

# Curriculum Vitæ

---

## Informazioni personali

Nome D'ACAPITO Francesco  
Indirizzo 71 Avenue des Martyrs - F-38000 - Grenoble ()  
Telefono +33 4 7688 2426  
E-mail dacapito@esrf.fr  
Cittadinanza ITA  
Data di nascita 27/05/1966

## Titoli di studio

Data di conseguimento 17/05/2005  
Titolo conseguito Altro titolo di studio  
Descrizione Diplome d'Habilitation  $\frac{1}{2}$  diriger des recherches  
Voto conseguito habilit $\frac{1}{2}$   
Nome e indirizzo istituzione Universit $\frac{1}{2}$  Joseph Fourier Grenoble 1 - - Grenoble

A.A. conseguimento 1996/1997  
Titolo conseguito Altro titolo di studio  
Descrizione PhD francese  
Nome e indirizzo istituzione Universite' Joseph Fourier - Grenoble  
Tipo istituzione Universit $\frac{1}{2}$  straniera

Data di conseguimento 30/01/1992  
Titolo conseguito Laurea (vecchio ordin.)  
Descrizione Laurea in fisica  
Voto conseguito 110/110 cum laude  
Titolo della Tesi Studio della cristallizzazione di leghe Ni-B amorfe tramite spettroscopia exafs risolta in tempo  
Nome e indirizzo istituzione Universit $\frac{1}{2}$  degli Studi di ROMA "La Sapienza" - P.zza Aldo Moro, 5 - ROMA

## Esperienze

Periodo 01/01/2020 - oggi  
Posizione Altro  
Qualifica Dirigente di ricerca  
Tipo di attività svolta Dirigente di ricerca  
Nome e indirizzo istituzione Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma

Esperienza Partecipazione a progetto di ricerca

Tipo di attività svolta	Partecipazione a progetto NEWLI
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Tipo bando	PRIN 2015
Anno bando	2015
Responsabile U.O.	Patrick O Keefe
Esperienza	Partecipazione a progetto di ricerca
Tipo di attività svolta	Studio dell'interazione tra minerali e sistemi biologici
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Titolo progetto	Interazione fra minerali e biosfera: conseguenze per l'ambiente e la salute umana
Tipo bando	prin 2011
Anno bando	2011
Responsabile U.O.	antonio gianfagna
Periodo	04/05/2011 - oggi
Posizione	Altro
Tipo di attività svolta	Purchase advisor per l'Italia presso ESRF
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Dipartimento Scienze fisiche e tecnologie della materia
Periodo	01/01/2011 - oggi
Posizione	Altro
Qualifica	Primo ricercatore
Tipo di attività svolta	Membro della delegazione italiana dell'Administrative and Finance committee dell'ESRF
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Dipartimento Scienze fisiche e tecnologie della materia
Periodo	24/01/2006 - oggi
Posizione	Ricercatore all'estero
Qualifica	Ricercatore
Tipo di attività svolta	Responsabile della sede di lavoro OGG del CNR presso l'ESRF di grenoble
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Periodo	01/06/2005 - oggi
Posizione	Ricercatore presso Ente di ricerca
Qualifica	Primo ricercatore
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Periodo	19/05/2019 - oggi
Posizione	Altro
Qualifica	Professore Ordinario
Tipo di attività svolta	Abilitazione a professore di I fascia

Nome e indirizzo istituzione	Ministero dell'Istruzione, dell'Università e della Ricerca - Via Carcani 61 - Roma
Periodo	12/01/2018 - oggi
Posizione	Consulente scientifico
Qualifica	Consulente
Tipo di attività svolta	Membro del consiglio di amministrazione dell'Union pour la Science et Technologie
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Periodo	19/09/2017 - 19/09/2020
Posizione	Consulente scientifico
Qualifica	Consulente
Tipo di attività svolta	Membro del comitato di controllo tesi di dottorato (comitato di supervisione)
Nome e indirizzo istituzione	Università Grenoble Alpes - - Grenoble
Periodo	01/01/2015 - 31/12/2019
Posizione	Ricercatore all'estero
Qualifica	Ricercatore
Tipo di attività svolta	Responsabile scientifico del progetto LISA presso l'ESRF
Nome e indirizzo istituzione	European Synchrotron Radiation Facility - -
Struttura	Istituto Officina dei Materiali
Periodo	18/11/2019 - 22/11/2019
Posizione	Altro
Qualifica	Primo ricercatore
Tipo di attività svolta	Co-organizzatore scuola "How to assess the structure of glasses ?"
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Esperienza	Partecipazione a progetto di ricerca
Tipo di attività svolta	partecipazione al progetto EXPROREL
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Istituto Officina dei Materiali
Titolo progetto	EXcitation PROCesses and RELaxation in condensed matter and nanostructures: methodological, instrumental, and scientific challenges
Tipo bando	PIK
Anno bando	2012
Responsabile U.O.	federico boscherini
Periodo	01/01/2010 - 31/12/2014
Posizione	Ricercatore all'estero
Qualifica	Ricercatore
Tipo di attività svolta	Responsabile scientifico della beamline GILDA presso l'esrf
Nome e indirizzo istituzione	European Synchrotron Radiation Facility - -

Periodo	01/01/2010 - 31/12/2012
Esperienza	Partecipazione a progetto di ricerca
Tipo di attività svolta	Progetto su materiali luminescenti nel campo della fotonica e medicina
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Titolo progetto	Struttura locale di vetroceramiche e nanoparticelle core-shell drogate con ioni di terre rare studiata con spettroscopia di assorbimento di raggi X.
Tipo bando	Progetti comuni CNR
Anno bando	2010
Responsabile U.O.	Francesco d' Acapito
Periodo	13/07/2012 - 12/11/2012
Posizione	Consulente scientifico
Qualifica	Consulente
Tipo di attività svolta	Membro di review panel per la beamline SAMBA
Nome e indirizzo istituzione	Synchrotron SOLEIL - L'Orme des Merisiers Saint-Aubin - BP 48 91192 - Gif sur Yvette
Periodo	19/09/2011 - 17/01/2012
Posizione	Consulente scientifico
Qualifica	Consulente
Tipo di attività svolta	Consulente per valutazione progetto Super B
Nome e indirizzo istituzione	SILS - Società ½ Italiana di Luce di Sincrotrone - -

**Elenco dei prodotti della ricerca**

D'Acapito F, Kowalczyk P, Raty JY, Sabbione C, Hippert F, Noe P (2020). Local structure of [(GeTe)<sub>2</sub>]/(Sb<sub>2</sub>Te<sub>3</sub>)(m)](n)super-lattices by x-ray absorption spectroscopy. JOURNAL OF PHYSICS D. APPLIED PHYSICS, vol. 53, ISSN: 0022-3727, doi: 10.1088/1361-6463/ab98c1

Fantin A, Lepore GO, Manzoni AM, Kasatikov S, Scherb T, Huthwelker T, d'Acapito F, Schumacher G (2020). Short-range chemical order and local lattice distortion in a compositionally complex alloy. ACTA MATERIALIA, vol. 193, p. 329-337, ISSN: 1359-6454, doi: 10.1016/j.actamat.2020.04.034

Kesavan JK, d'Acapito F, Scardi P, Stavrinadis A, Akgul MZ, Burgues-Ceballos I, Konstantatos G, Boscherini F (2020). Cation Disorder and Local Structural Distortions in Ag<sub>x</sub>Bi<sub>1-x</sub>S<sub>2</sub> Nanoparticles. NANOMATERIALS, vol. 10, ISSN: 2079-4991, doi: 10.3390/nano10020316

Kuznetsov AV, Churkin OA, Popov VV, Shchetinin IV, Ivanov AA, Yastrebsev AA, Gaynanov BR, Yaroslavtsev AA, Chernysheva OV, d'Acapito F, Puri A, Alekseev PA, Menushenkov AP (2020). Magnetization of Crystalline and Amorphous Phases of  $R(2)Ti(2)O(7)$  and  $R_2Zr_2O_7$  ( $R = Gd, Dy, Tb$ ). JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol. 33, p. 2395-2404, ISSN: 1557-1939, doi: 10.1007/s10948-019-05388-y

Ma YJ, Ma Y, Giuli G, Euchner H, Gross A, Lepore GO, d'Acapito F, Geiger D, Biskupek J, Kaiser U, Schutz HM, Carlsson A, Diemant T, Behm RJ, Kuenzel M, Passerini S, Bresser D (2020). Introducing Highly Redox-Active Atomic Centers into Insertion-Type Electrodes for Lithium-Ion Batteries. ADVANCED ENERGY MATERIALS, vol. 10, ISSN: 1614-6832, doi: 10.1002/aenm.202000783 EA MAY 2020

Marmioli M, Lepore GO, Pagano L, d'Acapito F, Gianoncelli A, Villani M, Lazzarini L, White JC, Marmioli N (2020). The fate of CdS quantum dots in plants as revealed by extended X-ray absorption fine structure (EXAFS) analysis. ENVIRONMENTAL SCIENCE, vol. 7, p. 1150-1162, ISSN: 2051-8153, doi: 10.1039/c9en01433k

Noe P, Verdy A, d'Acapito F, Dory JB, Bernard M, Navarro G, Jager JB, Gaudin J, Raty JY (2020). Toward ultimate nonvolatile resistive memories: The mechanism behind ovonic threshold switching revealed. SCIENCE ADVANCES, vol. 6, ISSN: 2375-2548, doi: 10.1126/sciadv.aay2830

Petroselli C, Moroni B, Crocchianti S, Selvaggi R, Soggia F, Grotti M, d'Acapito F, Cappelletti D (2020). Iron Speciation in Different Saharan Dust Advections and Effect of the Procedural Blank on the Results From X-ray Absorption Spectroscopy and Selective Leaching Experiments. ATMOSPHERE, vol. 11, ISSN: 2073-4433, doi: 10.3390/atmos11070735

Popov VV, Menushenkov AP, Ivanov AA, Yastrebsev AA, Gaynanov BR, d'Acapito F, Puri A (2020). A XAFS investigation of amorphous-to-crystalline and fluorite-to-pyrochlore phase transitions in  $Ln(2)M(2)O(7)$  ( $Ln = Gd, Tb, Dy; M = Ti, Zr$ ). RADIATION PHYSICS AND CHEMISTRY, vol. 175, ISSN: 0969-806X, doi: 10.1016/j.radphyschem.2019.108469

Scherb T, Fantin A, Checchia S, Stephan-Scherb C, Escolastico S, Franz A, Seeger J, Meulenberg WA, d'Acapito F, Serra JM (2020). Unravelling the crystal structure of Nd<sub>5.8</sub>WO<sub>12</sub>-delta and Nd<sub>5.7</sub>W<sub>0.75</sub>Mo<sub>0.25</sub>O<sub>12</sub>-delta mixed ionic electronic conductors. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 53, p. 1471-1483, ISSN: 0021-8898, doi: 10.1107/S1600576720012698

Baekelant W, Aghakhani S, Fron E, Martin C, Woong-Kim C, Steele JA, De Baerdemaeker T, d'Acapito F, Chernysov D, van der Auweraer M, Lievens P, Grandjean D, Roeffaers M, Hofkens J, Coutino-Gonzalez E (2019). Luminescent silver-lithium-zeolite phosphors for near-ultraviolet LED applications. JOURNAL OF MATERIALS CHEMISTRY. C, vol. 7, p. 14366-14374, ISSN: 2050-7526, doi: 10.1039/c9tc04674g

Berretti Enrico, Giaccherini Andrea, Montegrossi Giordano, D'Acapito F, Di Benedetto Francesco, Zafferoni Claudio, Puri Alessandro, Lepore Giovanni Orazio, Miller Hamish, Giurlani Walter, Innocenti Massimo, Vizza Francesco, Lavacchi Alessandro (2019). In-situ Quantification of Nanoparticles Oxidation: A Fixed Energy X-ray Absorption Approach. CATALYSTS, vol. 9, ISSN: 2073-4344, doi: 10.3390/catal9080659

Di Benedetto Francesco, Giaccherini Andrea, Montegrossi Giordano, Pardi Luca A., Zoleo Alfonso, Capolupo Ferdinando, Innocenti Massimo, Lepore Giovanni O., d'Acapito F, Capacci Fabio, Poli Carla, Iaia Tonina Enza, Buccianti Antonella, Romanelli Maurizio (2019). Chemical variability of artificial stone powders in relation to their health effects. SCIENTIFIC REPORTS, vol. 9, ISSN: 2045-2322, doi: 10.1038/s41598-019-42238-2

Erik Haubold, Philipp Sch€oppe, Stefanie Eckner, Sebastian Lehmann, Ivan Colantoni, d'Acapito F, Francesco di Benedetto, Susan Schorr, Claudia S. Schnohr (2019). Short-range versus long-range structure in Cu(In,Ga)Se<sub>2</sub>, Cu(In,Ga)<sub>3</sub>Se<sub>5</sub>, and Cu(In,Ga)<sub>5</sub>Se<sub>8</sub>. JOURNAL OF ALLOYS AND COMPOUNDS, vol. 774, p. 803-812, ISSN: 0925-8388, doi: 10.1016/j.jallcom.2018.10.026

George Luke L., Biagioni Cristian, Lepore Giovanni Orazio, Lacalamita Maria, Agrosi Giovanna, Capitani Gian Carlo,

Bonaccorsi Elena, d'Acapito F (2019). The speciation of thallium in (Tl,Sb,As)-rich pyrite. ORE GEOLOGY REVIEWS, vol. 107, p. 364-380, ISSN: 0169-1368, doi: 10.1016/j.oregeorev.2019.02.031

Kumar A., Naumenko D., Rossi G., Magnano E., Nappini S., Bondino F., Segoloni E., Amidani L., d'Acapito F, Boscherini F., Barba L., Pace E., Benfatto M., Casassa S., Pedio M. (2019). The effect of long-range order on intermolecular interactions in organic semiconductors: zinc octaethyl porphyrin molecular thin film model systems. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 21, p. 22966-22975, ISSN: 1463-9076, doi: 10.1039/c9cp00954j

Menushenkov A. P., Popov V. V., Gaynanov B. R., Ivanov A. A., Kuznetsov A. V, Yaroslavtsev A. A., d'Acapito F, Puri A. (2019). Local Disorder in  $\text{Ln}_2\text{Ti}_2\text{O}_7$  ( $\text{Ln} = \text{Gd}, \text{Tb}, \text{Dy}$ ) Pyrochlores. JETP LETTERS, vol. 109, p. 529-535, ISSN: 0021-3640, doi: 10.1134/S0021364019080095

Petroselli Chiara, Moroni Beatrice, Crocchianti Stefano, Selvaggi Roberta, Vivani Riccardo, Soggia Francesco, Grotti Marco, d'Acapito F, Cappelletti David (2019). Iron Speciation of Natural and Anthropogenic Dust by Spectroscopic and Chemical Methods. ATMOSPHERE, vol. 10, ISSN: 2073-4433, doi: 10.3390/atmos10010008

Popov V. V., Menushenkov A. P., Ivanov A. A., Gaynanov B. R., Yastrebtsev A. A., d'Acapito F, Puri A., Castro G. R., Shchetinin I. V., Zheleznyi M. V., Zubavichus Ya. V., Ponkratov K. V. (2019). Comparative analysis of long- and short-range structures features in titanates  $\text{Ln}_2\text{Ti}_2\text{O}_7$  and zirconates  $\text{Ln}_2\text{Zr}_2\text{O}_7$  ( $\text{Ln} = \text{Gd}, \text{Tb}, \text{Dy}$ ) upon the crystallization process. JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol. 130, p. 144-153, ISSN: 0022-3697, doi: 10.1016/j.jpcs.2019.02.019

Pugliese G. M., Stramaglia F., Goto Y., Terashima K., Simonelli L., Fujiwara H., Puri A., Marini C., Hacısalihoglu M. Y., d'Acapito F, Yokoya T., Mizokawa T., Mizuguchi Y., Saini N. L. (2019). Temperature dependent local atomic displacements in  $\text{NaSn}_2\text{As}_2$  system. JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 31, ISSN: 0953-8984, doi: 10.1088/1361-648X/ab2bd4

Puri Alessandro, Lepore Giovanni Orazio, d'Acapito F (2019).

The New Beamline LISA at ESRF: Performances and Perspectives for Earth and Environmental Sciences. CONDENSED MATTER, vol. 4, ISSN: 2410-3896, doi: 10.3390/condmat4010012

Schmidt N. Y., Laureti S., Radu F., Ryll H., Luo C., d'Acapito F, Tripathi S., Goering E., Weller D., Albrecht M. (2019). Structural and magnetic properties of FePt-Tb alloy thin films. PHYSICAL REVIEW. B, vol. 100, ISSN: 2469-9950, doi: 10.1103/PhysRevB.100.064428

Vanni Matteo, Serrano-Ruiz Manuel, Telesio Francesca, Heun Stefan, Banchelli Martina, Matteini Paolo, Mio Antonio Massimiliano, Nicotra Giuseppe, Spinella Corrado, Caporali Stefano, Giaccherini Andrea, D'Acapito F, Caporali Maria, Peruzzini Maurizio (2019). Black Phosphorus/Palladium Nanohybrid: Unraveling the Nature of P-Pd Interaction and Application in Selective Hydrogenation. CHEMISTRY OF MATERIALS, vol. 31, p. 5075-5080, ISSN: 0897-4756, doi: 10.1021/acs.chemmater.9b00851

Verdy Anthonin, d'Acapito F, Dory Jean-Baptiste, Navarro Gabriele, Bernard Mathieu, Noe Pierre (2019). Effect of Nitrogen on the Amorphous Structure and Subthreshold Electrical Conduction of GeSeSb-Based Ovonic Threshold Switching Thin Films. PHYSICA STATUS SOLIDI. RAPID RESEARCH LETTERS, ISSN: 1862-6254, doi: 10.1002/pssr.201900548 EA NOV 2019

d'Acapito F, Lepore Giovanni Orazio, Puri Alessandro, Laloni Alessio, La Manna Fabrizio, Dettona Eric, De Luisa Aleksander, Martin Andrea (2019). The LISA beamline at ESRF. JOURNAL OF SYNCHROTRON RADIATION, vol. 26, p. 551-558, ISSN: 0909-0495, doi: 10.1107/S160057751801843X

Baekelant Wouter, Aghakhani Saleh, Coutino-Gonzalez Eduardo, Grandjean Didier, Kennes Koen, Jonckheere Dries, Fron Eduard, D'ACAPITO F, Longo Alessandro, Lievens Peter, Roeffaers Maarten B. J., Hofkens Johan (2018). Confinement of Highly Luminescent Lead Clusters in Zeolite A. JOURNAL OF PHYSICAL CHEMISTRY. C, vol. 122, p. 13953-13961, ISSN: 1932-7447, doi: 10.1021/acs.jpcc.8b01107

C S Schnohr, S Eckner, P Schoppe, E Haubold, D'ACAPITO

F, D Greiner, C A Kaufmann (2018). Reversible correlation between subnanoscale structure and Cu content in co-evaporated Cu(In,Ga)Se<sub>2</sub> thin films. ACTA MATERIALIA, vol. 153, p. 8-14, ISSN: 1359-6454, doi: 10.1016/j.actamat.2018.04.047

Erik Haubold, Philipp Schoppe, Stefanie Eckner, Sebastian Lehmann, Ivan Colantoni, D'ACAPITO F, Francesco di Benedetto, Susan Schorr, C. S. Schnohr (2018). Short-range versus long-range structure in Cu(In,Ga)Se<sub>2</sub>, Cu(In,Ga)<sub>3</sub>Se<sub>5</sub>, and Cu(In,Ga)<sub>5</sub>Se. JOURNAL OF ALLOYS AND COMPOUNDS, vol. 774, p. 803-812, ISSN: 0925-8388, doi: 10.1016/j.jallcom.2018.10.026

Grandjean Didier, Coutino-Gonzalez Eduardo, Ngo Tuan Cuong, Fron Eduard, Baekelant Wouter, Aghakhani Saleh, Schlexer Philomena, D'ACAPITO F, Banerjee Dipanjan, Roeffaers Maarten B. J., Minh Tho Nguyen, Hofkens Johan, Lievens Peter (2018). Origin of the bright photoluminescence of few-atom silver clusters confined in LTA zeolites. SCIENCE, vol. 361, p. 686-689, ISSN: 0036-8075, doi: 10.1126/science.aaq1308

Mula Guido, Printemps Tony, Licitra Christophe, Sogne Elisa, D'Acapito Francesco, Gambacorti Narciso, Sestu Nicola, Saba Michele, Pinna Elisa, Chiriu Daniele, Ricci Pier Carlo, Casu Alberto, Quochi Francesco, Mura Antonio Andrea, Bongiovanni Giovanni, Falqui Andrea (2018). A new paradigm for infrared light emission from Er-doped porous silicon. In: ISA 2018 - Incontro di spettroscopia analitica. Cagliari, 5-8 giugno 2018

Mula Guido, Printemps Tony, Licitra Christophe, Sogne Elisa, D'Acapito Francesco, Gambacorti Narciso, Sestu Nicola, Saba Michele, Pinna Elisa, Chiriu Daniele, Ricci Pier Carlo, Casu Alberto, Quochi Francesco, Mura Antonio Andrea, Bongiovanni Giovanni, Falqui Andrea (2018). Light emission from porous silicon: pores filling as a solution to avoid the Er-clustering drawback. In: E-MRS Spring Meeting 2018. Strasbourg (Francia), 18-22 giugno 2018

Mula Guido, Printemps Tony, Licitra Christophe, Sogne Elisa, D'Acapito Francesco, Gambacorti Narciso, Sestu Nicola, Saba Michele, Pinna Elisa, Chiriu Daniele, Ricci Pier Carlo, Casu Alberto, Quochi Francesco, Mura Antonio

Andrea, Bongiovanni Giovanni, Falqui Andrea (2018). Pores filling as a new paradigm for the efficient design of erbium-doped porous silicon light-emitting structures. In: PSST 2018. LA GRANDE MOTTE, FRANCIA, 11-16 marzo 2018

Stellato Francesco, Calandra Matteo, D'ACAPITO F, De Santis Emiliano, La Penna Giovanni, Rossi Giancarlo, Morante Silvia (2018). Multi-scale theoretical approach to X-ray absorption spectra in disordered systems: an application to the study of Zn(II) in water. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 20, p. 24775-24782, ISSN: 1463-9076, doi: 10.1039/c8cp04355h

Ting-Wei Liao, Anupam Yadav, Kuo-Juei Hu, Johan van der Tol, Salvatore Cosentino, d'Acapito F, Richard E. Palmer, Cristina Lenardi, Riccardo Ferrando, Didier Grandjean, Peter Lievens (2018). Unravelling the nucleation mechanism of bimetallic nanoparticles with composition-tunable core-shell arrangement. NANOSCALE, vol. 10, ISSN: 2040-3364, doi: 10.1039/c8nr01481g

V.V. Popov, A.P. Menushenkov, B.R. Gaynanov, A.A. Ivanov, D'ACAPITO F, A. Puri, I.V. Shchetinin, M.V. Zheleznyi c, M.M. Berdnikova a, A.A. Pisarev, A.A. Yastrebsev, N.A. Tsarenko, L.A. Arzhatkina, O.D. Horozova, I.G. Rachenok, K.V. Ponkratov (2018). Formation and evolution of crystal and local structures in nanostructured Ln<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub> (Ln <sup>1/4</sup> Gd<sub>3/4</sub>Dy). JOURNAL OF ALLOYS AND COMPOUNDS, vol. 746, p. 377-390, ISSN: 0925-8388, doi: 10.1016/j.jallcom.2018.02.263

Wouter Baekelant, Saleh Aghakhani, Eduardo Coutino-Gonzalez, Koen Kennes, D'ACAPITO F, Didier Grandjean, Mark Van der Auweraer, Peter Lievens, Maarten B. J. Roeffaers, Johan Hofkens, † and Julian A. Steele (2018). Shaping the Optical Properties of Silver Clusters Inside Zeolite A via Guest-Host-Guest Interactions. THE JOURNAL OF PHYSICAL CHEMISTRY LETTERS, vol. 9, p. 5344-5350, ISSN: 1948-7185, doi: 10.1021/acs.jpcclett.8b01890

Biagioni C, D'Orazio M, Lepore GO, d'Acapito F, Vezzoni S (2017). Thallium-rich rust scales in drinkable water distribution systems: A case study from northern Tuscany,

Italy. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 587, p. 491-501, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2017.02.177

Miller, H.A., Vizza, F., Lavacchi, A., Di Benedetto, F., D'ACAPITO F, Page, M., Paska, Y., Marelli, M., Dekel, D.R. (2017). Nanostructured anode electrocatalysts for high performance platinum free anion exchange membrane fuel cells. In: Proceedings europacat 2017. Firenze (Italy), 27 agosto 2017

Minguzzi A, Naldoni A, Lugaresi O, Achilli E, D'Acapito F, Malara F, Locatelli C, Vertova A, Rondinini S, Ghigna P (2017). Observation of charge transfer cascades in alpha-Fe<sub>2</sub>O<sub>3</sub>/IrO<sub>x</sub> photoanodes by operando X-ray absorption spectroscopy. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 19, p. 5715-5720, ISSN: 1463-9076, doi: 10.1039/c6cp08053g

Montegrossi G, Giaccherini A, Berretti E, Di Benedetto F, Innocenti M, d'Acapito F, Lavacchi A (2017). Computational Speciation Models: A Tool for the Interpretation of Spectroelectrochemistry for Catalytic Layers under Operative Conditions. JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol. 164, p. E3690-E3695, ISSN: 0013-4651, doi: 10.1149/2.0711711jes

Mula G, Printemps T, Licitra C, Sogne E, D'Acapito F, Gambacorti N, Sestu N, Saba M, Pinna E, Chiriu D, Ricci PC, Casu A, Quochi F, Mura A, Bongiovanni G, Falqui A (2017). Doping porous silicon with erbium: pores filling as a method to limit the Er-clustering effects and increasing its light emission. SCIENTIFIC REPORTS, vol. 7, ISSN: 2045-2322, doi: 10.1038/s41598-017-06567-4

Baran T, Fracchia M, Vertova A, Achilli E, Naldoni A, Malara F, Rossi G, Rondinini S, Ghigna P, Minguzzi A, D'Acapito F (2016). Operando and Time-Resolved X-Ray Absorption Spectroscopy for the Study of Photoelectrode Architectures. ELECTROCHIMICA ACTA, vol. 207, p. 16-21, ISSN: 0013-4686, doi: 10.1016/j.electacta.2016.04.153

Di Benedetto F, Bencista I, D'Acapito F, Frizzera S, Caneschi A, Innocenti M, Lavacchi A, Montegrossi G, Oberhauser W, Romanelli M, Dittrich H, Pardi LA, Tippelt G, Amthauer G (2016). Geomaterials related to photovoltaics: a

nanostructured Fe-bearing kuramite, Cu<sub>3</sub>SnS<sub>4</sub>. PHYSICS AND CHEMISTRY OF MINERALS, vol. 43, p. 535-544, ISSN: 0342-1791, doi: 10.1007/s00269-016-0814-9

Giaccherini A, Colantoni I, D'Acapito F, De Luca A, Capolup F, Montegrossi G, Romanelli M, Innocenti M, Di Benedetto F (2016). Green synthesis of pyrite nanoparticles for energy conversion and storage: a spectroscopic investigation. EUROPEAN JOURNAL OF MINERALOGY, vol. 28, p. 611-618, ISSN: 0935-1221, doi: 10.1127/ejm/2016/0028-2534

Miller Hamish A., Lavacchi Alessandro, Vizza Francesco, Marelli Marcello, Di Benedetto Francesco, D'ACAPITO F, D. I., Paska Yair, Page Miles, Dekel Dario R. (2016). A Pd/C-CeO<sub>2</sub> Anode Catalyst for High-Performance Platinum-Free Anion Exchange Membrane Fuel Cells. ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, vol. 55, p. 6004-6007, ISSN: 1433-7851, doi: 10.1002/anie.201600647

Noe P, Sabbione C, Castellani N, Veux G, Navarro G, Sousa V, Hippert F, d'Acapito F (2016). Structural change with the resistance drift phenomenon in amorphous GeTe phase change materials' thin films. JOURNAL OF PHYSICS D. APPLIED PHYSICS, vol. 49, ISSN: 0022-3727, doi: 10.1088/0022-3727/49/3/035305

Paul MC, Bysakh S, Das S, Dhar A, Pal M, Bhadra SK, Sahu JK, Kir'yanov AV, d'Acapito F (2016). Recent Developments in Rare-Earths Doped Nano-Engineered Glass Based Optical Fibers for High Power Fiber Lasers. TRANSACTIONS OF THE INDIAN CERAMIC SOCIETY, vol. 75, p. 195-208, ISSN: 0371-750X, doi: 10.1080/0371750X.2016.1251852

Rossi G, d'Acapito F, Amidani L, Boscherini F, Pedio M (2016). Local environment of metal ions in phthalocyanines: K-edge X-ray absorption spectra. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 18, p. 23686-23694, ISSN: 1463-9076, doi: 10.1039/c6cp04022e

Stavrinadis A, Cresi JSP, d'Acapito F, Magen C, Boscherini F, Konstantatos G (2016). Aliovalent Doping in Colloidal Quantum Dots and Its Manifestation on Their Optical Properties: Surface Attachment versus Structural Incorporation. CHEMISTRY OF MATERIALS, vol. 28, p.

5384-5393, ISSN: 0897-4756, doi:  
10.1021/acs.chemmater.6b01445

d'Acapito F, Pelli-Cresi S, Blanc W, Benabdesselam M, Mady F, Gredin P, Mortier M (2016). The incorporation site of Er in nanosized CaF<sub>2</sub>. JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 28, ISSN: 0953-8984, doi:  
10.1088/0953-8984/28/48/485301

d'Acapito F, Souchier E, Noe P, Blaise P, Bernard M, Jousseau V (2016). Chemical state of Ag in Conducting Bridge Random Access Memory cells: a depth resolved X-ray Absorption Spectroscopy investigation.. JOURNAL OF PHYSICS. CONFERENCE SERIES, vol. 712, ISSN: 1742-6588, doi: 10.1088/1742-6596/712/1/012046

d'Acapito F, Souchier E, Noe P, Blaise P, Bernard M, Jousseau V (2016). Role of Sb dopant in Ag:GeS<sub>x</sub>-based conducting bridge random access memories. PHYSICA STATUS SOLIDI. A, APPLICATIONS AND MATERIALS SCIENCE, vol. 213, p. 311-315, ISSN: 1862-6300, doi: 10.1002/pssa.201532383

d'Acapito F, Torrenco S, Xenogiannopoulou E, Tsipas P, Velasco JM, Tsoutsou D, Dimoulas A (2016). Evidence for Germanene growth on epitaxial hexagonal (h)-AlN on Ag(111). JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 28, ISSN: 0953-8984, doi:  
10.1088/0953-8984/28/4/045002

d'Acapito F, Trapananti A, Puri A (2016). LISA: the Italian CRG beamline for x-ray Absorption Spectroscopy at ESRF. JOURNAL OF PHYSICS. CONFERENCE SERIES, vol. 712, ISSN: 1742-6588, doi: 10.1088/1742-6596/712/1/012021

d'acapito F (2016). Reflection XAFS. In: (a cura di): Iwasawa Y., Asakura K., Tada M. , XAFS Techniques for Catalysts, Nanomaterials, and Surfaces . p. 207-227, Springer, Cham, ISBN: 978-3-319-43864-1, doi:  
10.1007/978-3-319-43866-5\_15

d'acapito f (2016). X-ray Absorption Spectroscopy Studies on Materials Obtained by the Sol-Gel Route. In: (a cura di): Klein L., Aparicio M., Jitianu A. (eds), Handbook of Sol-Gel

Science and Technology. Svizzera:Springer International Publishing AG, ISBN: 978-3-319-19454-7, doi: 10.1007/978-3-319-19454-7\_31-1

Di Benedetto F, Cinotti S, D'Acapito F, Vizza F, Foresti ML, Guerri A, Lavacchi A, Montegrossi G, Romanelli M, Cioffi N, Innocenti M (2015). Electrodeposited semiconductors at room temperature: an X-ray Absorption Spectroscopy study of Cu-, Zn-, S-bearing thin films. *ELECTROCHIMICA ACTA*, vol. 179, p. 495-503, ISSN: 0013-4686, doi: 10.1016/j.electacta.2015.05.168

Giuli G, Trapananti A, Mueller F, Bresser D, d'Acapito F, Passerini S (2015). Insights into the Effect of Iron and Cobalt Doping on the Structure of Nanosized ZnO. *INORGANIC CHEMISTRY*, vol. 54, p. 9393-9400, ISSN: 0020-1669, doi: 10.1021/acs.inorgchem.5b00493

Maurizio C, Checchetto R, Trapananti A, Rizzo A, D'Acapito F, Miotello A (2015). In Situ X-ray Absorption Spectroscopy-X-ray Diffraction Investigation of Nb-H Nanoclusters in MgH<sub>2</sub> during Hydrogen Desorption. *JOURNAL OF PHYSICAL CHEMISTRY. C*, vol. 119, p. 7765-7770, ISSN: 1932-7447, doi: 10.1021/acs.jpcc.5b00252

Pollastri S, D'Acapito F, Trapananti A, Colantoni I, Andreozzi GB, Gualtieri AF (2015). The chemical environment of iron in mineral fibres. A combined X-ray absorption and Mossbauer spectroscopic study. *JOURNAL OF HAZARDOUS MATERIALS*, vol. 298, p. 282-293, ISSN: 0304-3894, doi: 10.1016/j.jhazmat.2015.05.010

Souchier E, D'Acapito F, Noe P, Blaise P, Bernard M, Jousseau V (2015). The role of the local chemical environment of Ag on the resistive switching mechanism of conductive bridging random access memories. *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, vol. 17, p. 23931-23937, ISSN: 1463-9076, doi: 10.1039/c5cp03601a

Torrenzo S, Paul MC, Halder A, Das S, Dhar A, Sahu JK, Jain S, Kir'yanov AV, d'Acapito F (2015). EXAFS studies of the local structure of bismuth centers in multicomponent silica glass based optical fiber preforms. *JOURNAL OF NON-CRYSTALLINE SOLIDS*, vol. 410, p. 82-87, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2014.11.027

Van TTT, Turrell S, Capoen B, Vinh LQ, Cristini-Robbe O, Bouazaoui M, d'Acapito F, Ferrari M, Ristic D, Lukowiak A, Almeida R, Santos L, Kinowski C (2015). Erbium-Doped Tin-Silicate Sol-Gel-Derived Glass-Ceramic Thin Films: Effect of Environment Segregation on the Er<sup>3+</sup> Emission. SCIENCE OF ADVANCED MATERIALS, vol. 7, p. 301-308, ISSN: 1947-2935, doi: 10.1166/sam.2015.2022

Wang LQ, Lavacchi A, Bellini M, D'Acapito F, Di Benedetto F, Innocenti M, Miller HA, Montegrossi G, Zafferoni C, Vizza F (2015). Deactivation of Palladium Electrocatalysts for Alcohols Oxidation in Basic Electrolytes. ELECTROCHIMICA ACTA, vol. 177, p. 100-106, ISSN: 0013-4686, doi: 10.1016/j.electacta.2015.02.026

d'acapito F (2015). Group III-V and II-VI Nanowires. In: (a cura di): Schnohr, CS; Ridgway, MC, X-RAY ABSORPTION SPECTROSCOPY OF SEMICONDUCTORS. vol. 190, p. 269-286, berlin:SPRINGER-VERLAG BERLIN, ISBN: 978-3-662-44362-0, doi: 10.1007/978-3-662-44362-0\_13

Costanzo T, Benzi F, Ghigna P, Pin S, Spinolo G, d'Acapito F (2014). Studying the surface reaction between NiO and Al<sub>2</sub>O<sub>3</sub> via total reflection EXAFS (ReflEXAFS). JOURNAL OF SYNCHROTRON RADIATION, vol. 21, p. 395-400, ISSN: 0909-0495, doi: 10.1107/S1600577513031299

Di Benedetto F, D'Acapito F, Capacci F, Fornaciai G, Innocenti M, Montegrossi G, Oberhauser W, Pardi LA, Romanelli M (2014). Variability of the health effects of crystalline silica: Fe speciation in industrial quartz reagents and suspended dusts-insights from XAS spectroscopy. PHYSICS AND CHEMISTRY OF MINERALS, vol. 41, p. 215-225, ISSN: 0342-1791, doi: 10.1007/s00269-013-0640-2

Fortes LM, Goncalves MC, Pereira JC, D'Acapito F (2014). EXAFS study of Er,Yb doped hollow and dense SiO<sub>2</sub> microspheres. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 402, p. 244-251, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2014.06.004

Laureti S, Brombacher C, Makarov D, Albrecht M, Peddis D, Varvaro G, D'Acapito F (2014). EXAFS investigation of the role of Cu on the chemical order and lattice distortion in

L1(0) Fe-Pt-Cu thin films. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 47, p. 1722-1728, ISSN: 1600-5767, doi: 10.1107/S1600576714019268

Niu G, Schubert MA, d'Acapito F, Zoellner MH, Schroeder T, Boscherini F (2014). On the local electronic and atomic structure of Ce<sub>1-x</sub>Pr<sub>x</sub>O<sub>2-delta</sub> epitaxial films on Si. JOURNAL OF APPLIED PHYSICS, vol. 116, ISSN: 0021-8979, doi: 10.1063/1.4896590

d'Acapito F, Blanc W, Dussardier B (2014). Different Er<sup>3+</sup> environments in Mg-based nanoparticle-doped optical fibre preforms. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 401, p. 50-53, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2013.12.040

d'Acapito F, Tagliani SM, Di Benedetto F, Gianfagna A (2014). Local order and valence state of Fe in urban suspended particulate matter. ATMOSPHERIC ENVIRONMENT, vol. 99, p. 582-586, ISSN: 1352-2310, doi: 10.1016/j.atmosenv.2014.10.028

Bergamino M, Relini A, Rispoli P, Giachini L, d'Acapito F, Rolandi R (2013). An EXAFS study of the binding of Cd and Pb ions to lipid films. THE EUROPEAN PHYSICAL JOURNAL. E, SOFT MATTER, vol. 36, ISSN: 1292-8941, doi: 10.1140/epje/i2013-13102-4

D'Acapito F, Pochet P, Somma F, Aloe P, Montereali RM, Vincenti MA, Polosan S (2013). Lead incorporation mechanism in LiF crystals. APPLIED PHYSICS LETTERS, vol. 102, ISSN: 0003-6951, doi: 10.1063/1.4793751

Di Benedetto, D'ACAPITO F, Bencista, I, De Luca, A, Fornaciai, G, Frizzera, S, Innocenti, M, Montegrossi, G, Pardi, LA, Romanelli, M (2013). Preliminary XAS investigations on some phases of the Cu-Sn-S system. PHYSICA STATUS SOLIDI. C, CURRENT TOPICS IN SOLID STATE PHYSICS, vol. 10, p. 1055-1057, ISSN: 1862-6351, doi: 10.1002/pssc.201200753

Di Fraia M, Antonelli M, Tallaire A, Achard J, Carrato S, Menk RH, Cautero G, Giuressi D, Jark WH, D'Acapito F, De Sio A, Pace E (2013). X-Ray Beam Position Monitor Based on a Single Crystal Diamond Performing Bunch by Bunch Detection. JOURNAL OF PHYSICS. CONFERENCE SERIES,

vol. 425, ISSN: 1742-6588, doi:  
10.1088/1742-6596/425/21/212001

Gliozzo E, Barbone AS, D'Acapito F (2013). WASTE GLASS, VESSELS AND WINDOW-PANES FROM THAMUSIDA (MOROCCO): GROUPING NATRON-BASED BLUE-GREEN AND COLOURLESS ROMAN GLASSES. *ARCHAEOMETRY*, vol. 55, p. 609-639, ISSN: 0003-813X, doi: 10.1111/j.1475-4754.2012.00696.x

Minguzzi A, Lugaresi O, Locatelli C, Rondinini S, D'Acapito F, Achilli E, Ghigna P (2013). Fixed Energy X-ray Absorption Voltammetry. *ANALYTICAL CHEMISTRY*, vol. 85, p. 7009-7013, ISSN: 0003-2700, doi: 10.1021/ac401414v

Monteiro G, Santos LF, Almeida RM, D'Acapito F (2013). Local structure around Er<sup>3+</sup> in GeO<sub>2</sub>-TeO<sub>2</sub>-Nb<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O glasses and glass-ceramics. *JOURNAL OF NON-CRYSTALLINE SOLIDS*, vol. 377, p. 129-136, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2012.12.019

Niu G, Zoellner MH, Zaumseil P, Pouliopoulos A, d'Acapito F, Schroeder T, Boscherini F (2013). X-ray diffraction and extended X-ray absorption fine structure study of epitaxial mixed ternary bixbyite Pr<sub>x</sub>Y<sub>2-x</sub>O<sub>3</sub> (x=0-2) films on Si (111). *JOURNAL OF APPLIED PHYSICS*, vol. 113, ISSN: 0021-8979, doi: 10.1063/1.4788982

Pin S, Suardelli M, D'Acapito F, Spinolo G, Zema M, Tarantino SC, Barba L, Ghigna P (2013). Role of Interfacial Energy and Crystallographic Orientation on the Mechanism of the ZnO + Al<sub>2</sub>O<sub>3</sub> -> ZnAl<sub>2</sub>O<sub>4</sub> Solid-State Reaction: II. Reactivity of Films Deposited onto the Sapphire (001) Face. *JOURNAL OF PHYSICAL CHEMISTRY. C*, vol. 117, p. 6113-6119, ISSN: 1932-7447, doi: 10.1021/jp312517w

Pin S, Suardelli M, D'Acapito F, Spinolo G, Zema M, Tarantino SC, Ghigna P (2013). Role of Interfacial Energy and Crystallographic Orientation on the Mechanism of the ZnO + Al<sub>2</sub>O<sub>3</sub> -> ZnAl<sub>2</sub>O<sub>4</sub> Solid-State Reaction: I. Reactivity of Films Deposited onto the Sapphire (110) and (012) Faces. *JOURNAL OF PHYSICAL CHEMISTRY. C*, vol. 117, p. 6105-6112, ISSN: 1932-7447, doi: 10.1021/jp3124956

Arras E, Lancon F, Slipukhina I, Prestat E, Rovezzi M, Tardif S, Titov A, Bayle-Guillemaud P, d'Acapito F, Barski A,

Favre-Nicolin V, Jamet M, Cibert J, Pochet P (2012). Interface-driven phase separation in multifunctional materials: The case of the ferromagnetic semiconductor GeMn. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 85, ISSN: 1098-0121, doi: 10.1103/PhysRevB.85.115204

Arras Emmanuel, Lancon Frederic, Slipukhina Ivetta, Prestat Eric, Rovezzi Mauro, Tardif Samuel, Titov Andrey, Bayle-Guillemaud Pascale, D'ACAPITO F, Barski Andre, Favre-Nicolin Vincent, Jamet Matthieu, Cibert Joel, Pochet Pascal (2012). Interface-driven phase separation in multifunctional materials: The case of the ferromagnetic semiconductor GeMn. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 85, ISSN: 1098-0121, doi: 10.1103/PhysRevB.85.115204

Cianchetta I, Colantoni I, Talarico F, d'Acapito F, Trapananti A, Maurizio C, Fantacci S, Davoli I (2012). Discoloration of the smalt pigment: experimental studies and ab initio calculations. JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol. 27, p. 1941-1948, ISSN: 0267-9477, doi: 10.1039/c2ja30132f

D'ACAPITO F, Rovezzi M, Boscherini F, Jabeen F, Bais G, Piccin M, Rubini S, Martelli F (2012). The Mn site in Mn-doped GaAs nanowires: an EXAFS study. SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol. 27, ISSN: 0268-1242, doi: 10.1088/0268-1242/27/8/085001

De Padova P, Olivieri B, Mariot J-M, Favre ., Berbezier I, Quaresima C, Paci B, Generosi A, Albertini V Rossi, Cricenti A, Ottaviani C, Luce M, Testa A M, Peddis D, Fiorani D, Scarselli M, De Crescenzi M., Heckmann O, Richter M C, Hricovini K, d'Acapito F (2012). Ferromagnetic Mn-doped Si<sub>0.3</sub>Ge<sub>0.7</sub> nanodots self-assembled on Si(100). JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 24, ISSN: 0953-8984, doi: 10.1088/0953-8984/24/14/142203

De Padova P, Olivieri B, Mariot JM, Favre L, Berbezier I, Quaresima C, Paci B, Generosi A, Albertini VR, Cricenti A, Ottaviani C, Luce M, Testa AM, Peddis D, Fiorani D, Scarselli M, De Crescenzi M, Heckmann O, Richter MC, Hricovini K, d'Acapito F (2012). Ferromagnetic Mn-doped Si<sub>0.3</sub>Ge<sub>0.7</sub> nanodots self-assembled on Si(100). JOURNAL

OF PHYSICS. CONDENSED MATTER, vol. 24, ISSN: 0953-8984, doi: 10.1088/0953-8984/24/14/142203

Devillers T, Rovezzi M, Szwacki NG, Dobkowska S, Stefanowicz W, Sztenkiel D, Grois A, Suffczynski J, Navarro-Quezada A, Faina B, Li T, Glatzel P, d'Acapito F, Jakiela R, Sawicki M, Majewski JA, Dietl T, Bonanni A (2012). Manipulating Mn-Mg-k cation complexes to control the charge- and spin-state of Mn in GaN. SCIENTIFIC REPORTS, vol. 2, ISSN: 2045-2322, doi: 10.1038/srep00722

E. GLIOZZO, A. SANTAGOSTINO BARBONE, D'ACAPITO F (2012). WASTE GLASS, VESSELS AND WINDOW-PANES FROM THAMUSIDA(MOROCCO): GROUPING NATRON-BASED BLUE-GREEN AND COLOURLESS ROMAN GLASSES. ARCHAEOLOGY, ISSN: 1475-4754, doi: 10.1111/j.1475-4754.2012.00696.x

Ilaria Cianchetta, Ivan Colantoni, Fabio Talarico, D'ACAPITO F, Angela Trapananti, Chiara Maurizio, Simona Fantacci, Ivan Davoli (2012). Discoloration of the smalt pigment: experimental studies and ab initio calculations. JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol. 27, p. 1941-1948, ISSN: 0267-9477, doi: DOI: 10.1039/c2ja30132f

Oppo CI, Corpino R, Ricci PC, Paul MC, Das S, Pal M, Bhadra SK, Yoo S, Kalita MP, Boyland AJ, Sahu JK, Ghigna P, d'Acapito F (2012). Incorporation of Yb<sup>3+</sup> ions in multicomponent phase-separated fibre glass preforms. OPTICAL MATERIALS, vol. 34, p. 660-664, ISSN: 0925-3467, doi: 10.1016/j.optmat.2011.09.010

Oppo CI, Corpino R, Ricci PC, Paul MC, Das S, Pal M, Bhadra SK, Yoo S, Kalita MP, Boyland AJ, Sahu JK, Ghigna P, d'Acapito F (2012). Incorporation of Yb<sup>3+</sup> ions in multicomponent phase-separated fibre glass preforms. OPTICAL MATERIALS, vol. 34, p. 660-664, ISSN: 0925-3467, doi: 10.1016/j.optmat.2011.09.010

Pin S, Newton MA, D'Acapito F, Zema M, Tarantino SC, Spinolo G, De Souza RA, Martin M, Ghigna P (2012). Mechanisms of Reactions in the Solid State: (110) Al<sub>2</sub>O<sub>3</sub> + (001) ZnO Interfacial Reaction. JOURNAL OF PHYSICAL CHEMISTRY. C, vol. 116, p. 980-986, ISSN: 1932-7447, doi: 10.1021/jp209622u

Pin S, Newton MA, D'Acapito F, Zema M, Tarantino SC, Spinolo G, De Souza RA, Martin M, Ghigna P (2012). Mechanisms of Reactions in the Solid State: (110) Al<sub>2</sub>O<sub>3</sub> + (001) ZnO Interfacial Reaction. JOURNAL OF PHYSICAL CHEMISTRY. C, vol. 116, p. 980-986, ISSN: 1932-7447, doi: 10.1021/jp209622u

Silvestri A, Tonietto S, D'Acapito F, Molin G (2012). The role of copper on colour of palaeo-Christian glass mosaic tesserae: An XAS study. JOURNAL OF CULTURAL HERITAGE, vol. 13, p. 137-144, ISSN: 1296-2074, doi: 10.1016/j.culher.2011.08.002

Silvestri Alberta, Tonietto Serena, D'ACAPITO F, Molin Gianmario (2012). The role of copper on colour of palaeo-Christian glass mosaic tesserae: An XAS study. JOURNAL OF CULTURAL HERITAGE, vol. 13, p. 137-144, ISSN: 1296-2074, doi: 10.1016/j.culher.2011.08.002

Thibaut Devillers, Mauro Rovezzi, Nevill Gonzalez Szwacki, Sylwia Dobkowska, Wiktor Stefanowicz, Dariusz Sztenkiel, Andreas Grois, Jan Suffczynski, Andrea Navarro-Quezada, Bogdan Faina, Tian Li, Pieter Glatzel, D'ACAPITO F, Rafal Jakiela, Maciej Sawicki, Jacek A. Majewski, Tomasz Dietl & Alberta Bonanni (2012). Magnetism of Mn-Mgk complexes.. SCIENTIFIC REPORTS, ISSN: 2045-2322, doi: DOI: 10.1038/srep00722

Tougerti A, Llorens I, D'Acapito F, Fonda E, Hazemann JL, Joly Y, Thiaudiere D, Che M, Carrier X (2012). Surface Science Approach to the Solid-Liquid Interface: Surface-Dependent Precipitation of Ni(OH)<sub>2</sub> on alpha-Al<sub>2</sub>O<sub>3</sub> Surfaces. ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, vol. 51, p. 7697-7701, ISSN: 1433-7851, doi: 10.1002/anie.201201349

Tougerti Asma, Llorens Isabelle, D'ACAPITO F, Fonda Emiliano, Hazemann Jean-Louis, Joly Yves, Thiaudiere Dominique, Che Michel, Carrier Xavier, RI beamline fame/G-9313-2012 (2012). Surface Science Approach to the Solid-Liquid Interface: Surface-Dependent Precipitation of Ni(OH)<sub>2</sub> on alpha-Al<sub>2</sub>O<sub>3</sub> Surfaces. ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, vol. 51, p. 7697-7701, ISSN: 1433-7851, doi: 10.1002/anie.201201349

d'Acapito F, Rovezzi M, Boscherini F, Jabeen F, Bais G,

- Piccin M, Rubini S, Martelli F (2012). The Mn site in Mn-doped GaAs nanowires: an EXAFS study. SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol. 27, ISSN: 0268-1242, doi: 10.1088/0268-1242/27/8/085001
- Bonanni A, Sawicki M, Devillers T, Stefanowicz W, Faina B, Li T, Winkler TE, Sztenkiel D, Navarro-Quezada A, Rovezzi M, Jakiela R, Grois A, Wegscheider M, Jantsch W, Suffczynski J, D'Acapito F, Meingast A, Kothleitner G, Dietl T (2011). Experimental probing of exchange interactions between localized spins in the dilute magnetic insulator (Ga,Mn)N RID H-3369-2011. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 84, ISSN: 1098-0121, doi: 10.1103/PhysRevB.84.035206
- Boscherini F, D'Acapito F, Galata SF, Tsoutsou D, Dimoulas A (2011). Atomic scale mechanism for the Ge-induced stabilization of the tetragonal, very high-kappa, phase of ZrO(2). APPLIED PHYSICS LETTERS, vol. 99, ISSN: 0003-6951, doi: 10.1063/1.3641902
- Carria E, Mio AM, Gibilisco S, Miritello M, d'Acapito F, Grimaldi MG, Rimini E (2011). Polymorphism of Amorphous Ge(2)Sb(2)Te(5) Probed by EXAFS and Raman Spectroscopy. ELECTROCHEMICAL AND SOLID-STATE LETTERS, vol. 14, p. H480-H482, ISSN: 1099-0062, doi: 10.1149/2.019112esl
- Cartechini L, Rosi F, Miliani C, D'Acapito F, Brunetti BG, Sgamellotti A (2011). Modified Naples yellow in Renaissance majolica: study of Pb-Sb-Zn and Pb-Sb-Fe ternary pyroantimonates by X-ray absorption spectroscopy. JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol. 26, p. 2500-2507, ISSN: 0267-9477, doi: 10.1039/c1ja10190k
- Mino L, Gianolio D, Agostini G, Piovano A, Truccato M, Agostino A, Cagliero S, Martinez-Criado G, d'Acapito F, Codato S, Lamberti C (2011). mu-EXAFS, mu-XRF, and mu-PL Characterization of a Multi-Quantum-Well Electroabsorption Modulated Laser Realized via Selective Area Growth. SMALL, vol. 7, p. 930-938, ISSN: 1613-6810, doi: 10.1002/sml.201001229
- d'Acapito F (2011). Advanced methods for the analysis of x-ray absorption spectroscopy data applied to semiconductors. SEMICONDUCTOR SCIENCE AND

TECHNOLOGY, vol. 26, ISSN: 0268-1242, doi:  
10.1088/0268-1242/26/6/064004

Di Benedetto F, D'Acapito F, Fornaciai G, Innocenti M, Montegrossi G, Pardi LA, Tesi S, Romanelli M (2010). A Fe K-edge XAS study of amethyst. PHYSICS AND CHEMISTRY OF MINERALS, vol. 37, p. 283-289, ISSN: 0342-1791, doi: 10.1007/s00269-009-0332-0

Gliozzo E, Barbone AS, D'Acapito F, Turchiano M, Memmi IT, Volpe G (2010). THE SECTILIA PANELS OF FARAGOLA (ASCOLI SATTRIANO, SOUTHERN ITALY): A MULTI-ANALYTICAL STUDY OF THE GREEN, MARBLED (GREEN AND YELLOW), BLUE AND BLACKISH GLASS SLABS. ARCHAEOLOGY, vol. 52, p. 389-415, ISSN: 0003-813X, doi: 10.1111/j.1475-4754.2009.00493.x

Gunnella R, Morresi L, Pinto N, Di Cicco A, Ottaviano L, Passacantando M, Verna A, Impellizzeri G, Irrera A, d'Acapito F (2010). Localization of the dopant in Ge:Mn diluted magnetic semiconductors by x-ray absorption at the Mn K edge. JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 22, ISSN: 0953-8984, doi: 10.1088/0953-8984/22/21/216006

Jabeen F, Piccin M, Felisari L, Grillo V, Bais G, Rubini S, Martelli F, d'Acapito F, Rovezzi M, Boscherini F (2010). Mn-induced growth of InAs nanowires RID C-8015-2011 RID G-1104-2010. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY. B, vol. 28, p. 478-483, ISSN: 1071-1023, doi: 10.1116/1.3385892

Navarro-Quezada A, Stefanowicz W, Li TA, Faina B, Rovezzi M, Lechner RT, Devillers T, d'Acapito F, Bauer G, Sawicki M, Dietl T, Bonanni A (2010). Embedded magnetic phases in (Ga,Fe)N: Key role of growth temperature. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 81, ISSN: 1098-0121, doi: 10.1103/PhysRevB.81.205206

Stefanowicz W, Sztenkiel D, Faina B, Grois A, Rovezzi M, Devillers T, d'Acapito F, Navarro-Quezada A, Li T, Jakiela R, Sawicki M, Dietl T, Bonanni A (2010). Structural and paramagnetic properties of dilute Ga(1-x)Mn(x)N. PHYSICAL

REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 81, ISSN: 1098-0121, doi: 10.1103/PhysRevB.81.235210

romanelli m, bartali l, di benedetto f, innocenti m, tesi s, bafaro e, fornaciai g, d'acapito f, montegrossi g, pardi L (2010). caratterizzazione della SLC: proprietà ed alterazioni chimico fisiche. In: (a cura di): Capacci F; Carnevale F; di Benedetto F, Silice Libera Cristallina nei luoghi di lavoro.. p. 192-275, FIRENZE:Giunti, O.S. Organizzazioni Speciali, ISBN: 88-09-74917-0

Maurizio C, Quaranta A, Ghibauda E, D'Acapito F, Broquin JE (2009). Ag Site in Ag-for-Na Ion-Exchanged Borosilicate and Germanate Glass Waveguides. JOURNAL OF PHYSICAL CHEMISTRY. C, vol. 113, p. 8930-8937, ISSN: 1932-7447, doi: 10.1021/jp8098347

Maurizio C, Rovezzi M, Bardelli F, Pais HG, D'Acapito F (2009). Setup for optimized grazing incidence x-ray absorption experiments on thin films on substrates. REVIEW OF SCIENTIFIC INSTRUMENTS, vol. 80, ISSN: 0034-6748, doi: 10.1063/1.3155791

Noe P, Okuno H, Jager JB, Delamadeleine E, Demichel O, Rouviere JL, Calvo V, Maurizio C, D'Acapito F (2009). The evolution of the fraction of Er ions sensitized by Si nanostructures in silicon-rich silicon oxide thin films. NANOTECHNOLOGY, vol. 20, ISSN: 0957-4484, doi: 10.1088/0957-4484/20/35/355704

Pin S, Ghigna P, Spinolo G, Quartarone E, Mustarelli P, D'Acapito F, Migliori A, Calestani G (2009). Nanoscale formation of new solid-state compounds by topochemical effects: The interfacial reactions ZnO with Al<sub>2</sub>O<sub>3</sub> as a model system RID A-5407-2011 RID G-8193-2011. JOURNAL OF SOLID STATE CHEMISTRY, vol. 182, p. 1291-1296, ISSN: 0022-4596, doi: 10.1016/j.jssc.2009.02.027

Rovezzi M, D'Acapito F, Navarro-Quezada A, Faina B, Li T, Bonanni A, Filippone F, Bonapasta AA, Dietl T (2009). Local structure of (Ga,Fe)N and (Ga,Fe)N:Si investigated by x-ray absorption fine structure spectroscopy. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 79, ISSN: 1098-0121, doi: 10.1103/PhysRevB.79.195209

Barbone AS, Gliozzo E, D'Acapito F, Turbanti IM, Turchiano M, Volpe G (2008). The sectilia panels of Faragola (Ascoli Satriano, southern Italy): A multi-analytical study of the red, orange and yellow glass slabs. *ARCHAEOOMETRY*, vol. 50, p. 451-473, ISSN: 0003-813X, doi: 10.1111/j.1475-4754.2007.00341.x

Benzi F, Davoli I, Rovezzi M, d'Acapito F (2008). A new procedure for the quantitative analysis of extended x-ray absorption fine structure data in total reflection geometry. *REVIEW OF SCIENTIFIC INSTRUMENTS*, vol. 79, ISSN: 0034-6748, doi: 10.1063/1.2991111

Bonanni A., Navarro-Quezada A., Li Tian, Wegscheider M., Matej Z., Holy V., Lechner R. T., Bauer G., Rovezzi M., D'ACAPITO F, Kiecana M., Sawicki M., Dietl T., RI Rovezzi Mauro/G-1104-2010 (2008). Controlled aggregation of magnetic ions in a semiconductor: An experimental demonstration. *PHYSICAL REVIEW LETTERS*, vol. 101, ISSN: 0031-9007, doi: 10.1103/PhysRevLett.101.135502

Corami A, D'Acapito F, Mignardi S, Ferrini V (2008). Removal of Cu from aqueous solutions by synthetic hydroxyapatite: EXAFS investigation RID D-2591-2009. *MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY*, vol. 149, p. 209-213, ISSN: 0921-5107, doi: 10.1016/j.mseb.2007.11.006

De Sio A, Bocci A, Pace E, Castellano C, Cinque G, Tartoni N, D'Acapito F (2008). Diamond solid state ionization chambers for x-ray absorption spectroscopy applications. *APPLIED PHYSICS LETTERS*, vol. 93, ISSN: 0003-6951, doi: 10.1063/1.2976125

Loglio F, Telford AM, Salvietti E, Innocenti M, Pezzatini G, Cammelli S, D'Acapito F, Felici R, Pozzi A, Foresti ML (2008). Ternary Cd(x)Zn(1-x)Se deposited on Ag (111) by ECALE: Electrochemical and EXAFS characterization. *ELECTROCHIMICA ACTA*, vol. 53, p. 6978-6987, ISSN: 0013-4686, doi: 10.1016/j.electacta.2008.01.04

Maurizio C, D'Acapito F, Ghibaud E, Broquin JE (2008). Tl ion-exchange borosilicate glass: Investigation of the Tl site by X-ray absorption spectroscopy. *JOURNAL OF NON-CRYSTALLINE SOLIDS*, vol. 354, p. 124-128, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2007.07.029

Maurizio C, D'Acapito F, Sada C, Cattaruzza E, Gonella F, Battaglin G (2008). Site of transition metal ions in ion-exchanged metal-doped glasses RID A-7304-2008. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol. 149, p. 171-176, ISSN: 0921-5107, doi: 10.1016/j.mseb.2007.11.015

Rovezzi M, Devillers T, Arras E, d'Acapito F, Barski A, Jamet M, Pochet P (2008). Atomic structure of Mn-rich nanocolumns probed by x-ray absorption spectroscopy RID B-2380-2009. APPLIED PHYSICS LETTERS, vol. 92, ISSN: 0003-6951, doi: 10.1063/1.2949077

d'Acapito F, Marques AC, Santos LF, Almeida RM (2008). EXAFS study of the Er(3+) ion coordination in SiO(2)-TiO(2)-HfO(2) sol-gel films RID A-5818-2010. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 354, p. 4940-4943, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2008.07.008

d'Acapito F, Maurizio C, Paul MC, Lee TS, Blanc W, Dussardier B (2008). Role of CaO addition in the local order around Erbium in SiO<sub>2</sub>-GeO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub> fiber preforms RID C-3566-2009. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol. 146, p. 167-170, ISSN: 0921-5107, doi: 10.1016/j.mseb.2007.09.079

Agostini G, Groppo E, Bordiga S, Zecchina A, Prestipino C, D'Acapito F, van Kimmenade E, Thune PC, Niemantsverdriet JW, Lamberti C (2007). Reactivity of Cr species grafted on SiO<sub>2</sub>/Si(100) surface: A reflection extended X-ray absorption fine structure study down to the submonolayer regime. JOURNAL OF PHYSICAL CHEMISTRY. C, vol. 111, p. 16437-16444, ISSN: 1932-7447, doi: 10.1021/jp074066t

Barilaro D, Crupi V, Majolino D, Venuti V, Barone G, D'Acapito F, Bardelli F, Giannici F (2007). Decorated pottery study: Analysis of pigments by x-ray absorbance spectroscopy measurements RID B-4883-2008. JOURNAL OF APPLIED PHYSICS, vol. 101, ISSN: 0021-8979, doi: 10.1063/1.2537908

Boscherini F, Malvestuto M, Ciatto G, D'Acapito F, Bisognin G, De Salvador D, Berti M, Felici M, Polimeni A, Nabetani Y

(2007). X-ray absorption and diffraction study of II-VI dilute oxide semiconductor alloy epilayers RID G-2381-2010. JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 19, ISSN: 0953-8984, doi: 10.1088/0953-8984/19/44/446201

Maurizio C, Mattei G, Canton P, Cattaruzza E, Fernandez CD, Mazzoldi P, D'Acapito F, Battaglin G, Scian C, Vomiero A (2007). Thermal evolution of cobalt nanocrystals embedded in silica RID A-7304-2008 RID F-7567-2010. MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS, vol. 27, p. 193-196, ISSN: 0928-4931, doi: 10.1016/j.msee.2006.06.001

Noe P, Salem B, Delamadeleine E, Jalabert D, Calvo V, Maurizio C, D'Acapito F (2007). Effect of the Er-Si interatomic distance on the Er(3+) luminescence in silicon-rich silicon oxide thin films RID B-4666-2009. JOURNAL OF APPLIED PHYSICS, vol. 102, ISSN: 0021-8979, doi: 10.1063/1.2817512

d'Acapito F, Maurizio C, Brunetti B, Cartechini L, Sgamellotti A, Quartieri S, Arletti R (2007). Archaeometric studies at the GILDA beamline at the European synchrotron radiation facility RID C-6067-2009. IL NUOVO CIMENTO DELLA SOCIETÀ ITALIANA DI FISICA. C, GEOPHYSICS AND SPACE PHYSICS, vol. 30, p. 1-9, ISSN: 1124-1896, doi: 10.1393/ncc/i2006-10049-3

d'Acapito F, Milita S, Satta A, Colombo L (2007). Depth resolved study of impurity sites in low energy ion implanted As in Si. JOURNAL OF APPLIED PHYSICS, vol. 102, ISSN: 0021-8979, doi: 10.1063/1.2770868

Battocchio C, D'Acapito F, Fratoddi I, Groia A, Polzonetti G, Roviello G, Russo MV (2006). Platinum (II) dialkynyl bridged binuclear complex and related multinuclear oligomer: Comparison of EXAFS and X-ray crystal structure studies RID B-9656-2011. CHEMICAL PHYSICS, vol. 328, p. 269-274, ISSN: 0301-0104, doi: 10.1016/j.chemphys.2006.07.011

Battocchio C, D'Acapito F, Smolentsev G, Soldatov A, Fratoddi I, Contini G, Davoli I, Polzonetti G, Mobilio S (2006). XAS study of a Pt-containing rod-like organometallic polymer RID C-6438-2008 RID B-9656-2011. CHEMICAL

PHYSICS, vol. 325, p. 422-428, ISSN: 0301-0104, doi:  
10.1016/j.chemphys.2006.01.014

De Seta M, Capellini G, Di Gaspare L, Evangelisti F,  
D'Acapito F (2006). Freezing shape and composition of  
Ge/Si(001) self-assembled islands during silicon capping.  
JOURNAL OF APPLIED PHYSICS, vol. 100, ISSN:  
0021-8979, doi: 10.1063/1.2362929

Garcia P, Martin P, Carlot G, Castelier E, Ripert M,  
Sabathier C, Valot C, D'Acapito F, Hazemann JL, Proux O,  
Nassif V (2006). A study of xenon aggregates in uranium  
dioxide using X-ray absorption spectroscopy. JOURNAL OF  
NUCLEAR MATERIALS, vol. 352, p. 136-143, ISSN:  
0022-3115, doi: 10.1016/j.nucmat.2006.02.047

Giubertoni D, Pepponi G, Bersani M, Gennaro S, D'Acapito F,  
Doherty R, Foad MA (2006). An EXAFS investigation of  
arsenic shallow implant activation in silicon after laser  
sub-melt annealing. NUCLEAR INSTRUMENTS &  
METHODS IN PHYSICS RESEARCH. SECTION B, BEAM  
INTERACTIONS WITH MATERIALS AND ATOMS, vol. 253,  
p. 9-12, ISSN: 0168-583X, doi: 10.1016/j.nimb.2006.10.005

Malvestuto M, Scarel G, Wiemer C, Fanciulli M, D'Acapito F,  
Boscherini F (2006). X-ray absorption spectroscopy study of  
Yb<sub>2</sub>O<sub>3</sub> and Lu<sub>2</sub>O<sub>3</sub> thin films deposited on Si(100) by atomic  
layer deposition. NUCLEAR INSTRUMENTS & METHODS  
IN PHYSICS RESEARCH. SECTION B, BEAM  
INTERACTIONS WITH MATERIALS AND ATOMS, vol. 246,  
p. 90-95, ISSN: 0168-583X, doi: 10.1016/j.nimb.2005.12.020

Martelli F, Rubini S, Piccin M, Bais G, Jabeen F, De  
Franceschi S, Grillo V, Carlino E, D'Acapito F, Boscherini F,  
Cabrini S, Lazzarino M, Businaro L, Romanato F, Franciosi A  
(2006). Manganese-induced growth of GaAs nanowires RID  
C-8015-2011. NANO LETTERS, vol. 6, p. 2130-2134, ISSN:  
1530-6984, doi: 10.1021/nl0607838

Maurizio C, Iacona F, D'Acapito F, Franzo G, Priolo F (2006).  
Er site in Er-implanted Si nanoclusters embedded in SiO<sub>2</sub>.  
PHYSICAL REVIEW. B, CONDENSED MATTER AND  
MATERIALS PHYSICS, vol. 74, ISSN: 1098-0121, doi:  
10.1103/PhysRevB.74.205428

Padovani S, Puzzovio D, Sada C, Mazzoldi P, Borgia I,

Sgamellotti A, Brunetti BG, Cartechini L, D'acapito F, Maurizio C, Shokoui F, Oliay P, Rahighi J, Lamehi-Rachti M, Pantos E (2006). XAFS study of copper and silver nanoparticles in glazes of medieval middle-east lustreware (10th-13th century) RID C-6067-2009. APPLIED PHYSICS. A, MATERIALS SCIENCE & PROCESSING, vol. 83, p. 521-528, ISSN: 0947-8396, doi: 10.1007/s00339-006-3558-4

Parravicini GB, Stella A, Ghigna P, Spinolo G, Migliori A, d'Acapito F, Kofman R (2006). Extreme undercooling (down to 90 K) of liquid metal nanoparticles RID G-8193-2011. APPLIED PHYSICS LETTERS, vol. 89, ISSN: 0003-6951, doi: 10.1063/1.2221395

Rovezzi M, D'Acapito F, Patelli A, Rigato V, Salmaso G, Bontempi E, Davoli I (2006). Characterization of thermally treated Mo/Si multilayer mirrors with standing wave-assisted EXAFS RID G-1104-2010 RID F-3216-2010. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 246, p. 127-130, ISSN: 0168-583X, doi: 10.1016/j.nimb.2005.12.023

Smolentsev G, Soldatov AV, D'Acapito F, Polzonetti G, Fratoddi I (2006). Local structure parameters through the fitting of XANES spectra using a multidimensional interpolation: application to the PdK-edge of Pd-diethynylbiphenyl polymer RID C-6438-2008 RID B-9656-2011. JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 18, p. 759-766, ISSN: 0953-8984, doi: 10.1088/0953-8984/18/3/001

d'Acapito F, Shimizu Y, Scalese S, Italia M, Alippi P, Grasso S (2006). Experimental determination of the local geometry around In and In-C complexes in Si RID B-4331-2011. APPLIED PHYSICS LETTERS, vol. 88, ISSN: 0003-6951, doi: 10.1063/1.2206703

d'Acapito F, Shimizu Y, Scalese S, Italia M, Alippi P, Grasso S (2006). The effect of thermal treatments on the local geometry around indium in In and In+C high dose implanted Si RID B-4331-2011. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 253, p. 59-62, ISSN: 0168-583X, doi: 10.1016/j.nimb.2006.10.014

d'Acapito F, Smolentsev G, Boscherini F, Piccin M, Bais G, Rubini S, Martelli F, Franciosi A (2006). Site of Mn in Mn delta-doped GaAs: X-ray absorption spectroscopy RID C-6438-2008 RID C-8015-2011. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 73, ISSN: 1098-0121, doi: 10.1103/PhysRevB.73.035314

d'Acapito F, de Seta M, Capellini G, di Gaspare L, Evangelisti F (2006). Relaxed state of  $GexSi_{1-x}$  islands embedded in Si. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 246, p. 64-68, ISSN: 0168-583X, doi: 10.1016/j.nimb.2005.12.016

Capellini G, De Seta M, Di Gaspare L, Evangelisti F, d'Acapito F (2005). Evolution of Ge/Si(001) islands during Si capping at high temperature. JOURNAL OF APPLIED PHYSICS, vol. 98, ISSN: 0021-8979, doi: 10.1063/1.2141652

Checchetto R, Bazzanella N, Miotello A, Maurizio C, D'Acapito F, Mengucci P, Barucca G, Majni G (2005). Nb clusters formation in Nb-doped magnesium hydride. APPLIED PHYSICS LETTERS, vol. 87, ISSN: 0003-6951, doi: 10.1063/1.2007866

Ciatto G, Boscherini F, D'Acapito F, De Salvador D, Batchelor D, Carboni R, Grenouillet L, Mariette H, Mobilio S (2005). Lattice location of N in  $In_xGa_{1-x}As_{1-y}Ny$  dilute nitrogen alloys. PHYSICA SCRIPTA, vol. T115, p. 356-358, ISSN: 0031-8949

Ciatto G, d'Acapito F, Sanna S, Fiorentini V, Polimeni A, Capizzi M, Mobilio S, Boscherini F (2005). Comparison between experimental and theoretical determination of the local structure of the  $GaAs_{1-y}Ny$  dilute nitride alloy RID E-4322-2010. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 71, ISSN: 1098-0121, doi: 10.1103/PhysRevB.71.115210

Fernandez CD, Mattei G, Maurizio C, Cattaruzza E, Padovani S, Battaglin G, Gonella F, D'Acapito F, Mazzoldi P (2005). Magnetic properties of Co-Cu nanoparticles dispersed in silica matrix RID A-7304-2008. JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol. 290, p. 187-190, ISSN: 0304-8853, doi: 10.1016/j.jmmm.2004.11.178

Ghigna P, Marzola A, Amantea R, Malavasi L, Flor G, D'Acapito F, Bardelli F, Mozzati MC (2005). Local structure and electronic properties in colossally magnetoresistive thin film of  $\text{La}_{0.87}\text{Na}_{0.13}\text{MnO}_3$  by Mn-K edge EXAFS and XANES RID G-8193-2011. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 238, p. 242-247, ISSN: 0168-583X, doi: 10.1016/j.nimb.2005.06.055

Gonella F, Quaranta A, Cattaruzza E, Padovani S, Sada C, D'Acapito F, Maurizio C (2005). Cu-alkali ion exchange in glass: a model for the copper diffusion based on XAFS experiments RID A-7304-2008. COMPUTATIONAL MATERIALS SCIENCE, vol. 33, p. 31-36, ISSN: 0927-0256, doi: 10.1016/j.commatsci.2004.12.024

Gonella F, Quaranta A, Padovani S, Sada C, D'Acapito F, Maurizio C, Battaglin G, Cattaruzza E (2005). Copper diffusion in ion-exchanged soda-lime glass RID A-7304-2008. APPLIED PHYSICS. A, MATERIALS SCIENCE & PROCESSING, vol. 81, p. 1065-1071, ISSN: 0947-8396, doi: 10.1007/s00339-004-2949-7

Longo A, Balerna A, d'Acapito F, D'Anca F, Giannici F, Liotta LF, Pantaleo G, Martorana A (2005). A new cell for the study of in situ chemical reactions using X-ray absorption spectroscopy RID B-4883-2008. JOURNAL OF SYNCHROTRON RADIATION, vol. 12, p. 499-505, ISSN: 0909-0495, doi: 10.1107/S090904950501143X

Malvestuto A, Carboni R, Boscherini F, D'Acapito F, Spiga S, Fanciulli M, Dimoulas A, Vellianitis G, Mavrou G (2005). X-ray absorption study of the growth of  $\text{Y}_2\text{O}_3$  on  $\text{Si}(001)$ . PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 71, ISSN: 1098-0121, doi: 10.1103/PhysRevB.71.075318

Mattei G, Maurizio C, Mazzoldi P, D'Acapito F, Battaglin G, Cattaruzza E, Fernandez CDJ, Sada C (2005). Dynamics of compositional evolution of Pd-Cu alloy nanoclusters upon heating in selected atmospheres. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 71, ISSN: 1098-0121, doi: 10.1103/PhysRevB.71.1954

Maurizio C, D'Acapito F, Priolo F, Franzo G, Iacona F,

Borsella E, Padovani S, Mazzoldi P (2005). Site of Er ions in Er-implanted silica containing Si nanoclusters. OPTICAL MATERIALS, vol. 27, p. 900-903, ISSN: 0925-3467, doi: 10.1016/j.optmat.2004.08.032

Prestipino C, Capello L, D'Acapito F, Lamberti C (2005). Local structure of [Cu-I(CO)(2)](+) adducts hosted inside ZSM-5 zeolite probed by EXAFS, XANES and IR spectroscopies. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 7, p. 1743-1746, ISSN: 1463-9076, doi: 10.1039/b500780a

d'Acapito F (2005). Handbook of Sol-Gel Science and Technology: Processing, Characterization and Applications. In: (a cura di): R. Almeida, Vol II, characterization of sol gel materials and products. p. 17-34, Kluwer Academic Publishers, ISBN: 1-4020-7969-9

d'Acapito F, Mobilio S, Terrasi A, Scalese S, Franzo G, Priolo F (2005). Local order around Er<sup>3+</sup> ions in thin silicon oxide layers grown in Si by MBE. PHYSICA SCRIPTA, vol. T115, p. 384-386, ISSN: 0031-8949

Ciatto G, d'Acapito F, Boscherini F, Mobilio S (2004). Response to W. K. Warburton's Comments on Treatment of EXAFS data taken in the fluorescence mode in non-linear conditions by G. Ciatto et al. (2004). J. Synchrotron Rad. 11, 278-283. JOURNAL OF SYNCHROTRON RADIATION, vol. 11, p. 509, ISSN: 0909-0495, doi: 10.1107/S0909049504024598

Ciatto G, d'Acapito F, Boscherini F, Mobilio S (2004). Treatment of EXAFS data taken in the fluorescence mode in non-linear conditions. JOURNAL OF SYNCHROTRON RADIATION, vol. 11, p. 278-283, ISSN: 0909-0495, doi: 10.1107/S0909049504002122

D'Acapito F, Fratoddi I, D'Amato R, Russo MV, Contini G, Davoli I, Mobilio S, Polzonetti G (2004). Structure of a monolayer of Pd-diethynylbiphenyl deposited on chromium studied by total reflection EXAFS RID B-9656-2011. SENSORS AND ACTUATORS. B, CHEMICAL, vol. 100, p. 131-134, ISSN: 0925-4005, doi: 10.1016/j.snb.2003.12.032

Fortes LM, Santos LF, Goncalves MC, Almeida RM, D'Acapito F (2004). Influence of Er(3+) on the early stages

of crystallization of chloro-tellurite glasses studied by XRD and EXAFS RID D-1745-2009 RID A-5818-2010. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 348, p. 11-16, ISSN: 0022-3093, doi: 10.1016/j.jnoncrysol.2004.08.119

Maurizio C, Pergolesi D, Gatti F, d'Acapito F, Razeti M, Balerna A, Mobilio S (2004). Application of a TES micro-calorimeter as high-energy resolution detector for hard X-rays at a synchrotron beam line. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, vol. 520, p. 610-612, ISSN: 0168-9002, doi: 10.1016/j.nima.2003.11.328

Padovani S, Borgia I, Brunetti B, Sgamellotti A, Giulivi A, D'Acapito F, Mazzoldi P, Sada C, Battaglin G (2004). Silver and copper nanoclusters in the lustre decoration of Italian Renaissance pottery: an EXAFS study. APPLIED PHYSICS. A, MATERIALS SCIENCE & PROCESSING, vol. 79, p. 229-233, ISSN: 0947-8396, doi: 10.1007/s00339-004-2516-2

Prestipino C, Bonino F, Usseglio S, Damin A, Tasso A, Clerici MG, Bordiga S, D'Acapito F, Zecchina A, Lamberti C (2004). Equilibria between peroxo and hydroperoxo species in the titanosilicates: An in situ high-resolution XANES investigation. CHEMPHYSICHEM, vol. 5, p. 1799-1804, ISSN: 1439-4235, doi: 10.1002/cphc.200400427

Quartieri S, Dalconi MC, Boscherini F, Oberti R, D'Acapito F (2004). Changes in the local coordination of trace rare-earth elements in garnets by high-energy XAFS: new data on dysprosium. PHYSICS AND CHEMISTRY OF MINERALS, vol. 31, p. 162-167, ISSN: 0342-1791, doi: 10.1007/s00269-003-0377-4

Scagnoli V, Staub U, Janousch M, Meijer GI, Paolasini L, D'Acapito F, Bednorz JG, Allenspach R (2004). Charge disproportionation observed by resonant X-ray scattering at the metal-insulator transition in NdNiO<sub>3</sub> RID B-3285-2010. JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol. 272, p. 420-421, ISSN: 0304-8853, doi: 10.1016/j.jmmm.2003.11.136

Spiga S, Wiemer C, Tallarida G, Fanciulli M, Malvestuto M, Boscherini F, D'Acapito F, Dimoulas A, Vellianitis G, Mavrou G (2004). Structural characterization of epitaxial Y<sub>2</sub>O<sub>3</sub> on

Si(001) and of the Y2O3/Si interface. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol. 109, p. 47-51, ISSN: 0921-5107, doi: 10.1016/j.mseb.2003.10.025

Staub U, Scagnoli V, Janousch M, Meijer GI, Paolasini L, D'Acapito F, Bednorz JG, Allenspach R, Lovesey SW (2004). Charge disproportionation observed by resonant X-ray scattering at the metal-insulator transition in NdNiO3 RID B-3285-2010. PHYSICA. B, CONDENSED MATTER, vol. 345, p. 23-25, ISSN: 0921-4526, doi: 10.1016/j.physb.2003.11.012

d'Acapito F (2004). Nearest-neighbor distances in strained thin films of random pseudobinary semiconductor alloys: A calculational methodology. JOURNAL OF APPLIED PHYSICS, vol. 96, p. 369-373, ISSN: 0021-8979, doi: 10.1063/1.1760236

d'Acapito F (2004). Synchrotron radiation techniques for structural and morphological investigations on clusters: present and future. APPLIED SURFACE SCIENCE, vol. 226, p. 313-320, ISSN: 0169-4332, doi: 10.1016/j.apsusc.2003.11.046

d'Acapito F, Maurizio C (2004). Applications of low-temperature detectors to synchrotron radiation. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, vol. 520, p. 602-605, ISSN: 0168-9002, doi: 10.1016/j.nima.2003.11.326

d'Acapito F, Maurizio C, Gonella F, Cattaruzza E, Mattei G, Mondelli C, Longo A, Martorana A (2004). On the use of grazing-incidence small-angle X-ray scattering (GISAXS) in the morphological study of ion-implanted materials RID A-7304-2008. JOURNAL OF SYNCHROTRON RADIATION, vol. 11, p. 272-277, ISSN: 0909-0495, doi: 10.1107/S0909049504002523

d'Acapito F, Maurizio C, Malvestuto M (2004). The atomic site of as implanted in Si at ultra-low energies. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol. 114, p. 386-389, ISSN: 0921-5107, doi: 10.1016/j.mseb.2004.08.001

d'Acapito F, Mobilio S, Scalese S, Terrasi A, Franzo G, Priolo F (2004). Structure of Er-O complexes in crystalline Si. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 69, ISSN: 1098-0121, doi: 10.1103/PhysRevB.69.153310

Battaglin G, Cattaruzza E, Gonella F, Pollini R, D'Acapito F, Colonna S, Mattei G, Maurizio C, Mazzoldi P, Padovani S, Sada C, Quaranta A, Longo A (2003). Silver nanocluster formation in ion-exchanged glasses by annealing, ion beam and laser beam irradiation: An EXAFS study RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 185-190, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01717-2

Bombardi A, d'Acapito F, Mattenberger K, Vogt O, Lander GH (2003). Non-Vegard behavior of the UxLa1-xS system. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 68, ISSN: 1098-0121, doi: 10.1103/PhysRevB.68.104414

Cattaruzza E, Battaglin G, Calvelli P, Gonella F, Mattei G, Maurizio C, Mazzoldi P, Padovani S, Polloni R, Sada C, Scremin BF, D'Acapito F (2003). Fast nonlinear refractive index of pure and alloy metallic nanoclusters in silica glass RID A-7304-2008. COMPOSITES SCIENCE AND TECHNOLOGY, vol. 63, p. 1203-1208, ISSN: 0266-3538, doi: 10.1016/S0266-3538(03)00079-4

Cesca T, Gasparotto A, Mattei G, Rampazzo V, Boscherini F, Fraboni B, Priolo F, Ciatto G, D'Acapito F, Bocchi C (2003). Atomic environment of Fe following high-temperature implantation in InP. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 68, ISSN: 1098-0121, doi: 10.1103/PhysRevB.68.224113

Ciatto G, Boscherini F, D'Acapito F, Mobilio S, Baldassarri G, Polimeni A, Capizzi M, Gollub D, Forchel A (2003). Atomic ordering in (InGa)(AsN) quantum wells: An in K-edge x-ray absorption investigation. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 34-39, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01671-3

Ciatto G, D'Acapito F, Fraboni B, Boscherini F, El Habra N, Cesca T, Gasparotto A, Moreira EC, Priolo F (2003). Local structure of iron implanted in indium phosphide. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 100-104, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01703-2

Ciatto G, D'Acapito F, Grenouillet L, Mariette H, De Salvador D, Bisognin G, Carboni R, Floreano L, Gotter R, Mobilio S, Boscherini F (2003). Quantitative determination of short-range ordering in  $\text{In}_x\text{Ga}_{1-x}\text{As}_1\text{yNy}$ . PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 68, ISSN: 1098-0121, doi: 10.1103/PhysRevB.68.161201

D'Acapito F, Davoli I, Ghigna P, Mobilio S (2003). The ReflEXAFS station at the GILDA beamline (BM08) of ESRF RID G-8193-2011. JOURNAL OF SYNCHROTRON RADIATION, vol. 10, p. 260-264, ISSN: 0909-0495, doi: 10.1107/S0909049503005582

Ghigna P, Spinolo G, Alessandri I, Davoli I, D'Acapito F (2003). Do we have a probe for the initial stages of solid state reactions? RID G-8193-2011. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 5, p. 2244-2247, ISSN: 1463-9076, doi: 10.1039/b300135k

Katsikini M, Paloura EC, Boscherini F, D'Acapito F, Lioutas CB, Doppalapudi D (2003). Microstructural characterization of  $\text{In}_x\text{Ga}_{1-x}\text{N}$  MBE samples. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 114-119, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01706-8

Lamberti C, Bordiga S, Bonino F, Prestipino C, Berlier G, Capello L, D'Acapito F, Xamena FXLI, Zecchina A (2003). Determination of the oxidation and coordination state of copper on different Cu-based catalysts by XANES spectroscopy in situ or in operando conditions. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 5, p. 4502-4509, ISSN: 1463-9076, doi: 10.1039/b305810g

Lamberti C, Bordiga S, Bonino F, Prestipino C, Berlier G, Capello L, D'Acapito F, Xamena FXLI, Zecchina A, RI Llabres

i Xamena Francesc/A-4123-2008 (2003). Determination of the oxidation and coordination state of copper on different Cu-based catalysts by XANES spectroscopy in situ or in operando conditions. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 5, p. 4502-4509, ISSN: 1463-9076, doi: 10.1039/b305810g

Lamberti C, Bordiga S, Bonino F, Prestipino C, Berlier G, Capello L, D'Acapito F, Xamena FXLI, Zecchina A, RI Llabres i Xamena Francesc/A-4123-2008 (2003). Determination of the oxidation and coordination state of copper on different Cu-based catalysts by XANES spectroscopy in situ or in operando conditions. PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol. 5, p. 4502-4509, ISSN: 1463-9076, doi: 10.1039/b305810g

Lamberti C, Prestipino C, Bordiga S, Berlier G, Spoto G, Zecchina A, Laloni A, La Manna F, D'Anca F, Felici R, D'Acapito F, Roy P (2003). Description of a flexible cell for in situ X-ray and far-IR characterization of the surface of powdered materials. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 196-201, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01719-6

Martin P, Ripert M, Petit T, Reich T, Hennig C, D'Acapito F, Hazemann JL, Proux O (2003). A XAS study of the local environments of cations in (U, Ce)O<sub>2</sub>. JOURNAL OF NUCLEAR MATERIALS, vol. 312, p. 103-110, ISSN: 0022-3115, doi: 10.1016/S0022-3115(02)01590-8

Maurizio C, Gonella F, Cattaruzza E, Mazzoldi P, D'Acapito F (2003). Implanted dielectrics: Synchrotron radiation studies by absorption and diffraction techniques RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 126-137, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01708-1

Maurizio C, Longo A, Martorana A, Cattaruzza E, D'Acapito F, Gonella F, de Julian C, Mattei G, Mazzoldi P, Padovani S, Boesecke P (2003). Grazing-incidence small-angle X-ray scattering and X-ray diffraction from magnetic clusters obtained by Co plus Ni sequential ion implantation in silica

RID A-7304-2008. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 36, p. 732-735, ISSN: 0021-8898, doi: 10.1107/S0021889803006137

Maurizio C, Mattei G, Garcia MA, Borsella E, Mazzoldi P, Quaranta A, D'Acapito F (2003). Towards controllable optical response of GaN quantum dots in alumina. THE EUROPEAN PHYSICAL JOURNAL. D, ATOMIC, MOLECULAR AND OPTICAL PHYSICS, vol. 25, p. 25-29, ISSN: 1434-6060, doi: 10.1140/epjd/e2003-00081-1

Maurizio C, Mattei G, Mazzoldi P, Padovani S, Cattaruzza E, Gonella F, D'Acapito F, Zontone F (2003). Deviation from the virtual crystal approximation in disordered Au-Cu alloy nanocrystals: EXAFS and GIXRD investigation RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 178-184, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01716-0

Padovani S, D'Acapito F, Sada C, Cattaruzza E, Gonella F, Argiolas N, Bazzan M, Maurizio C, Mazzoldi P (2003). Er<sup>3+</sup>-Li<sup>+</sup> ion exchange in lithium niobate crystals: an EXAFS study RID A-7304-2008. THE EUROPEAN PHYSICAL JOURNAL. B, CONDENSED MATTER PHYSICS, vol. 32, p. 157-161, ISSN: 1434-6028, doi: 10.1140/rpjb/e2003-00084-8

Padovani S, Sada C, Mazzoldi P, Brunetti B, Borgia I, Sgamellotti A, Giulivi A, D'Acapito F, Battaglin G (2003). Copper in glazes of Renaissance luster pottery: Nanoparticles, ions, and local environment. JOURNAL OF APPLIED PHYSICS, vol. 93, p. 10058-10063, ISSN: 0021-8979, doi: 10.1063/1.1571965

Spiga S, Fanciulli M, Ferretti N, Boscherini F, d'Acapito F, Ciatto G, Schmidt B (2003). Formation and structure of Sn and Sb nanoclusters in thin SiO<sub>2</sub> films. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 171-177, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01715-9

Spiga S, Mantovan R, Fanciulli M, Ferretti N, Boscherini F, d'Acapito F, Schmidt B, Grotzschel R, Mucklich A (2003). Local structure of Sn implanted in thin SiO<sub>2</sub> films. PHYSICAL REVIEW. B, CONDENSED MATTER AND

MATERIALS PHYSICS, vol. 68, ISSN: 1098-0121, doi:  
10.1103/PhysRevB.68.205419

d'Acapito F, Colonna S, Arciprete F, Balzarotti A, Davoli I, Patella F, Mobilio S (2003). InxGa((1-x))As quantum dots grown on GaAs studied by EXAFS in total reflection mode (ReflEXAFS). NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 85-89, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01679-8

d'Acapito F, Ghigna P, Alessandri I, Cardelli A, Davoli I (2003). Probing the initial stages of solid-state reactions by total reflection EXAFS (reflEXAFS) RID G-8193-2011. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 200, p. 421-424, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)01733-0

d'acapito F (2003). Introduction to the ReflEXAFS technique. In: (a cura di): S. Mobilio, G. Vlaic, Synchrotron Radiation: Fundamentals, Methodologies and Applications. vol. 82, p. 191-209, bologna:sif, ISBN: 88-7438-008-9

Cattaruzza E, D'Acapito F, Fernandez CD, de Lorenzi A, Gonella F, Mattei G, Maurizio C, Mazzoldi P, Padovani S, Scremin BF, Zontone F (2002). Sequential ion implantation of copper and cobalt in silica glass: A study by synchrotron radiation techniques RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 191, p. 406-410, ISSN: 0168-583X, doi: 10.1016/S0168-583X(02)00552-9

D'Acapito F, Colonna S, Maurizio C, Mobilio S (2002). Multiple-order reflections from monochromating crystals for the collection of X-ray absorption spectra at extremely high energies. JOURNAL OF SYNCHROTRON RADIATION, vol. 9, p. 24-27, ISSN: 0909-0495

Gasparotto A, Cesca T, El Habra N, Fraboni B, Boscherini F, Priolo F, Moreira EC, Ciatto G, D'Acapito F, Scamarcio G (2002). Implant and characterization of highly concentrated Fe deep centers in InP. MATERIALS SCIENCE AND

ENGINEERING B-SOLID STATE MATERIALS FOR  
ADVANCED TECHNOLOGY, vol. 91, p. 503-507, ISSN:  
0921-5107, doi: 10.1016/S0921-5107(01)01057-1

Padovani S, D'Acapito F, Cattaruzza E, De Lorenzi A, Gonella  
F, Mattei G, Maurizio C, Mazzoldi P, Montagna M, Ronchin  
S, Tosello C, Ferrari M (2002). Metal nanocluster formation  
in silica films prepared by rf-sputtering: an experimental  
study RID A-7304-2008. THE EUROPEAN PHYSICAL  
JOURNAL. B, CONDENSED MATTER PHYSICS, vol. 25, p.  
11-17, ISSN: 1434-6028, doi: 10.1140/e10051-002-0002-1

Staub U, Meijer GI, Fauth F, Allenspach R, Bednorz JG,  
Karpinski J, Kazakov SM, Paolasini L, d'Acapito F (2002).  
Direct observation of charge order in an epitaxial NdNiO<sub>3</sub>  
film. PHYSICAL REVIEW LETTERS, vol. 88, ISSN:  
0031-9007, doi: 10.1103/PhysRevLett.88.126402

Staub U, Meijer GI, Fauth F, Allenspach R, Bednorz JG,  
Karpinski J, Kazakov SM, Paolasini L, d'Acapito F (2002).  
Direct observation of charge order in an epitaxial NdNiO<sub>3</sub>  
film. PHYSICAL REVIEW LETTERS, vol. 88, ISSN:  
0031-9007, doi: 10.1103/PhysRevLett.88.126402

d'Acapito F, Boscherini F, Mobilio S, Rizzi A, Lantier R  
(2002). Epitaxy and strain in the growth of GaN on AlN: A  
polarized x-ray absorption spectroscopy study. PHYSICAL  
REVIEW. B, CONDENSED MATTER AND MATERIALS  
PHYSICS, vol. 66, ISSN: 1098-0121, doi:  
10.1103/PhysRevB.66.205411

d'Acapito F, Castrucci P, Pinto N, Gunnella R, De Crescenzi  
M, Davoli I (2002). The effect of Sb surfactant on the growth  
of (GenSim)(p) layers on Si(001): a reflEXAFS study.  
SURFACE SCIENCE, vol. 518, p. 183-191, ISSN: 0039-6028,  
doi: 10.1016/S0039-6028(02)02117-9

d'Acapito F, Emelianov I, Relini A, Cavatorta P, Gliozzi A,  
Minicozzi V, Morante S, Solari PL, Rolandi R (2002). Total  
external reflection X-ray absorption spectroscopy reveals a  
zinc coordination shell in phospholipid Langmuir-Blodgett  
films. LANGMUIR, vol. 18, p. 5277-5282, ISSN: 0743-7463,  
doi: 10.1021/la025564q

Battaglin G, Catalano M, Cattaruzza E, D'Acapito F,  
Fernandez CD, De Marchi G, Gonella F, Mattei G, Maurizio

C, Mazzoldi P, Miotello A, Sada C (2001). Influence of annealing atmosphere on metal and metal alloy nanoclusters produced by ion implantation in silica RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 178, p. 176-179, ISSN: 0168-583X, doi: 10.1016/S0168-583X(00)00502-4

Battaglin G, Cattaruzza E, Fernandez CD, De Marchi G, Gonella F, Mattei G, Maurizio C, Mazzoldi P, Miotello A, Sada C, D'Acapito F (2001). Influence of post-implantation thermal and laser annealing on the stability of metal-alloy nanoclusters in silica RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 175, p. 410-416, ISSN: 0168-583X, doi: 10.1016/S0168-583X(00)00558-9

Borsella E, Garcia MA, Mattei G, Maurizio C, Mazzoldi P, Cattaruzza E, Gonella F, Battaglin G, Quaranta A, D'Acapito F (2001). Synthesis of GaN quantum dots by ion implantation in dielectrics RID A-7304-2008. JOURNAL OF APPLIED PHYSICS, vol. 90, p. 4467-4473, ISSN: 0021-8979, doi: 10.1063/1.1408591

Borsella E, Toe SD, Mattei G, Maurizio C, Mazzoldi P, Saber A, Battaglin GC, Cattaruzza E, Gonella F, Quaranta A, D'Acapito F (2001). Synthesis, structure and optical properties of GaN nanocrystals prepared by sequential ion implantation in dielectrics RID A-7304-2008. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol. 82, p. 148-150, ISSN: 0921-5107, doi: 10.1016/S0921-5107(00)00750-9

Boscherini F, Lantier R, Rizzi A, D'Acapito F, Mobilio S (2001). Growth at GaN/AlN hetero structures: a local view. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol. 86, p. 225-227, ISSN: 0921-5107, doi: 10.1016/S0921-5107(01)00685-7

Colonna S, D'Acapito F, Mobilio S, Onori S, Pugliani L, Romanzetti S, Rustichelli F (2001). Curved optics for x-ray

phase contrast imaging by synchrotron radiation. PHYSICS IN MEDICINE AND BIOLOGY, vol. 46, p. 967-974, ISSN: 0031-9155

Fernandez CD, Sangregorio C, Mattei G, Maurizio C, Battaglin G, Gonella F, Lascialfari A, Lo Russo S, Gatteschi D, Mazzoldi P, Gonzalez JM, D'Acapito F (2001). Magnetic properties of Co and Ni based alloy nanoparticles dispersed in a silica matrix RID B-5429-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 175, p. 479-484, ISSN: 0168-583X

Gonella F, Cattaruzza E, Battaglin G, D'Acapito F, Sada C, Mazzoldi P, Maurizio C, Mattei G, Martorana A, Longo A, Zontone E (2001). Double implantation in silica glass for metal cluster composite formation: a study by synchrotron radiation techniques RID A-7304-2008. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 280, p. 241-248, ISSN: 0022-3093, doi: 10.1016/S0022-3093(00)00392-6

Martorana A, Longo A, d'Acapito F, Maurizio C, Cattaruzza E, Gonella F (2001). Treatment of grazing-incidence small-angle X-ray scattering data taken above the critical angle RID A-7304-2008. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 34, p. 152-156, ISSN: 0021-8898, doi: 10.1107/S0021889801001157

Staub U, Zaharko O, Grimmer H, Horisberger M, d'Acapito F (2001). Real-part EXAFS from multilayer Bragg reflections: a promising new EXAFS technique. EUROPHYSICS LETTERS, vol. 56, p. 241-246, ISSN: 0295-5075, doi: 10.1209/epl/i2001-00512-5

Zontone F, D'Acapito F, Faraci G, Pennisi AR (2001). Evidence for a compressed fluid phase of Xe clusters. THE EUROPEAN PHYSICAL JOURNAL. B, CONDENSED MATTER PHYSICS, vol. 19, p. 501-505, ISSN: 1434-6028, doi: 10.1007/s100510170295

d'Acapito F, Mobilio S, Bruno P, Barbier D, Philipsen J (2001). Luminescent properties of local atomic order of Er<sup>3+</sup> and Yb<sup>3+</sup> ions in aluminophosphate glasses. JOURNAL OF APPLIED PHYSICS, vol. 90, p. 265-269, ISSN: 0021-8979, doi: 10.1063/1.1377300

d'Acapito F, Mobilio S, Gastaldo P, Barbier D, Santos LF, Martins O, Almeida RM (2001). Local order around Er<sup>3+</sup> ions in SiO<sub>2</sub>-TiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> glassy films studied by EXAFS RID A-5818-2010. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 293, p. 118-124, ISSN: 0022-3093, doi: 10.1016/S0022-3093(01)00663-9

d'Acapito F, Mobilio S, Santos L, Almeida RM (2001). Local environment of rare-earth dopants in silica-titania-alumina glasses: An extended x-ray absorption fine structure study at the K edges of Er and Yb RID A-5818-2010. APPLIED PHYSICS LETTERS, vol. 78, p. 2676-2678, ISSN: 0003-6951, doi: 10.1063/1.1369417

Bolis V, Maggiorini S, Meda L, D'Acapito F, Palomino GT, Bordiga S, Lamberti C (2000). X-ray photoelectron spectroscopy and x-ray absorption near edge structure study of copper sites hosted at the internal surface of ZSM-5 zeolite: A comparison with quantitative and energetic data on the CO and NH<sub>3</sub> adsorption. THE JOURNAL OF CHEMICAL PHYSICS, vol. 113, p. 9248-9261, ISSN: 0021-9606, doi: 10.1063/1.1319318

Cattaruzza E, d'Acapito F, Gonella F, Longo A, Martorana A, Mattei G, Maurizio C, Thiaudiere D (2000). GISAXS study of Cu-Ni alloy clusters obtained by double ion implantation in silicate glasses RID A-7304-2008. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 33, p. 740-743, ISSN: 0021-8898, doi: 10.1107/S0021889800099878

D'Acapito F, Battaglin G, Cattaruzza E, Gonella F, Maurizio C, Mazzoldi P, Mobilio S, Zontone F (2000). Cu-Ni alloy nanocluster formation by ion implantation in silicate glasses: Structure and optical properties RID A-7304-2008. THE EUROPEAN PHYSICAL JOURNAL. D, ATOMIC, MOLECULAR AND OPTICAL PHYSICS, vol. 10, p. 123-129, ISSN: 1434-6060, doi: 10.1007/s100530050533

Lamberti C, Palomino GT, Bordiga S, Berlier G, D'Acapito F, Zecchina A (2000). Structure of homoleptic Cu-I(CO)<sub>3</sub> cations in Cu-I-exchanged ZSM-5 zeolite: An X-ray absorption study. ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, vol. 39, p. 2138-+, ISSN: 1433-7851, doi: 10.1002/1521-3773(20000616)39:12<2138::AID-ANIE2138>3.0.CO;2-9

Maurizio C, d'Acapito F, Benfatto M, Mobilio S, Cattaruzza E, Gonella F (2000). Local coordination geometry around Cu<sup>+</sup> and Cu<sup>2+</sup> ions in silicate glasses: an X-ray absorption near edge structure investigation RID A-7304-2008. THE EUROPEAN PHYSICAL JOURNAL. B, CONDENSED MATTER PHYSICS, vol. 14, p. 211-216, ISSN: 1434-6028, doi: 10.1007/s100510050122

d'Acapito F, Mobilio S, Battaglin G, Cattaruzza E, Gonella F, Caccavale F, Mazzoldi P, Regnard JR (2000). Valence state and local atomic structure of copper in Cu-implanted silica glass RID A-7304-2008. JOURNAL OF APPLIED PHYSICS, vol. 87, p. 1819-1824, ISSN: 0021-8979, doi: 10.1063/1.372096

d'Acapito F, Mobilio S, Cikmacs P, Merlo V, Davoli I (2000). Temperature modification of the Nb oxidation at the Nb/Al interface studied by reflexAFS. SURFACE SCIENCE, vol. 468, p. 77-84, ISSN: 0039-6028, doi: 10.1016/S0039-6028(00)00787-1

Boscherini F, Lantier R, Rizzi A, D'Acapito F, Mobilio S (1999). Evidence for relaxed and high-quality growth of GaN on SiC(0001) (vol 74, pg 3308, 1999). APPLIED PHYSICS LETTERS, vol. 75, p. 304, ISSN: 0003-6951, doi: 10.1063/1.124355

Boscherini F, Lantier R, Rizzi A, D'Acapito F, Mobilio S (1999). Evidence for relaxed and high-quality growth of GaN on SiC(0001). APPLIED PHYSICS LETTERS, vol. 74, p. 3308-3310, ISSN: 0003-6951, doi: 10.1063/1.123327

Cattaruzza E, Battaglin G, Polloni R, Cesca T, Gonella F, Mattei G, Maurizio C, Mazzoldi P, D'Acapito F, Zontone F, Bertoncetto R (1999). Nanocluster formation in silicate glasses by sequential ion implantation procedures RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 148, p. 1007-1011, ISSN: 0168-583X, doi: 10.1016/S0168-583X(98)00665-X

D'Acapito F, Zontone F (1999). Grazing-incidence X-ray diffraction in the study of metallic clusters buried in glass obtained by ion implantation. JOURNAL OF APPLIED CRYSTALLOGRAPHY, vol. 32, p. 234-240, ISSN: 0021-8898, doi: 10.1107/S0021889898012151

Zontone F, D'Acapito F, Gonella F (1999). Synchrotron radiation glancing incidence X-ray diffraction: a tool for structural investigations of ion implanted glasses. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 147, p. 416-421, ISSN: 0168-583X, doi: 10.1016/S0168-583X(98)90569-9

Battaglin G, Cattaruzza E, D'Acapito F, Gonella F, Mazzoldi P, Mobilio S, Priolo F (1998). EXAFS study on metal cluster doped silica glass obtained by ion implantation procedures RID A-7304-2008. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol. 141, p. 252-255, ISSN: 0168-583X, doi: 10.1016/S0168-583X(98)00094-9

D'Acapito F, Mobilio S, Regnard JR, Cattaruzza E, Gonella F, Mazzoldi P (1998). The local atomic order and the valence state of Cu in Cu-implanted soda-lime glasses RID A-7304-2008. JOURNAL OF NON-CRYSTALLINE SOLIDS, vol. 232, p. 364-369, ISSN: 0022-3093, doi: 10.1016/S0022-3093(98)00421-9

Gonella F, Caccavale F, Bogomolova LD, D'Acapito F, Quaranta A (1998). Experimental study of copper-alkali ion exchange in glass. JOURNAL OF APPLIED PHYSICS, vol. 83, p. 1200-1206, ISSN: 0021-8979, doi: 10.1063/1.366816

Terrasi A, Priolo F, Franzo G, Coffa S, D'Acapito F, Mobilio S (1998). EXAFS analysis of Er sites in Er-O and Er-F co-doped crystalline Si. JOURNAL OF LUMINESCENCE, vol. 80, p. 363-367, ISSN: 0022-2313, doi: 10.1016/S0022-2313(98)00130-6

Lamberti C, Spoto G, Scarano D, Paze C, Salvalaggio M, Bordiga S, Zecchina A, Palomino GT, D'ACAPITO F (1997). Cu-I-Y and Cu-II-Y zeolites: A XANES, EXAFS and visible-NIR study. CHEMICAL PHYSICS LETTERS, vol. 269, p. 500-508, ISSN: 0009-2614, doi: 10.1016/S0009-2614(97)00297-2

Terrasi A, Franzo G, Coffa S, Priolo F, D'ACAPITO F, Mobilio S (1997). Evolution of the local environment around Er upon

thermal annealing in Er and O co-implanted Si. APPLIED PHYSICS LETTERS, vol. 70, p. 1712-1714, ISSN: 0003-6951, doi: 10.1063/1.118678

Terrasi A, La Via F, D'Acapito F, Mobilio S (1997). EXAFS investigation of Co sites in CoSi<sub>2</sub> film grown by ion beam-assisted deposition RID E-8035-2011. MICROELECTRONIC ENGINEERING, vol. 37-8, p. 491-497, ISSN: 0167-9317, doi: 10.1016/S0167-9317(97)00151-2

Pascarelli S, Boscherini F, D'ACAPITO F, Hrdy J, Meneghini C, Mobilio S (1996). X-ray optics of a dynamical sagittal-focusing monochromator on the GILDA beamline at the ESRF. JOURNAL OF SYNCHROTRON RADIATION, vol. 3, p. 147-155, ISSN: 0909-0495, doi: 10.1107/S0909049596004992

## Responsabilità scientifiche

Periodo	2021
Ruolo	Fellow (o equivalenti) di Società scientifiche
Tipo fellow	Membro del consiglio di amministrazione - Union pour la science et la technologie
Nome e sede istituzione	Union pour la science et la technologie, Francia
Url	<a href="http://www.ustverre.fr/site/index.php?lang=en">http://www.ustverre.fr/site/index.php?lang=en</a>
Periodo	2018
Ruolo	Fellow (o equivalenti) di Società scientifiche
Tipo fellow	Membro del consiglio di amministrazione
Nome e sede istituzione	Union pour la science et la technologie, Francia
Url	<a href="http://www.ustverre.fr/site/index.php?option=com_content&amp;view=article&amp;id=92&amp;Itemid=52">http://www.ustverre.fr/site/index.php?option=com_content&amp;view=article&amp;id=92&amp;Itemid=52</a>