	M,E	A	STXM	uranyl materials	
2016WH&	E	A	STXM	airborne particles in precipitation	
2016WH&b	M	A	STXM	Mesoporous Organosilica	
2016WN&	M	A	STXM ptycho	catalysts	
2016WR	M	A	STXM	STXXM data file format NeXus	
2016WW&a	M	A	STXM, ptycho	catalyst imaging	
2016WW&b	M	A	STXM	BN co-doped graphene	
2016YH&	M	A	STXM	Monosulfoaluminate in NaCl	Solution phase changes
2016ZH&a	M	A	STXM, ptycho	Magnetite magnetosomes, MV-1 MTB	7 nm resolution at 700 eV
2016ZK&	M	A	STXM	multiple species organic PV cells	
2016ZS&	E	A	STXM		ScatterJ – correlating signals
2016ZT&	M	A	STXM, ptycho	magnetosomes	
2017KZ&	E	A	STXM	Carbonaceous matter, Sharps meteorite	
2017LT&	M	I	STXM		PMT-phosphor detector
2017MC&	M	A	ptycho	LiFePO4	Li battery; refractive analysis methodology
2017SB&	M	A	STXM	Polyurethane & reinforcing particles	C K-edge performance
2017WX&	M	A	ptycho		Background removal algorithm
2017ZW&	M	A	STXM	LiNi _{1/3} Fe _{1/3} Mn _{4/3} O ₄	Li battery
2106HM&	M	A	STXM	BHJ Solar cells	
	M	A	STXM		
	M	A	STXM		
	M	A	STXM		