



Curriculum Vitae

HRZZ Form

PERSONAL INFORMATION

Name and surname **Silvia Tomić**
 Academic title Dr.
 Year and institution 1986.; Laboratoire de Physique des Solides, Université Paris-Sud
 of PhD obtained
 Address Bijenička 46, HR-10000 Zagreb
 Phone 1 46 98 820
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 E-mail stomic@ifs.hr
 Personal web page http://real-science.ifs.hr/wiki/Silvia_Tomic
 Citizenship Croatian
 Date and place of birth 22 January 1953, Zagreb

WORK EXPERIENCE¹ (CHRONOLOGICALLY*)

Date (from – until) 2002-today
 Institution Institute of Physics
 Position Senior Research Advisor
 Work field Natural sciences; Physics; Condensed Matter Physics: Charge and Spin Orders and Dynamics in Transition Metal Oxides and Organic Superconductors; 2D Organic Superconductivity; Structure and Dynamics of Bio-Polyelectrolytes

WORK EXPERIENCE² (CHRONOLOGICALLY*)

Date (from – until) 1999-2002
 Institution Institute of Physics
 Position Research Advisor
 Work field Natural sciences; Physics; Condensed Matter Physics: Layered Organic Superconductors, Dynamics of Charge and Spin Orders in Commensurate and Incommensurate quasi-one-dimensional materials

WORK EXPERIENCE³ (CHRONOLOGICALLY*)

Date (from – until) 1991-1999
 Institution Institute of Physics
 Position Senior Research Associate
 Work field Natural sciences; Physics; Condensed Matter Physics: Charge and Spin Density Waves and Superconductivity in Organic Quasi-One-Dimensional Conductors and Superconductors: Influence of Disorder on the Electrical Transport and Ground State, Influence of Magnetic Field and Pressure on Transport, Dynamics and Stability of Phases;

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* all information in the document should be entered chronologically – from the most recent to the oldest

^{2 2 3}, Please add rows to enter all required information

* all information in the document should be entered chronologically – from the most recent to the oldest

^{3 2 3}, Please add rows to enter all required information

* all information in the document should be entered chronologically – from the most recent to the oldest

Non-linear Effects

WORK EXPERIENCE⁴
(CHRONOLOGICALLY*)

Date (from – until)	1986-1991
Institution	Institute of Physics
Position	Research Associate
Work field	Natural sciences; Physics; Condensed Matter Physics: Linear and Non-linear Transport in the Spin-Density Wave Phase; Influence of Disorder on the Non-linear Transport; Influence of Pressure on the Phase Diagram of the Quasi-One-Dimensional Conductors

WORK EXPERIENCE⁵
(CHRONOLOGICALLY*)

Date (from – until)	1977-1981
Institution	Institute of Physics
Position	Research Assistant
Work field	Natural sciences; Physics; Condensed Matter Physics: Research in Calorimetric Properties of the Phase Transitions in Inorganic Quasi-One-Dimensional Conductors

EDUCATION⁶
(CHRONOLOGICALLY)

Date	1981-1986
Place	Orsay, France
Institution	Laboratoire de Physique des Solides, Université Paris-Sud
Title of qualification awarded	Docteur en Sciences Physiques, these d'etat

EDUCATION⁷
(CHRONOLOGICALLY)

Date	1977-1981
Place	Zagreb
Institution	Postgraduate study of Solid State Physics at the Faculty of Science, University of Zagreb
Title of qualification awarded	Master of Science

EDUCATION⁸
(CHRONOLOGICALLY)

Date	1971-1977
Place	Zagreb
Institution	Faculty of Science, University of Zagreb
Title of qualification awarded	Graduated Engineer in Physics (Bachelor in Physics)

TRAINING
(CHRONOLOGICALLY)

Year	1987; one-year
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* all information in the document should be entered chronologically – from the most recent to the oldest

^{5 2 3}, Please add rows to enter all required information

* all information in the document should be entered chronologically – from the most recent to the oldest

Place	Orsay, France
Institution	Laboratoire de Physique des Solides, Université Paris-Sud
Subject and skills covered	Natural sciences; Physics; Condensed Matter Physics: Organic Conductors and Superconductors; Experimental Low Temperature Physics

LANGUAGES

MOTHER TONGUE	Croatian
ENGLISH LANGUAGE	
Speaking	Fluent
Writing	Excellent
Reading	Excellent

OTHER FOREIGN LANGUAGES⁹

Language	French
Speaking	Fluent
Writing	working knowledge
Reading	Excellent

OTHER FOREIGN LANGUAGES¹⁰

Language	German
Speaking	Basic proficiency
Writing	Working knowledge
Reading	Working knowledge

RESEARCH AND OTHER PROJECTS

(CHRONOLOGICALLY; LEADER AND ASSOCIATES; FUNDING SOURCE)

- "Frequency-Dependent Conductivity of Charge Ordering Phases of Two-Dimensional Organic Metals: Search for the Anisotropic Dispersion and Collective Excitations", leaders: Silvia Tomić (IPhyZg) and Martin Dressel (1.Physikalisches Institut, Universität Stuttgart); (1.1.2008 – 31.12.2010); associates: B. Korin-Hamzić (IPhyZg), T. Vuletić (IPhyZg), T. Ivez (IPhyZg), N.Drichko (UniStuttgart), B.Gorshunov (UniStuttgart), C.Clauss (UniStuttgart), D.Schweitzer (UniStuttgart); Deutsche Forschungsgemeinschaft (DFG) project DR 228/29-1
- "Strongly correlated inorganic, organic and biomaterials" 035-0000000-2836; leader: Silvia Tomić (2007-2011); associates: Sanja Dolanski Babić (MSUniZg), Bojana Korin-Hamzić (IPhyZg), Tomislav Ivez (IPhyZg), Tomislav Vuletić (IPhyZg), Matija Čulo (IPhyZg), Danijel Grgićin (IPhyZg); MSES
- "Broad-Band Optical Spectroscopy of Low-Dimensional Quantum Spin Systems"; leaders Martin Dressel and Boris Gorshunov (1.Physikalisches Institut, Universität Stuttgart); (1.2.2003. – 31.1.2005); Deutsche Forschungsgemeinschaft (DFG); associates: S.Tomic (IPhyZg), T.Vuletić (IPhyZg), B.Korin-Hamzić (IPhyZg)
- "Systems of reduced dimensionality: from synthetic organic to bio-materials" 0035015; leader: Silvia Tomić (2002-2006); associates: Sanja Dolanski Babić (MSUniZg), Bojana Korin-Hamzić (IPhyZg), Tomislav Vuletić (IPhyZg), Tomislav Ivez (IPhyZg), M.Pinterić (IPhyZg), MSES
- "Dynamical and conformational properties of native DNA in varying chemical environment", 1.5.2002.- 30.4.2004); leader: Silvia Tomić (IPhyZg) and 3.Physikalisches Institut, Universität Stuttgart (J.U.von Schütz); associates: T. Vuletić (IPhyZg), Sanja Dolanski Babić (MSUniZg); project in the framework of bilateral collaboration with Germany
- "Frequency-dependent conductivity of commensurate density waves in organic metals: a search for the pinned mode", leaders: Silvia Tomić (IPhyZg) and M.Dressel (1.Physikalisches Institut, Universität Stuttgart); (1.11.2001 – 31.12.2002); associates: B. Korin-Hamzić (IPhyZg), T. Vuletić (IPhyZg), M.Pinterić (IPhyZg); Deutsche Forschungsgemeinschaft (DFG) project 436 KRO 113/5/0-1
- "The nature of the low temperature density wave, its pinning and the superconducting

ground state in anisotropic radical ion salts", (1999-2001); leader: Silvia Tomić (IPhyZg) and 3.Physikalisches Institut, Universität Stuttgart (J.U.von Schütz, D.Schweitzer); associates: B. Korin-Hamzić (IPhyZg), T. Vuletić (IPhyZg), M.Pinterić (IPhyZg); project in the framework of bilateral collaboration with Germany

- "Novel electronic states in molecular conductors" 00350103, leader: Silvia Tomić (1996-2002); associates: B.Korin-Hamzić (IPhyZg), N.Biškup (IPhyZg), T. Vuletić (IPhyZg), M.Pinterić (IPhyZg); MSES
- "Collective charge response of charge density waves and antiferromagnetic phases in organic metals", (1995-1998); leader: Silvia Tomić (IPhyZg) and 3.Physikalisches Institut, Universität Stuttgart (J.U.von Schütz, D.Schweitzer); associates: N.Biškup (IPhyZg), Sanja Dolanski Babić (MSUniZg), Bojana Korin-Hamzić (IPhyZg), M.Pinterć (IPhyZg); project in the framework of bilateral collaboration with Germany
- "Organic metals: electrical transport in high-tempreature phase and in the ground state (antiferromagnetic and superconducting)", (1995-1997); leader: Silvia Tomić (IPhyZg), Laboratoire de Physique des Solides, Université Paris-Sud (D.Jérôme); project in the framework of collaboration between CNRS and Croatia
- "Single-Particle and Collective Mechanism for the Electrical Conductivity in Organic Conductors", (1992-1994); leader: Silvia Tomić (IPhyZg), Laboratoire de Physique des Solides, Université Paris-Sud (D.Jérôme); project in the framework of collaboration between CNRS and Croatia
- "Organic Conductors and Superconductors", (1991-1994); proposal leader: John Cooper, leader: Silvia Tomić (IPhyZg), Université Paris-Sud, University of Copenhagen, University of Stuttgart; EEC projekt CI1-CT90-0863 (CD)
- "Novel anisotropic conductors and superconductors", leader: Silvia Tomić (IPhyZg) (1991-1996); MSES
- "Synthetic conductors and superconductors"; leader: John Cooper (IPhyZg), leader: Silvia Tomić (IPhyZg) (1989-1991); MSES

TEACHING

(CHRONOLOGICALLY; UNDERGRADUATE, GRADUATE , POSTGRADUATE STUDY PROGRAMMES

- „Structure and interactions in polyelectrolytes: basic theory and experimental verification”, Elective course at the Postgraduate Study in Byophysics at the University of Split (since 2008)
- „Exercises in solid state physics” at graduate study of physics at the Faculty of Science, University of Zagreb (2 terms, 1978-1979.)
- “Laboratory exercises in general physics” at graduate study of physics at the Faculty of Science, University of Zagreb (2 terms, 1977-1978.)

MENTORSHIP OF DEFENDED DOCTORAL AND MASTER DISSERTATIONS AND TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS

(CHRONOLOGICALLY)

DOCTORAL THESES

- T.Ivek: «Charge orderings in strongly correlated systems», mentor: Silvia Tomić, Faculty of Science, University of Zagreb (30 June 2011.)
- S.Dolanski Babić: "Electric and Dielectric Properties of genomic DNA Aqueous Solutions", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (16 October 2008.)
- T.Vuletić: «Collective electronic states of new quasi-one-dimensional materials», mentor: Silvia Tomić, Faculty of Science, University of Zagreb (15 October 2004.)
- M.Pinterić: ""Electronic properties of the superconducting and density wave phases in organic anisotropic materials", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (14 March 2003)
- N.Biškup: "Single-Particle and Collective Electrical Transport in Bechgaard Salts", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (1996).

MASTER OF SCIENCES THESES

- S.Dolanski Babić: "Influence of Disorder on the Electron Gas Properties in Organic Anisotropic systems", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (8 April 2002).
- M.Pinterić: "Low-Frequency Dielectric Spectroscopy and Non-linear Electrical Transport of Spin Density Wave", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (31 March 2000).

DIPLOMA THESES

- I.Kovačević: „Electrical Transport in the Charge Ordered Phase of the Organic Conductor α -(BEDT-TTF)₂I₃, mentor: Silvia Tomić, Faculty of Science, University of Zagreb (13 July 2011)
- D.Grgićin: "Electrical Conductivity of Sodium salt hyaluronic acid solutions", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (9 November 2009)
- Z.Gregurić: "Dielectric relaxation of hyaluronic acid aqueous solutions", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (11 July 2008)
- A.Vojvodić: „Dielectric relaxation of colloidal solutions of polystyrene latex nanoparticles”, mentor: Silvia Tomić, Faculty of Science, University of Zagreb (2006).
- K.Radmanović: «Chamber for dielectric constant measurements of samples in aqueous solutions», mentor: Silvia Tomić, Faculty of Science, University of Zagreb (2006).
- T.Ivek: «Charge density wave in quasi-one-dimensional cuprates», mentor: Silvia Tomić, Faculty of Science, University of Zagreb (2004).
- M.Lončarić: "Transport properties of charge density wave at low temperatures", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (2001).
- T.Vuletić: "Non-linear conductivity of spin density wave in Bechgaard salts", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (1998).
- M.Pinterić: "Dielectric response of commensurate charge density wave", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (1997).
- A.Omerzu: "Dielectric response of spin density wave", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (1994).
- M.Basletić: "Magnetoresistance of anisotropic organic conductor (TMTSF)₂NO₃", mentor: Silvia Tomić (with A.Hamzić), Faculty of Science, University of Zagreb (1992).
- S.Dolanski Babić: "Influence of disorder on electrical conductivity and ground state of organic conductors", mentor: Silvia Tomić, Faculty of Science, University of Zagreb (1991).

INTERNSHIP THESES

- Bruno Frka-Petešić: "Utilisation de la spectroscopie dielectrique basse fréquence dans l'étude de systèmes colloïdaux", mentor: Silvia Tomić, internship thesis in the framework of graduate study in physics at Université Denis Diderot ParisVII (2005).

VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS

(CHRONOLOGICALLY; ONLY VISITS LONGER THAN 3 MONTHS)

Since my postdoctoral one-year position (CNRS position) (1987-1988) in Laboratoire de Physique des Solides, University Paris-Sud, all my stays in foreign research institutions were always shorter than 3 months.

AWARDS AND RECOGNITIONS

(CHRONOLOGICALLY)

- 2008-today: Membership in Croatian Academy of Sciences and Arts: Associate member in The Department of Mathematical, Physical and Chemical Sciences

ORGANIZATIONAL SKILLS AND COMPETENCES

(CHRONOLOGICALLY; ORGANIZATION OF HOME AND INTERNATIONAL SCIENCE EVENTS)

- 2007-2010 president of the Croatian Physical Society
- Member of the Organisation Committee of Regional Biophysical Conference 2010 (Primošten, 2010)
- 2006-today: founder and co-organiser of international workshop „Chrystmas Biophysics Workshop“
- 1997-today: member of International Advisory Committee series of International Conference of Science and Tehnology of Synthetic Metals
- 1994 – member of the Organisation committee of the First Scientific Meeting of the Croatian Physical Society

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

(CHRONOLOGICALLY; HOME AND INTERNATIONAL ORGANIZATIONS AND BODIES)

- 2007-2010: president of the Croatian Physical Society
- 2007-2010: member of the European Physical Society Council
- 2007-today: Fellow of The Institute of Physics
- 2004-today: member of the American Physical Society
- 1994-today: member of the Croatian Physical Society

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

(CHRONOLOGICALLY; HOME AND INTERNATIONAL)

- 2011: Chair-elect of the Scientific Advisory Committee of European Physical Journal
- 2009 – today: member of the Scientific Advisory Committee of European Physical Journal
- 2002: member of the Evaluation Committee for national scientific projects in physics - 1.02 physics
- 2001- 2003: president of the Scientific council of the Institute of Physics, Zagreb
- 2000-2003: member of the National Science Awards Committee
- 1994: member of the Managing Board of the Institute of Physics, Zagreb
- 1992-1996: president of the State Committee for experimental projects in physics for high school students

LIST OF PUBLICATIONS

15July 2011: 108 papers, total times cited: 1328 after researcherid.com search
 in addition 11 papers and PhD thesis: times cited: 39 after direct search Web of knowledge
 Total Times Cited: 1367
 Total IF: 226.732

A. SCIENTIFIC PAPERS PUBLISHED IN INTERNATIONAL JOURNALS IN CURRENT CONTENTS

- "Electrodynamic Response of the Charge Ordering Phase: Dielectric and Optical Studies of alpha-(BEDT-TTF)₂I₃", T.Ivek, B.Korin-Hamzic, O.Milat, **S.Tomic**, C.Clauss, N.Drichko, D.Schweitzer and M.Dressel, Phys.Rev.**B83**, 165128 (2011).
 Times Cited: ; IF= 3.475
- "Manning free counterion fraction for a rod-like polyion-short DNA fragment aqueous solutions in presence of very low added salt", T.Vuletić, S. Dolanski Babić, D. Grgićin, D.Aumiler, J.Raedler, F.Livolant and **S.Tomić**, Phys.Rev.**E83**, 041803 (2011).
 Times Cited: ; IF= 2.4
- "Structure and dynamics of hyaluronic acid semidilute solutions: A dielectric spectroscopy study", T.Vuletić, S.Dolanski Babić, T.Ivek, D.Grgićin, **S.Tomić** and R.Podgornik, Phys.Rev.**E82**, 011922 (2010).
 Times Cited: 1 ; IF= 2.4
- "Collective excitations in the charge-ordered phase of alpha-(BEDT-TTF)₂I₃", T.Ivek, B.Korin-Hamzic, O.Milat, **S.Tomic**, C.Clauss, N.Drichko, D.Schweitzer and M.Dressel, Phys.Rev.Lett. **104**, 206406 (2010).
 Times Cited: 2; IF= 7.328
- "Crossover from one-dimensional copper-oxygen chains to two-dimensional ladders charge transport in (La,Y)_y(Sr,Ca)_{14-y}Cu₂₄O₄₁", T. Ivetić, T. Vuletić, B. Korin-Hamzić, O. Milat, **S. Tomic**, B. Gorshunov, M. Dressel, J. Akimitsu, Y. Sugiyama, C. Hess and B. Büchner, Phys. Rev. B**78**, 205105 (2008).
 Times Cited: 2; IF= 3.322
- "Collective charge excitations below the metal-to-insulator transition in BaVS₃", T. Ivetić, T.Vuletić, **S.Tomić**, A.Akrap, H.Berger and L.Forro, Phys.Rev.B **78**, 035110 (2008).
 Times Cited: 4; IF= 3.322
- "Short-fragment Na-DNA dilute aqueous solutions: fundamental length scales and screening", **S.Tomić**, S.Dolanski Babić, T.Ivek, T. Vuletić, S. Krča, F.Livolant and R. Podgornik, Europhys.Letters **81**, 68003 (2008).
 Times Cited: 4; IF= 2.203
- "Terahertz BWO spectroscopy of conductors and superconductors", B.P.Gorshunov, A.A.Volkov, A.S.Prokhorov, I.E.Spektor, J.Akimitsu, M.Dressel, G.J.Nieuwenhuys, **S.Tomić** and S.Uchida, Quantum Electronics **37**, 916-923 (2007).
 Times Cited: 4; IF = 0.985
- "Unconventional spin-density wave in Bechgaard salt (TMTSF)₂NO₃", K.Maki, M.Basletić, B.Korin-Hamzić and **S. Tomic**, Phys.Rev.**B75**, 052409, 1-4 (2007).
 Times Cited: 3; IF= 3.172
- "Dielectric relaxation of DNA aqueous solutions", **S. Tomic**, S. Dolanski Babic, T.Vuletic, S. Krca, D. Ivankovic, L. Griparic and R. Podgornik, Phys.Rev.**E75**, 021905, 1-12 (2007).
 Times Cited: 7; IF= 2.483
- "Screening and Fundamental Length Scales in Semidilute Na-DNA Aqueous Solutions", **S. Tomic**, T. Vuletic, S. Dolanski Babic, S. Krca, D. Ivankovic, L. Griparic and R.Podgornik, Phys.Rev.Lett.**97**, 098303 (2006).

Times Cited: 8; IF= 7.072

- "The spin-ladder and spin-chain system $(La,Y,Sr,Ca)_{12}Cu_{24}O_{41}$: electronic phases, charge and spin dynamics", T.Vuletić, B.Korin-Hamzić, T. Ivec, **S.Tomić**, B.Gorshunov, M.Dressel, and J.Akimitsu, Physics Reports **428**, 169-258 (2006).

Times Cited: 31; IF= 10.438

- "Anisotropy and field-dependence of the spin-density wave dynamics in the quasi one-dimensional conductor $TMTSF_2PF_6$ ", P. Zornoza, K. Petukhov, M. Dressel, T.Vuletić, N.Biškup and **S.Tomić**, Eur. Phys. J. B **46**, 223-230 (2005).

Times Cited: 2; IF = 1.72

- "Anisotropic Charge Modulation in the Ladder Planes of $Sr_{14-x}Ca_xCu_{24}O_{41}$ ", T.Vuletić, T. Ivec, B.Korin-Hamzić, **S.Tomić**, B.Gorshunov, P.Haas, M.Dressel, J.Akimitsu, T. Sasaki and T.Nagata, Phys.Rev.B **71**, 012508 (2005).

Times Cited: 13; IF= 3.185

- "Mott-Peierls phase in deuterated copper-DCNQI systems: a comprehensive study of longitudinal and transverse conductivity and aging effects", M.Pinterić, T.Vuletić, M.Lončarić, K.Petukhov, B.Gorshunov, J.vonSchütz, **S.Tomić**, M.Dressel, J.of Physics, Condensed Matter, **15**, 7351-7364 (2003).

Times Cited: 0; IF = 1.757

- "Variable-range hopping conductivity in the copper-oxygen chains of $La_3Sr_3Ca_8Cu_{24}O_{41}$ ", T.Vuletić, B.Korin-Hamzić, **S.Tomić**, B.Gorshunov, P.Haas, M.Dressel, J.Akimitsu, T.Sasaki and T.Nagata, Phys.Rev.B **67**, 184521 (1-4) (2003).

Times Cited: 21; IF= 3.07

- "Suppression of the charge-density wave state in $Sr_{14}Cu_{24}O_{41}$ by calcium doping", T.Vuletić, B.Korin-Hamzić, **S.Tomić**, B.Gorshunov, P.Haas, T.Rôôm, M.Dressel, J.Akimitsu and T.Nagata, Phys.Rev.Lett.**90**, 257002 (1-4) (2003).

Times Cited: 42; IF = 7.035

- "Influence of internal disorder on the superconducting state in the organic layered superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br", M.Pinterić, **S.Tomić**, M.Prester, Đ.Drobac and K.Maki, Phys.Rev.B **66**, 174521 (1-12) (2002).

Times Cited: 25; IF= 3.07

- "Charge-density wave formation in $Sr_{14}Cu_{24}O_{41}$ ", B.Gorshunov, P.Haas, T.Rôôm, M.Dressel, T.Vuletić, B.Korin-Hamzić, **S.Tomić**, J.Akimitsu and T.Nagata, Phys.Rev.B **66**, 060508(R) (1-4) (2002).

Times Cited: 32; IF= 3.07

- "Coexistence of superconductivity and spin density wave orderings in the organic superconductor $(TMTSF)_2PF_6$ ", T.Vuletić, P.Auban-Senzier, C.Pasquier, **S.Tomić**, D. Jérôme, M.Heritier and K.Bechgaard, Eur. Phys. J B **25**, 319-331 (2002).

Times Cited: 60; IF = 1.741

- "Complex low frequency dielectric relaxation of the CDW state in the $2,5(OCH_3)_2DCNQI_2Li$ ", M.Pinterić, T.Vuletić, **S.Tomić** and J.U.von Schütz, Eur. Phys. J B **22**, 335-341 (2001).

Times Cited: 8; IF = 1.811

- "Influence of quantum Hall effect on linear and nonlinear conductivity in the FISDW states of the organic conductor $(TMTSF)_2PF_6$ ", T.Vuletić, C.Pasquier, P.Auban-Senzier, **S.Tomić**, D. Jérôme, K.Maki and K.Bechgaard, Eur. Phys. J B**21**, 53-60 (2001).

Times Cited: 7; IF = 1.811

- "Low-frequency dielectric spectroscopy of the Peierls-Mott insulating state in the deuterated copper-DCNQI systems", M.Pinterić, T.Vuletić, M.Lončarić, **S.Tomić** and J.U.von Schütz, Eur. Phys. J B **16**, 487-493 (2000).

Times Cited: 3; IF = 2.077

- "Probing the Order Parameter of the Layered Organic Superconductor κ -(BEDT-TTF)₂Cu[N(CN)₂]Br by AC Susceptibility Measurements", M.Pinterić, **S.Tomić**, M.Prester, Đ.Drobac, O.Milat, K.Maki, D.Schweitzer, I.Heinen, W.Strunz, Phys.Rev.B **61**, 7033-7038 (2000).

Times Cited: 45; IF = 3.065

- "Magnetic Anisotropy and Low-Frequency Dielectric Response of Weak Ferromagnetic Phase in κ -(BEDT-TTF)₂Cu[N(CN)₂]Cl, where BEDT-TTF is Bis(ethylenedithio) tetrathiafulvalene", M.Pinterić, M.Miljak, N.Biškup, O.Milat, I.Aviani, **S.Tomić**, D.Schweitzer, W.Strunz, I.Heinen, Eur.Phys.J. **B11**, 217-225 (1999).

Times Cited: 15; IF = 1.705

- "Charge Localization in Organic Conductors (TM)₂X: the Influence of Anion Ordering", P.Auban-Senzier, C.Lenoir, P.Batail, D.Jérôme and **S.Tomić**, Eur. Phys.Journal **B7**, 529-532 (1999).
Times Cited: 2; IF = 1.705
- "Low-Frequency Dielectric Response of Charge-Density Wave Pinned by Commensurability in (2,5(OCH₃)₂DCNQI)₂Li", **S.Tomić**, N.Biškup, M.Pinterić, J.U.von Schütz, H.Schmitt and R.Moret, Europhys.Lett.**38**, 219-224 (1997).
Times Cited: 10; IF = 2.35
- "Negative Magnetoresistance in (TMTTF)₂Br", M.Basletić, D.Zanchi, B.Korin-Hamzić, A.Hamzić, **S.Tomić** and J.M.Fabre, J.de Physique I France **6**, 1855-1864 (1996).
Times Cited: 2; IF = 1.753
- "Electrical Conductivity in Orientationally Disordered Systems: AC and DC measurements in Ferromagnetic Single Crystals of TDAE-C60", A.Omerzu, D.Mihailović, **S.Tomić** and N.Biškup, Phys.Rev.Lett.**77**, 2045 (1996).
Times Cited: 13; IF = 6.14
- "Hall Effect in the Organic Conductor (TMTSF)₂NO₃", M.Basletić, B.Korin-Hamzić, A.Hamzić, **S.Tomić** and J.M.Fabre, Solid State Commun.**97**, 333 (1996).
Times Cited: 3; IF = 1.323
- "Spin-Density Wave State of Tetramethyltetraselenofulvalinium Hexafluorophosphate (TMTSF)₂PF₆: Pressure and magnetic Field Effects", N.Biškup, **S.Tomić** and D.Jérôme, Phys.Rev.**B51**, 17972 (1995).
Times Cited: 24; IF= 2.88
- "Enhanced Charge Localization in the Organic Alloys [(TMTSF)_{1-x}(TMTTF)_x]₂ReO₄" V. Ilakovac, S.Ravy, J.P.Pouget, C.Lenoir, P.Batail, K.Boubekeur, S.Dolanski Babić, N.Biškup, B.Korin-Hamzić, **S.Tomić** and C.Bourbonnais, Phys.Rev.**B50**, 7136 (1994).
Times Cited: 21; IF= 2.88
- "Slow Quantum Oscillations in the Semimetallic Spin-Density Wave State of (TMTSF)₂NO₃", N.Biškup, L.Balicas, **S.Tomić**, D.Jérôme and J.M.Fabre, Phys.Rev.**B50**, 12721 (1994).
Times Cited: 18; IF = 2.88
- "Commensurate Spin-Density Wave State in (TMTTF)₂Br: Single Particle and Collective Charge Dynamics", **S.Tomić**, N.Biškup, S.Dolanski Babić and K.Maki, Europhysics Letters **26**, 295 (1994).
Times Cited: 8; IF = 2.35
- "Slow and Fast Quantum Oscillations in the High Field Magnetoresistance of (TMTSF)₂NO₃: Magnetic Breakthrough Linked to SDW Gap Opening", A.Audouard, F.Goze, S.Dubois, J.P.Ulmet, L.Brossard, S.Askenazy, **S.Tomić** and J.M.Fabre, Europhysics Letters **25**, 363-368 (1994).
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- "The Low-Frequency Dielectric Response and Non-Linear Electrical Transport in κ -(BEDT-TTF)₂Cu[N(CN)₂]Cl", M.Pinterić, N.Biškup, **S.Tomić**, D.Schweitzer, W.Strunz and I.Heinen, Proceedings of 35th International Conference on Microelectronics, Devices and Materials MIDEM'99, Ljubljana, Slovenia, October 13-15 (1999), p.83-p.88.

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- "Transport Properties of Charge-Density Wave in the (2,5(OCH₃)₂DCNQI)₂Li", M.Pinterić, **S.Tomić** and J.U.von Schütz, Proceedings of 34th International

Conference on Microelectronics, Devices and Materials MIDE'98, Rogaška Slatina,
Slovenia, September 23-25 (1998), p.99-p.104.
Times Cited: 0

THESE D'ETAT

- "Propriétés électroniques des composés (TMTSF)₂X et de leurs alliages: rôle des anions sur l'état fondamental et le comportement de basse température", S.Tomic, Universite Paris Sud 1986.

Times Cited: 27

OTHER RESEARCH ACTIVITIES

(CHRONOLOGICALLY; CHIEF EDITOR OR EDITOR OF RESEARCH BOOK, HOME AND INTERNATIONAL RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEDINGS AND OTHER)

- 2009-2010: member of the Scientific Advisory Committee of The European Physical Journal
- 2011 Chair-elect of the Scientific Advisory Committee of The European Physical Journal
- 2012 Chair of the Scientific Advisory Committee of The European Physical Journal

COMPUTER SKILLS

Yes, Microsoft programmes

OTHER IMPORTANT SKILLS AND COMPETENCES

- 2011: referee for the PhD thesis of S.Bernu at Universite Paris-Sud, Orsay
- 2007-today: Member of the Council of the Postgraduate Study in Byophysics at the University of Split
- 2010 : member of the Habilitation committee of V.Ilakovac (habilitation de diriger des recherches) at Universite Pierre et Marie Curie, Paris
- 2007: member of the Habilitation committee and referee for the habilitation of P.Foury (habilitation de diriger des recherches) at Universite Paris-Sud, Orsay
- 2006: member of the PhD committee and referee for the PhD thesis of N.Joo at Universite Paris-Sud, Orsay
- 2005 : member of the PhD committee and referee for the PhD thesis of C.Colin at Universite Pierre et Marie Curie, Paris
- 2000 : member of the PhD committee and referee for the PhD thesis of D.Starešinić at Universite J.Fourier, Grenoble and at University of Zagreb
- 2009 – today: referee for the European Physical Journal E
- 2008 – today: referee for Carbon
- 2007 – today: referee for Modern Physics Letters
- 1998 – today: referee for the European Physical Journal B
- 1991 – today: referee for Europhysics Letters and Journal de Physique

ADDITIONAL INFORMATION AND NOTES**LECTURES/SEMINARS**

- 2009: "Structure and dynamics of Na-DNA aqueous solutions", Department of Physics, Faculty of Sciences, University of Zagreb, Croatia
- 2009: "Complex and non-linear dynamics of charge and spin structures", Institut za fiziku, Znanstveni skup povodom izbora Dr.Johna Coopera, dugogodišnjeg suradnika, za redovnog profesora Sveučilišta u Cambridgeu (Institute of Physics, Scientific meeting on the occasion of promotion of Prof. Dr. John Cooper at the Cambridge University)
- 2008: "Fundamental Length Scales and Screening in Biopolyelectrolytes", Physics Department, University of Ljubljana
- 2006: "Dielectric relaxation of DNA aqueous solutions", 1.Physikalisches Institut, Universität Stuttgart
- 2005: "Dielectric relaxation of DNA aqueous solutions", Laboratoire de Physique des Solides, Université Paris-Sud, Orsay, France
- 2005: "Electronic phases and charge dynamics in the spin ladder and chain system $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ ", Laboratoire de Physique des Solides, Université Paris-Sud, Orsay, France
- 2005: "Electronic phases and charge dynamics in the spin ladder and chain system $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ ", Laboratoire de Chimie Physique – Matiere et Rayonnement, Université Pierre et Marie Curie, Paris, France
- 2004: "Charge-Density Wave State in Ladder Planes of $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$ ", Université de Sherbrooke, Canada
- 2002: "Phason Low-Frequency Response in Charge/Spin Density Waves", 1.Physikalisches Institut, Universität Stuttgart,
- 2002: "Low-frequency Dielectric Spectroscopy in Low-Dimensional Systems", Department of Physics and Astronomy, University of Southern California, Los Angeles, USA
- 2002: "Low-frequency Dielectric Spectroscopy in Low-Dimensional Systems", Dept. of Physics, NHMFL , Florida State University, Tallahassee; University of Florida, Gainesville, USA
- 2002: "Low-frequency Dielectric Spectroscopy in Low-Dimensional Systems", National Institute of Health, LPSB, Bethesda, USA
- 2001: "Superconductivity and magnetism in organic layered superconductors", Department of Physics and Astronomy, University of Southern California, Los Angeles, USA
- 2001: "Superconductivity and magnetism in organic layered superconductors", Department of Physics, Boston College, Chestnut Hill and Department of Physics, Boston University, Boston, USA
- 2001: "Superconductivity and magnetism in organic anisotropic materials", Institute of physics, Zagreb, Croatia
- 2000: "Low-frequency Dielectric Spectroscopy in Low-Dimensional Systems", Institute of Physics, University of Basel, Basel, Switzerland
- 2000 : "Low-frequency Dielectric Spectroscopy in Low-Dimensional Systems", Département de Physique, Ecole Polytechnique Federale de la Lausanne, Lausanne, Switzerland
- 1995 : "Complex Low Frequency Dielectric Response of Spin-Density Wave in $(\text{TMTSF})_2\text{PF}_6$ ", Service National des Champs Magnétiques Pulsés, Toulouse, France
- 1995 : "Charge and Spin Density Waves in Radical Ion Salts", 3.Physikalisches Institut, Universität Stuttgart, Stuttgart, Germany
- 1994: "Dynamics of Spin-Density Waves", Gakushuin University, Tokyo, Japan
- 1992: "Magnetic Field Influence on the Low and High Electric Field Transport in the Spin-Density Wave State of the Organic Conductor $(\text{TMTSF})_2\text{NO}_3$: Imperfect Nesting Effects", Laboratoire de Physique des Solides, Université de Paris-Sud, Orsay, France
- 1992 : "Magnetic Field Influence on the Low and High Electric Field Transport in the Spin-Density Wave State of the Organic Conductor $(\text{TMTSF})_2\text{NO}_3$: Imperfect Nesting Effects", CRTBT, Grenoble, France
- 1992: "Transport Properties of Organic Conductors and Superconductors" Ecole Polytechnique Federale de Lausanne, Switzerland

- 1992: "Normal Phase Electrical Transport and Superconductivity in Low-Dimensional Organic Conductors: Some New Results and Open Problems" Laboratoire de Physique des Solides, Université de Paris-Sud, Orsay, France
- 1991: "Organic Conductors: Physics of Reduced Dimensionality", Odense University, Denmark
- 1989: "Non-Ohmic Electrical Transport in the Spin-Density Wave State of the Organic Conductors (TMTSF) X", University of Hokkaido, Sapporo, Japan
- 1989: "Non-Ohmic Electrical Transport in the Spin-Density Wave State of the Organic Conductors (TMTSF) X", University of Kyoto, Kyoto, Japan
- 1989: "Non-Ohmic Electrical Transport in the Spin-Density Wave State of the Organic Conductors (TMTSF) X", Electrotechnical Laboratory, Tsukuba, Japan
- 1988: "Pressure-Temperature Phase Diagram of the Organic Conductors (DM-DCNQI)₂X, X=Cu, Ag", University of Bayreuth, Germany
- 1988: "Non-Linear Conductivity in Charge and Spin Density Waves", University of Stuttgart, Germany
- 1986: "Effects of Non-Magnetic Disorder in Organic Superconductors", IBM Research Laboratory, San Jose, CA, USA
- 1986: "Effects of Non-Magnetic Disorder in Organic Superconductors", UCLA, Solid State Physics Department, CA, USA
- 1986: "Effects of Non-Magnetic Disorder in Organic Superconductors", Princeton University, USA

INVITED TALKS AT INTERNATIONAL CONFERENCES AND SUMMER SCHOOLS

- "Dynamics and structure of biopolyelectrolytes characterized by dielectric spectroscopy", 18th European Symposium on Polymer Spectroscopy, 19-22 September 2010, Zadar (Croatia).
- "Structure and Dynamics of Na-DNA Aqueous Solutions", The first meeting of EMBO conference series of Cell Biophysics, PhysCell2009, 6-13 September 2009, Primošten (Croatia).
- "Complex and nonlinear dynamics of charge and spin structures", XXIV International Conference of Physics Students, 10-18 August 2009, Split (Croatia).
- "Fundamental Length Scales and Screening in Dilute and Semidilute Na-DNA Aqueous Solutions", Regional Biophysics Conference 2009, Linz, Austria (2009).
- "Dielektrična relaksacija genomske deoksiribonukleinske kiseline" ("Dielectric relaxation of genomic DNA"), 4.znanstveni sastanak hrvatskih biofizičara (4th Scientific Meeting of Croatian Biophysicists), R.Bošković Institute, Zagreb (9 September 2005)
- "Charge-Density Wave State in Ladder Planes of Sr_{14-x}Ca_xCu₂₄O₄₁", International Conference on Low Energy Electrodynamics in Solids (LEES'04), Kloster Banz, Germany (2004).
- «Dielectric spectroscopy of genomic DNA solutions», International Conference "From Solid State to Biophysics", Cavtat, Croatia (2004).
- «Suppression of the Charge-Density Wave State in Sr₁₄Cu₂₄O₄₁ by Calcium Doping», March Meeting of American Physical Society, Montreal, Canada (2004).
- «Modalities of self-organized charge-response in low dimensional systems» International Conference "From Solid State to Biophysics", Cavtat, Croatia (2002).
- "Genuine superconducting ground state in kappa-(BEDT-TTF)₂Cu[N(CN)₂]Br: an understanding after decade of controversy", International Conference on Science and Technology of Synthetic Metals (ICSM 2002), Shanghai, China (2002).
- "Low-frequency dielectric spectroscopy of commensurate density waves", International Conference on Science and Technology of Synthetic Metals, ICSM'00, Bad-Gastein, Austria (2000).
- "Low-Frequency Dielectric Response of Charge-Density Wave Pinned by Commensurability in the Organic Conductor (2,5(OCH₃)₂DCNQI)₂Li", International Symposium on Crystalline Organic Metals, Superconductors and Ferromagnets, Sesimbra, Portugal (1997).
- "Complex Low Frequency Dielectric Response of the Incommensurate Spin-Density Wave Phase in the Bechgaard Salt (TMTSF)₂PF₆", International Symposium on

Crystalline Organic Metals, Superconductors and Ferromagnets, Mittelberg, Austria (1995).

- "Collective Charge Response in Incommensurate and Commensurate Spin-Density Waves", International Symposium on Novel Electronic States in Molecular Conductors, ISMC'94, Tokyo, Japan (1994).
- "Magnetic Field Influence on the Spin-Density Wave Phase of the Organic Conductor $(\text{TMTSF})_2\text{NO}_3$ ", International Workshop on Electronic Crystals ECRYS-93, Carry-Le-Rouet, France (1993).
- "Physical Properties of Novel Organic Alloys $[(\text{TMTSF})_{1-x}(\text{TMTTF})_x]_2\text{ReO}_4$ " Gordon Research Conference on Organic Superconductors, Il Ciocco, Italy (1993).
- "Magnetic Field Influence on the Low and High Electric Field Transport in the Spin-Density Wave State of the Organic Conductor $(\text{TMTSF})_2\text{NO}_3$ ", International Conference on Science and Technology of Synthetic Metals, ICSM'92, Göteborg, Sweden (1992).
- "Influence of Disorder on Non-Linear Conductivity in SDW states of Bechgaard salts", Gordon Research Conference on Organic Superconductors, Irsee, Germany (1991).
- "Non-Ohmic Electrical Transport in the Spin-Density Wave State of the Organic Conductors $(\text{TMTSF})_2\text{X}$ ", International Conference on Science and Technology of Synthetic Metals, ICSM'90, Tübingen, Germany (1990).
- "Non-Ohmic Electrical Transport in the Spin-Density Wave State of Organic Conductors", Third European Conference on Low-Dimensional Conductors and Superconductors, Dubrovnik, Croatia (1989).
- "A Hidden Low-Temperature Phase in the Organic Conductor $(\text{TMTSF})_2\text{ReO}_4$ " The First ISSP International Symposium on the Physics and Chemistry of Organic Superconductors, Tokyo, Japan (1989).
- "Non-Linear Electrical Transport Effects in the Spin-Density Wave State of the Organic Conductors $(\text{TMTSF})_2\text{X}$ ", NATO Advanced Study Institute "Lower-Dimensional Systems and Molecular Electronics", Spetses, Greece (1989).
- "Pressure-Temperature Phase Diagram of the Organic Conductor $(\text{DM-DCNQI})_2\text{Cu}$ ", International Conference on Science and Technology of Synthetic Metals, ICSM'88, Santa Fe, NM, USA (1988).
- "Spin-Density Wave in the Organic Conductor $(\text{TMTSF})_2\text{NO}_3$: Antiferromagnetic Critical Effects and Non-Linear Electrical Transport", International Conference on Science and Technology of Synthetic Metals, ICSM'88, Santa Fe, NM, USA (1988).
- "Antiferromagnetic Critical Effects and Non-Linear Conductivity in the Organic Conductor $(\text{TMTSF})_2\text{NO}_3$ ", UCLA Spin-Density Wave Workshop, Los Angeles, USA (1988).
- "Effects of Non-Magnetic Disorder in Organic Superconductors", NATO Advanced Study Institute on Low-Dimensional Organic Conductors and Superconductors, Magog, Canada (1986).

POPULAR LECTURES

- "Biological phenomena and physical concepts", Professional workshop for physics teachers, Institute of Physics, Zagreb (September 2009).
- "Biological phenomena and physical concepts", Summer school for young physicists, Mali Lošinj, (June 2009).
- "Density waves as self-organized structure: complementarity of collective and single-particle electrical conductivity channel"; Professional workshop for physics teachers, Institute of Physics, Zagreb (1999).

BRIEF DESCRIPTION OF MAJOR ACHIEVEMENTS AND CONTRIBUTIONS IN SCIENCE

Silvia Tomic is a Senior Research Advisor at the Institute of Physics in Zagreb. She studied physics at Faculty of Science, University of Zagreb and received her degree of *Docteur d'état es Sciences Physiques* at University Paris-Sud. Her research fields are condensed matter physics and biological physics. Her main research topics are collective electronic

phases in strongly correlated materials with reduced dimensionality, as well as dynamics and structure of biopolyelectrolytes. Her major achievements and contributions in science are:

- 1) Sliding conductivity in spin density waves (SDW): the electric-field dependent response in SDW phase due to the sliding phason mode (4kF charge modulation) similar to that of the charge-density waves (CDW, 2kF charge modulation); in-depth characterization of transport properties (ST et al., PRL89, times cited: 113; JPhys1991, times cited: 69; PRB1990, times cited: 55; PRB91, times cited 26);
- 2) The decisive role of nonmagnetic disorder which reveals the nature of the unconventional superconductivity in organic systems. In quasi-1D systems, slow cooling rates allow for a structurally ordered low-temperature phase and formation of superconductivity (SC), in contrast fast cooling induces disorder, suppresses SC and promotes the competing SDW phase (ST et al, JPhysLett43, L-839,1982, times cited: 73, JPhys44, C3-1083,1983, times cited: 16; JPhys44, C3-1075,1983: 41); In 2D systems the SC order parameter is critically determined by the level of residual disorder: nominally pure slowly-cooled samples show behavior consistent with the d-wave SC, while increased residual disorder yields behavior expected for a d-wave SC with impurities or an s-wave SC (MP et al, PRB2000, times cited: 45, PRB2002, times cited: 25);
- 3) Bistable resistance, i.e. switching between two different conductance states (from metal to insulator and back) in an organic conductor with hybridized LUMO organic orbitals and d-orbitals of copper: in-depth characterization of the phase diagram revealed rather destructive phase transitions associated with a change in the environment of the Cu cations which can be turned on and off by external (or internal) means like temperature and pressure (ST et al., JPhysC1988, times cited: 91, EPL1988, times cited: 31, SM1988, times cited: 38);
- 4) Anisotropic charge ordering within the ladder planes of the composite chain-ladder cuprate system SrCaCuO whose length scale is quickly reduced by Ca substitution, at high doping levels the CDW order fully vanishes due to increased dimensionality and disorder; construction of the phase diagram and in-depth analysis of competing electronic phases (TV et al., PRL2003, times citec: 42, BG et al., PRB2002, times cited: 32, TV et al., PhysRep2006, times cited: 31, PRB2003, times cited: 21; PRB2005, times cited: 13).
- 5) Dynamics of biopolyelectrolytes in low ac electric fields by Dielectric spectroscopy which can detect and discern structural organization of the solution as an ensemble composed of many chains, as well as structural properties of a single chain (ST et al., PRL2006, times cited: 8, PRE2007, times cited: 7, EPL2008, times cited:4).