

PERSONAL INFORMATION


SILIQI Dritan

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Date of birth 21 April 1960 | Nationality Italian, Albanian

OCCUPATIONAL FIELD

Public research

WORK EXPERIENCE

January 2021 – Present

Senior scientist (full-time/permanent position). Register Code: 10156

Institute of Crystallography-CNR, Via G. Amendola 122/O, 70122 Bari (Italy))

Crystallography applied in biology and material science.

Head of 2Cryst-Lab

Business or sector Research

February 2006 – December 2020

Scientist (full time / permanent position). Register Code: 10156

Institute of Crystallography-CNR, Via G. Amendola 122/O, 70122 Bari (Italy))

Crystallography applied in biology and material science.

Head of Bio-Crystallization Laboratory

Business or sector Research

May 2001 – January 2006

Researcher (project contract)

Institute of Crystallography-CNR

Via G. Amendola 122/O, 70122 Bari (Italy)

Developing methods in Crystallography applied in macromolecules

Business or sector Research

January 2000 – May 2001

Researcher (project contract)

Consorzio Interuniversitario per le Applicazioni di Supercalcolo per l'Università e Ricerca (CASPUR). Rome, Italy (Italy)

Parallel Computing applied on Crystallographic Software for phasing problem at proteins

Business or sector Research

October 1994 – September 1998

Visiting Professor

Istituto di Ricerca per le Metodologie Cristallografiche

c/o Dipartimento Geomineralogico, Università degli Studi di Bari

Via Orabona, 4 70125 Bari (Italy)

Methods in Protein Crystallography

Business or sector Research

May 1985 – May 1992

Assistant Professor (full time / permanent position)

General and Inorganic Department, Tirana University, Tirana (Albania)

Lectures for General and Inorganic Chemistry course. Research at electrochemistry of metal corrosion, x-ray Powder Diffraction

Business or sector Education and Research

VISITING AND TRAINING

- October 2022 **CNR short-term mobility project**
The Maastricht Multimodal Molecular Imaging Institute (M4I), Division of Nanoscopy, Maastricht University, Maastricht, The Netherlands
SDS a rare genetic disease: structure of EFL1 protein through cryo- EM
- May 2016 **CNR short-term mobility project**
ISIS - Neutron and Muon Source Science and Technology Facilities Council Rutherford Appleton Laboratory. Didcot, Oxfordshire, United Kingdom
X-rays and Neutrons to study Smart NanoMaterials
- October 2015 **CNR short-term mobility project**
Beamline I22, Diamond Light Source Ltd. Chilton, Didcot, Oxfordshire, United Kingdom
Characterization by SAXS of nanoparticles (Au, Ag) conjugated to biomolecules
- May 2013 **CNR short-term mobility project**
Institut für Physik der kondensierten Materie. Lehrstuhl für Kristallographie und Strukturphysik Erlangen, Germany
Study and Characterization of hybrid nano-materials inorganic/organic
- October 2012 **EMBO Practical Course**
EMBL c/o DESY Hamburg, Germany
Solution scattering from biological macromolecules
- December 2011 **Internship**
Beamline cSAX12 c/o Paul Scherrer Institute Villigen, Switzerland
Training in scanning Small-Angle X-ray Scattering (SAXS) and Wide-Angle Scattering (WAXS)
- May 2009 **CNR short-term mobility project**
Protein Crystallography Station at Los Alamos National Laboratory (LANL). Los Alamos (NW), USA
Experimental neutron scattering methods and solving the phase problem in neutron diffraction based on D2O/H2O contrast data
- June 2008 **CNR short-term mobility project**
Protein Crystallography Station at Los Alamos National Laboratory (LANL). Los Alamos (NW), USA
Training in the experimental use of unique TOF-Laue neutron diffraction methods for hydrogen structure of enzymes. Adapting of the "FreeLunch" procedure (developed by IC-CNR) to the neutron diffraction data
- March 2008 **Internship**
Membrane Protein Laboratory (MPL). c/o Diamond Light Source Ltd. Didcot, Oxfordshire, United Kingdom
Training in Protein Crystallization procedures. Researching algorithms related to Crystallography data analysis and processing. Developing procedures for dealing with difficult data
- December 1999 **Internship**

Consorzio Interuniversitario per le Applicazioni di Supercalcolo per l'Università e Ricerca (CASPUR). Rome, Italy
Parallel computing techniques

January – October 1997 Internship

Programme for Training and Research in Italian Laboratories (ICTP). Trieste, Italy
Methods on crystallography

January 1991 – February 1992 UNESCO Internship

Laboratoire de Cristalochimie du Solide, Université Paris VI, Paris, France; Laboratoire des Agrégats Moléculaires et Matériaux Inorganiques. Université Montpellier II, Montpellier, France
Crystallochemistry, X-ray Powder Diffraction, EXAFS, XANES

RESEARCH ACTIVITIES

- Study by multi-approach techniques of proteins, and their complex, involved at ribosomopathy diseases such as Shwachman Diamond Syndrome.
- Structural Analysis of the Partially Disordered Protein EspK and its complex with EspB, from Mycobacterium tuberculosis
- Study of the structure and flexibility analysis of the Arabidopsis synaptotagmin.
- X-ray Characterization of Conformational Changes of Human Apo- and Holo-Transferrin
- Structural insights into the intracellular region of the human magnesium transport mediator CNNM4.
- A biophysical and structural study of chitinases from Agave tequilana and their potential role as defence proteins.
- X-ray scanning microscopies of microcalcifications in abdominal aortic and popliteal artery aneurysms Effects of processing on structural, mechanical and biological properties of collagen-based substrates for regenerative medicine
- Scanning Small- and Wide-Angle X-ray Scattering Microscopy Selectively Probes HA Content in Gelatin/Hydroxyapatite Scaffolds for Osteochondral Defect Repair
- MMP3 inhibition by platinum-based complexes binding sites and conformational flexibility
- Crystallographic analysis of metal-ion binding to human Ubiquitin protein
- Developing the phasing techniques to solve the structure of the macromolecules from X-ray and neutron diffraction data. Techniques for improving the electron density maps, for an automatic model building, using data extrapolations beyond the observed resolution (FreeLunch procedure) and a novel difference Fourier synthesis (DEDM). New computational tools for H/D determination in protein structure from neutron data.
- New formulations in Joint Probability Distribution function applied in SIR/MIR, SAD/MAD and molecular replacement techniques. Co-author of a software package for a global phasing for proteins: ILMILIONE [Burla et al, J. Appl. Cryst. (2007), 40, 609-613.]
- Scanning SAXS/WAXS analysis applied to the study of human bone sections, obtaining detailed maps of bone structure, in healthy and pathologic (dwarfism, Paget's, Osteoarthritis) samples. The analysis, performed on synchrotron data, highlighted the differences in orientation and degree of orientation of the HA mineral fraction in the bone, providing a new possible means to understand bone diseases.
- Structural/morphological characterization of nanostructured (bio-) materials, in particular using small and wide-angle X-ray scattering (SAXS and WAXS), even in grazing incidence geometry (GISAXS and GIWAXS), and X-ray reflectivity. Developing and Improving of the algorithms for data analysis.
- Main scientist developer for package SUNBIM [Siliqi et. al. J. Appl. Cryst.(2016). 49, 1107–1114 6]
- Author of 134 articles published in International Journals; WOS: h-index: 24; Total Citations: 2442; GOOGLE SCHOLAR h-index 26; Total citations 3130

SELECTED TEACHING AND LECTURES

- 2024 – invited talk "Extraction and Analysis of "Proteins" from Dinosaur Eggshells (fossils): Insights After 70 Million Years", Department of Chemistry, CINVESTAV (Center for Research and Advanced Studies of the National Polytechnic Institute), Mexico City, Mexico. 21 October.
- invited talk "Small Angle X-ray scattering: dealing with tough flexible/multidomain protein structures", Faculty of Medicine, UNAM (Universidad Nacional Autonoma de Mexico), Mexico City, Mexico. 23-24 October.
- Organization of the Workshop "Teller BioSAXS", Institute of Biochemistry, UNAM (Universidad Nacional Autonoma de Mexico), Mexico City, Mexico. 23-24 October.
- 2023 – "Exploring the Complexity of Life: Insights from Structural Biology." c/o Conicet (IIIA, UNSAM, Campus Miguelete; ITPN, UBA, Ciudad Universitaria), 27 September 2023, Buenos Aires, Argentina
- Small Angle X-ray Scattering (SAXS) combined with other techniques to deal with some tough protein structures", Department of Chemistry, CINVESTAV, Mexico City, Mexico, 25 May 2023
- "Exploring the Complexity of Life: Insights from Structural Biology." c/o Conicet (IIIA, UNSAM, Campus Miguelete, ITPN, UBA, Ciudad Universitaria), Buenos Aires, Argentina, 27 September.
- Small Angle X-ray Scattering (SAXS) combined with other techniques to deal with some tough protein structures", Institute of Biochemistry, UNAM, Mexico City, Mexico, 25 May.
- 2022 – 33rd European Crystallographic Meeting. "Multi-methodological approach to solve SBDS protein involved in the molecular mechanism of Shwachman Diamond Syndrome". 23-27 August.
- Small Angle X-ray Scattering from exploring biological macromolecules in their native state to nano/biomaterials", LNLS-CNPEM, Campinas, Brazil, 28 November
- 2021 – 1st National Congress of the Mexican Society of Synchrotron Light and 1st International Congress Synchrotron Light Technique. Guanajuato, Mexico, 21-26 June 2021. "Small Angle X-ray Scattering (SAXS) in combination with other techniques, experimental and non, to deal with some tough protein structures". Plenary Lecture
- 2019 – Teaching and tutorials on "Small-angle X-ray scattering" Open SESAME HERCULES School, Sesame Synchrotron, Jordan. (26 October - 08 November)
- Seminars "SAXS and WAXS: study of nano- and biomaterials", Department of System Innovation, The University of Tokyo, Japan. (27 September - 4 October)
- "Shwachman-Diamond Syndrome: SBDS and EFL1 conformational characterization through Small Angle X-ray Scattering and Molecular Dynamics Simulations", MISCA V: Fifth Meeting of the Italian (AIC) and Spanish Crystallographic (GE3C) Associations, Napoli, Italy (4-7 September 2019)
- Seminar "Rare diseases and common problems to deal with them: Shwachman-Diamond Syndrome and Small – Angle X-ray Scattering (bioSAXS) technique", Dipartimento di Medicina Molecolare, Università di Pavia, Pavia, Italy. (13 June 2019)
- Seminar "Rare diseases but common problems to deal with them: Shwachman Diamond Syndrome from X-ray scattering to modelling techniques", IRBM Science Park, Pomezia. (10 May)
- May. Seminar "Dalla Biologia Strutturale alla Chemioinformatica: Approci Innovativi per le nuove strategia terapeutiche" Università "La Signora di Buon Consiglio", Tirana, Albania. (19 May)
- 2018 – "Characterization of the interaction between the EFL1 GTPase and the Shwachman-Diamond Syndrome missense mutants", 3rd Joint AIC-SILS Conference, Rome, Italy (25-28 June, 2018).

- 2017 – "Schawman-Diamond Syndrome: inside the structure of EFL1, SBDS proteins and their complex", American Society for Cell Biology (ASCB) and European Molecular Biology Organization (EMBO) Meeting, Philadelphia, USA (2-6 December)
- "When rare is common". International Conference on Applied Sciences and Engineering 2017 (ICEAS 2017), Tirana, Albania (16-17 November)
- Organization of the Workshop "X-ray Scattering in Biology and Material Science", UNAM, Mexico City, Mexico. (23-24 October)
- "Protein Complex Structures: combining X-ray scattering, crystallography and modelling". School of Nanomedicine 2017, Bari, Italy (11-13 October)
- 2017 "Shwachman-Diamond Syndrome: a rare genetic disorder and a tough challenge for the structural characterization of the proteins and their complex involved in the ribosome biogenesis" 25th Congress of Italian Crystallographic Association (AIC) Perugia, Italy (26-29 June).
- Seminar "Using BIOSAXS for the structural characterization of the proteins and their complex involved in the ribosome biogenesis", Department of Chemistry, Faculty of Mathematical Engineering and Physical Engineering Polytechnic University of Tirana, Albania. 8-9 May
- "SUNBIM: a scientific package for X-ray imaging of nano- and biomaterials using SAXS, WAXS, GISAXS and GIWAXS techniques". First Conference in Computing, Information Technology and Business Application (ICTBA), Durres, Albania (6 May)
- 2016 – Organization of XXIV meeting of SILS (Società Italiana di Luce di Sincrotrone), Bari, Italy (21-23 September).
- "Small-Angle-X ray-Scattering (SAXS) studies of the lowresolution structure of the ribosomal GTPase EFL1, the SBDS protein and their complex". IV Meeting of the Italian and Spanish Crystallographic Associations, Tenerife, Spain (21-25 June)
- Organization of IUCr-UNESCO Albania Bruker – OpenLab, Tirana, Albania (30 May - 3 June)
- "Small angle X-ray scattering studies of the low-resolution structure of the ribosomal GTPase EFL1, the SBDS protein and their complex". 8th International Congress on Shwachman-Diamond Syndrome, Verona, Italy. 17-20 April.

PROJECT COORDINATOR

workpage leader WP5 "Potentiating data management, data processing and computational tools" for the Project "ITACA.SB: Potentiating the Italian Capacity for Structural Biology Services in INSTRUCT-ERIC (Project no. IR0000009)" 2023 - current

Bilateral Scientific Cooperation Project between CNR (Consiglio Nazionale delle Ricerche) and CINVESTAV (Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional) 2023-2024

CNCCS Consortium Project: WPS S2-WP3 "Sindrome di Shwachman-Diamond (SDS), una rara malattia genetica trascurata: studio conformazionale della proteina EFL1 e screening di piccole molecole organiche capaci di modulare la sua funzione" 2018-current

Bilateral Scientific Cooperation Project between CNR (Consiglio Nazionale delle Ricerche) and MoES (Ministry of Education and Sport of the Republic of Albania)2018-2020

MAECI Bilateral Scientific/Technologic Cooperation Project Italy - Mexico 2014-2017

Bilateral Scientific Cooperation Project between CNR (Consiglio Nazionale delle Ricerche) and CONCYTEC (Consejo Nacional de Ciencia, Tecnología e Innovación Tecnológica) 2012-2014

MEMBERSHIPS

IUCr - International Union of Crystallography

ECA - European Crystallographic Association

AAC - Honorary president of Association of Albanian Crystallographers

AIC - Italian Crystallographic Association

SCI - Italian Chemical Society

SILS - Italian Synchrotron Radiation Society

SONS - Association of "School of Neutron Scattering Francesco Paolo Rici"

Publications

- [1] Domenico Alberga, Giuseppe Lamanna, Giovanni Graziano, Pietro Delre, Maria Cristina Lomuscio, Nicola Corriero, Alessia Ligresti, Dritan Siliqi, Michele Saviano, Marialessandra Contino, Angela Stefanachi, and Giuseppe Felice Mangiatordi. Dela-drugself: Empowering multi-objective de novo design through selfies molecular representation. *Computers in Biology and Medicine*, 175, 2024. doi: 10.1016/j.compbimed.2024.108486. IF 7.7.
- [2] Nerith R. Elejalde-Cadena, Denisse Hernández, Francesco Capitelli, Selene R. Islas, Maria J. Rosales-Hoz, Michele Zema, Serena C. Tarantino, Dritan Siliqi, and Abel Moreno. Influence of intramineral proteins on the growth of carbonate crystals using as a scaffold membranes of ratite birds and crocodiles eggshells. *Membranes*, 13(11), 2023. ISSN 2077-0375. doi: 10.3390/membranes13110869. IF 4.2.
- [3] Francesca Serena Abatematteo, Pietro Delre, Ivan Mercurio, Veronica V. V. Rezelj, Dritan Siliqi, Stephanie Beaucourt, Gianluca Lattanzi, Nicola Antonio Colabufio, Marcello Leopoldo, Michele Saviano, Marco Vignuzzi, Giuseppe Felice Mangiatordi, and Carmen Abate. A conformational rearrangement of the sars-cov-2 host protein sigma-1 is required for antiviral activity: insights from a combined in-silico/in-vitro approach. *SCIENTIFIC REPORTS*, 13(1), AUG 7 2023. ISSN 2045-2322. doi: 10.1038/s41598-023-39662-w. IF 4.997.
- [4] Abril Gijbsers, Mathias Eymery, Ye Gao, Isabella Menart, Vanesa Vinciauskaite, Dritan Siliqi, Peter J. Peters, Andrew McCarthy, and Raimond B. G. Ravelli. The crystal structure of the espb-espK virulence factor-chaperone complex suggests an additional type vii secretion mechanism in mycobacterium tuberculosis. *The Journal of biological chemistry*, 299(1), Jan 2023. doi: 10.1016/j.jbc.2022.102761. Early Pub Dec 2022; IF 4.8 Cit 1.
- [5] Dritan Siliqi, Alessio Adamiano, Massimo Ladisa, Cinzia Giannini, Michele Iafisco, and Lorenzo Degli Esposti. Formation of calcium phosphate nanoparticles in the presence of carboxylate molecules: a time-resolved in situ synchrotron saxs and waxes study. *CRYSTENGCOMM*, 25(4):550–559, Dic 2022. doi: 10.1039/d2ce01227h. IF 3.756 Cit 1.
- [6] Elena Spinetti, Pietro Delre, Michele Saviano, Dritan Siliqi, Gianluca Lattanzi, and Giuseppe Felice Mangiatordi. A comparative molecular dynamics study of selected point mutations in the shwachman-bodian-diamond syndrome protein sbs. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 23(14), JUL 2022. doi: 10.3390/ijms23147938. IF 5.6.
- [7] Camila Campos-Escamilla, Dritan Siliqi, Luis A. Gonzalez-Ramirez, Carmen Lopez-Sanchez, Jose Antonio Gavira, and Abel Moreno. X-ray characterization of conformational changes of human apo- and holo-transferrin. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 22(24), DEC 2021. doi: 10.3390/ijms222413392. IF 5.6 Cit 4.
- [8] Juan L. Benavente, Dritan Siliqi, Lourdes Infantes, Laura Lagartera, Alberto Mills, Federico Gago, Noemi Ruiz-Lopez, Miguel A. Botella, Maria J. Sanchez-Barrena, and Armando Albert. The structure and flexibility analysis of the arabidopsis synaptotagmin 1 reveal the basis of its regulation at membrane contact sites. *LIFE SCIENCE ALLIANCE*, 4(10), OCT 2021. doi: 10.26508/lsa.202101152. IF 4.4 Cit 4.
- [9] Lorenzo Degli Esposti, Alessio Adamiano, Dritan Siliqi, Cinzia Giannini, and Michele Iafisco. The effect of chemical structure of carboxylate molecules on hydroxyapatite nanoparticles. a structural and morphological study. *BIOACTIVE MATERIALS*, 6(8):2360–2371, AUG 2021. doi: 10.1016/j.bioactmat.2021.01.010. IF 18.9 Cit 5.
- [10] Abril Gijbsers, Nuria Sanchez-Puig, Ye Gao, Peter J. Peters, Raimond B. G. Ravelli, and Dritan Siliqi. Structural analysis of the partially disordered protein espK from mycobacterium tuberculosis. *CRYSTALS*, 11(1), JAN 2021. doi: 10.3390/cryst11010018. IF 2.7 Cit 1.
- [11] Francesco Scattarella, Emiliano Altamura, Paola Albanese, Dritan Siliqi, Massimo Ladisa, Fabio Mavelli, Cinzia Giannini, and Davide Altamura. Table-top combined scanning x-ray small angle scattering and transmission microscopies of lipid vesicles dispersed in free-standing gel. *RSC ADVANCES*, 11(1):484–492, JAN 1 2021. doi: 10.1039/d0ra08581b. IF 3.9 Cit 1.
- [12] Juan Manuel Montes-de Oca-Avalos, Davide Altamura, Maria Lidia Herrera, Cristian Huck-Iriart, Francesco Scattarella, Dritan Siliqi, Cinzia Giannini, and Roberto Jorge Candal. Physical and structural properties of whey protein concentrate - corn oil - tio2 nanocomposite films for edible food-packaging. *FOOD PACKAGING AND SHELF LIFE*, 26, DEC 2020. ISSN 2214-2894. doi: 10.1016/j.fpsl.2020.100590. IF 8.0 Cit 11.

- [13] Liberato De Caro, Francesco Scattarella, Davide Altamura, Milena P. Arciniegas, Dritan Siliqi, Liberato Manna, and Cinzia Giannini. X-ray ptychographic mode of self-assembled cdse/cds octapod-shaped nanocrystals in thick polymers. *JOURNAL OF APPLIED CRYSTALLOGRAPHY*, 53(3):741–747, JUN 2020. ISSN 0021-8898. doi: 10.1107/S160057672000583X. IF 6.1, Cit 2.
- [14] Lorenzo Degli Esposti, Alessio Adamiano, Anna Tampieri, Gloria Belen Ramirez-Rodriguez, Dritan Siliqi, Cinzia Giannini, Pavlo Ivanchenko, Gianmario Martra, Feng-Huei Lin, Jose Manuel Delgado-Lopez, and Michele Iafisco. Combined effect of citrate and fluoride ions on hydroxyapatite nanoparticles. *CRYSTAL GROWTH & DESIGN*, 20(5):3163–3172, MAY 6 2020. ISSN 1528-7483. doi: 10.1021/acs.cgd.0c00038. IF 3.8, Cit 10.
- [15] Francesco Baldassarre, Angela Altomare, Nicola Corriero, Ernesto Mesto, Maria Lacalamita, Giovanni Bruno, Alberto Sacchetti, Bujar Dida, Dafina Karaj, Giancarlo Della Ventura, Francesco Capitelli, and Dritan Siliqi. Crystal chemistry and luminescence properties of eu-doped polycrystalline hydroxyapatite synthesized by chemical precipitation at room temperature. *CRYSTALS*, 10(4), APR 2020. doi: 10.3390/cryst10040250. IF 2.7, Cit 11.
- [16] Teresa Sibillano, Alberta Terzi, Liberato De Caro, Massimo Ladisa, Davide Altamura, Anna Moliterni, Rocco Lassandro, Francesco Scattarella, Dritan Siliqi, and Cinzia Giannini. Wide angle x-ray scattering to study the atomic structure of polymeric fibers. *CRYSTALS*, 10(4), APR 2020. doi: 10.3390/cryst10040274. IF 2.7, Cit 5.
- [17] Pietro Delre, Domenico Alberga, Abril Gijbsers, Nuria Sanchez-Puig, Orazio Nicolotti, Michele Saviano, Dritan Siliqi, and Giuseppe Felice Mangiatordi. Exploring the role of elongation factor-like 1 (efl1) in shwachman-diamond syndrome through molecular dynamics. *JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS*, 38(17): 5219–5229, NOV 21 2020. ISSN 0739-1102. doi: 10.1080/07391102.2019.1704883. IF 4.4, Cit 3.
- [18] Paula Gimenez-Mascarell, Iker Oyenarte, Irene Gonzalez-Recio, Carmen Fernandez-Rodriguez, Maria Angeles Corral-Rodriguez, Igone Campos-Zarraga, Jorge Simon, Elie Kostantin, Serge Hardy, Antonio Diaz Quintana, Mara Zubillaga Lizeaga, Nekane Merino, Tammo Diercks, Francisco J. Blanco, Irene Diaz Moreno, Maria Luz Martinez-Chantar, Michel L. Tremblay, Dominik Mueller, Dritan Siliqi, and Luis Alfonso Martinez-Cruz. Structural insights into the intracellular region of the human magnesium transport mediator cnm4. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 20(24), DEC 2019. doi: 10.3390/ijms20246279. IF 5.6, Cit 9.
- [19] Yusvel Sierra-Gomez, Annia Rodriguez-Hernandez, Patricia Cano-Sanchez, Homero Gomez-Velasco, Alejandra Hernandez-Santoyo, Dritan Siliqi, and Adela Rodriguez-Romero. A biophysical and structural study of two chitinases from agave tequilana and their potential role as defense proteins. *FEBS JOURNAL*, 286(23):4778–4796, DEC 2019. ISSN 1742-464X. doi: 10.1111/febs.14993. IF 5.4, Cit 6.
- [20] C. Giannini, M. Ladisa, V. Lutz-Bueno, A. Terzi, M. Ramella, L. Fusaro, D. Altamura, D. Siliqi, T. Sibillano, A. Diaz, F. Boccafroschi, and O. Bunk. X-ray scanning microscopies of microcalcifications in abdominal aortic and popliteal artery aneurysms. *IUCRJ*, 6(2):267–276, MAR 2019. ISSN 2052-2525. doi: 10.1107/S2052252519001544. IF 3.9, Cit 10.
- [21] Abril Gijbsers, Diana Carolina Montagut, Alfonso Mendez-Godoy, Davide Altamura, Michele Saviano, Dritan Siliqi, and Nuria Sanchez-Puig. Interaction of the gtpase elongation factor like-1 with the shwachman-diamond syndrome protein and its missense mutations. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 19(12), DEC 2018. doi: 10.3390/ijms19124012. IF 5.6, Cit 8.
- [22] Elvio Carlino, Francesco Scattarella, Liberato De Caro, Cinzia Giannini, Dritan Siliqi, Alessandro Colombo, and Davide Emilio Galli. Coherent diffraction imaging in transmission electron microscopy for atomic resolution quantitative studies of the matter. *MATERIALS*, 11(11), NOV 2018. ISSN 1996-1944. doi: 10.3390/ma11112323. IF 3.4, Cit 2.
- [23] Ubaldo Coscia, Giuseppina Ambrosone, Mariano Palomba, Simona Binetti, Alessia Le Donne, Dritan Siliqi, and Gianfranco Carotenuto. Photoconductivity of tellurium-poly(methyl methacrylate) in the ultraviolet-visible-near infrared range. *APPLIED SURFACE SCIENCE*, 457:229–234, NOV 1 2018. ISSN 0169-4332. doi: 10.1016/j.apsusc.2018.06.221. IF 6.7, Cit 7.
- [24] Juan Manuel Montes-de Oca-Avalos, Davide Altamura, Roberto Jorge Candal, Francesco Scattarella, Dritan Siliqi, Cinzia Giannini, and Maria Lidia Herrera. Relationship between nano/micro structure and physical properties of tio2-sodium caseinate composite films. *FOOD RESEARCH INTERNATIONAL*, 105:129–139, MAR 2018. ISSN 0963-9969. doi: 10.1016/j.foodres.2017.11.011. IF 8.1, Cit 12.

- [25] Dritan Siliqi, James Foadi, Marco Mazzorana, Davide Altamura, Alfonso Mendez-Godoy, and Nuria Sanchez-Puig. Conformational flexibility of proteins involved in ribosome biogenesis: Investigations via small angle x-ray scattering (saxs). *CRYSTALS*, 8(3), MAR 2018. ISSN 2073-4352. doi: 10.3390/cryst8030109. IF 2.7, Cit 4.
- [26] A. Terzi, E. Storelli, S. Bettini, T. Sibillano, D. Altamura, L. Salvatore, M. Madaghiele, A. Romano, D. Siliqi, M. Ladisa, L. De Caro, A. Quattrini, L. Valli, A. Sannino, and C. Giannini. Effects of processing on structural, mechanical and biological properties of collagen-based substrates for regenerative medicine. *SCIENTIFIC REPORTS*, 8, JAN 23 2018. ISSN 2045-2322. doi: 10.1038/s41598-018-19786-0. IF 4.6, Cit 63.
- [27] Rojas O., Giannini C., Siliqi D, Altamura D., Paraguay-Delgado F., Solís J.L, and Gómez M.M. Síntesis de partículas de mgo y su incorporación en celdas solares sensibilizadas a base de tio2 / synthesis of mgo nanoparticles and their incorporation into tio2 sensibilized solar cells. *Revista de la Sociedad Química del Perú*, 83(1):3–15, 2017.
- [28] Pietro Roversi, Lucia Marti, Alessandro T. Caputo, Dominic S. Alonzi, Johan C. Hill, Kyle C. Dent, Abhinav Kumar, Mikail D. Levasseur, Andrea Lia, Thomas Waksman, Souradeep Basu, Yentli Soto Albrecht, Kristin Qian, James Patrick McIvor, Colette B. Lipp, Dritan Siliqi, Snezana Vasiljevic, Shabaz Mohammed, Petra Lukacik, Martin A. Walsh, Angelo Santino, and Nicole Zitzmann. Interdomain conformational flexibility underpins the activity of ugtg, the eukaryotic glycoprotein secretion checkpoint. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 114(32):8544–8549, AUG 8 2017. ISSN 0027-8424. doi: 10.1073/pnas.1703682114. IF 11.1, Cit 35.
- [29] Polina Stepensky, Montserrat Chacon-Flores, Katherine H. Kim, Omar Abuzaitoun, Arnulfo Bautista-Santos, Natalia Simanovsky, Dritan Siliqi, Davide Altamura, Alfonso Mendez-Godoy, Abril Gijsbers, Adeeb Naser Eddin, Talia Dor, Joel Charrow, Nuria Sanchez-Puig, and Orly Elpeleg. Mutations in efl1, an sbds partner, are associated with infantile pancytopenia, exocrine pancreatic insufficiency and skeletal anomalies in a shwachman-diamond like syndrome. *JOURNAL OF MEDICAL GENETICS*, 54(8):558–566, AUG 2017. ISSN 0022-2593. doi: 10.1136/jmedgenet-2016-104366. IF 4.0, Cit 76.
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