**Curriculum vitae**

**Personal information**

Surname(s)/First name(s) **Novaconi Stefan Danica**

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 +40-752-197754

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E-mail(s) novaconi@gmail.com

Nationality (-ies) Romanian

Date of birth 10.09.1961

Gender Male

Desired employment/ Scientific studies

Occupational field Research

**Work experience**

Dates 1990-1996

Occupational or position held Scientific Researcher

Name and address of employer Condensed State Research Institute – Timisoara

Type of business or sector Research

Dates 1996 – present

Occupational or position held Scientific Researcher

Name and address of employer National Institute for Research and Development in Electrochemical and Condensed State matter – Timisoara

Type of business or sector Research

**Education and training**

Ph. D. Chemical engineering, 2013

Dates 2007 - 2013

Title of qualification awarded Ph.D.

Principal subjects / Chemistry Engineering – Solar Cells

occupational skills covered

Name and type of organisation „Politehnica” University Timisoara

providing education and training Faculty of Chemistry and Environmental Engineering

Dates 1982-1987

Title of qualification awarded Physicist

Principal subjects / Condensed Matter Physics, Plasma Physics

occupational skills covered

Name and type of organisation West University of Timisoara

providing education and training Faculty of Physics

**Peer review activity**

2012 – present: reviewer for : Microelectronic Engineering

 Journal of Nanomaterials

 Particulate Science and Technology

**Expertise field**

Matter Physics in high voltage and high-frequency fields, plasma physics, producing of micrometric particles of metal oxides, ceramics, etc. Deposition of thin films by ion bombardment and low pressure plasma, producing of submicron particles in high frequency inductive plasma.

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| **Project Manager** |
| Project manager PN-II-PT-PCCA-2008-2011 ”**Development of magneto-dielectric nanostructured composites for creating intelligent cover with pronounced absorption of microwave”**Project manager - PN-II-PT-PCCA-2008-2011 **“Synthesis of doped nanostructured semiconductors based on Zn4Sb3 and Bi2Te3 with application in clean energy”** |
| **Responsible partner** |
| **ORIZONT 2000 -** "Fizica şi tehnologia materialelor în câmpuri electromagnetice intense de înaltă frecvenţă.", (06.1992-11.1996), **Responsabil tema** |
| **ORIZONT 2000 -** "Cercetarea obţinerii şi obţinerea filmelor subţiri de KTP, BBO, LBO, CBO, etc., dielectrice depuse pe monocristale oxidice, aplicate în dispozitive optic nelineare, precum şi caracterizarea lor", (11.1996-12.2000), **Responsabil tema** |
| **ORIZONT 2000 -** "Cercetări privind sistemele de particule ultrafine. Metode de obţinere, proprietăţi şi realizarea de materiale compozite noi", (08.1996-12.2000), **Responsabil tema** |
| **ORIZONT 2000 -** "Nano si microstructuri magnetice, optice şi ca element activ pentru senzori chimici, obţinute prin tehnologii cu plasmă inductivă de rf", (09.2000-11.2003), **Responsabil tema** |
| **PN 03-36** -"Cercetari privind obtinerea de microstructuri sferice, optic active, in plasma de rf cuplata inductiv", (09.2002-12.2005), **Responsabil tema****CEEX - Modulul I, Relansin, PC-D04-PT04-1042** "Tehnologii integrate pentru utilizarea SiO2 vitros in obtinerea de ceramici si compozite ceramice cu proprietati termotehnice avansate", (10.2005-05.2008), **Responsabil partener****PN III – PCCDI 30 ”** Clădiri inteligente adaptabile la efectele schimbărilor climatice”, (03.2018 -09.2020), **Responsabil partener** |
|  |
| **Team member** |
| **PN-II-PT-PCCA-2013-4-1708**, ”Instalatie pilot mobila pentru tratarea apelor reziduale cu ajutorul energiei solare”, (SolWatClean), 2014-2017**PN-II-PT-PCCA- 2013-4-0826**, ”Cercetari avansate privind dezvoltarea de metode si tehnici rapide pentru detectia pesticidelor din lantul alimentar”, (PESTI – SENZ), 2014-2017**MNT-ERA.NET,** (7-027/2010) “Materiale piezoelectrice functionalizate pentru controlul calitatii si securitatii alimentelor”, (PIM-FCS), 2010-2012 |
| **Bilaterala Romania - Franta**, "Influence of temperature and high pressure on the structural and physical properties in Fe‐based Charge Order systems"(COFeIn), "l'Appel Blanc International ANR - ANCS/UEFISCDI", 2012-2015 |
| **Bilaterala Romania - Moldova**, "Elaborarea proceselor tehnologice de obţinere şi caracterizarea structurilor planare pe baza materialelor semiconductoare III-V şi a straturilor dielectrice oxidice pentru electronică",  |
| **Bilaterala Romania - Ungaria,** " Noi materiale nanostructurate de tip I-III-IV2. Obtinere si caracterizare”  |
| **CEEX – Modul I, Cod MEC 10256, "**Dezvoltarea de celule fotoelectrochimice nanostructurate bazate pe TiO2 si coloranti", 2006-2008 |
| **INFRATECH - 308/2006**, "Cuptor optic cu separare de medii", 2006-2008, **,** Aplicant SC EXHELIOS SRL; SC RADINSTAL SRL, Aplicare a brevetului **B.I. 120934 B1, BOPI 9 (2006), 77.** |
| **CEEX - Modulul I - Infosoc** - "Microsisteme integrate de monitorizare in timp real a parametrilor de foraj pentru optimizarea exploatarii resurselor petroliere", (2005-2007) |
| **CEEX - Modul I - Matnantech -** "Obtinerea prin metode alternative de nanocristale de TiO2 dopate cu ioni metalici. studiul aplicatiilor pentru sanatate, biologie si mediu" (NATIOB-SBM), (2005-2007) |
| **SECURITATE - SENDAC** - "Senzori pentru detectia agentilor chimici de lupta", (2005-2007) |
| **SECURITATE** - **DSIS** - "Dispozitiv hibrid cu senzori pentru identificare si supraveghere", (2005-2007) |
| **CEEX, C 3 / 2005,** "Monocristale de alfa cuart dopate cu Germaniu", (2005-2007) |
| **CEEX – Modul I -** "Influenta defectelor intrinseci si induse in cristalul de langasit asupra performantelor structurilor rezonante piezoelectrice", (2006-2008) |
| **CEEX – Modul I -** "Centrul virtual pentru tehnologii integrate cu aplicatii ale energiei electroultraacustice in ingineria materialelor avansate", (2006-2008) |
| **CEEX – Modul I -** Retea tehnologica destinata integrarii romaniei in platforma europeana de nanoelectronica", (2006-2008) |
| **CEEX – Modul I -** "Retea de cercetare si servicii pentru sinteza nanostructurilor cu aplicatii in produse avansate din industria textila, acoperiri protectoare si a mediului", (2006-2008) |
| **PN II – Parteneriate,** "Stabilirea actiunii si a efectelor stresprotectoare si/sau imunostimulatoare a unor noi materiale biologic active", (2007-2010) |
| **PN II – Parteneriate,** "Sinteza materialelor zeolitice functionalizate cu nanocristale de dioxid de titan dopate si testarea acestora in statii pilot de potabilizare", (2007-2010) |
| **PN II – Parteneriate**, "Cercetari complexe privind obtinerea si proprietatile magnetice ale sistemelor de nanoparticule ferimagnetice de CoxFe3-xO4 surfactate/nesurfactate si biocompatibile cu potentiale aplicatii in terapia cancerului", (2007-2010) |
| **PN II – Parteneriate**, "Sistem de microsenzori piezoelectrici, de masurare, analiză şi control multiparametru, integrat 3D" - PIEZOSENZ, (2007-2010) |
| **PN II - Parteneriate,** "Senzori piezoelectrici performanti pe baza de noi structuri α-cuart, senzori pentru calitatea si siguranta alimentelor", (2007-2010) |
| **PN II - Parteneriate**, "Biocombustibili obtinuti prin valorificarea deseurilor celulozice intr-un sistem integrat chimico-enzimati", (2007-2010) |
| **PN II - Parteneriate**, "Utilizarea unor materiale zeolitice functionalizate cu nanocristale de TiO2pentru epurarea apelor reziduale in vederea recircularii acestora", (NANO ZEOREZID), 2008-2011 |
| **PN II - Parteneriate**, "Staţie autonomă de monitorizare cu aplicaţii în domeniul energiei fotovoltaice şi al protecţiei mediului", (SAM), (2008-2011) |
| **PN II – Parteneriate**, "Arii de micro/nano senzori de prag pentru detectia in timp real a contaminarii mediului acvatic cu agenti chimici" - AQAPROTECT, (2008-2012) |
| **POS CCE,** Axa Prioritarã 2, “Intărirea capacităţii administrative şi a vizibilităţii internaţionale departamentale", (AVID), 2009 |
| **PN-II-PT-PCCA-2013-4-1708**, "Instalatie pilot mobila pentru tratarea apelor reziduale cu ajutorul energiei solare", (2014 - ) |
| **PN-II-PT-PCCA-2013-4-0826,** "Cercetari avansate privind dezvoltarea de metode si tehnici rapide pentru detectia pesticidelor din lantul alimentar", (2014 - )**PN Nucleu – 32 projects** |

**List of published scientific papers (ISI)**

* P. Vlazan, M. Bradiceanu, P. Sfirloaga, R. Baies, A. Grozescu and **S. Novaconi**. „The precursors influence on the physical properties of cobalt ferrites nanoparticles”, [Journal of Optoelectronics and Advanced Materials](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=26622&origin=resultslist), vol. 1, no. 1, pp. 34–36, 2009 (IF-0,516)
* C. [Ratiu, C.](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538843300&zone=) [Lazau,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=16203040300&zone=) P. [Sfirloaga,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538834400&zone=) C. [Orha,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24071543700&zone=) D. [Sonea,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26024481300&zone=) **S.** [**Novaconi,**](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538876700&zone=) F. [Manea](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=15830033100&zone=) and I. [Grozescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24337938900&zone=) „[Decontaminate effect of the functionalized materials with undoped and doped (Ag) TiO2 nanocrystals](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-65749115939&origin=resultslist&sort=plf-f&src=s&st1=Novaconi&st2=&nlo=1&nlr=20&nls=count-f&sid=FAD4815A822DD1F9F37CEE6B9AD26F2B.WXhD7YyTQ6A7Pvk9AlA%3a63&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Novaconi%2c+%c5%9etefan%22+26538876700%29&relpos=9&relpos=9&searchTerm=AU-ID%28%5C%26quot%3BNovaconi%2C+%C5%9Etefan%5C%26quot%3B+26538876700%29)”, [Environmental Engineering and Management Journal](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=12000154347&origin=resultslist), vol. 8, no. 2, pp. 237-242, 2009. (IF-1,004)
* C. [Lazau,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=16203040300&zone=) P. [Sfirloaga,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538834400&zone=) C. [Ratiu, C.](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538843300&zone=) [Orha,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24071543700&zone=) A. [Ioitescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24341225200&zone=) I. [Miron,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=55323287600&zone=) **S.** [**Novaconi** and](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538876700&zone=) [I. Grozescu](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24337938900&zone=) „[Synthesis of bioactive materials based on undoped/doped TiO2 and their nanocrystals with α-/β -cyclodextrins](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-75949118197&origin=resultslist&sort=plf-f&src=s&st1=Novaconi&st2=&nlo=1&nlr=20&nls=count-f&sid=FAD4815A822DD1F9F37CEE6B9AD26F2B.WXhD7YyTQ6A7Pvk9AlA%3a63&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Novaconi%2c+%c5%9etefan%22+26538876700%29&relpos=8&relpos=8&searchTerm=AU-ID%28%5C%26quot%3BNovaconi%2C+%C5%9Etefan%5C%26quot%3B+26538876700%29)”, [Journal of Optoelectronics and Advanced Materials](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=26622&origin=resultslist), vol. 11, no. 7., pp. 981-987, 2009. (IF-0,516)
* S. A. Popescu, P. Vlazan, P. V. Notingher, **S. Novaconi**, I. Grozescu, A. Bucur and P. Sfirloaga, „Synthesis, Morphology and Magnetic Characterization of Zn Ferrite Powders”, J. Electromagnetic Analysis & Applications, vol. 2, pp. 598-600, 2010. (IF-1,150)
* P. [Sfirloaga,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538834400&zone=) **S.** [**Novaconi,**](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538876700&zone=) C. [Lazau,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=16203040300&zone=) C. [Ratiu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538843300&zone=) C. [Orha,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24071543700&zone=) I. [Grozescu and N.](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24337938900&zone=) [Vaszilcsin,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=6507465994&zone=) „[Preparation and characterization of Ag doped TiO2 incorporated in natural zeolite](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-77957297177&origin=resultslist&sort=plf-f&src=s&st1=Novaconi&st2=&nlo=1&nlr=20&nls=count-f&sid=FAD4815A822DD1F9F37CEE6B9AD26F2B.WXhD7YyTQ6A7Pvk9AlA%3a63&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Novaconi%2c+%c5%9etefan%22+26538876700%29&relpos=7&relpos=7&searchTerm=AU-ID%28%5C%26quot%3BNovaconi%2C+%C5%9Etefan%5C%26quot%3B+26538876700%29)”, [Journal of Optoelectronics and Advanced Materials](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=26622&origin=resultslist), vol. 12, no. 9, pp. 1884-1888, 2010. (IF-0,516)
* P.C. [Fannin,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=7004912440&zone=) C.N. [Marin,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=7101670569&zone=) I. [Malaescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=6603569184&zone=) N. [Stefu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=6507110311&zone=) P. [Vlazan,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=23478545000&zone=) **S.** [**Novaconi**](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538876700&zone=) and S. [Popescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=25121916000&zone=) „[Effect of the concentration of precursors on the microwave absorbent properties of Zn/Fe oxide nanopowders](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-79551604519&origin=resultslist&sort=plf-f&src=s&st1=Novaconi&st2=&nlo=1&nlr=20&nls=count-f&sid=FAD4815A822DD1F9F37CEE6B9AD26F2B.WXhD7YyTQ6A7Pvk9AlA%3a63&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Novaconi%2c+%c5%9etefan%22+26538876700%29&relpos=6&relpos=6&searchTerm=AU-ID%28%5C%26quot%3BNovaconi%2C+%C5%9Etefan%5C%26quot%3B+26538876700%29)”, [Journal of Nanoparticle Research](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=28545&origin=resultslist), vol. 13, no. 1, pp. 311-319, 2011. (IF-3,287)
* S. A. [Popescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=25121916000&zone=) P. [Vlazan,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=23478545000&zone=) P.V. [Notingher,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=7004670879&zone=) **S.** [**Novaconi,**](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538876700&zone=) I. [Grozescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24337938900&zone=) A. [Bucur and](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24341225200&zone=) P. [Sfirloaga,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538834400&zone=) „[Synthesis of Ni ferrite powders by coprecipitation and hydrothermal methods](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-80052641145&origin=resultslist&sort=plf-f&src=s&st1=Novaconi&st2=&nlo=1&nlr=20&nls=count-f&sid=FAD4815A822DD1F9F37CEE6B9AD26F2B.WXhD7YyTQ6A7Pvk9AlA%3a63&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Novaconi%2c+%c5%9etefan%22+26538876700%29&relpos=5&relpos=5&searchTerm=AU-ID%28%5C%26quot%3BNovaconi%2C+%C5%9Etefan%5C%26quot%3B+26538876700%29)”, [Journal of Optoelectronics and Advanced Materials](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=26622&origin=resultslist), vol. 13, no. 3, pp. 260-262, 2011. (IF-0,516)
* P.C. [Fannin,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=7004912440&zone=) C.N. [Marin,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=7101670569&zone=) I. [Malaescu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=6603569184&zone=) N. [Stefu,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=6507110311&zone=) P. [Vlazan,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=23478545000&zone=) **S.** [**Novaconi,**](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538876700&zone=) P. [Sfirloaga](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=26538834400&zone=) and C. [Couper,](http://www.scopus.com.scopeesprx.elsevier.com/authid/detail.url?origin=resultslist&authorId=24173191800&zone=) „[Microwave absorbent properties of nanosized cobalt ferrite powders prepared by coprecipitation and subjected to different thermal treatments](http://www.scopus.com.scopeesprx.elsevier.com/record/display.url?eid=2-s2.0-78649869695&origin=resultslist&sort=plf-f&src=s&st1=Novaconi&st2=&nlo=1&nlr=20&nls=count-f&sid=FAD4815A822DD1F9F37CEE6B9AD26F2B.WXhD7YyTQ6A7Pvk9AlA%3a63&sot=anl&sdt=aut&sl=37&s=AU-ID%28%22Novaconi%2c+%c5%9etefan%22+26538876700%29&relpos=4&relpos=4&searchTerm=AU-ID%28%5C%26quot%3BNovaconi%2C+%C5%9Etefan%5C%26quot%3B+26538876700%29)”, [Materials and Design](http://www.scopus.com.scopeesprx.elsevier.com/source/sourceInfo.url?sourceId=17797&origin=resultslist), vol. 32, no.3, pp. 1600-1604, 2011. (IF-2,200)
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