



## CURRICULUM VITAE

**Dr. Ana Kostov, Ph.D.Eng.**

### PERSONAL INFORMATION

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| Name          | <b>Ana Kostov</b>   |
| Address       | <b>ZELENI BULEVAR 35, 19210 BOR, SERBIA</b>   |
| Telephone     | <b>+381 30 454 108</b>  |
| Fax           | <b>+381 30 435 175</b>  |
| E-mail        | <a href="mailto:ana.kostov@irmbor.co.rs">ana.kostov@irmbor.co.rs</a> , <a href="mailto:kostov2004@yahoo.com">kostov2004@yahoo.com</a> |
| Nationality   | Serbian   |
| Date of birth | 22/12/1969  |

### WORK EXPERIENCE

- Dates (from – to) From May 2011 – presently
  - Name and address of employer Mining and Metallurgy Institute Bor, Zeleni bulevar 35, 19210, Bor
  - Type of business or sector Department of Science
    - Occupation or position held Deputy General Director for Science and Staff
  - Main activities and responsibilities Scientific, researching and developing activities, developing of staff
  
- Dates (from – to) From September 2008 – May 2011
  - Name and address of employer Mining and Metallurgy Institute Bor, Zeleni bulevar 35, 19210, Bor
  - Type of business or sector Department of Science
    - Occupation or position held Deputy General Director for Science
  - Main activities and responsibilities Scientific, researching and developing activities
  
- Dates (from – to) October 2008 – September 2010
  - Name and address of employer University of Belgrade, Technical Faculty Bor, VJ 12, 19210 Bor
  - Type of business or sector Department of Industrial Management
    - Occupation or position held Senior Research Associate
  - Main activities and responsibilities
    - Management of knowledge
    - Technology and Innovation
  
- Dates (from – to) November 2002 – September 2008
  - Name and address of employer Copper Institute Bor, Zeleni bulevar 35, 19210, Bor
  - Type of business or sector Management Department
    - Occupation or position held Deputy General Director for Science and Staff

- Main activities and responsibilities
  - Scientific, researching and developing activities
  - Planning, developing of economic subjects, evolution and developing of capable staff as well as young researchers
  - Researching of work organization and production in economic subjects in the home-country and abroad
  - Reintegration of international scientific and technical cooperation with universities and institutes in the home-country and abroad
  - Management jobs in the scope of Management Board of the Mining and Metallurgy Institute Bor
  
- Dates (from – to) May 2000 – November 2002
  - Name and address of employer Copper Institute Bor, Zeleni bulevar 35, 19210 Bor
  - Type of business or sector Metallurgy and Technology Department
    - Occupation or position held Research Associate
  - Main activities and responsibilities
    - Projecting, production and revision of pre-investment and investment programs, feasibility and validity studies
    - Researching of new materials in non-ferrous metallurgy of the heavy and light metals
    - Solving the ecology problems
    - Study and application of recycling technologies
  
- Dates (from – to) 1997 – 2000
  - Name and address of employer Copper Institute Bor, Zeleni bulevar 35, 19210 Bor
  - Type of business or sector Metallurgy Department
    - Occupation or position held Research Assistant
  - Main activities and responsibilities Researching of new materials in non-ferrous metallurgy of the heavy and light metals
  
- Dates (from – to) 1994 – 1997
  - Name and address of employer Copper Institute Bor, Zeleni bulevar 35, 19210 Bor
  - Type of business or sector Metallurgy Department
    - Occupation or position held Young researcher
  - Main activities and responsibilities Projecting of pre-investment and investment programs, feasibility and validity studies, scientific research projects
  
- Dates (from – to) November 1993 – 1994
  - Name and address of employer Copper Institute Bor, Zeleni bulevar 35, 19210 Bor
  - Type of business or sector Metallurgy Department
    - Occupation or position held Research Trainee
  - Main activities and responsibilities Projecting and researching trainee
  
- Dates (from – to) 1993
  - Name and address of employer University of Belgrade, Technical Faculty Bor, VJ 12, 19210 Bor
  - Type of business or sector Department of Extractive Metallurgy
    - Occupation or position held Engineer Trainee
  - Main activities and responsibilities Engineering and researching trainee

## EDUCATION AND TRAINING

- Dates (from – to) 18<sup>th</sup> February 2008
  - Name and type of organization providing education and training University of Belgrade, Council of Technical Scientific Field
  - Principal subjects/occupational skills covered Lecture Professor in the Scientific Field of Chemistry, Chemical Technology and Chemical Engineering
  - Title of qualification awarded Lecture Professor
  - Level in national classification (if appropriate) Docent
  
- Dates (from – to) January 2005 – June 2006
  - Name and type of organization Alexander von Humboldt Stiftung-Foundation

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| providing education and training                                 | zur Durchführung eines wissenschaftlichen Forschungsvorhabens in Deutschland mit IME Metallurgische Prozesstechnik und Metallrecycling Rheinsche-Westfaelische Technische hochschule Aachen |
| • Principal subjects/occupational skills covered                 | - Thermodynamic Stability of Crucible Oxides in Molten Titanium and Titanium Alloys<br>- Thermodynamic Analysis of Titanium – Aluminum Based Alloys by FACT-SAGE Thermo-Chemical Software   |
| • Title of qualification awarded                                 | Post-doctor   |
| • Level in national classification (if appropriate)              | Post-doc  |
| • Dates (from – to)  | 11 <sup>th</sup> May 2005   |
| • Name and type of organization providing education and training | Ministry of Science and Environment Protection, Republic of Serbia  |
| • Principal subjects/occupational skills covered                 | Scientific qualification in the field of technical-technology science   |
| • Title of qualification awarded                                 | Senior Research Associate   |
| • Level in national classification (if appropriate)              |   |
| • Dates (from – to)  | November 2004 – December 2004   |
| • Name and type of organization providing education and training | Goethe Institut Bonn – Bad Godesberg, Deutschland   |
| • Principal subjects/occupational skills covered                 | Intensiv Deutschkurs I4   |
| • Title of qualification awarded                                 | A1  |
| • Level in national classification (if appropriate)              |   |
| • Dates (from – to)  | 29 <sup>th</sup> January 2004   |
| • Name and type of organization providing education and training | Serbian Engineering Chamber   |
| • Principal subjects/occupational skills covered                 | Projecting designer for metallurgical processes   |
| • Title of qualification awarded                                 | Licence for responsible designer of metallurgical processes   |
| • Level in national classification (if appropriate)              |   |
| • Dates (from – to)  | 9 <sup>th</sup> May 2000  |
| • Name and type of organization providing education and training | Ministry of Science and Technology, Republic of Serbia  |
| • Principal subjects/occupational skills covered                 | Scientific qualification in the field of technical-technology science   |
| • Title of qualification awarded                                 | Research Associate  |
| • Level in national classification (if appropriate)              |   |
| • Dates (from – to)  | 30 <sup>th</sup> September 1999   |
| • Name and type of organization providing education and training | University of Belgrade, Technical Faculty Bor   |
| • Principal subjects/occupational skills covered                 | Ph.D. Thesis: "Thermodynamic Analysis of Ga-Ge-Sb Ternary System"   |
| • Title of qualification awarded                                 | Doctor of the Technical Science in the Field of Metallurgy, Ph.D.Eng.Met.   |
| • Level in national classification (if appropriate)              | VIII  |
| • Dates (from – to)  | 17 <sup>th</sup> March 1997   |
| • Name and type of organization providing education and training | Ministry for Civil Engineering, Republic of Serbia  |

- Principal subjects/occupational skills covered
  - Title of qualification awarded
  - Level in national classification (if appropriate)
  
- Dates (from – to)
  - Name and type of organization providing education and training
  - Principal subjects/occupational skills covered
    - Title of qualification awarded
    - Level in national classification (if appropriate)
  
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  - Principal subjects/occupational skills covered
    - Title of qualification awarded
    - Level in national classification (if appropriate)
  
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  - Principal subjects/occupational skills covered
    - Title of qualification awarded
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  - Principal subjects/occupational skills covered
    - Title of qualification awarded
    - Level in national classification (if appropriate)
  
- Dates (from – to)
  - Name and type of organization providing education and training
  - Principal subjects/occupational skills covered
    - Title of qualification awarded
    - Level in national classification (if appropriate)
  
- Dates (from – to)
  - Name and type of organization providing education and training
  - Principal subjects/occupational skills covered
    - Title of qualification awarded

State examination for metallurgical engineering

Projecting in metallurgy

13<sup>th</sup> March 1997

Center for foreign language study Belgrade

English language course, level High II B

Certificate for excellent examination pass

12<sup>th</sup> July 1996

Center for foreign language study Belgrade

English language course, level High II A

Certificate for excellent examination pass

29<sup>th</sup> Jun 1996

University of Belgrade, Technical Faculty Bor

M.Sc. Thesis: "Comparative DTA and TD Analysis of Copper-Based Shape Memory Alloys"

Magistar of the Technical Science

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12<sup>th</sup> March 1996

Center for foreign language study Belgrade

English language course, level High I

Certificate for excellent examination pass

5<sup>th</sup> July 1995

Center for foreign language study Belgrade

English language course, level Middle II

Certificate for excellent examination pass

October 1994

University of Belgrade, Technical Faculty Bor

Innovation Seminar in the field "Metal processing metallurgy"

Certificate for excellent examination pass

- Level in national classification (if appropriate)

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

Jun 1994

University of Belgrade, Technical Faculty Bor

Innovation Seminar in the field "Theoretical basis non-ferrous alloys production"

Certificate for excellent examination pass

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

18<sup>th</sup> August 1993

University of Belgrade, Technical Faculty Bor

B.Sc. Thesis: "Thermodynamic Analysis of quasi-binary section B-Pb in Pb-Zn-Ag Ternary System"

Bachelor of the Technical Science, Dipl.-Ing.

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**PERSONAL SKILLS AND COMPETENCES**

*Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.*

**MOTHER TONGUE**

SERBIAN

**OTHER LANGUAGES**

- Reading skills English Excellent
- Writing skills Excellent
- Verbal skills Excellent

- Reading skills German Excellent
- Writing skills Good
- Verbal skills Good

**SOCIAL SKILLS AND COMPETENCES**

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

- Member of Registration Scientific Committee for Materials and Chemical Technologies of the Ministry of Education and Science of the Republic Serbia
- Member of Engineering Chamber of Serbia
- Member of Serbian Chemical Society
- Member of Serbian Association of Metallurgical Engineers
- Member of Serbian Committee for Thermodynamics and Phase Diagrams
- Member of Scientific Committee of Copper Institute Bor
- Member of Scientific Committee of Mining and Metallurgy Institute Bor
- Member of Ecology Committee of Copper Mining and Smelting Complex Bor 2003-2005
- Secretary of Serbian Chemical Society Branch Office in Bor between 2000-2002
- President of the Serbian Chemical Society Branch Office in Bor between 2012-up to now
- Member of Organizing Committee, 5th Yugoslav Symposium of Metallurgical Engineers, 2001, Novi Sad
- Member of Scientific Committee, 40<sup>th</sup>, 41<sup>st</sup>, 42<sup>nd</sup>, 43<sup>rd</sup>, 45<sup>th</sup> and 46<sup>th</sup> International October Conference of Mining and Metallurgy 2008,2009,2010,2011,2013,2014, Serbia
- Vice President of Organizing Committee of 44<sup>th</sup> International October Conference of Mining and metallurgy 2012, Bor, Serbia
- President of Organizing Committee of 47<sup>th</sup> International October Conference of Mining and metallurgy 2015, Bor, Serbia

- Member of Organizing Committee, 5th Yugoslav Symposium of Metallurgical Engineers, 2001, Novi Sad
- Member of Scientific Committee, Symposium of Deformation and Structure of Metals and Alloys with international contribution, 2002, Belgrade
- Member of Organizing Committee, 6th Yugoslav Symposium of Metallurgical Engineers, 2003, Arandjelovac
- Member of Presidency of the 10th Balkan Conference of Metallurgy, 2007, Bulgaria
- Member of the Scientific Committee 40th International October Conference on Mining and Metallurgy, 5th-8th October 2008, Sokobanja, Serbia
- Member of the Scientific Committee 41st International October Conference on Mining and Metallurgy, 4th-6th October 2009, Kladovo, Serbia
- Vice president of the Organizing Committee 41st International October Conference on Mining and Metallurgy, 4th-6th October 2009, Kladovo, Serbia
- Member of Editorial Board of national journal „Copper“
- Co-editor of Editorial Board of national journal „Copper“ until 2014
- Member of Editorial Board of national journal „Military Gazette“
- Member of Editorial Board of international journal „Mining and Metallurgy Engineering Bor“
- Member of Scientific Councils of the Technical faculty Bor for writing, evaluation and defense of Ph.D. Thesis
- Referee in International journals at ISI SCI list: „Journal of Alloys and Compounds“, „Physica B: Condensed Matter“, „Materials Chemistry and Physics“, „Environmental Engineering Science“, „Journal of Materials Science“, „Chemical Engineering Journal“ and „Journal of Hazardous Materials“ as well as in National journals: „Copper“ and „Innovation and Developing“
- Evaluator within CIMAT for Pre-Proposals and Full-Proposals
- Corresponding Member of the Engineering Academy of Serbia from 16.12.2011
- Member of the Scientific Committee for Materials and Chemical Technology of the Ministry of Education, Science and Technological Development of Republic of Serbia, 2010-2015.

#### ORGANIZATIONAL SKILLS AND COMPETENCES

*Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.*

- President of Management Board of Regional Centre for Talents in Bor, from 2008
- Member of Management Board of Mining and Metallurgy Institute Bor from 2007
- Member of the Main Board of Serbian Union of Metallurgical Engineers from 2004
- Copper Plant Project CPP4000, Detail Project Report (DPR) DPR2 – Lab & Pilot Plant Tests, Copper Institute Bor, Jun, 1999. (sub-coordinator for theoretical and laboratory part)
- EU project within FP6 programme: INCO-CT-2003-509167, Proposal no. PL 509167 from 2004 to 2006, Project title: Integrated Treatment of Industrial Wastes Towards Prevention of Regional Water Resources Contamination, Project acronym: INTREAT, Project Coordinator: Dr Dimitris Panias, Project Coordinator from Copper Institute Bor: Dr Ana Kostov
- COST network MP0602: Advanced Solder Materials for High Temperature Application, from 16/05/2007 to 31/12/2007
- Ministry of Science and Technology, Republic Serbia, Project title: Substitution of classical components in standard electro-devices by modules based on shape memory materials, Project No. S.3.13.32.0099 from 1998 to 2000, project leader
- Ministry of Science and Technology Development, Republic Serbia, Project title: Developing of technology and products of ecological solders, project No. 19011 from 01/04/2008 to 30/03/2010, project leader
- Ministry of Education, Science and Technology Development, Republic Serbia, Project title: Development of ecological knowledge-based advanced materials and technologies for multifunctional application, project No. 34005 from 2011 to 2015, project leader
- The Romania - Republic of Serbia IPA Cross-Border Cooperation Programme, Project MIS ETC Code 1409, title „Promoting new ecologic filler alloys for soldering, based on the non-ferrous ore of the Romanian-Serbian cross-border area - ECOSOLDER“, 2013-2014, joint scientific advisor on the project and project coordinator from the Mining and Metallurgy Institute Bor

#### TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of equipment, machinery, etc.*

Internet, Microsoft Office, Excel, Origin, PowerPoint, FactSage thermo-chemical software

#### ARTISTIC SKILLS AND COMPETENCES

*Music, writing, design, etc.*

Playing a piano, needlework

OTHER SKILLS  
AND COMPETENCES  
*Competences not mentioned above.*

Literature, gardening, accessory of scientific, technical and technological accomplishments in the home-country and abroad

DRIVING LICENCE(S)

Yes ("B" category)

## ADDITIONAL INFORMATION

She has:

- 5 published monographs of which 2 are an international,
- 47 papers published in leading international journals (ISI SCI list),
- 37 papers published in national journals,
- 101 papers presented in international symposiums and conferences,
- 102 papers presented in national symposiums and conferences,
- 2 invitation lectures,
- 1 review of a monograph book,
- 1 plenary lecture,
- 6 international projects,
- 8 scientific projects in fields of materials science and metallurgy, of which 3 as a project leader,
- 13 research projects in the fields metal processing, metal and alloys production, materials science and technology, of which 6 as a project leader,
- 11 technical-developing solutions of which the most important are: New technology process for production an metal treatment of shape memory alloys CuZnAl and CuZnAlZr; New shape memory copper-based alloys for substitution of a classical components into standard electro-devices; Standard thermo-mechanical product with new material; Ecological lead-free solders types: Ag<sub>3</sub>-15In<sub>7</sub>-35Sn<sub>90</sub>-50, Ag<sub>3</sub>-6In<sub>10</sub>,5-21Cu<sub>1</sub>,5-3Sn<sub>85</sub>-70, Au<sub>17</sub>.5In<sub>17</sub>.5Sb<sub>65</sub> and Cu<sub>5</sub>-11In<sub>45</sub>-9Sn<sub>50</sub>-90
- over 70 citations in the international papers and national monographs

### The most important publications:

#### 1. International Monographs

1. **A.Kostov**, Scale-up of Pyrometallurgical Copper Production, in Monograph: „Scale-up in Metallurgy“; Publisher: Verlag ProcessEng Engineering GmbH, Vienna, Austria, Editor: Maximilian Lackner, Third Chapter, 2010, pp. 121-138, ISBN: 978-3-902655-10-3.
2. A.Milosavljević, **A.Kostov**, Ecological lead-free solders Sn-In-X (X=Ag,Cu), Monograph, Grafomed trade, Bor, 2014, 100 pages, Editor: IPA Cross-Border Cooperation and Mining and Metallurgy Institute Bor, printed in Grafomed trade Bor, 2014, ISBN: 978-876-7827-045-1.

#### 2. National Monographs

1. M.Arsenovic, **A.Kostov**, Continuous Casting of Small Cross-Section Profiles, IP Nauka, Beograd, 2001, total 203 pages (in Serbian)
2. **A.Kostov**, M.Arsenovic, Special Graphite, IP Nauka, Beograd, 2002, total 98 pages (in Serbian)
3. **A.Kostov**, D.Živkovic, Chemical Thermodynamic and characterization of alloys on Ga-Ge-Sb system, Gragomedtrade, Bor, 2008, total 147 pages (in Serbian)

#### 3. Articles in International Journals

1. **A.Kostov**, Ž.Živković, Thermo-dilatometry investigation of the martensitic transformation in copper-based shape memory alloys, *Thermochimica Acta*, 291 (1997) 51-57.
2. **A.Kostov**, D.Živković, Ž.Živković, Thermodynamic analysis of binary systems Ge-Ga and Ge-Sb, *Thermochimica Acta*, 338 (1999) 35-43.
3. **A.Kostov**, D.Živković, Ž.Živković, Comparative thermodynamic analysis of Ga-GeSb<sub>0.855</sub> section in the ternary system Ga-Ge-Sb, *Journal of Thermal Analysis and Calorimetry*, Vol. 60 (2000) 473-487.
4. V.Asanović, B.Perović, Z.Marković, I.Vušanović, **A.Kostov**, The influence of heat treatment on shape memory effect, *Materials Science Forum*, Vol. 352, (2000), pp. 165-171.
5. **A.Kostov**, D.Živković, Ž.Živković, Thermodynamic analysis and characterization of Ga-GeSb<sub>0.855</sub> section in Ga-Ge-Sb ternary system, *Journal of Thermal Analysis and Calorimetry*, Vol. 65 (2001) 955-964.
6. D.Živković, I.Katayama, **A.Kostov**, Ž.Živković, Comparative thermodynamic study of GaSb-Sn system, *Journal of Thermal Analysis and Calorimetry*, Vol.71 (2003) 567-582.
7. D.Živković, **A.Kostov**, Ž.Živković, L.Stuparević, Thermodynamics and characterization of alloys in Sb-PbBi<sub>eut</sub> section in ternary Pb-Bi-Sb system, *Thermochimica Acta*, Vol. 399, 1-2 (2003) 73-80.
8. **A.Kostov**, D.Živković, Ž.Živković, Thermodynamics and characterization of alloys in Ga-Ge-Sb, *Archives of Metallurgy and Materials*, Vol.49, 3 (2004) 493-503.
9. **A.Kostov**, B.Friedrich, D.Živković, Predicting thermodynamic properties in Ti-Al binary system by FactSage, *Computational Materials Science*, Vol.37, 3 (2006) 355-360.



10. **A.Kostov**, B.Friedrich, Predicting thermodynamic stability of crucible oxides in molten titanium and titanium alloys, *Computational Materials Science*, Vol.38, 2 (2006) 374-385.
11. D.Živković, **A.Kostov**, I.Katayama, D.Manasijević, N.Štrbac, Calculation of thermodynamics properties in the Al-Co-Me (Me=Ti,Mo) systems, in the liquid phase, *Materials at High Temperatures*, 24 (1) 2007, pp. 37-42.
12. **A.Kostov**, D.Živković, B.Friedrich, Thermodynamic predicting of Si-Me (Me=Ti, Al) binary systems, *Journal of Mining and Metallurgy*, 43B (2007) 29-38.
13. **A.Kostov**, B.Friedrich, D.Živković, Thermodynamic calculations in alloys Ti-Al, Ti-Fe, Al-Fe and Ti-Al-Fe, *Journal of Mining and Metallurgy*, 44B (2008) 49-61.
14. **A.Kostov**, D.Živković, Thermodynamic analysis of alloys Ti-Al, Ti-V, Al-V and Ti-Al-V, *Journal of Alloys and Compounds*, J. Alloys Compd. 460 (2008) 164-171.
15. **A.Kostov**, D.Živković, Thermodynamic calculations in ternary titanium-aluminium-manganese system, *Journal of the Serbian Chemical Society, J. Serb. Chem. Soc.*, 73 (4) 499-506 (2008).
16. M.Dimitrijević, **A.Kostov**, V.Tasić, N.Milošević, Influence of pyrometallurgical copper production on the environment, *Journal of Hazardous Materials*, 164 (2009) 892-899.
17. D.Živković, D.Minic, D.Manasijević, **A.Kostov**, N.Talijan, Lj.Balanović, A.Mitovski, Z.Živković, Thermodynamic analysis and characterization of alloys in Bi-Cu-Sb system, *Journal of Mining and Metallurgy, Section B: Metallurgy*, 46 (1) B (2010) 105-111.
18. **A.Kostov**, D.Živković, Thermodynamic properties calculation in Ni-Cr-Co liquid alloys using FactSage, *International Journal of Computer Aided Engineering and technology (IJCAET)*, Int. J. Computer Aided Engineering and Technology, Vol. 3, No. 1, 2011, pp.34-52.
19. D.Živković, Lj.Balanović, D.Manasijević, A.Mitovski, **A.Kostov**, L.Gomidželović, Ž.Živković, Calculation of Thermodynamic Properties in Quarternary Ni-Cr-Co-Al System, *Journal of the University of Chemical Technology and Metallurgy*, Vol. 46, 1 (2011) 95-98.
20. L.Gomidželović, D.Živković, **A.Kostov**, A.Mitovski, Lj.Balanović, Comparative thermodynamic study of Ga-In-Sb system, *Journal of Thermal Analysis and Calorimetry*, Vol. 103, 3 (2011) 1105-1109.
21. D.Živković, D.Minić, D.Manasijević, N.Talijan, I.Katayama, **A.Kostov**, Thermodynamic analysis and characterization of Bi-Cu-Sn alloys as advanced lead-free solder materials for high temperature application, *Journal of Materials Science: Materials in Electronics*, manuscript #JMSE1922R2; DOI 10.1007/s10854-010-0272-y, 2011.
22. D.Živković, D.Manasijević, Lj.Balanović, D.Minić, V.Čosović, **A.Kostov**, Ž.Živković, Phase Relations in Bi - Rich Part of the Bi-Ga-Ni System, *Journal of Mining and Metallurgy Section B-Metallurgy* 2012 48 (3):375-381.
23. D.Živković, Y.Du, N.Talijan, **A.Kostov**, Lj.Balanović, Calculation of thermodynamic properties in liquid phase for ternary Al-Ni-Zn alloys, *Transactions of Nonferrous Metals Society of China*, 2012, 22 (12): 3059-3065. ISSN: 1003-6326, Nonferrous Metals Society of China.
24. D.Živković, E.Begović, **A.Kostov**, S.Ekinović, Advanced Trends in Design of Lead-free Alternative for Traditional Free Machining Brasses, *Journal of Environmental Protection and Ecology*, Vol. 13, No 3A, 2012, pp. 1914-1920.
25. A.Milosavljević, D.Živković, D.Manasijević, Y.Du, N.Talijan, M.Bu, **A.Kostov**, Phase diagram investigation of the Sn-In<sub>x</sub>Ag<sub>y</sub>Cu<sub>z</sub> (x:y:z=7:2:1) section in the Ag-In-Sn-Cu system, *International Journal of Materials Research*, Vol. 104, 5 (2013) 452-456. DOI: 10.3139/146.110887, <http://www.ijmr.de/MK110887>.
26. D.Minić, M.Premović, V.Čosović, D.Manasijević, D.Živković, **A.Kostov**, N.Talijan, Experimental investigation and thermodynamic calculations of the Al-Cu-Sb phase diagram, *Journal of Alloys and Compounds*, 555 (2013) 347-356, (IF(2011)=2,289) M21, *Materials Science, Multidisciplinary* (50/232), ISSN 0925-8388, DOI: 10.1016/j.jallcom.2012.12.059
27. L.Gomidželović, I.Mihajlović, **A.Kostov**, D.Živković, Cu-Al-Zn system: Calculation of thermodynamic properties in liquid phase, *Hemijaska Industrija*, doi:10.2298/HEMIND120306041G, <http://www.doiserbia.nb.rs/issue.aspx?issueid=1336>; *Hem.ind.*, Vol. 67, 1 (2013) 157-164.
28. D.Živković, T.Holjevac Grgurić, M.Gojić, D.Ćubela, Z.Stanojević Šimišić, **A.Kostov**, S.Kožuh, Calculation of thermodynamic properties of Cu-Al-(Ag, Au) shape memory alloy systems, *Transactions of the Indian Institute of Metals*, Ms. No. TIIM-D-12-00249R1, 2013. DOI 10.1007/s12666-013-0328-9, Edition: Springer.
29. D.Živković, D.Manasijević, D.Minić, Lj.Balanović, M.Premović, **A.Kostov**, A.Mitovski, Thermodynamic calculations and experimental investigation of the Ag-Zn system, *Journal of Chemical Technology and Metallurgy*, 48, 4, 2013, 413-418.
30. Zdenka Stanojević Šimišić, Dragana Živković, Dragan Manasijević, Tamara Holjevac Grgurić, Yong Du, Mirko Gojić, Stjepan Kožuh, **Ana Kostov**, Radiša Todorović, Thermal analysis and microstructural investigation of Cu-rich alloys in the Cu-Al-Ag system, *Journal*

- of Alloys and Compounds, 612 (2014) 486-492, ISSN 0925-8388, doi: dx.doi.org/10.1016/j.jallcom.2014.05.070
31. Lidija Gomidželović, Emina Požega, **Ana Kostov**, Nikola Vuković, Investigation of the structural, mechanical and electrical properties of Cu-Al-Zn shape memory alloys, *Materials Testing*, Vol. 56, 6 (2014) 486-489.
  32. Lidija Gomidželović, Hesam Pouriakbar, Gholamreza Khalaj, **Ana Kostov**, Thermodynamic analysis of ternary Al-Cu-Ni system, *Journal of Chemical Technology and Metallurgy*, Vol. 49, 4 (402-408) 2014.
  33. **Ana Kostov**, Aleksandra Milosavljević, Radiša Todorović, Lidija Gomidželović, Lead-free alloys for ecological solders manufacturing, *Mining and Metallurgy Engineering Bor*, 2 (2014) 117-122., ISSN 2334-8836, UDC 622.
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