

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

PERSONAL INFORMATION

First name/ Surname Rada Novakovic
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WORK EXPERIENCE

Dates	19/12/2001 - present
Occupation held	Research Scientist
Main activities and responsibilities	Theoretical research activities: Thermal properties of Nano-sized systems, Transport phenomena in Nano-sized systems, Modelling of physico-chemical processes of metallic and ceramic materials (diffusion, sintering), Thermodynamics (including nano-sized systems), Condensed matter, Thermophysical and structural properties of liquid metallic materials, Wetting & interfaces, Coalescence, Catalysis. Responsible CNR-ICMATE for the research lines: 1) Thermophysical properties of structural materials at high temperature and liquid metal corrosion; 2) Nanosized metallic systems. WP leader of ThermoProp and Semitherm ESA-MAP Projects; Project leader of Italy-Korea bilateral project; Responsible for a subtopic of one national project (PNRR); Participant in numerous international and national projects; Referee of International/ European projects and journals; Member of Editorial boards of Int. conferences and journals; Member of Management committee of COST TD1409, Tutor/external member for Master and PhD thesis; In the past ESA/ASI and bilateral projects leader; Visiting professor at several universities; Organizer and co-organizer of Int. conferences, workshops and summer schools.
Name and address of employer	National Research Council-Institute of Condensed Matter Chemistry and Technologies for Energy (CNR-ICMATE), Via de Marini 6, 16149, Genoa, Italy
Dates	10/2004 – 08/2005
Occupation held	Visiting Professor & Research Scientist at Department of Materials Science and Processing, Graduate School of Engineering, Osaka University, Japan
Main activities and responsibilities	Modelling of the thermophysical properties of liquid alloys; Calculation of nanosized phase diagrams
Name and address of employer	National Research Council-Institute for Energetics and Interphases (CNR-IENI), Via de Marini 6, 16149, Genoa, Italy
Dates	09/1998 – 12/2001
Occupation held	Researcher with fixed-term contracts
Main activities and responsibilities	Modelling of the surface and transport properties of liquid metallic materials in the framework of thermodynamic-statistical mechanics; Wetting properties
Name and address of employer	National Research Council-Institute for Energetics and Interphases (CNR-IENI), Via de Marini 6, 16149, Genoa, Italy
Dates	09/1996 – 09/1998
Occupation held	Post-doc with fellowships awarded by the CNR and Univ. Roma III on the PROART project funds
Main activities and the responsibilities	Thermodynamics and metallurgy of gold alloys; Overall properties of gold alloys used in jewellery; Co-author of the book on gold alloys and relevant technologies

Name and address of employer CNR-Institute for Energetics and Interphases of Genova (ex. ICFAM), Via De Marini 6, 16149 Genoa, Italy

Dates 09/01/1993 – 21/09/1996

Occupation held Post-doc with fellowships awarded by funds of projects of Dept. of Mater. Eng. (UNIGE)

Main activities and responsibilities Sintering of silicon nitride and silicon carbide, Transport and mech. properties (ANSYS), Hardmetals and Cermets; Reports for industries participating the research

Name and address of employer University of Genoa, Interdisciplinary Center of Materials Science and Engineering, Piazzale Kennedy, Fiera del Mare Pad. D, 16129 Genoa, Italy

Dates 05/1984 – 09/1998

Occupation held Assistant, Research Associate (permanent position)

Main activities and responsibilities Modelling of diffusion, Sintering. Thermodynamics and Phase diagram calculations. Applications of Pattern Recognition Theory in Materials Science (for the conservation of cultural heritage). Statistics in medicine.

Name and address of employer Institute of Technical Sciences of SASA, Knez Mihajlova 35/IV, 11000 Belgrade, Serbia (ex-Yugoslavia)

EDUCATION AND TRAINING

Dates 16/01/1992

Title of qualification awarded PhD degree in Technical Sciences

Principal subjects / occupational skills covered PhD training courses at Max Planck Institute, Stuttgart (1987-1989; tutor Prof. H.L. Lukas) Thermodynamics and Phase Diagram Calculations, Metallurgy, Advanced Ceramics. International Team work, Scientific literature database, Advanced research, Collaboration with industry.

Name and address of employer University of Belgrade, Faculty of Electronic Engineering, Nish, Serbia

Dates 17/11/1984

Title of qualification awarded Master degree in Materials Sciences

Principal subjects/occupational skills covered MS training courses at Center for Multidisciplinary Studies, Univ. Belgrade (1982-1984); tutor Prof. M.M. Ristic) Modelling of physico-chemical processes of metallic and ceramic materials in Materials Science, Diffusion problems and Heat conduction numerical solutions of partial differential equations. Pattern recognition Theory. Mathematics Applied practice and theory.

Name and address of employer University of Belgrade, Center for Multidisciplinary Studies, Belgrade, Serbia

Dates 21/02/1981

Title of qualification awarded BS Degree in Applied Mathematics

Name and address of employer University of Belgrade, Faculty of Mathematics, Belgrade, Serbia

Dates 06/1975

Occupation held High School Diploma at Classical Gymnasium (Pula, Croatia)

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Croatian

Other language(s) Italian (C2), English (C2), French (B1), German (B1), Russian (A2)

RESEARCH ACTIVITIES

Research sectors Modelling of Thermophysical properties of liquid alloys
Modelling of surface phenomena (adsorption, segregation)
Thermodynamic and kinetic calculations
Thermodynamics and thermal properties of nano-sized systems

Recent Scientific Activities	Coalescence in nano-sized catalyst systems Modelling of Thermophysical properties of liquid Si-X (X = Co, Ge, Zr, Ir, V, Mo), Fe-Cr and Ni-based alloys, Pd-X (X = Ag, Cu, Mg, Au) catalyst systems, Thermodynamic calculations of the Fe-Cr-Pb-Bi-O system and creation of overall property database, Au-Si, Au-Ge systems for electronics, Calculation of nano-sized phase diagrams and coalescence (Ag-Pd, Cu-Pd, Au-Pd), Wettability of Si-X (X = Co, Ge, Zr, Ir, V, Mo) and modelling of growth kinetics, Experimental planning theory applied to Materials Science. Numerical methods in Materials Science.
BOOKS AND ARTICLES	Co-author of 3 books, 9 book chapters and 170 publications in refereed international journals and more than 140 contributions to international and national conferences.
Editorial boards	J. of Molecular Liquids; J. of Mining and Metallurgy: Section B: Metallurgy; J. of Modern Physics; Liquids
Awards H=33 H=31	Gold Bulletin Award; Acta Materialia, Inc. Google Scholar SCOPUS

JRC – Articles

1. Novakovic R., Giuranno D., Lee J., Mohr M., Delsante S., Borzone G., Miani F., Fecht H.-J., Thermophysical Properties of Fe-Si and Cu-Pb Melts and Their Effects on Solidification Related Processes. *Metals* 2022, 12, 336 (pp. 1-22)
2. Novakovic R., Delsante S., Giuranno D., Design of Composites by Infiltration Process: A Case Study of Liquid Ir-Si Alloy/SiC Systems. *Materials* 14 (2021) 6024 (pp.1-18).
3. Dobosz A., Novakovic R., Gancarz T., Liquid metals: Thermophysical properties of alloys from the Ga-Sn-Zn system, *J. Mol. Liq.* 343, (2021) 117646 (pp. 1-16)
4. Giuranno D., Gambaro S., Bruzda G., Nowak R., Polkowski W., Sobczak N., Delsante S., Novakovic R., Interface design in lightweight SiC/TiSi₂ composites fabricated by reactive infiltration process: Interaction phenomena between liquid Si-rich Si-Ti alloys and glassy carbon, *Materials*, 14(13), (2021) 3746 (pp. 1-16)
5. Borzone G., Delsante S., Li D., Novakovic R., New Insights into Phase Equilibria of the Sb-Sn System, *J. Phase Equilibria Diffus.* 42(1) (2021) 63-76.
6. Giuranno D., Amore S., Novakovic R., Tomasi C., Ricci E., Wetting property of liquid Pb on different steel candidates as structural materials for the Generation IV nuclear reactors, *High Temp. High Press.* 50(1) (2021) 49-61.
7. Biffi C.A., Bassani P., Fiocchi J., Giuranno D., Novakovic R., Tuissi A., Ricci E., Investigation of high temperature behavior of AlSi10Mg produced by selective laser melting, *Mater. Chem. Phys.* 259 (2021) 123975.
8. Kang Y., Brillo J., Han J., Kim H.G., Giuranno D., Novakovic R., Ricci E., Arato E., Lee J., Oxygen adsorption of molten Ag–Cu eutectic alloy and its associated surface modification, *J. Mol. Liq.*, 319 (2020) 114294.
9. Novakovic R., Mohr M., Giuranno D., Ricci E., Brillo J., Wunderlich R., Egly I., Plevachuk Y., Fecht H.-J., Surface Properties of Liquid Al-Ni Alloys: Experiments Vs Theory, *Microgravity Science and Technology* 32 (2020) 1049-1064.
10. Giuranno D., Novakovic R., Tomasi C., Ricci E., Evaluation of Corrosion Phenomena of T91 Steel in Stagnant Liquid Lead at High Operational Temperatures, *CORROSION*, November 76(11) (2020) doi.org/10.5006/3564
11. Mohr M., Wunderlich R., Novakovic R., Ricci E., Fecht H.-J., Precise Measurements of Thermophysical Properties of Liquid Ti–6Al–4V (Ti64) Alloy On Board the International Space Station, *Adv. Eng. Mater.* (2020) 2000169 (pp 1-10)
12. Giuranno D., Novakovic R., Surface and transport properties of liquid Bi–Sn alloys, *J. Mater. Sci.: Mater. El.* 31(7) (2020) 5533-5545.
13. Giuranno D., Polkowska A., Polkowski W., Novakovic R., Wetting behavior and reactivity of liquid Si-10Zr alloy in contact with glassy carbon, *J. Alloys Compd.* 822, (2020) 153643.
14. Giuranno D., Bruzda G., Polkowska A., Nowak R., Polkowski W., Kudyba A., Sobczak N., Mocellin F., Novakovic R., Design of refractory SiC/ZrSi₂ composites: Wettability and spreading behavior of liquid Si-10Zr alloy in contact with SiC at high temperatures, *J. Eur. Ceram. Soc.* 40(4) (2020) 953-960.

15. Giuranno D., Sobczak N., Bruzda G., Nowak R., Polkowski W., Polkowska A., Kudyba A., Novakovic R., Studies of the Joining-Relevant Interfacial Properties in the Si-Ti/C and Si-Ti/SiC Systems, *J. Mater. Eng. Perform.* 29 (2020) 4864-4871.
16. Delsante S., Borzone G., Novakovic R., Experimental thermodynamics, surface and transport properties of liquid Ag-Ge alloys, *Thermochim. Acta*, 682 (2019) 178432.
17. Delsante S., Novakovic R., Gagliolo A., Borzone G., Thermodynamic investigation on the Mg-Pd intermetallic phases, *J. Chem. Thermodyn.* 139 (2019) 105890.
18. Giuranno D., Sobczak N., Bruzda G., Nowak R., Polkowski W., Kudyba A., Polkowska A., Novakovic R., Studying the wettability and reactivity of liquid Si-Ti eutectic alloy on glassy carbon, *J. Mater. Eng. Perform.* 28(6) (2019) 3460-3467.
19. Giuranno D., Sobczak N., Bruzda G., Nowak R., Polkowski W., Kudyba A., Polkowska A., Novakovic R., Wetting and spreading behaviors of liquid Si-Ti eutectic alloy in contact with glassy carbon and SiC at $T = 1450^{\circ}\text{C}$, *Metall. Mater. Trans. A: Phys. Metall. Mater. Sci.*, 50(10), (2019) 4814-4826.
20. Delsante S., Borzone G., Novakovic R., Experimental Thermodynamics and Surface Properties of Ag-Cu-Ge Solder/Braze Alloys, *J. of Phase Equilibria and Diffusion* 40(1) (2019) 115-125.
21. Takahashi M., Giuranno D., Ricci E., Arato E., Novakovic R.M., Surface Properties of Liquid Al-Si Alloys, *Metall. Mater. Trans. A: Phys. Metall. and Mater. Sci.* 50(2) (2019) 1050-1060.
22. Ricci E., Giuranno D., Canu G., Amore S., Novakovic R., Corrosion behaviour of oxide dispersion strengthened iron-chromium steels in liquid lead at 973 K, *Materials and Corrosion* 69(11) (2018) 1584-1596.
23. Brillo J., Arato E., Giuranno D., Kobatake H., Maran C., Novakovic R., Ricci E., Rosello D., Viscosity of liquid Ag-Cu alloys and the competition between kinetics and thermodynamics, *High Tem.-High Press.* 47(5) (2018) 417-441.
24. Novakovic M.R., Delsante S., Borzone G., Wetting and interfacial reactions: experimental study of the Sb-Sn-X (X = Cu, Ni) Systems, *J. Min. Metall. Sect. B-Metall.* 54 (2) B (2018) 251-260.
25. Novakovic R., Delsante S., Lee J., Borzone G., Surface and transport properties of liquid Ag-Sn alloys and a case study of Ag-Sn eutectic solder, *J. Mater. Sci.: Materials in Electronics* 29 (2018) 17108-17121.
26. Delsante S., Novakovic R., Borzone G., Synthesis, characterization and thermal stability of SnAg and SnAgCu nanoparticles, *J. Alloys Compds*, 747 (2018) 385-390.
27. Fima P., Novakovic R., Surface tension modelling of liquid Cd-Sn-Zn alloys, *Phil. Magazine* 13 (2018) 1-17.
28. Delsante S., Li D., Novakovic R., Borzone G., Design of Ag-Ge-Zn braze/solder alloys: Experimental thermodynamics and surface properties, *J. Mining and Metallurgy, Section B: Metallurgy* 53(3), (2017) 295-302.
29. Giuranno D., Delsante S., Borzone G., Novakovic R., Effects of Sb addition on the properties of Sn-Ag-Cu/(Cu, Ni) solder systems, *J. Alloys Compds.* 689 (2016) 918-930.
30. Novakovic R., Giuranno D., Caccia M., Amore S., Nowak R., Sobczak N., Narciso J., Ricci E., Thermophysical properties of liquid Co-Si alloys, *J. of Molecular Liquids* 221 (2016) 346-353.
31. Amore S., Valenza F., Giuranno D., Novakovic R., Dalla Fontana G., Battezzati L., Ricci E., Thermophysical properties of some Ni-based superalloys in the liquid state relevant for solidification processing, *J. Mater. Sci.* 51 (2016) 1680-1688.
32. Pavan L., Baletto F., Novakovic R., Multiscale approach for studying melting transitions in CuPt nanoparticles, *Phys. Chem. Chem. Phys.* 17 (2015) 28364-28371.
33. Caccia M., Amore S., Giuranno D., Novakovic R., Ricci E., Narciso J., Towards optimization of SiC/CoSi₂ of composite material manufacture via reactive infiltration: wetting study of SiCo alloys on carbon materials, *J. Euro. Ceram. Soc.* 35(15) (2015) 4099-4106.
34. Delsante S., Borzone G., Novakovic R., Piazza D., Pigozzi G., Janczak-Rusch J., Pilloni M., Ennas G., Synthesis and thermodynamics of Ag-Cu nanoparticles, *Phys. Chem. Chem. Phys.* 17 (2015) 28387-28393.
35. Giuranno D., Amore S., Novakovic R., Ricci E., Surface tension and density of RENE N5 and RENE 90 Ni-based superalloys, *J. Mater. Sci.*, 50 (2015) 3763-3771.
36. Frongia F., Pilloni M., Scano A., Ardu A., Cannas C., Musinu A., Borzone G., Delsante S., Novakovic R., Ennas G., Synthesis and Melting Behaviour of Bi, Sn and Sn-Bi Nanostructured Alloy, *J. Alloys Compds.* 623 (2015) 7-14.
37. Bochicchio D., Ferrando R., Novakovic R., Panizon E., Rossi G., Chemical ordering in magic-size Ag-Pd nanoparticles, *Phys. Chem. Chem. Phys.* 16 (2014) 26478-26484.

38. Novakovic R., Brillo J. Thermodynamics, thermophysical and structural properties of liquid Fe-Cr alloys, *J. of Molecular Liquids* 200 (2014) 153-159.
39. Di Gabriele F., Amore S., Scaiola C., Arato E., Giuranno D., Novakovic R., Ricci E., Corrosion behaviour of 12Cr-ODS steel in molten lead, *Nucl. Eng. Design* 280 (2014) 69-75.
40. Brillo J., Lauletta G., Vaianella L., Arato E., Giuranno D., Novakovic R., Ricci E., Surface tension of liquid Ag-Cu binary alloys, *ISIJ International* 54(9) (2014) 2115-2119.
41. Novakovic R., Giuranno D., Delsante S., Borzone G. Bulk and Surface Properties of Liquid Cr-Nb-Re Alloys, *J. of Phase Equilibria and Diffusion* 35(4) (2014) 445-457.
42. Plevachuk Yu., Sklyarchuk V., Eckert S., Gerbeth G., Novakovic R., Thermophysical properties of the liquid Ga-In-Sn eutectic alloy, *J. Chem. Eng. Data* 59 (2014) 757-763.
43. Ricci E., Amore S., Giuranno D., Novakovic R., Tuissi A., Sobczak N., Nowak R., Korpala B., Bruzda G., Surface tension and density of Si-Ge melts, *J. of Chem. Phys.* 140 (2014) 214704
44. Costa C., Delsante S., Borzone G., Zivkovic D., Novakovic R., Thermodynamic and surface properties of liquid Co-Cr-Ni alloys, *J. of Chem. Thermodynamics* 69 (2014) 73-84.
45. Amore S., Giuranno D., Novakovic R., Ricci E., Nowak R., Sobczak N., Thermodynamic and surface properties of liquid Ge-Si alloys, *Calphad* 44 (2014) 95-101.
46. R. Novakovic, S. Delsante, G. Borzone, TOFA 2012 Spec. Issue Preface, *CALPHAD: Computer Coupling of Phase Diagrams and Thermochemistry* 44 (2014) 1-2.
47. Jin S., Valenza F., Novakovic R., Leinenbach C., Wetting Behavior of Ternary Au-Ge-X (X = Sb, Sn) Alloys on Cu and Ni, *J. of Electron. Materials* 42(6) (2013) 1024-1032.
48. Novakovic R., Lanata T., Delsante S., Borzone G., Interfacial reactions in the Sb-Sn/(Cu, Ni) systems: Wetting experiments, *Materials Chemistry and Physics* 137 (2012) 458-465.
49. Sklyarchuk V., Plevachuk Yu., Novakovic R., Kaban I., Surface properties and wetting characteristics of liquid Ag-Bi-Sn alloys. *Monatshefte fuer Chemie* 143(9) (2012) 1249-1254.
50. Sklyarchuk V., Plevachuk Yu., Kaban I., Novakovic R., Surface properties and wetting behaviour of liquid Ag-Sb-Sn alloys, *J. Min. Metall. Sect. B-Metall.* 48 (3) B (2012) 443-448.
51. Novakovic R., Giuranno D., Ricci E., Tuissi A., Wunderlich R., Fecht H., Egly I., Surface, dynamic and structural properties of liquid Al-Ti alloys, *App. Surf. Sci.* 258(7) (2012) 3269-3275.
52. Leinenbach C., Valenza F., Giuranno D., Elsener H.R., Jin S., Novakovic R., Wetting and Soldering Behavior of Eutectic Au-Ge Alloy on Cu and Ni Substrates, *J. of Electron. Materials* 40(7) (2011) 1533-1541.
53. Novakovic R., Bulk and surface properties of liquid Al-Cr and Cr-Ni alloys, *J. Physics.: Condens. Matter* 23 (2011) 235107 (8pp).
54. Amore S., Brillo J., Egly I., Novakovic R., Surface tension of liquid Cu-Ti binary alloys measured by electromagnetic levitation and thermodynamic modelling, *Appl. Surf. Sci.* 257 (2011) 7739-7745.
55. Plevachuk Yu., Sklyarchuk V., Gerbeth G., Eckert S., Novakovic R., Surface tension and density of liquid Bi-Pb, Bi-Sn and Bi-Pb-Sn eutectic alloys, *Surf. Sci.* 605(11-12) (2011) 1034-1042.
56. Novakovic R., Giuranno D., Ricci E., Delsante S., Li D., Borzone G., Bulk and surface properties of liquid Sb-Sn alloys, *Surf. Sci.* 605 (2011) 248-255.
57. Egly I., Ricci E., Novakovic R., Ozawa S., Surface tension of liquid metals and alloys — Recent developments, *Advances in Colloid and Interface Science* 159 (2010) 198-212.
58. Zivkovic D., Novakovic R., Katayama I., Manasijevic D., Molar volume calculation of Ga-Bi-X (X=Sn, In) liquid alloys using the general solution model, *Int. J. Mater. Res.*, 101 (11) (2010) 1432-1435.
59. Novakovic R., Thermodynamics, surface properties and microscopic functions of liquid Al-Nb and Nb-Ti alloys, *J. of Non-Crystalline Solids* 356 (2010) 1593-1598.
60. Egly I., Holland-Moritz D., Novakovic R., Ricci E., Wunderlich R., Sobczak N., Thermophysical Properties of Liquid AlTi-Based Alloys, *Int. J. Thermophysics* 31 (2010) 949-965.
61. Giuranno D., Tuissi A., Novakovic R., Ricci E., Surface Tension and Density of Al-Ni Alloys., *J. Chem. Eng. Data* 55(9) (2010) 3024-3028.
62. Plevachuk Yu., Hoyer W., Kaban I., Köhler M., Novakovic R., Experimental study of density, surface tension, and contact angle of Sn-Sb-based alloys for high temperature soldering, *J. of Mater. Sci.* 45 (2010) 2051-2056.
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64. Ricci E., Battezzati L., Brooks R., Chapman L., Fecht H. J., Giuranno D., Novakovic R., Seetharaman S., Voss D., Wunderlich R., Thermophysical properties of Cu-based industrial alloys in the liquid phase, *High Temp.-High Press.* 38 (1) (2009) 43-61.
65. Passerone A., Muolo M.L., Valenza F., Novakovic R., Thermodynamics and surface properties of liquid Cu-B alloys, *Surf. Sci.* 603 (2009) 2725-2733.
66. Ricci E., Giuranno D., Grosso I., Lanata T., Amore S., Novakovic R., Arato E. Surface Tension of Molten Cu-Sn Alloys under Different Oxygen Containing Atmospheres, *J. of Chem. Eng. Data* 54 (6) (2009)1660-1665.
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03-03-2023

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