

## Биографија

### ПРОФ. ДР ВЕЛИМИР Р. РАДМИЛОВИЋ, НАУЧНИ САВЕТНИК

Дописни члан Српске академије наука и уметности и научни саветник  
Технолошко-металуршког факултета Универзитета у Београду



Проф. др Велимир Радмиловић започео је академски ангажман као асистент-приправник на Металуршком факултету Универзитета Црне Горе 1975. године, где је припремио и изводио вежбе на предметима Металографија, Физичка металургија и Термичка обрада метала и легура. По одслужењу војног рока, у септембру 1978. прелази на Технолошко-металуршки факултет Универзитета у Београду, где је на Катедри за физичку металургију магистрирао 1980. године, а докторирао 1985. На Калифорнија универзитету у Берклију провео је годину дана као пост-докторанд 1986. године. Наредне године,

Калифорнија универзитет у Берклију га је позвао да држи наставу као гостујући професор на предмету Трансмисиона електронска микроскопија и микроанализа. По повратку из Сједињених Америчких Држава 1987. године изабран је за доцента на Катедри за физичку металургију Технолошко-металуршког факултета Универзитета у Београду, на којем је касније изабран за ванредног професора 1989. а за редовног професора 1995. године. Као гостујући професор, 1992. године боравио је на Департману за материјале Питсбург универзитета у Пенсилванији, САД. Од 1999. до 2010. боравио је као водећи истраживач у Лоренс Беркли националној лабораторији у Берклију (LBNL). У току рада у LBNL-у као члан тима учествовао је у развоју и имплементацији нове генерације трансмисионих електронских микроскопа са потпуно коригованим аберацијама (TEAM пројекат). На Универзитету у Београду наставио је рад 2010. године у својству научног саветника.

Највећи део истраживања професора Радмиловића везан је за фазне прелазе и граничне површине, али се бавио и бројним другим темама, као што су: корелација структура-особине у инжењерским материјалима, примена високорезолуционе електронске микроскопије и спектроскопије, у тандему са моделовањем и симулацијом, у изучавању наноматеријала као што су: наножице, танки филмови за микро- и нано-електромеханичке системе (MEMS и NEMS), графинске структуре, угљеничне наноцијеви, термоелектрици, катализатори, комплексне наноструктуре типа језгро-омотач, соларне ћелије итд.

Професор Радмиловић у својој библиографији има 760 јединица, од чега: 223 рада у међународним часописима са рецензијом; 19 радова у домаћим часописима са рецензијом; 270 радова штампаних у просидинзима или саопштених на међународним конференцијама од којих је 68 пленарних и предавања по позиву; 11 постер презентација; 62 рада штампана у просидинзима или саопштена на домаћим конференцијама; 20 развојних пројеката којима је руководио или учествовао у њиховој реализацији; 21 пројекат директне сарадње са привредом; 119 предавања по позиву у форми колоквијума и департамантских семинара на најзначајнијим универзитетима и истраживачким лабораторијама у свијету; 5 скрипти и поглавља у књигама; 10 патената и патентних пријава.

Према *Google Scholar* бази података, цитираност његових радова је 8956 пута, са *X* индексом 44; према *Scopus* бази података цитираност му је 7360 пута са *X* индексом 40 (6502 пута са *H* индексом 38, без самоцитата свих коаутора); према бази *Web of Science* цитираност му је 6710 пута са *H* индексом 40 (6515 са *X* индексом 40, без самоцитата свих коаутора).

Аутор је 12 радова цитираних између 100 и 1000 пута. Публиковао је бројне радове у водећим светским часописима из области науке и инжењерства материјала, физичке металургије, физике и хемије материјала, као што су: *Acta Materialia* (9 радова), *Scripta Materialia* (9 радова), *Nature* група часописа (3 рада), *Applied Physics Letters* (12 радова), *Nano Letters* (5 радова), *ACS Nano* (2 рада), *Nanotechnology* (5 радова) и други, што га сврстава у неколико процената најуспешнијих истраживача у овим научним дисциплинама.

За свој рад добио је низ признања међу којима су: Награда Друштва за материјале Србије, за дуготрајан и изузетан допринос науци и инжењерству материјала 2017. године, почасно чланство у Академији инжењерских наука Србије 2016. године, Награда Европског друштва за електронску микроскопију за предавача године 2013. године, чланство у Српској академији наука и уметности 2012. године, Награда Града Београда за природне и техничке науке 2012. године, Награда Европског друштва за електронску микроскопију за најбољи рад објављен у часопису *Nature materials* 2011. године, Награда Европског друштва за електронску микроскопију за најбољу микрофотографију наножица силицијума 2011. године, Награда Лоренс Беркли националне лабораторије за изузетне истраживачке резултате 2010. године, инострани члан у Академији инжењерских наука Србије 2009. године, Награда Министарства за науку Републике Србије за најуспешније истраживаче 2002. године, Диплома Српског хемијског друштва 1997. године и Фулбрајтова путна стипендија 1986. године.

Професор Радмиловић је служио и дао значајан допринос у разним научним и академским институцијама. Био је шеф Катедре за физичку металургију Технолошко-металуршког факултета, члан Савета Факултета, члан Републичке комисије Владе Србије за оцену пројеката из области материјала и председник Савета Института за испитивање материјала Србије. Организовао је и председавао великим бројем међународних конференција и научних радионица. Рецензира радове за најугледније часописе из области материјала, технологије и металургије и микроскопије у свету, као што су: *Science*, *Scientific Reports*, *Surface Science*, *Nano Letters*, *Crystal Growth and Design*, *Micron*, *Langmuir*, *Journal of Microscopy*, *Ultramicroscopy*, *Acta Materialia*, *Scripta Materialia*, *Metallurgical and Materials Transaction*, *Philosophical Magazine*, *Physical Review D*, *Materials Science and Engineering*, *Nanotechnology*, *Diamond and Related Materials*, *Journal of Materials Science*, *Materials Chemistry*, *Materials Chemistry and Physics*, *Materials Characterization*, *International journal of metals*, *Journal of Serbian Chemical Society*, *Journal of Metallurgy and Engineering* и други.

## CURRICULUM VITAE

### **Professor dr Velimir R. Radmilović, Scientific advisor**

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Functional Materials Lab., 11120 Belgrade, Serbia  
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Visiting scientist at:

Molecular Foundry, National Center for Electron Microscopy, Lawrence Berkeley  
National Laboratory, University of California, Berkeley, CA, 94720, USA  
Tel. +1-510-486-6036  
**VRRadmilovic@lbl.gov**

### **Education**

1985 Ph.D. Degree in Physical Metallurgy, University of Belgrade, Serbia

### **Experience**

2011-2015 *Scientific Advisor*, Nanotechnology and Functional Materials Center,  
Faculty of Technology and Metallurgy, University of Belgrade, Belgrade  
2004-2011 *Principal Investigator*, National Center for Electron Microscopy, Lawrence  
Berkeley National Laboratory, University of California, Berkeley  
2001-2011 *Staff Scientist*, National Center for Electron Microscopy, Lawrence Berkeley  
National Laboratory, University of California, Berkeley  
2000-2001 *Full Professor*, University of Belgrade, Department of Metallurgical  
Engineering  
1998-2000 *Staff Scientist*, National Center for Electron Microscopy, Lawrence Berkeley  
National Laboratory, University of California, Berkeley  
1995-1998 *Full Professor and Department Head*, University of Belgrade, Department  
of Physical Metallurgy  
1993-1994 *Staff Scientist*, National Center for Electron Microscopy, Lawrence Berkeley  
Laboratory, University of California, Berkeley  
1992 *Visiting Research Professor*, University of Pittsburgh, Department of  
Materials Science and Engineering  
1991-1993 *Associate Professor*, University of Belgrade, Department of Physical  
Metallurgy  
1987 *Visiting Assistant Professor*, University of California, Berkeley, Department  
of Materials Science and Mineral Engineering  
1986 *Post-doctoral fellow*, University of California, Berkeley, Department of  
Materials Science and Mineral Engineering  
1985-1990 *Assistant Professor*, University of Belgrade, Department of Physical  
Metallurgy

### **Honors and Awards**

- MRS-Serbia Award for a Lasting and Outstanding Contribution to Materials Science and Engineering, 2017.

- MRS-Serbia Award for a Lasting and Outstanding Contribution to Materials Science and Engineering, 2017.
- Academy of Engineering Sciences of Serbia, 2016, Honorary member.
- European Microscopy Society Lecturer of the year, 2013.
- Serbian Academy of Sciences and Arts, 2012, Corresponding member.
- The Belgrade City Award for Natural and Technical Sciences, 2012.
- The 2011 EMS Outstanding Paper Award, granted by European Microscopy Society (EMS) for the best paper in the category "Materials Science" in 2011, entitled "Highly monodisperse core-shell particles created by solid-state reactions" published in *Nature Materials*.
- The 2011 EMS Prize for the best Microphotograph in Physical Sciences.
- Outstanding Performance Award, Materials Science Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, 2010.
- Academy of Engineering Sciences of Serbia, 2009, Foreign member.
- The most successful scientist award from the Ministry of Science and Education of Government of Serbia, 2002.
- Serbian Chemical Society (SCS) diploma award as a recognition for the contribution to development of SCS, 1997.
- Fellowship, Summer School "Quantitative Microbeam Analysis", University of Dundee, 1992.
- Several Best Poster Awards.
- Fulbright Scholar Award, Fulbright Travel Fellowship, 1986/87.
- University of California, Berkeley, Postdoctoral Fellowship, 1986.
- Fellowship, Summer School for "Quantitative Electron Microscopy", University of Glasgow, Scotland, 1983.
- Steel Mill Nikšić (Montenegro) Scholarship, 1968/69, 1969/70, 1970/71, and 1971/72, (granted to students with high scholastic record).

### **Grants**

- Research Grant from Serbian Academy of Sciences and Arts, Project # F-141, 2013-2017.
- Research Grant, Department of Energy, Lawrence Berkeley National Laboratory, University of California, Berkeley, and Department of Energy, US Government, 1999-2011.
- Ministry of Science and Technology, Serbian Government, Research Grant, 2001-2003
- University of Belgrade, Several Research Grants obtained from 1985 to 1999.
- University of Pittsburgh, Research Grant, 1992.
- Allied Signal Company Research Grants, 1988, 1989, 1990, 1991, 1993.

### **Professional Societies**

- European Microscopy Society
- Serbian Microscopy Society (SMS), member; Vice President and Executive Board Member (1995-2005), Belgrade, Serbia
- European Materials Research Society (E-MRS), Member
- Microscopy Society of America (MSA), Member, United States
- Serbian Materials Research Society (S-MRS), Vice President and Executive Board Member (2000-Present), Belgrade, Serbia

- TMS, Member, United States
- ASM International, Member, United States
- Materials Research Society (MRS) Member, United States
- Serbian Chemical Society, member; President of Metallurgical Section (1992-1997), Belgrade, Serbia
- Society of Engineers of Serbia (DIT), Member, Belgrade, Serbia

### **Professional Memberships and Services**

**Reviewer for:** Science, Micron, Journal of Microscopy, Ultramicroscopy, Acta Materialia, Scripta Materialia, Metallurgical and Materials Transaction, Philosophical Magazine, Materials Science and Engineering, Nanotechnology, Diamond and Related Materials, Journal of Materials Science, Materials Characterization, International journal of metals, Journal of Serbian Chemical Society, Journal of Metallurgy and Engineering, etc.; Reviewer for National Science Foundation, USA, Department of Energy SBIR-STTR Grant Applications, USA; Member of the Oak Ridge National Laboratory SHaRE external proposal review committee; **Organization** and teaching of several courses and workshops on transmission electron microscopy at the National Center for Electron Microscopy at LBNL, Berkeley. **Editorial board member** for the following journals: *International journal of metals*, *Journal of the Serbian chemical society*, *Metallurgy and materials engineering*, *Technique - New Materials*.

### **Scientific Boards, Advisory Committees, Organizing Committees and presiding symposia at international conferences and workshops:**

- International Workshop on Electron Microscopy with High Temporal Resolution, Strasbourg, France, May 29-31, 2017; Advisory committee member.
- International Workshop on Materials, BKS2016, May 22-25, 2016; Bernkastel, Germany; Session chair.
- International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices (IAMNano 2016), November 7 – 9, 2016, Boardwalk, Convention Centre, Port Elizabeth, South Africa; Session chair.
- International October Conference, IOC2016, September 28 – October 1, 2016, Bor, Serbia; Scientific board member.
- From Solid State to Biophysics, From Basic to Life Sciences VIII, Dubrovnik2016, June 4 to 11, 2016, Cavtat; Plenary session chair and International advisory committee member.
- The 19th Symposium on Condensed Matter Physics, Belgrade, Serbia, 7-11 September 2015; Program committee member.
- EM2014, International Electron Microscopy Conference, Plenary session chair, Krakow, Poland; September 15-18, 2014.
- 2nd Dresden Nanoanalysis Symposium, July 1 - 3, 2014, Internationales Congress Center Dresden (ICC), Ostra-Ufer 2 01067 Dresden; organized by Fraunhofer IWS and Dresden Center for Nanoanalysis (DCN); Scientific Committee Member.
- International October Conference, IOC2013; 16-19 October 2013, Hotel “Jezero”, Bor Lake, Bor, Serbia; Scientific Board Member.
- Multinational Microscopy Conference, MC2013; August 25-30, 2013, Regensburg, Germany; Plenary session chair,
- Advanced Materials and Nanoanalysis, June 25-26, 2012, Krakow, Poland; Plenary session chair,

- Electron microscopy workshop, April 19-20, 2011, University of Belgrade; Organizer and Plenary session chair,
- MS&T'11, Materials Science & Technology 2011 Conference, Columbus, Ohio, 2011.
- IMRC 2011, Cancun, Mexico, 2011; Plenary session chair,
- Solid State Phase Transformations Conference, Avignon, 2010; Plenary session chair,
- Molecular Foundry-National Center for Electron Microscopy, Joint Workshop, 2010; Organizer and Session Chair,
- YUCOMAT, Annual International Materials Research Conferences, 1996-2016; Vice president and plenary session chair,
- EM'08, International Microscopy Conference, Zakopane, Poland, 2008; Session Chair.
- European Congress on Electron Microscopy, Antwerp, 2004; Session Chair.
- Gareth Thomas Symposium at ICEM-15, South Africa, 2002; Session Chair.
- New Orleans, M&M 1994; ; Session Chair.
- International Congress on Metallurgy, Vrnjacka Banja, Serbia, Organizing committee member, 1987.
- International Congress on Metallurgy, Belgrade, Serbia, Organizing committee member, 1984.

### **Research Interests**

Fundamental aspects of structural phase transformations in solids and solid-solid interfaces. Structure-property relationship in solids. Deformation behavior and fracture mechanisms in solids. Electron microscopy investigation of the structure and distribution of defects such as inclusions, grain boundaries, and dislocations. Characterization of the atomic structure of interfaces by conventional and high-resolution electron microscopy in tandem with computer image simulation. Structure-property relationship in thin films. Nanotubes and Nanowires. Catalysts. Graphene and carbon nanotube based nanocomposites and devices. Solar cells.

### **Current Research Activity**

- Solid-state phase transformations and interfaces
- Core/Shell nanostructures (free standing and embedded in solids)
- Alloy design for automotive and aero-space application
- Metallic thin films for MEMS and NEMS applications
- Nonmetallic thin films and nanowires for MEMS and NEMS applications
- Pt-based nanoparticles – electro catalysts
- Graphene research
- Nanocomposites with polymer and ceramic matrices
- APS (Active Pixel Sensor) detectors for electron microscopy
- Mechanical behavior of structural materials
- Grain boundaries structure and mobility in gold bicrystals
- Thermoelectrics
- Solar cells

### **Teaching Experience**

Graduate and undergraduate courses: Physical Metallurgy, Physics of Strength and Plasticity, Phase Transformations, Crystallography and Crystal Defects, X-Ray

Diffraction, Electron Diffraction, Electron Microscopy, Mechanical Metallurgy, Heat Treatment.

### **Bibliography**

760 bibliographic units:

- 223 papers in international peer review journals
- 19 papers in national journals
- 270 papers in conference proceedings and books of abstracts of international meetings (58 plenary or/and invited talks)
- 11 poster presentations at international meetings
- 63 in conference proceedings and books of abstracts of national meetings
- 20 industrial projects
- 21 industrial consulting engagements
- 119 invited lectures, department seminars, and colloquiums at universities, industry and research labs worldwide.
- 5 lecture notes, chapters in books, and invited papers
- 1 patent and 5 patent applications

### **Citations and h-index:**

*Google scholar*: **8956**/ *h-index***44**; *i10-index***118**.

*Scopus*: **7360**/ *h-index***40**; without self-citations:**6502**/*h-index***38**.

*Web of Science*: **6710**/ *h-index***40**; without self-citations:**6515**/*h-index***40**.

## Velimir R. Radmilović – Publications

### A. Paper published or submitted for publishing in peer review international journals

#### 2017

1. V.V. Radmilović, M. Göbelt, C. Ophus, S. Christiansen, E. Spiecker, **V.R. Radmilović**, “Low Temperature Solid-State Wetting and Formation of Welds in Silver Nanowires”, *Nanotechnology*, 28 (2017) 385701. Online ISSN: 1361-6528; Print ISSN: 0957-4484. DOI: 10.1088/1361-6528/aa7eb8.
2. Nevenka R. Elezovic, P. Zabinski, P. Ercius, M. Wytrwal, Velimir R. Radmilovic, Uros C. Lacnjevac, Nedeljko V. Krstajic, “High surface area Pd nanocatalyst on core-shell tungsten based support as a beneficial catalyst for low temperature fuel cells application”, *Electrochimica Acta*, 247 (2017) 674-684.
3. V.V. Radmilović, C. Carraro, P.S. Uskoković, and V.R. Radmilović, “Structure and properties of polymer nanocomposite films with carbon nanotubes and graphene”, *Polymer Composites*, 38 (2017) E490 - E497.

#### 2016

4. M.N. Krstajić - Pajić, S.I. Stevanović, V.V. Radmilović, A. Gavrilović-Wohlmuther, **V.R. Radmilović**, S.L. Gojković and V.M. Jovanović, “Shape Evolution of Carbon Supported Pt Nanoparticles: from synthesis to application”, *Applied Catalysis B: Environmental*, 196 (2016) 174-184; DOI:10.1016/j.apcatb.2016.05.033; ISSN 09263373.
5. M.N. Krstajić - Pajić, S.I. Stevanović, V.V. Radmilović, J.R. Rogan, **V.R. Radmilović**, S.L. Gojković and V.M. Jovanović, “Pt/C Nanocatalysts for Methanol Electrooxidation Prepared by Water-In-Oil Microemulsion Method”, *Journal of Solid State Electrochemistry*, 20 (2016) 3405-3414; ISSN: 1432-8488; DOI: 10.1007/s10008-016-3319-z; (in press); (available online).
6. V.V. Radmilović, C. Carraro, P.S. Uskoković, **V.R. Radmilović**, “Structure and Properties of Polymer Nanocomposite Films With Carbon Nanotubes and Graphene”, *Polymer Composites*, (2016) in press; ISSN: 02728397; DOI: 10.1002/pc.24079. (available online).
7. N.R. Elezović, **V.R. Radmilović**, N.V. Krstajić, “Platinum nanocatalysts on metal oxide based supports for low temperature fuel cell applications”, *RSC Advances*, 6 (2016) 6788-6801. DOI: 10.1039/c5ra22403a; ISSN: 20462069. (Invited review paper)
8. Irena Nikolić, Ljiljana Karanović, Ivona Janković - Častvan, Smilja Marković, Vuk V. Radmilović, Slavko Mentus, **Velimir R. Radmilović**, “Strength and durability of alkali-activated steel slag: the effect of the alkaline activator chemistry”, *Cement and Concrete Research*, ISSN: 0008-8846, in press.
9. Irena Nikolić, Smilja Marković, Ivona Janković - Častvan, Vuk V. Radmilović, Ljiljana Karanović, **Velimir R. Radmilović**, “Modification of mechanical and thermal properties of



fly ash based geopolymer by the incorporation of steel slag”, *Materials Letters*, 176 (2016) 301-305; ISSN: 0167-577X.

10. M.D. Obradović, Z.M. Stančić, U.Č. Lačnjevac, V.V. Radmilović, A. Gavrilović-Wohlmuther, **V.R. Radmilović**, S.Lj. Gojković, “Electrochemical oxidation of ethanol on palladium-nickel nanocatalyst in alkaline media”, *Applied Catalysis B: Environmental*, 189 (2016) 110 -118. doi:10.1016/j.apcatb.2015.01.038; ISSN:0926-3373.
11. Irena Nikolić, Ana Drinčić, Dijana Djurović, Ljiljana Karanović, Vuk V. Radmilović, **Velimir R. Radmilović**, “Kinetics of electric arc furnace slag leaching in alkaline solutions”, *Construction and Building materials*, 108 (2016) 1-9; ISSN: 0950-0618; doi:10.1016/j.conbuildmat.2016.01.038.
12. Vuk V. Radmilović, Josh Kacher, Evica R. Ivanović, Andrew M. Minor, and **Velimir R. Radmilović**, “High Resolution Microscopy and Orientation Imaging of Defects in Silver Dendrites”, *Crystal Growth & Design*, 16 (2016) 467 - 474; Publisher: American Chemical Society; DOI: 10.1021/acs.cgd.5b01459. Print Edition ISSN: 1528-7483; Web Edition ISSN: 1528-7505.

## **2015**

13. Fei Guo, Ning Li, Frank Fecher, Nicola Gasparini, Vuk V. Radmilović, **Velimir R. Radmilović**, Erdmann Spiecker, Karen Forberich and Christoph J. Brabec, “Solution Processed Triple-Junction Organic Photovoltaic Cells with an Integrated Series and Parallel Interconnection”, *Nature Communications*, 6 (2015) 7730; DOI: 10.1038/ncomms8730; ISSN: 2041-1723.
14. U.Č. Lačnjevac, V.V. Radmilović, **V.R. Radmilović**, N.V. Krstajić, “RuO<sub>x</sub> nanoparticles deposited on TiO<sub>2</sub> nanotube arrays by ion-exchange method as electrocatalysts for the hydrogen evolution reaction in acid solution”, *Electrochimica Acta*, 168 (2015) 178 - 190; DOI:10.1016/j.electacta.2015.04.012; DOI: 10.1016/j.electacta.2015.04.012; ISSN: 0013-4686.
15. M. Göbelt, R. Keding, S.W. Schmitt, B. Hoffmann, S. Jäckle, M. Latzel, V.V. Radmilović, **V.R. Radmilović**, E. Spiecker and S. Christiansen, “Encapsulation of Silver Nanowire Networks by Atomic Layer Deposition for Indium-Free Transparent Electrode Applications”, *Nano Energy*, 16 (2015) 196 - 206; DOI: 10.1016/j.nanoen.2015.06.027; ISSN: 2211-2855;
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**C. Papers presented and/or published in the proceedings of international conferences (in English)**

**2017**

1. **Velimir Radmilović**, "Atomistic Phenomena in Functional oxide nanowires", International Workshop on *Possibilities and Limitations of Quantitative Materials Modeling and Characterization 2017*, Akademie-Kues, Stiftsweg 1, May 15 – 17, 2017, Bernkastel-Kues, Germany; Organized by Professor Hamish Fraser, CAMM – Center for the Accelerated Maturation of Materials, The Ohio State University. **(Invited plenary talk)**
2. **Velimir Radmilović**, "Nanoelectromechanical Cantilever Sensors", XXIInd International Scientific Conference: Information Technologies; IEEE Advanced Technology for Humanity; Žabljak, 27.02. - 04.03.2017., Montenegro. **(Invited plenary talk)**
3. **V.V. Radmilović, T. Duden, V.R. Radmilović**, "Multipurpose Cantilever Sensors", MCM2017 International Microscopy Conference; 24.09. - 29.09.2017., Rovinj, Croatia. **(Invited plenary talk)**
4. **Vuk V. Radmilović, Colin Ophus, Velimir R. Radmilović**, "STEM Diffraction Mapping of Silver Nanowire Welds", International Workshop: Electron Microscopy at High

Temporal Resolution; Strasbourg 2017; May 29 - 31, 2017., France. **(Invited plenary talk)**

5. **Velimir Radmilović**, “Atomistic Phenomena in Engineering Materials”, Yucomat 2017, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 4 – 9, 2017; Book of abstracts, p. 1; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. **(Invited plenary talk)**

## **2016**

6. **Velimir Radmilović**, “Functional oxide nanowires for thermoelectric applications”, International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices (IAMNano 2016), November 7 – 9, 2016, Boardwalk, Convention Centre, Port Elizabeth, South Africa. **(Invited plenary talk)**
7. **Velimir Radmilović**, “Precipitation in AlLiSc Alloys”, MSE 2016 - Materials Science and Engineering International Conference; TOPIC D · CHARACTERIZATION: Symposium D01 Advanced and In-Situ Microscopies in Materials Science and Engineering; USA-GERMAN Networking Symposium; Organized by DGM · Deutsche Gesellschaft für Materialkunde; September 27 – 29, 2016, Germany. **(Invited talk)**
8. Irena Nikolić, Smilja Marković, Vuk Radmilović, **Velimir Radmilović**, Correlation between hydration progress and strength of alkali activated slag: influence of alkali ion, The 48th International October Conference on Mining and Metallurgy, 28 September-1. October 2016, Bor (Serbia)
9. **Velimir Radmilović**, “Nonperiodic Planar & Zigzag Defects in Functional Oxide Nanowires”, From Solid State to Biophysics, Cavtat (Croatia), June 4-11, 2016; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. **(Invited plenary talk)**
10. **Velimir Radmilović**, “Monodispersed L12 core/shell preipitates obtained by solid state reaction”, International Workshop on *Possibilities and Limitations of Quantitative Materials Modeling and Characterization 2016*, Akademie-Kues, Stiftsweg 1, May 22 – 26, 2016, Bernkastel-Kues, Germany; Organized by Professor Hamish Fraser, CAMM – Center for the Accelerated Maturation of Materials, The Ohio State University. **(Invited plenary talk)**
11. **Velimir R. Radmilović**, “Lithium and scandium trialuminides embedded in solid matrix”, Yucomat 2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 4; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. **(Invited plenary talk)**
12. Vuk V. Radmilović, Fei Guo, Christoph J. Brabec, Erdmann Spiecker, **Velimir R. Radmilović**, “Structural characterization of organic bulk heterojunction solar cells”, Yucomat 2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 19; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. **(Invited talk as the best oral presentation of a young scientist at Yucomat 2015)**
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14. Ljiljana M. Gajić-Krstajić, P. Zabinski, **V.R. Radmilović**, P. Ercius, M. Krstajić-Pajić, U.Č. Lačnjevac, N.V. Krstajić, N.R. Elezović, “Synthesis and characterization of Pd nanocatalyst at tungsten carbide based support for fuel cells application”, Yucomat2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 71; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.
15. Vuk Radmilović, Manuela Göbelt, Silke Christiansen, Erdmann Spiecker and **Velimir Radmilović**, “Ag/ZnO Core/shell Nanowires For Sollar Cell Applications”, Junior Euromat 2016, Lausanne, Switzerland, Book of Abstracts, ISBN 978-2-8399-1926-5 (2016), p.65.

## 2015

16. **Velimir R. Radmilović**, “How Low Can We Go?”; Master Class at The Fourteenth Young Researchers' Conference Materials Sciences and Engineering, December 9-11, 2015, Belgrade, Serbia; Editor: Dr. Smilja Marković; Book of abstracts, p. 17; ISBN 978-86-80321-31-8. (**Invited plenary talk**)
17. **Velimir R. Radmilović**, “Functional Oxide Nanowires for Thermoelectric Applications”, SFKM2015, The 19th Symposium on Condensed Matter Physics, 7-11 September 2015, Belgrade, Serbia; Book of abstracts, p. 44. (**Invited plenary talk**)
18. Mila N. Krstajić, Sanja I. Stevanović, Vuk V. Radmilović, Aleksandra Gavrilović-Wohlmuther, **Velimir R. Radmilović**, Snežana Lj. Gojković, Vladislava M. Jovanović, “Shape Evolution of Carbon Supported Pt Catalyst for PEMFC”, Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31<sup>st</sup> – September 4<sup>th</sup>, 2015; Book of abstracts, p. 78; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.
19. Ljiljana M. Gajić-Krstajić, Nevenka R. Elezović, Biljana M. Babić, **Velimir R. Radmilović**, Nedeljko V. Krstajić “Platinum nanocatalysts at titanium oxide based supports for low temperature fuel cell applications”, Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31<sup>st</sup> – September 4<sup>th</sup>, 2015; Book of abstracts, p. 77; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2015.
20. Irena Nikolić, Smilja Marković, Ljiljana Karanović, Vuk V. Radmilović, **Velimir R. Radmilović**, “Thermal resistance of alkali activated binders synthesized using the fly ash and steel slag”, Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31<sup>st</sup> – September 4<sup>th</sup>, 2015; Book of abstracts, p. 24; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia.
21. Vuk V. Radmilović, Manuela Göbelt, Silke Christiansen, Erdmann Spiecker, **Velimir R. Radmilović**, “Silver nanowire base network for transparent electrode application”, Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31<sup>st</sup> – September 4<sup>th</sup>, 2015; Book of abstracts, p. 17; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2015.

22. **Velimir R. Radmilović**, “Zigzag Inversion Domain Boundaries in Functional Oxide Nanowires”, Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31<sup>st</sup> – September 4<sup>th</sup>, 2015; Book of abstracts, p. 5; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2015. (**Invited plenary talk**)
23. **Velimir R. Radmilović**, “High resolution microscopy and spectroscopy of thermoelectric nanowires”, MCM, 12<sup>th</sup> Multinational Congress on Microscopy, August 23-28, 2015, Eger, Hungary. (**Invited plenary talk**)
24. C. Liebscher, **V.R. Radmilović**, U. Dahmen, M. Asta, G. Ghosh, “Hierarchical microstructure of ferritic superalloys”, MC2015, Microscopy Conference DGE, German Society for Electron Microscopy, September 6–11, 2015 Georg-August-University Göttingen/Germany.
25. **Velimir R. Radmilović**, “Phonon scattering control in nanowires for thermoelectric applications”, Advanced In Situ TEM/STEM, July 20 – 23, 2015, Chalmers University Workshop, Gothenburg, Sweden. (**Invited plenary talk**)
26. C. Liebscher, **V.R. Radmilović**, U. Dahmen, M. Asta, G. Ghosh, “Hierarchical microstructure of ferritic superalloys”, IAMNano 2015, International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices, July 8 – 10, 2015, Hotel Empire Riverside, Hamburg, Germany; Book of abstracts, pp. 52-53.
27. **Velimir R. Radmilović**, “Highly monodisperse Core/shell Precipitates in AlLiSc Alloys”, IAMNano 2015, International Workshop on Advanced and *In-situ* Microscopies of Functional Nanomaterials and Devices, July 8 – 10, 2015, Hotel Empire Riverside, Hamburg, Germany; Book of abstracts, pp. 37-38. (**Invited plenary talk**)
28. **V.R. Radmilović**, “Aberration corrected microscopy of functional oxide nanowires at atomic scale”, “3rd Croatian Microscopy Congress,” April26-29, 2015, Zadar, Croatia. (**Invited plenary talk**)
29. **V.R. Radmilović**, “Control of ZnO nanowire structure and thermoelectric properties at atomicscale”, PICO2015, April 19-23, 2015; Kasteel Vaalsbroek, Nederland; Conference organizers: Rafal Dunin-Borkowski, Joachim Mayer, and Karsten Tillmann; Book of abstracts, p. G4. (**Invited plenary talk**)
30. **V.R. Radmilović**, “Microscopy and spectroscopy of functional oxide nanowires at atomic scale”, Freidrich-Alexander Univerzität, Erlangen-Nürnberg; Symposium: Advanced Electron Microscopy for Materials Research, Thursday, April 30, 2015, 2 p.m., Fraunhofer IISB. (**Invited plenary talk**)
31. Irena Nikolić, **Velimir R. Radmilović**, “Strength and shrinkage of alkali activated fly ash /slag blends at elevated temperature”, 47<sup>th</sup> International october conference on mining and metallurgy, 4– 6. oktobar 2015, Borsko jezero, Srbija; Conference Proceedings, pp. 249 –252.
32. Irena Nikolić, Radomir Zejak, Vuk Radmilović, **Velimir R. Radmilović**, “Efct of substitution of fly ash with steel slag on the mechanical properties of alkali activated mortars”, 8<sup>th</sup> International Scientific Conference “Science and Higher Education in Function of Sustainable Development” 2-3 October 2015, Uzice, Serbia; Conference Proceedings, pp. 1-5.



33. Dragoljub Blečić, Irena Nikolić, **Velimir R. Radmilović**, “Strength and fire – resistance of alkali activated binders”, IV International Congress: Engineering, Environment and Materials in Processing Industry, Jahorina, 4-6. mart 2015, Republika Srpska, Bosna i Hercegovina; Conference Proceedings, pp. 382 -386.
34. U. Lačnjevac, V.V. Radmilović, **V.R. Radmilović**, N.V. Krstajić, *TiO<sub>2</sub> Nanotube Supported RuO<sub>x</sub> Electrocatalyst for the Hydrogen Evolution Reaction in Acid Solution*, Third Conference of the Serbian Society for Ceramic Materials, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-80109-19-0 (2015), p.122.
35. M.N. Krstajić, S.I. Stevanović, V.V. Radmilović, J.R. Rogan, A. Gavrilović-Wohlmuther, **V.R. Radmilović**, S.Lj. Gojković, V.M. Jovanović, *Shape controlled, carbon supported Pt anodic catalysts for DFAFC*, Fifth Regional Symposium on Electrochemistry, South-East Europe, Pravets, Bulgaria, Book of Abstracts, ISBN 978-954-92483-4-0 (2015), p.78.

## **2014**

36. Devis Contarato, Nord Andresen, Marco Battaglia, Peter Denes, Dionisio Doering, Thomas Duden, John Joseph, Brad Krieger, Patrick McVittie, **Velimir R. Radmilović**, “Evaluation of CMOS imager pixel architectures for direct detection in Transmission Electron Microscopy”.
37. Vuk V. Radmilović, Carlo Carraro, Petar Uskoković, Radoslav Aleksić, **Velimir R. Radmilović**, “Raman spectroscopy and electron microscopy of polymer based nanocomposites with carbon nanotubes and graphene”, Sixteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 92; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014.
38. Ljiljana M. Gajić-Krstajić, N.R. Elezović, B.M. Babić, J. Kovač, **V.R. Radmilović**, N.V. Krstajić, “Electrochemical oxygen reduction at platinum catalyston tin oxide based support in alkaline solution”, Sixteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 90; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014.
39. I. Nikolić, I. Janković-Častvan, V.V. Radmilović, D. Blečić, **V.R. Radmilović**, *Role of alkali activator chemistry on the thermal behaviour of alkali activated slag*, The 46th International October Conference on Mining and Metallurgy, 1-4. October 2014, Bor Lake, Bor (Serbia), Conference Proceedings, pp. 108-111.
40. Irena Nikolić, I. Janković-Častvan, V.V. Radmilović, Lj. Karanović, S. Mentus, **V.R. Radmilović**, “Influence of alkali ion on the properties of alkali activated slag”, Sixteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 11; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014.
41. C. Ophus, D.H. Moreno, A. Gautam, W. Bras, U. Dahmen, **V.R. Radmilović**, “Formation of monodisperse nanoparticles in solids”, Sixteen Annual Conference YUCOMAT2014, Herceg Novi, Montenegro, September 1-5, 2014; Book of abstracts, p. 4; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia, 2014. (**Invited plenary talk**)

42. **Velimir R. Radmilović**, “Planar and zigzag defects in functional oxide nanowires”, XV International Conference on Electron Microscopy, EM2014, 15-18 September, 2014, Krakow, Poland; Book of abstracts, p. 21. ISBN 978-83-63663-48-3. (**Invited plenary talk**)
43. **Velimir R. Radmilović**, “How Much Do We Know About Friction At Atomistic Level?”, International Conference, June 8-13, 2014, Cavtat, Dubrovnik, Croatia; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. (**Invited plenary talk**)
44. Abhay Gautam, Colin Ophus, Frederic Lancon, **Velimir R. Radmilović**, and Ulrich Dahmen, “Characterization of Atomic Relaxations at Grain Boundaries in Au Using Aberration-Corrected Electron Microscopy”, TMS2014 International Conference, Symposium: Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment; Organizer(s): Xiang-Yang Liu; Blas Uberuaga; Stephen Foiles; Mitra Taheri; Rampi Ramprasad; February 16-20, San Diego, California.
45. Ulrich Dahmen, Abhay Gautam, Colin Ophus, Tamara Radetić, **Velimir R. Radmilović**, Frederic Lancon, “Atomic Mechanisms of Interface Motion in Gold Bicrystals”, TMS2014 International Conference, Symposium: Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment; Organizer(s): Xiang-Yang Liu; Blas Uberuaga; Stephen Foiles; Mitra Taheri; Rampi Ramprasad; February 16-20, San Diego, California. (**Invited talk**)
46. M.K. Santala, C. Ophus, M. Asta, and **V.R. Radmilović**, “Aberration-corrected STEM imaging and density functional theory-based models of Pt/alumina interfaces”, TMS2014 International Conference, Symposium: Solid-State Interfaces III: Toward an Atomistic-scale Understanding of Structure, Properties, and Behavior through Theory and Experiment; Organizer(s): Xiang-Yang Liu; Blas Uberuaga; Stephen Foiles; Mitra Taheri; Rampi Ramprasad; February 16-20, San Diego, California.

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47. I. Nikolić, I. Janković-Častvan, V.V. Radmilović, Lj. Karanović, S. Marković, S. Mentus, **V.R. Radmilović**, *Geopolymer materials based on the electric arc furnace slag*, YUCOMAT 2013, 2-6. septembar, Herceg Novi, Crna Gora; Book of abstracts, p. 47.
48. R. Zejak, I. Popović, I. Nikolić, **V.R. Radmilović**, *Strength, microstructure and durability of steel slag based geopolymers*, Internatioanl Conference, “Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection” 15YuCoor, 17–20 September, 2013, Tara, Serbia, Conference Proceedings, pp. 371-375.
49. D. Blečić, I. Nikolić, **V.R. Radmilović**, *Thermal stability of electric arc furnace slag based geopolymers*, The 45<sup>th</sup> International October Conference on Mining and Metallurgy, 16-19 October 2013, Bor Lake, Bor (Serbia) pp. 128-131.
50. M. Tadić, I. Nikolić, **V.R. Radmilović**, *Comparative analysis of hydrolytic stability of slag and fly ash based geopolymers*, The 45th International October Conference on Mining and Metallurgy, 16-19 October 2013, Bor Lake, Bor (Serbia) pp 136-139.

51. **Velimir R. Radmilović**, “L<sub>12</sub> Ordered Nano-heterostructures Embedded in Solids”; Proceed. of 45<sup>th</sup> October Conference on Mining and Metallurgy (IOC2013), 16–19 October 2013, Bor Lake, Serbia; p. 6; Editors: Nada Štrbac, Dragana Živković, and Svetlana Nestorović; Publ. University of Belgrade-Technical Faculty in Bor; ISBN 978-86-6305-012-9. **(Invited plenary talk)**
52. **V.R. Radmilović**, A. Gautam, C. Ophus, F. Lançon, and U. Dahmen “Atomistic view of frictionless sliding in gold thin films”, Yucomat 2013, Book of Abstracts of International Materials Research Conference, p.6; September 2-6, 2013, Herceg Novi, Montenegro; Editors: Dragan Uskoković and Velimir R. Radmilović; Publ. Materials Research Society of Serbia. **(Invited plenary talk)**
53. **V.R. Radmilović**, “Core/shell Nanostructures Embedded in Solid”, MC2013 International Microscopy Conference, August 25/30, 2013, Regensburg, Germany. **(Opening invited plenary talk; EMS Lecturer award)**
54. **V.R. Radmilović**, “Metallic thin films for NEMS applications”, 4th International Workshop on Remote Electron Microscopy and In Situ Studies, May 22-24, 2013, the Palace of the Portuguese Engineering Association in Lisbon, Portugal. **(Invited plenary talk)**
55. **V.R. Radmilović**, “Aberration Corrected Electron Microscopy of Nanoheterostructures”, Workshop on Advanced Transmission Electron Microscopy (NorTEMnet): “Current Trends and Future Needs in Imaging and Spectroscopy of Devices, Materials and Nanostructures; Chalmers University of Technology, Gothenburg, Sweden, March 25<sup>th</sup> – 27<sup>th</sup>, 2013; Publ. by Department of Applied Physics, Chalmers University of Technology; Eds. Marcus Loffler and Eva Olsson, Book of abstracts, p. 17. ISBN 978-91-980300-9-9. **(Invited plenary talk)**

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56. **V.R. Radmilović**, “Core/shell nanostructures: From atomic resolution imaging to first principles calculations”, First international conference: Processing, characterization and application of nanostructured materials and nanotechnology, NANOBELGRADE 2012, Belgrade, September 26-28, 2012; Book of abstracts; Editors: Đorđe Janačković and Petar Uskoković. **(Invited plenary talk)**.
57. **Velimir R. Radmilović**, «», International Conference, June 9-16, 2012, Cavtat, Dubrovnik, Croatia; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. (Invited plenary talk)
58. **Velimir R. Radmilović**, S. Andrews, M. Moore, P. Yang “Atomic Resolution Microscopy of Advanced Materials for Thermoelectric Applications”, European Microscopy Congress, EMC2012, September 16-21, 2012, Manchester, UK. **(Invited talk)**
59. R. Zejak, I. Nikolić, D. Đurović, B.P. Mugoša, D. Blečić, **V.R. Radmilović**, *Influence of Na<sub>2</sub>O/Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> ratios on the immobilization of Pb from electric arc furnace into the fly ash based geopolymers*, 16<sup>th</sup> International Conference on Heavy metals in the Environment, ICHMET 2012, 23-27 September Rome, Italy (E3S Web of Conferences 1, 31007, (2013)) DOI: 10.1051/e3sconf/20130131007.

60. D. Đurović, I. Nikolić, R. Zejak, M. Tadić, **V.R. Radmilović**, *Conversion of fly ash in the environmental friendly materials thorough geopolymerisation process*, 44<sup>th</sup> international October Conference on Mining and Metallurgy, IOC44, 1-3 October 2012, Bor, Serbia, pp.347-352.
61. D. Blečić, I. Nikolić, R. Zejak, M. Tadić, **V.R. Radmilović**, *Influence of type of alkali solution on the properties of fly ash based geopolymers*, 44<sup>th</sup> international October Conference on Mining and Metallurgy, IOC44, 1-3 October 2012, Bor, Serbia, pp.353-356.
62. Hee Joon Jung, Neil P. Dasgupta, Phil B. Van Stockum, Ai Leen Koh, **Velimir R. Radmilović**, Fritz B. Prinz, Robert Sinclair, "Shape-induced Bandgap Variations within a Single Quantum Dot", 2012 MRS Fall Meeting, November 25 - 30, 2012, Hynes Convention Center, Boston, MA, USA.
63. C. Liebscher, M. Asta, **V.R. Radmilović**, U. Dahmen, "Hierarchically Structured Precipitates in a Ferritic Alloy Characterized by Diffraction Contrast and Energy Filtered Imaging", Microscopy and Microanalysis Conference, M&M2012, July 29-August 2, 2012, Phoenix, AZ.
64. **V.R. Radmilović**, "Phonon Transport Control at Atomic Level in ZnO Nanowires", From Solid State to Biophysics, International Conference, June 9-16, 2012, Cavtat, Dubrovnik, Croatia; Organized by Professor Laszlo Forro and Professor Davor Pavuna, EPFL, Lausanne, Switzerland. (**Invited plenary talk**)
65. Colin Ophus, Maarten de Jong, Mark Asta, Marcel Sluiter, Ulrich Dahmen, **Velimir R. Radmilović**, "Coherent precipitation in ternary Al alloys", 2012 TMS Annual Meeting & Exhibition, March 11-15, Orlando, Florida; Computational Thermodynamics and Kinetics: In Honor of Dr. Long-Qing Chen, EMPMD Outstanding Scientist; (**Invited talk**)

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66. Colin Ophus, Maarten de Jong, Mark Asta, Ulrich Dahmen, **Velimir R. Radmilović**, "Coherent Precipitation in Ternary Al Alloys: Insights from First-Principles Modeling", MS&T'11 Conference, October 15-20, Columbus, Ohio; Session Honoring John W. Cahn, Recipient of ASM's 2011 J. Williard Gibbs Phase Equilibria Award; *Program Organizers*: Jeffrey LaCombe, Yongho Sohn, John Morral, Ursula Kattner, and Abhijeet Misra; CD volume only. (**Invited talk**)
67. Melissa Santala, **Velimir R. Radmilović**, Raquel Giulian, Mark Ridgway, Ronald Gronsky, Andreas Glaeser, "The Orientation and Morphology of Pt Precipitates within Sapphire", MS&T'11 Conference, October 15-20, Columbus, Ohio. (**Invited talk**)
68. V. Djokić, A. D. Marinković, M. Mitrić, **V.R. Radmilović**, P. Uskoković, R. Petrović, Dj. Janačković, „Highly active rutile TiO<sub>2</sub> nanocrystalline photocatalysts with synergistic exposed crystal faces”, 2<sup>nd</sup> International workshop: Characterization, properties and applications of nanostructured ceramics, polymers and composites, Book of Abstracts, p.49, Belgrade, Serbia, 2011.

69. V. Djokić, A. Marinković M. Mitrić **V.R. Radmilović**, P. Uskoković R. Petrović, Dj. Janaćović, „Preparation of TiO/MWCNT photocatalysts: the influence of the MWCNT oxidation method on the photocatalytic activity”, 2<sup>nd</sup> International workshop: Characterization, properties and applications of nanostructured ceramics, polymers and composites, Book of Abstracts, p.50, Belgrade, Serbia, 2011.
70. **V.R. Radmilović**, C. Ophus, A. Gautam, M. Asta and U. Dahmen, “Electron Microscopy and Spectroscopy of L1<sub>2</sub> Complex Nanostructures”, International Microscopy Conference FEMMS2011, Napa, September 19-23, 2011, USA. (**Invited talk**)
71. M.K. Santala, C. Ophus, M. Asta, and **V.R. Radmilović**, “Aberration-corrected HRTEM imaging and density functional theory-based models of a Pt/alumina interface” International Microscopy Conference FEMMS2011, Napa, September 19-23, USA.
72. C. Ophus, A. Tolley, A. Gautam, M.D., E.A. Marquis, U. Dahmen, and **V.R. Radmilović**, “Quantitative Composition Measurements of Atomic Columns Using STEM: Application to L1<sub>2</sub> Precipitates”, *Microscopy & Microanalysis*, 17 (2011) 1262-1263; Microscopy Society of America; M&M2011, August 7-11, 2011, Nashville, Tennessee, USA; DOI: 10.1017/S1431927611007185.
73. C. Ophus, A. Tolley, A. Gautam, M.D., E.A. Marquis, Rossell, M. Asta, U. Dahmen, and **V.R. Radmilović**, Gordon Conference 2011; Physical Metallurgy; Evolution of Metals Structures: Modeling, Characterization and Design; July 31 - August 5, 2011, Stonehill College, Easton, MA; Chairs: Mark D. Asta, Emmanuelle A. Marquis, Dallas R. Trinkle & Peter W. Voorhees; Vice Chair: Michael J. Mills.
74. **Velimir R. Radmilović**, “HAADF imaging and analysis of interface and defect structures in M<sub>2</sub>O<sub>3</sub>(ZnO)<sub>n</sub> polytypoid nanowires”, MC2011, Microscopy Congress, August 28-September 2, 2011, Kiel, Germany. (**Invited plenary talk**)
75. **V. Radmilović**, C. Ophus, A. Gautam, M. Asta, U. Dahmen, "Al (LiSc) Core/shell Ordered Nanostructures Embedded in Solids", *XVIII Symposium on Condensed Matter Physics - SFKM 2011*; 18-22 April, 2011; Belgrade - Serbia; p. 29. (**Invited plenary talk**)
76. M.K. Santala, C. Ophus, M. Asta, **V.R. Radmilović**, “Aberration corrected HRTEM imaging and density functional theory-based models of a Pt/alumina interface”, MCM2011, Multinational Microscopy Congress, September 4-9, 2011, Urbino, Italy; Proceedings/Ed. Elisabetta Falcieri; S.I., Societa Italiana Scienze Microscopishe; C2011, pp. 589-590.
77. **Velimir R. Radmilović**, “Imaging of Light Elements and Single-Atomic Column Compositional Analysis: Dream or Reality”, MCM2011, Multinational Microscopy Congress, September 4-9, 2011, Urbino, Italy. (**Invited plenary talk**)
78. V.V. Radmilović, **V.R. Radmilović**, G. Vuković, D. Stojanović, A. Kojović, P.S. Uskoković, R. Aleksic, “The fabrication of electrospun chitosan nanofiber’s mat with embedded single- and multi-walled carbon nanotubes”, Yucomat 2011, Herceg Novi, Montenegro.

79. Lj. Gajić-Krstajić, N.R. Elezović, B.M. Babić, **V.R. Radmilović**, N.V. Krstajić, Lj.M. Vračar, “Preparation and characterization of Pt nanocatalyst on tungsten based support for alkaline fuel cells applications”, Yucomat 2011, Herceg Novi, Montenegro.
80. **V.R. Radmilović**, S.C. Andrews, M.A. Fardy, M.C. Moore, P. Yang, “ $M_2O_3(ZnO)_n$  nanowires for thermoelectric applications”, Yucomat 2011, Herceg Novi, Montenegro. (**Invited plenary talk**)
81. Hee Joon Jung, Neil P. Dasgupta, Ai Leen Koh, Phil V. Stockum, Mike C. Langston, **Velimir R. Radmilović**, Fritz B. Prinz and Robert Sinclair, “Local Bandgap Change Measurement within a Dome-Shaped PbS Quantum Dot Using STEM-VEELS”, 2011 MRS Fall Meeting & Exhibit, November 28 - December 2, 2011, Boston, MA.
82. Sean C. Andrews, Melissa A. Fardy, Michael C. Moore, Shaul Aloni, **Velimir R. Radmilović** and Peidong Yang, “Controllable Transport Properties of ZnO-based Polytypoid Nanowires”, 2011 MRS Spring Meeting & Exhibit, April 26 – 29, an Francisco, CA.
83. Michael C. Moore, Sean C. Andrews, Melissa A. Fardy, Shaul Aloni, **Velimir R. Radmilović** and Peidong Yang, “Rational Synthesis of Indium Gallium Zinc Oxide Nanowires”, 2011 MRS Spring Meeting & Exhibit, April 26 – 29, an Francisco, CA.

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84. S.Lj. Gojković, B.M. Babić, **V.R. Radmilović**, N.V. Krstajić, “Nb-doped TiO<sub>2</sub> as a support of Pt and Pt-Ru anode catalyst for PEMFCs”, Second Regional Symposium on Electrochemistry, South-East Europe, Belgrade, Serbia, June 6-10, 2010.
85. Nevenka R. Elezović, Biljana M. Babić, Ljiljana Gajić-Krstajić, **Velimir R. Radmilović**, Nedeljko V. Krstajić, Ljiljana M. Vračar, “Novel Pt based nanocatalyst at Nb doped TiO<sub>2</sub> support for oxygen reduction reaction”, Second Regional Symposium on Electrochemistry, South-East Europe, Belgrade, Serbia, June 6-10, 2010.
86. Wim Bras, Neville Greaves, Simon Clark, Martin Kunz, Sergey Nikitenko, Giovanni Bruno and **Velimir R. Radmilović**, “The early stages of glass ceramics devitrification”, 2010 Glass & Optical Materials Division Annual Meeting, May 16-20, 2010, Corning, NY.
87. Melissa Kaarina Santala, **Velimir R. Radmilović**, Raquel Giulian, Marc S. Ridgway, Andreas M. Glaeser, and Ronald Gronsky, “HRTEM characterization of metal/oxide interfaces of Pt precipitates in sapphire”, 17<sup>th</sup> International Microscopy Congress (IMC17); September 19-24, 2010, Rio de Janeiro, Brazil; Eds.: G. Solorzano and W.D. Souza; Publ. Sociedade Brasileira de Microscopia e Microanalise; Proceedings, 2010, pp. -.
88. **Velimir R. Radmilović** and Ulrich Dahmen, “Imaging of lithium in complex metallic nanostructures”, 17<sup>th</sup> International Microscopy Congress (IMC17); September 19-24, 2010, Rio de Janeiro, Brazil; Eds.: G. Solorzano and W.D. Souza; Publ. Sociedade Brasileira de Microscopia e Microanalise; Proceedings, 2010, pp. 84-85. (**Invited talk**)

89. Melissa Santala, Velimir R. Radmilović, Raquel Guilian, Mark Ridgway, Andreas Glaeser, Ronald Gronsky, “Interfacial Structure and Morphological Evolution of Platinum Nano-precipitates Embedded in Sapphire”, TMS"139th Annual Meeting & Exhibition of the Minerals, Metals & Materials Society, Seattle, WA", "Conference Proceedings"., February 14-18, 2010,

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90. U. Dahmen, P. Denes, V.R. Radmilović and T. Duden, “Recent Advances in Electron Microscopy in the Context of the TEAM Project”, The International Symposium on Atomic Level Characterizations for New Materials and Devices '09, December 6 – 11, 2009, Maui, Hawaii, USA. (**Invited talk**)
91. V.R. Radmilović, S. Habasand T. Duden, “ Pt/Pd core/shell nanoheterostructures”, Internation Conference on Advanced Materials, ICAM2009, September 20-25, 2009, Rio de Janeiro, Brasil; Organized by Brazil-MRS (SBPMat). (**Invited talk**)
92. V.R. Radmilović, M.D. Rossell, E. Marquis, M. Asta, and U. Dahmen, “Formation of monodisperse Al<sub>3</sub>(Sc,Li) ordered precipitates in an Al-rich matrix”; Internation Conference on Advanced Materials, ICAM2009, September 20-25, 2009, Rio de Janeiro, Brasil; Organized by Brazil-MRS (SBPMat).(**Invited talk**)
93. N.V.Krstajić, N.Elezović, Lj.M.Vračar, Lj.Gajić-Krstajić, V.R. Radmilović, "Kinetics of the Hydrogen Oxidation on Pt Modified Moox Nano-Sized Catalyst in the Presence of Carbon Monoxide", 11th Conference of the Materials Research Society of Serbia - YUCOMAT 2009, Herceg Novi, Montenegro, August 31 – September 4, 2009.
94. V.R. Radmilović, Z. Lee, A. Dato, K-J. Jeon, T. Richardson and M. Frenklach“Synthesis and Characterization of High-Quality Graphene”, YUCOMAT2009, Herceg Novi, Montenegro. (**Invited plenary lectures**)
95. V.R. Radmilović, Z. Lee, C. Ophus, E. Luber, U. Dahmen and D. Mitlin, “Metallic Thin Films for MEMS/NEMS Applications”, Multi national Congress for Electron Microscopy, MC2009, August 31-September 4, 2009, Graz, Austria. (**Invited talk**)
96. Z. Lee, A. Dato, K-J. Jeon, R. Erni, T. Richardson, M. Frenklach, V.R. Radmilović, “Atomic Resolution Imaging and Spectroscopy of Graphene Using the TEAM 0.5”, MSA2009, July 25-31, 2009, Richmond, Virginia, pp. 124-125.
97. M. Watanabe, M.D. Rossell, R. Erni, V.R. Radmilović, U. Dahmen, “Applications of high spatial/energy resolution energy-filtering transmission electron microscopy (HREFTEM) for phase analysis of Al alloys in the aberration-corrected, monochromated TEAM instrument”, Edge Meeting 2009.
98. T. Duden, V.R. Radmilović, A. Schmid, U. Dahmen, “K-space Navigation for Accurate High-angle Tilting and Control of the TEAM Sample Stage”, Extended abstract of a paper presented at Microscopy and Microanalysis 2009 in Richmond, Virginia, USA, MSA2009, July 25-31, 2009, Richmond, Virginia, pp. 1228-1229.
99. M. Rossell, M. Watanabe, R. Erni, V.R. Radmilović, U. Dahmen, “Quantitative Li Mapping in Al alloys by Sub-eV Resolution Energy-Filtering Transmission Electron Microscopy (EFTEM) in the Aberration-Corrected, Monochromated TEAM0.5

- Instrument”, MSA2009, July 25-31, 2009, Richmond, Virginia, pp. 430-431.(**Invited talk**)
100. Z. Lee, A. Dato, M. Watanabe, K-J. Jeon, R. Erni, T. Richardson, M. Frenklach, **V.R. Radmilović**, “Imaging and Spectroscopy of Graphene Sheets Using Aberration Corrected Transmission Electron Microscopy”, E-MRS 2009 Spring Meeting, June 8 - 12, 2009, Strasbourg, France.
101. **V.R. Radmilović**, C Ophus, E Lubert, Z Lee, U Dahmen, and D Mitlin, “Nanocrystalline – amorphous Al-Mo composite thin films”, E-MRS 2009 Spring Meeting, June 8 - 12, 2009, Strasbourg, France.
102. Marco Battaglia, Dario Bisello, Devis Contarato, Peter Denes, Dionisio Doering, Piero Giubilato, Tae Sung Kim, Zonghoon Lee, Serena Mattiazzo, **Velimir R. Radmilović**, “Development of a Radiation Hard CMOS Monolithic Pixel Sensor”, *2008 IEEE Nuclear Science Symposium and Medical Imaging Conference*, Vol. 1-9, (2009) pp. 2776-2779.
103. Que Anh Song Nguyen, Yash Bhargava, Thomas Devine and **Velimir R. Radmilović**, “Investigating the Structure and Morphology of Electrochemically Synthesized Titania Nanotubes via Cross-Sectional TEM and Micro-XRD”, 2009 MRS Spring Meeting & Exhibit, April 13 – 17, an Francisco, CA.
104. Nguyen Thi Quynh Hoa, Hoon-Hoe Huh, Zonghoon Lee, **Velimir R. Radmilović** and Eui-Tae Kim, “Visible-Light Photocatalysis of Sr-Doped TiO<sub>2-δ</sub> Nanobelts Synthesized by Chemical Vapor Deposition”, 2009 MRS Spring Meeting & Exhibit, April 13 – 17, an Francisco, CA.
105. Nguyen Thi Quynh Hoa, Young-Soo Park, Zonghoon Lee, **Velimir R. Radmilović** and Eui-Tae Kim, “Room-Temperature Ferromagnetism of Undoped and Co-Doped TiO<sub>2-δ</sub> Nanobelts Synthesized by Metallorganic Chemical Vapor Deposition.”, 2009 MRS Spring Meeting & Exhibit, April 13 – 17, an Francisco, CA.
106. Elizabeth Withey, Jia Ye, **Velimir R. Radmilović**, Shigeru Kuramoto, Andrew Minor<sup>1</sup>, Daryl Chrzan<sup>1</sup>, John Morris, “In Situ TEM Nanocompression Testing of Gum Metal”, TMS Annual Meeting, San Francisco, February 15-19, 2009.
107. Zonghoon Lee, **Velimir R. Radmilović**, Byungmin Ahn, Enrique Lavernia, Steven Nutt, “Tensile Deformation and Fracture Mechanism of Bimodal Al-Mg Alloy”, TMS Annual Meeting, San Francisco, February 15-19, 2009.
108. U. Dahmen, M. D. Rossell, R. Erni, M. Watanabe, and **V.R. Radmilović**, “High Resolution Electron Microscopy of Core/Shell Precipitates in Al-Based Alloys”, TMS Annual Meeting, San Francisco, February 15-19, 2009.(**Invited talk**)

## 2008

109. N. Nelson-Fitzpatrick, C. Ophus, E. Lubert, Z. Lee, **V.R. Radmilović**, D. Mitlin, S. Evoy, “Gold-Tantalum Nanocomposites as Structural Material for Nanomechanical Sensors”, MRS Fall Meeting, Boston, December 1-5, 2008.



110. M. Santala, A. Glazer, R. Gronsky and **V.R. Radmilović**, “Orientation Relationships and Morphologies of Pt Precipitates in Sapphire”, Materials Science & Technology 2008 Conference and Exhibit (MS&T '08), October 5-9, 2008, Pittsburgh, Pennsylvania.
111. U. Dahmen and **V.R. Radmilović**, “Structure and Phase Transformations of Nanophases Embedded in Solids”, Electron and Scanning Probe Microscopies; Department of Energy, Office of Basic Energy Sciences, Division of Materials Sciences and Engineering; 2008 Contractor’s Meeting, Warrenton, Virginia, October 26 – 28, 2008; pp. 177 – 180. (**Invited talk**)
112. **V.R. Radmilović**, M.D. Rossell, A. Tolley, E.A. Marquis, R. Erni and U. Dahmen, “L<sub>12</sub> core/shell nanostructures embedded in solids”, EM’08 International Conference, Zakopane, Poland (2008).(**Invited talk**)
113. **V.R. Radmilović**, M.D. Rossell, R. Erni and U. Dahmen, “Monodispersed Al<sub>3</sub>(LiScZr) core/shell nanostructures embedded in Al rich matrices”, Yucomat 2008, Herceg Novi, Montenegro. (**Invited talk**)
114. U. Dahmen, M.D. Rossell, R. Erni and **V.R. Radmilović**, “Aberration-Corrected Electron Microscopy of Li-Rich Precipitates in Al-Li-Sc-Zr Alloys – Some Initial Results from the TEAM 0.5 Microscope”, AMTC Conference , Japan (2008). (**Invited talk**)
115. U. Dahmen, R. Erni, C. Kisielowki, **V.R. Radmilović**, Q. Ramasse, A. Schmid, T. Duden, M. Watanabe, A. Minor, and P. Denes, “An update on the TEAM project - first results from the TEAM 0.5 microscope, and its future development”, M. Luysberg, K. Tillmann, T. Weirich (Eds.), EMC 1 Instrumentation and Methods, pp. 3–4, (2008). (**Invited talk**)
116. E. Spiecker, **V.R. Radmilović**, U. Dahmen, “Statistical Tomography of 3D Thin Film Structure using Transmission Electron Microscopy”, 14th European Microscopy Congress, Aachen, September 1 - 5, 2008, Germany; Richter, S. and Schwedt, A. (Eds.) EMC 2008, 2, pp. 367 – 368.
117. **V.R. Radmilović**, M.D. Rossell, A. Tolley, E.A. Marquis, R. Erni and U. Dahmen, “Core/Shell Precipitates in Al-Li-Sc-Zr Alloys”, EMC 2008, 14th European Microscopy Congress, Aachen, September 1 - 5, 2008, Germany.
118. Susan Habas, Hyunjoo Lee, **Velimir R. Radmilović**, Gabor A. Somorjai, Taleb Mokari and Peidong Yang, “Shape Control and Selectivity of Multi-Material Heterostructures for Catalytic and Energy Applications”, MRS Spring Meeting, San Francisco, 2008.
119. Z. Lee, A. Dato, J. Phillips, M. Frenklach, and **V.R. Radmilović**, “STEM Parallel Beam Nano-diffraction of Graphene”, M&M 2008, Albuquerque, New Mexico.
120. M.D. Rossell, R. Erni, A. Tolley, E.A. Marquis, **V.R. Radmilović**, and U. Dahmen, “The Atomic Structure of Core-Shell Precipitates in Al-Li-Sc-Zr Alloys by Analytical and Aberration-Corrected Transmission Electron Microscopy”, M&M 2008, Albuquerque, New Mexico.

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121. D. Mitlin, J. Haagsma, M. Danaie, B. Shalchi, E. Luber, C. Ophus, H. Fritzsche, **V.R. Radmilović**, U. Dahmen, “Hydrogen Sorption Properties and the Microstructure of Mg-

- Al Alloys and of MgH<sub>2</sub> - Carbon Nanotube Composites”, Fall meeting, Boston, November 6-30, 2007.
122. J.T. McKeown, J.D. Sugar, **V.R. Radmilović**, A.M. Glaeser, R. Gronsky, “Alloy Phase Patterning by Constrained Spinodal Decomposition”, MRS 2007, Fall meeting, Boston, November 6-30, 2007.
  123. M.V. Brougham, C. Ophus, S. Melenchuk, J. Luo, E. Lubner, M. Danaie, F. Forbes, **V.R. Radmilović**, Z. Lee, D. Mitlin, “Multifunctional Ultracomposites: Piezoelectric Materials Grown on Binary Metallic Glasses”, MRS 2007, Fall meeting, Boston, November 6-30, 2007.
  124. A. Dato, **V.R. Radmilović**, Z. Lee, J. Phillips, M. Frenklach, “Nanocarbon Synthesis in an Atmospheric-Pressure Microwave Plasma Reactor”, 5th WSS/CI US Combustion Meeting (March, 2007).
  125. **V.R. Radmilović**, “Novel Nanocomposite Thin Films for NEMS Application”, Yucomat 2007, Herceg Novi, Montenegro, September 4-9, 2007. (**Invited plenary talk**)
  126. **V.R. Radmilović**, “Nanostructures Embedded in Solids”, 3rd Serbian Congress for Microscopy, Belgrade, Serbia, September 25-28, 2007. (**Invited talk**)
  127. **V.R. Radmilović**, “Quantitative Ex-Situ Tensile and In-situ Compression Testing of Al-Mo Thin Films”, 3rd DPSM (International Conference on Deformation, Processing and Structure), Belgrade, September 21, 2007. (**Invited talk**)
  128. **V.R. Radmilović**, J. Ye, Z. Lee, A.M. Minor, and U. Dahmen, “Quantitative in-Situ Uniaxial Compression Testing in a Transmission Electron Microscope”, Proceed. of 8 MCM, Prague, (2007) MP/37.
  129. David Mitlin, Julian Haagsma, Erik Lubner, Colin Ophus, Reza Mohammadi, Zonghoon Lee, Ulrich Dahmen and **Velimir R. Radmilović**, “Hydrogen Sorption Properties and the Microstructure of the Mg-Al-X System”, MRS Spring Meeting, San Francisco, April 9-13, 2007.
  130. **Velimir R. Radmilović**, Zonghoon Lee, Colin Ophus, Reza Mohammadi, Erik Lubner, Nathan Nelson-Fitzpatrick, Stephane Evoy, Ken Westra, Brian Olsen, Chris Holt, Ulrich Dahmen and David Mitlin, “Fabrication and Testing of NEMS Components Made From Nanocomposite Ni-Mo and Al-Mo Films”, MRS Spring Meeting, San Francisco, April 9-13, 2007.
  131. David Mitlin, Colin Ophus, Zonghoon Lee, Ken Westra, Reza Mohammadi, Erik Lubner, Brian Olsen, Ulrich Dahmen and **Velimir R. Radmilović**, “Integrated AFM Cantilevers-tips Synthesized From Metal Nanocomposites”, MRS Spring Meeting, San Francisco, April 9-13, 2007.
  132. N. Nelson-Fitzpatrick, C. Ophus, E. Lubner, L. Gervais, D. Mitlin, Z. Lee, **V.R. Radmilović**, U. Dahmen and S. Evoy, “Gold-Tantalum Nanocomposite as Structural Material for Resonant NEMS Biosensing Cantilevers”, MRS Spring Meeting, San Francisco, April 9-13, 2007.

133. David Mitlin, Chris Gilkison, Kenneth Bosnick, Colin Ophus, Christopher Harrower, Reza Mohammadi, Ken Westra, Zonghoon Lee, Ulrich Dahmen and **Velimir R. Radmilović**, “Hydrogen Detection using NEMS Devices Fabricated from Tunable Microstructure Pd-Ta Nanocomposites”, MRS Spring Meeting, San Francisco, April 9-13, 2007.
134. Joseph T McKeown, Joshua Sugar, **Velimir R. Radmilović**, Andreas M Glaeser and Ronald Gronsky, “Effects of Ceramic-Metal Interface Structure and Energetics on Phase Patterning by Constrained Spinodal Decomposition”, MRS Spring Meeting, San Francisco, April 9-13, 2007.

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135. D. Bronfenbrenner, R. Gronsky, **V.R. Radmilović**, S. McHugo, “Characterization of As-Deposited Crystalline NiTi Thin Films”, *SMST-2006 - Proceedings of the International Conference on Shape Memory and Superelastic Technologies*, May 7-11, 2006, Pacific Grove, California, USA; Publisher: ASM International, 2008; pp. 357-362.
136. **V.R. Radmilović**, Z. Lee, C. Ophus, L.M. Fischer, N. Nelson-Fitzpatrick, K.L. Westra, S. Evoy, U. Dahmen, and D. Mitlin, “Ultra-hard Nanostructured Al-Mo Thin Films for NEMS Application”, Aluminum 2006 Int. Conference, September 19-22, Essen, Germany.
137. **V.R. Radmilović**, “(111) Fiber Texture Formation in 3C-SiC Films on Si(100) Substrates”, ICSFS-13, 6-10 November, 2006, Bariloche, Argentina. (**Invited talk**)
138. **V.R. Radmilović**, “Core-shell structures and precipitation kinetics of Al<sub>3</sub>(Sc,Zr) L1<sub>2</sub> intermetallic phase in al-rich alloy, 4th Balkan Conference on Metallurgy: Scientific achievements and perspectives of metals industry in South-East Europe, Zlatibor, Serbia and Montenegro; September 27-29, 2006, Zlatibor, Serbia. (**Invited plenary talk**)
139. J.R. Jinschek, K.J. Bathenburg, H.A. Calderon, R. Kilaas, **V.R. Radmilović**, and C. Kisielowski, “Atomic Resolution Electron Tomography Based on Discrete Mathematics”, *Microsc Microanal* 12(Supp 2), 2006, pp. 1566-1567 CD.
140. D. Bronfenbrenner, **V.R. Radmilović**, S. McHugo, R. Gronsky, “Characterization of As-Deposited Crystalline NiTi Thin Films”, *Microscopy and Microanalysis*, vol. 12 (Supp 2), 2006, pp. 708-709 CD.
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142. **V.R. Radmilović**, M. Law, P. Yang, A. Radenović and C. E. Nelson, “EFTEM Imaging of ZnO-TiO<sub>2</sub> Core-Shell Nanowires and TiO<sub>2</sub> Nanotubes”, *Microsc Microanal* 12(Supp 2), 2006, pp. 474-475 CD.
143. D. Bronfenbrenner, **V.R. Radmilović**, S. McHugo, A. Pelton and R. Gronsky, “Characterization of As-Deposited Crystalline Thin Film NiTi”, *The International Conference on Shape Memory and Superelastic Technologies*, May 7-11, 2006, Asilomar Conference Grounds, Pacific Grove, California USA.

144. N. Nelson-Fitzpatrick, L.M. Fischer, S. Evoy, C. Ophus, Y. Wang, D. Mitlin, Z-H. Lee, **V.R. Radmilović** and U. Dahmen, “Fabrication and Characterization of Ultra Thin Resonant Nanocantilevers in Aluminium-Molybdenum Composites”, *Modeling and Simulation of Microsystems*, An Interdisciplinary Integrative Forum on Modeling, Simulation and Scientific Computing in the MEMS, Microelectronic, Semiconductor, Sensors, Materials and Biotechnology fields., May 7 - 11, 2006, Boston, Massachusetts.
145. Thomas M Devine, Yash Bhargava, Shawn Thorne, **Velimir R. Radmilović**, “Synthesis, Structure and Properties of NiO Nanowires”, The Materials Science & Technology, MS&T’06, October 15-19, Cincinnati. (**Invited talk**).
146. Nathaniel Nelson-Fitzpatrick, Colin Ophus, Yongliang Wang, David Mitlin, ZongHoon Lee, **Velimir R. Radmilović**, Ulrich Dahmen and Stephane Evoy, “Fabrication and Characterization of Ultra Thin Resonant Nanocantilevers in Aluminium-Molybdenum Composites”, MRS 2006, Spring meeting, San Francisco.
147. Reza Mohammadi, Colin Ophus, Larry Kostiuik, Stephane Evoy, Ken Westra, Lee M. Fischer, Yongliang Wang, ZongHoon Lee, **Velimir R. Radmilović**, Ulrich Dahmen and David Mitlin, “Gas-Sensor Cantilevers Synthesized from Ni-V-Zr Nanocomposites”, MRS 2006, Spring meeting, San Francisco.
148. Joshua D. Sugar, Joseph T. McKeown, **Velimir R. Radmilović**, R. Ramesh, Andreas M. Glaeser, & Ronald Gronsky, “A Novel Approach to Model Studies of Volumetrically Constrained Spinodal Decomposition”, MS&T meeting Oct 15-19, Cincinnati.
149. **Velimir R. Radmilović**, Michael K. Miller, David Mitlin and Ulrich Dahmen, “Elastic-Strain Induced Cluster Formation in Al-Si-Ge Alloys”, IFES06, Guilin, China July 17-20, 2006.
150. Erdmann Spiecker, **Velimir R. Radmilović** and Ulrich Dahmen, „Novel Double-Wedge Technique for Quantitative Analysis of 3-D Structure in Thin Films”, International Microscopy Conference, IMC16, Sapporo, Japan, 2006. (**Invited talk**)
151. J. T. McKeown, J. D. Sugar, **V.R. Radmilović**, A. M. Glaeser, and R. Gronsky, “Spinodal Decomposition of Geometrically Constrained CuNiFe Thin Films”, Microscopy and Microanalysis 2006, Chicago.

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153. C. Ophus, D. Mitlin, **V.R. Radmilović**, S. Evoy, L. Fischer, and U. Dahmen, “Aluminum-Molybdenum Nanocomposites for MEMS and NEMS Applications”, AVS, Fall 2005.
154. E.A. Stach, D. Ge, M. Jin, A. Minor, J.W. Morris, Jr., V. Gopal, and **V.R. Radmilović**, “Thin Films Stresses and Mechanical Properties XI”, Spring 2005 MRS meeting, April 2005.

155. M.L. Taheri, E. Stach, **V.R. Radmilović**, H. Weiland, A.D. Rollett, “In-situ electron microscopy studies of the effect of solute segregation on grain boundary anisotropy and mobility in an Al-Zr alloy”, Electron Microscopy of Molecular and Ato Quantitative in-Situ Uniaxial Compression Testining at nm-Scale Mechanical Behavior, Chemistry and Structure.
156. Mitra L. Taheri, Eric Stach, **Velimir R. Radmilović**, Hasso Weiland and Anthony D. Rollett, “The Impact of Length and Time Scale Limitations on Solute Drag Theory During Experiment and Modelling of Recrystallization in Aluminum Alloys”, MRS Spring Meeting, San Francisco, 2005.
157. **V.R. Radmilović**, R. Kilaas and U. Dahmen, “Structure and Morphology of Al-Matrix- $\text{Al}_2\text{CuMg}$ -Precipitate Interface”, EUROMAT99; Published in: *Interface Controlled Materials, Volume 9 (2005) 261-266*; Editor(s): M. Rühle, H. Gleiter; Wiley-VCH Verlag GmbH, Weinheim; DOI: 10.1002/352760622X; PrintISBN: 9783527301911; Online ISBN: 9783527606221.
158. **V.R. Radmilović**, “Core-shell structures in a precipitate-hardened Al-Sc-Zr alloys”, Seventh Yugoslav Materials Research Society Conference, “YUCOMAT 2005”, Herceg-Novi, September 12-16, 2005. (**Invited plenary lectures**)
159. **V.R. Radmilović**, A. Tolley and U. Dahmen, “The effect of Zr on Structure, Composition, and Precipitation Kinetics of  $\text{Al}_3(\text{Sc}, \text{Zr})$  Phase in Al Rich Alloys”, European Congress on Advanced Materials and Processes, EUROMAT 2005, 5-8 September, 2005, Prague, Czech Republic.
160. Vesna Maksimović, Zorica Cvijović, **Velimir R. Radmilović**, “Microstructural Characterization of Modified Commercial 2219 Aluminum Alloy”, International Conference on Deformation Processing and Structure of Materials, 26-28 May, 2005, Belgrade, Serbia and Montenegro.
161. **V.R. Radmilović**, A. Tolley and U. Dahmen, “HREM and HAADF Imaging of  $\text{Al}_3(\text{Sc}, \text{Zr})$  Core/Shell Structure”, *Microsc. & Microanal.*, 11 (Suppl 2) 2005, pp. 1712-13.
162. P. Denes, JM Bussat, H. von der Lippe, **V.R. Radmilović**, “High-Speed, High-DQE Detectors For Electron Microscopy”, *Microsc Microanal* 11(Suppl 2), 2005, pp. 1482-83. (**Invited talk**)
163. **V.R. Radmilović**, “(111) fiber texture formation in 3C-SiC films deposited on Si(001) substrates”, IX Conference of the European Ceramic Society, 19-23 June, 2005, Portoroz, Slovenia. (**Invited talk**)
164. A. Tolley, **V.R. Radmilović** and U. Dahmen, “Coarsening kinetics in Al-Sc-Zr alloys”, Solid-solid phase transformations in Inorganic materials 2005, Edited by: J.M. Howe, D.E. Laughlin, J.K. Lee, U. Dahmen, and W.A. Soffa, TMS, 2005, pp. 785-790.
165. D. Mitlin, **V.R. Radmilović**, U. Dahmen, “Overcoming the Solubility Problem Through High-Rate Co-Evaporation of Al-Si” Solid-solid phase transformations in Inorganic materials 2005, Pointe Hilton Resort at Squaw Peak, Phoenix, May 29-June 3, 2005. Invited talk.

166. J.M.K. Wiezorek, C. Yanar, E.A. Stach, V.R. Radmilović and W.A. Soffa, “Hybrid displacive-diffusional transformation in manganese-aluminum base alloys”, Solid-solid phase transformations in Inorganic materials 2005, Edited by: J.M. Howe, D.E. Laughlin, J.K. Lee, U. Dahmen, and W.A. Soffa, TMS, 2005, pp. 523-528.
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169. Cagatay Yanar, Eric Stach, Velimir R. Radmilović, William Soffa and Jorg M. K. Wiezorek, “In-situ Observations of Twin Formation Modes in L1<sub>0</sub>-Ordered Intermetallic MnAl”, Mater. Res. Soc. Symp., 2005, Boston, USA.
170. Jorg M. K. Wiezorek, Cagatay Yanar, Eric Stach, Velimir R. Radmilović and William Soffa, “Observation of a Hybrid Displacive-Diffusional Ordering Phase Transformation Mode in Near Equiatomic MnAl Alloys during in-situ TEM Heating Studies”, Mater. Res. Soc. Symp., 2005, Boston, USA.
171. David Mitlin, Tsung-Yu Pan, Michael L. Santella, Zhili Feng and Velimir R. Radmilović, “The Effect of Spot Friction Welding (SFW) Parameters on the Strength and the Microstructure of Aluminum 6111-T4 Lap Joints”, TMS Annual Meeting, 2005, San Francisco, CA. (**Invited talk**)
172. V.R. Radmilović, “(111) fiber texture formation in 3C-SiC films deposited on (100) Si substrate”, European Ceramic Society Conference, Portoroz, Slovenia, June 17-24, 2005. **Invited talk.**
173. William Soffa, Jorg Wiezorek, Cagatay Yanar and Velimir R. Radmilović, "Hybrid diffusional-displacive transformation in manganese-aluminum-base alloys", Solid-Solid Phase Transformations in Inorganic Materials 2005, Phoenix, Arizona. (**Invited talk**)
174. D. Mitlin, C. Ophus, V.R. Radmilović, T.J. Richardson and U. Dahmen, “Ultra-Hard Al-Si Nanocomposites Synthesized by High-rate Co-evaporation”, AVS 52nd International Symposium and Exhibition, Boston, October 30-November 4, 2005, Boston, USA.
175. V.R. Radmilović, D. Mitlin, U. Dahmen, Nano-Structured Ultra-Hard Al-Si Films Displaying Elevated Temperature Stability, TMS Annual Meeting, 2005, San Francisco, CA. (**Invited talk**)
176. Arnaud Grosjean, Olivier Sanseau, Velimir R. Radmilović, Alain Thorel, “Reactivity and diffusion between La<sub>0.8</sub>Sr<sub>0.2</sub>MnO<sub>3</sub> and ZrO<sub>2</sub> at interfaces in SOFC cores by tem analysis on fib samples tape-casting”, International Conference on Solid State Ionics, Baden-Baden July 17-22, 2005, Proceedings of the 15th International Conference on Solid State Ionics, Part I, pp. 1977-1980.

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178. Yash V. Bhargava, Shawn A. Thorne, Todd S. Mintz, Tzipi Cohen Hyams, **Velimir R. Radmilović**, Yuri Suzuki, Thomas M. Devine, "Synthesis of Magnetic Self-Assembled Nickel-Rich Oxide Nanowires using a Novel Electrochemical Process", S7.4.1 Mater. Res. Soc. Symp. Proc. Vol. 877E © 2005 Materials Research Society, pp. S.7.4.1-S7.4.6.
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181. J.T. Robinson, A. Minor, **V.R. Radmilović**, J.A. Liddle, and O.D. Dubon, "Ordering and Morphological Evolution of Ge Islands on Metal Patterned Si," 16th American Conference on Crystal Growth and Epitaxy, Big Sky, Montana, July 12, 2005.

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184. A. Tolley, **V.R. Radmilović**, U. Dahmen, "On the Effect of Zr on Precipitate Evolution in Al-Sc-Zr alloys", Anales Jornadas CONAMET / SAM 2004, 571-574, 2004.
185. J.T. Robinson, A. Minor, **V.R. Radmilović**, J.A. Liddle, and O.D. Dubón, "Directed assembly of Ge islands on Au-patterned Si", MRS, Boston, MA, 2004.
186. D. Mitlin, A. Misra, **V.R. Radmilović**, R.G. Hoagland, M. Nastasi, H. Kung and J.P. Hirth, "Analysis of Misfit Dislocations in Epitaxial Ni-Cu Bilayers", *TMS Annual Meeting*, 2003, San Diego, CA.
187. A. Tolley, **V. R. Radmilović** and U. Dahmen, "*Solute Segregation In Al<sub>3</sub>(Sc, Zr) Intermetallic Phase In Al-Rich Alloys*"; The thirteenth European Microscopy Congress, Antwerp, Belgium, August 22 - 27, 2004, Volume II, pp. 593-594.
188. Vidyut Gopal, Eric A. Stach, and **Velimir R. Radmilović**, "Additive Nanopatterning by Platinum Deposition in a Dual Beam FIB", *Microsc Microanal* 10 (Suppl 2), 2004, pp. 1120-1121.

189. A. M. Minor, F. Allen, **V.R. Radmilović**, E.A. Stach and T. Schenkel, “Nanoscale holes formed by in situ thin film deposition in a FIB”, *Microsc. and Microanal.*, 10 (Suppl 2), 2004, pp. 1118-1119.
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195. A. Tolley, **V.R. Radmilović** and U. Dahmen, “TEM Analysis of Grain Boundary Precipitate-Free-Zones (PFZs) in AlCuSiGe Alloy”, *Microsc&Microanal* 2004; (Suppl 2), 2004, pp. 313-314; Savannah, Georgia, August 1 – 5.
196. **V.R. Radmilović**, “Ultra-hard nanostructured Al-Si thin films”, Sixth Yugoslav Materials Research Society Conference, “YUCOMAT 2004”, Herceg-Novi, September 13-17, 2004. (**Invited plenary talk**)
197. M.A. O’Keefe and **V.R. Radmilović**, European Congress on Electron Microscopy-ECM 2004, Antwerp, 2004, Volume I, pp. 385-386.
198. David Mitlin; Amit Misra; Michael Nastasi; **Velimir R. Radmilović**; Richard Hoagland; David J. Embury; J. P. Hirth; Terence E. Mitchell, “Formation of Misfit Dislocations in Nano-Scale Ni-Cu Bilayer Films”, TMS, Spring Conference 2004, Charlotte, NC.
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202. V. Maksimović, S. Zec, M.T. Jovanović and **V.R. Radmilović**, "Aging of a commercial Al-Cu-Si based alloy modified with germanium", Proc. YUCOMAT 2003.
203. Tomutsa, L. and **V.R. Radmilović**, "Focussed ion beam assisted three-dimensional rock imaging at submicron scale"; Proceedings of the 2003 International Symposium of the Society of Core Analysts, Pau, France, September 21-24, 2003.
204. T. Schenkel, E. A. Stach, **V.R. Radmilović**, S.-J. Park, and A. Persaud, "Formation of a few nanometer wide holes in membranes with a dual beam FIB", EIPBN 2003, 47<sup>th</sup> International Conf. on electron, ion, proton beam technology and nanofabrication, Tempa 2003.
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56. **V.R. Radmilović**, E. Romhanji, V. Milenković, and D. Nenadić, "Effect of processing parameters on brass formability"; Proceed. Int. Conf. *PLOD-80*, Herceg Novi, (1980), p. 184.
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#### **F. Projects on which V.R. Radmilović participated as an author or co-author (in Serbian)**

1. **V.R. Radmilović**, G. Thomas, G.J. Shiflet, and E.A. Starke, "On the nucleation and growth of Al<sub>2</sub>CuMg (S-phase) in Al-Li-Cu-Mg and Al-Cu-Mg alloys", Lawrence Berkeley National Laboratory, Report No. LBL-26629, 1989, pp. 1-6.
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5. Group of authors: "Brass quality improvement for high speed machining", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - "Sevojno" Rolling Mill Report, Belgrade, 1988, 54 pages.
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7. Group of authors: "Technology development for bimetallic Steel/Pb-bronze strip production for slide-bearing application", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - "Prvi partizan" Report, Titovo Užice, Belgrade, 1986, 52 pages.
8. Group of authors: "Technology development for multilayer Steel/Cu-alloys materials production", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - "Sevojno" Rolling Mill Report, Belgrade, 1986, 24 pages.
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13. Group of authors: "Technology development for multilayer Steel/Cu-alloys materials production", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy - "Sevojno" Rolling Mill Report, Belgrade, 1983, 44 pages.
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**G. Expertise on which V.R. Radmilović participated as an author or co-author (in Serbian)**

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2. **V.R. Radmilović**, H. Gasteiger, P. Ross, "Structure and chemical composition of a supported Pt-Ru electrocatalyst for methanol oxidation", Lawrence Berkeley Laboratory Report No. LBL-36167, UC-404, 1995, pp. 1-29.
3. **V.R. Radmilović**, G. Thomas, "Al-Zr alloys", Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1991, 14 pages.
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5. **V.R. Radmilović**, G. Thomas, "Mg/SiC composites", Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1990, 10 pages.
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9. **V.R. Radmilović**, G. Thomas, “Al-Li alloys”, Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1988, 12 pages.
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13. **V.R. Radmilović**, “Steel specimen characterization fabricated by rotational forging”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1987, 11 pages.
14. Đ. Drobnjak, **V.R. Radmilović**, V. Milenković, E. Romhanji, “Aluminum alloys product development for application in “GOSA” factory”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -“Gosa Institute” Report, Belgrade, 1986, 87 pages
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16. Đ. Drobnjak, **V.R. Radmilović**, Lj. Nedeljković, P. Todorović, “Determination of fracture mechanisms and failure analysis of semi-axles”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1985, 39 pages.
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18. S. Marković, **V.R. Radmilović**, “Mechanical properties and structure of steel castings”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1984, 29 pages.
19. **V.R. Radmilović** and M. Rogulić, “Electron microscopy of rubber with and without teflon addition-Surface morphology analysis”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1984, 23 pages.
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21. **V.R. Radmilović** and M. Rogulić, “Electron microscopy of aged aluminum alloys-I”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Reports, Belgrade, 1983, 16 pages.

#### **H. Department seminars, Colloquiums, Lectures, Invited talks**



1. **Velimir Radmilović**, “Uloga univerzitetskog obrazovanja na konkurentnost i inovativnost”; Konferencija o ekonomiji: Izazovi n.a putu ka Evropskoj uniji; Hotel Splendid, Bečići; 2 i 3 novembar, 2017., Crna Gora. **(Učešće u panel diskusiji po pozivu)**.
2. **Velimir Radmilović**, “Multipurpose Cantilever Sensors”, EPFL, Lausanne; 22 September, 2017. **(Invited Seminar)**.
3. **Velimir Radmilović**, “Multipurpose Cantilever Sensors”, EPFL, Lausanne; 22 September, 2017. **(Invited Seminar)**.
4. **Velimir Radmilović**, “Atomistički fenomeni u faznim prelazima u legurama Al-Li-Sc”, Crnogorska akademija nauka i umjetnosti; 19. oktobra, 2017., Podgorica, Crna Gora. **(Predavanje po pozivu)**
5. **Velimir Radmilović**, “Višenamjenski senzori”, Univerzitet u Nišu; 30 Oktobra, 2017. **(Predavanje po pozivu)**.
6. **Velimir Radmilović**, “Functional Oxide Aperiodic Superlattices”, Wits University, Johannesburg, South Africa; November 11, 2016. **(Invited Department Seminar)**
7. **Velimir Radmilović**, “Zigzag Inversion Domain Boundaries in Functional Oxide Nanowires”, ICN2 Seminar Hall, ICN2 Building, Universitat Autònoma de Barcelona; July 17, 2015. **(Invited Department Seminar)**
8. **V.R. Radmilović**, “Aberration Corrected Electron Microscopy of Nanoheterostructures“, Chalmers University, March 25, 2013. **(Invited talk)**
9. **V.R. Radmilović**, “Microscopy and Spectroscopy of Functional Oxide Nanowires at Atomic Scale”, CENEM, Cluster of Excellence, Universität Erlangen-Nürnberg, April 30, 2015. **(Invited talk)**
10. **V.R. Radmilović**, “Focused Ion Beam: Possibilities and Limitations”, Chalmers Soft Microscopy Summer School, Gothenburg, July 20, 2015. **(Invited talk)**
11. **V.R. Radmilović**, “How Low Can We Go?”, Fourteenth Young Researchers’ Conference – Materials Science and Engineering, which will be held on December 9-11th, 2015. **(Invited plenary talk)**
12. **V.R. Radmilović**, “Aperiodic superlattices in functional oxide nanowires”, Institute VINČA, May 13, 2015. **(Invited lecture)**
13. **V.R. Radmilović**, “Defects in Functional Oxide Nanowires”, CENEM, Cluster of Excellence, Universität Erlangen-Nürnberg, December 4, 2014. **(Invited talk)**

14. **V.R. Radmilović**, “Functional Oxide Aperiodic Superlattices”, Laboratory of Physics of Complex Matter, Ecole Polytechnique Fédérale de Lausanne, EPFL, Lausanne, November 28, 2014 (**Invited talk, Department Seminar**).
  
15. **V.R. Radmilović**, “Zinc Oxide Nanowire Heterostructures”, Max Planck Institute for the Science of Light, Universität Erlangen-Nürnberg, October 24, 2014. (**Invited lecture**)
  
16. **V.R. Radmilović**, “Functional Oxide Nanowires”, University of Genova, Italy, September 10, 2014., October 24, 2014. (**Invited lecture**)
  
- V.R. Radmilović**, “Fucusse ion beam: Experience at NCEM“, University of Erlangen, May 26, 2014. (**Invited tutorial lecture**).
  
17. **V.R. Radmilović**, “Superlubricity in Gold“, University of Erlangen, June 2, 2014. (**Invited lecture**).
  
18. **V.R. Radmilović**, “How Much Do We Know About Friction At Atomistic Level?”, From Solid State to Biophysics, International Conference, June 7-14, 2014, Cavtat, Dubrovnik, Croatia. (**Invited plenary talk**)
  
19. **V.R. Radmilović**, “Aperiodic Superlattices in Functional Oxide Nanowires” Max Planck Institut, Center for Inteligeny Systems, Stuttgart, February 24, 2014. Department Colloquium (**invited talk**).
  
20. **V.R. Radmilović**, “Imaging of Light Elements and Single-Atomic Column Compositional Analysis in Core/shell Nanostructures“, STEM Seminar, Max Planck Institut, Inteligent Systems;Stuttgart, Februar 27, 2014; (**invited talk**).
  
21. **V.R. Radmilović**, “Al<sub>3</sub>(Li,Sc) Core/shell Monodisperse Nanostructures “, January 29, 2014; Department of Physics, University of Trondheim, Norway; (**invited talk**).
  
22. **V.R. Radmilović**, “Functional Oxide Thermoelectrics: The Case of ZnO Nanowires“, January 24, 2014; Department of Physics, University of Trondheim, Norway; (**invited talk**).
  
23. **V.R. Radmilović**, “Is it possible to form monodisperse core/shell L<sub>12</sub> nanostructures in solids?”, European Synchrotron Research Facility (ESRF), Grenoble, France; December 12, 2013.(**invited talk**)
  
24. **V.R. Radmilović**, “Atomic Resolution Microscopy and Spectroscopy of Advanced Materials”, Commissariat à l'énergie atomique (CEA), Grenoble, France; December 11, 2013.(**invited talk**)

25. **V.R. Radmilović**, “What do we know about friction at atomic level in gold?“, The days of condensed matter physics symposium, Serbian Academy of Sciences and Arts, September 10-12, 2013, Belgrade, Serbia. (Invited plenary talk).
26. **V.R. Radmilović**, “What advanced aberration corrected electron microscopy can tell us about friction at atomic level in gold?“, the Scientific Symposium on Applications of Advanced Microscopy Techniques in Materials and Life Science, the National Institute of Chemistry, September 19, 2013, Ljubljana, Slovenia. **(invited talk)**
27. **V.R. Radmilović**, “Aberration Corrected Electron Microscopy of Nanoheterostructures“, Chalmers University, March 25, 2013. **(Invited talk)**
28. **Velimir R. Radmilović**, “Interfaces in Nanostructures“, Narvoslovnotehniška fakulteta, Univerza v Ljubljani, March 15, 2013. **(Invited talk)**
29. **V.R. Radmilović**, “Ispitivanje graničnih površina u nanostrukturama na atomskom nivou“, Crnogorska akademija nauka i umjetnosti (CANU), Podgorica, Crna Gora, 4. Marta, 2013, **(Invited talk)**
30. **V.R. Radmilović**, “Legure sa monodisperznim talozima formiranim reakcijama u čvrstom stanju“, Pristupno predavanje na Odeljenju tehničkih nauka Srpske akademije nauka i umetnosti (SANU), 19.februara 2013.g.
31. **V.R. Radmilović**, “How To Control Phonon Transport in ZnO Thermoelectrics“, Technical University of Dresden, 12/07/2012, Dresden, Germany; **(Department seminar -Invited talk)**
32. **V.R. Radmilović**, “The Role of Transmission Electron Microscopy and Spectroscopy in Development of Advanced Materials“, Fraunhofer IZFP, 12/05/2012, Dresden, Germany; **(Invited talk)**
33. **V.R. Radmilović**, “Thermoelectrics go nano: Controlling thermal conductivity down to atomic level“, University of Erlangen, 11/20/2012, Erlangen, Germany; **(Department seminar -Invited talk)**
34. **V.R. Radmilović**, “Integrative microscopy and collaborative research“, NCEM-DOE Review, August 22-23, 2012, Berkeley, California. **(Invited Plenary talk).**
35. **V.R. Radmilović**, “Phonon Transport Control at Atomic Level in ZnO Nanowires“, From Solid State to Biophysics, International Conference, June 9-16, 2012, Cavtat, Dubrovnik, Croatia. **(Invited plenary talk)**
36. **V.R. Radmilović**, “Can We Use Quantum Physics Tools to Control Thermoelectric Properties”,

37. **V.R. Radmilović**, “Atomic resolution microscopy and spectroscopy of thermoelectric nanowires” Hungarian Microscopy Society Annual Meeting, May 10-12, 2012, Balaton Lake. **(Invited Plenary talk)**
38. **V.R. Radmilović**, “Da li se termoelektrične osobine ZnO nanožica mogu kontrolisati dizajniranjem strukture na atomarnom nivou”, Univerzitet u Beogradu, Fizički fakultet, 25 april, 2012.g. **(Predavanje po pozivu – Fakultetski seminar)**
39. **V.R. Radmilović**, “Application of electron microscopy and spectroscopy in characterization of nanostructures”, The Institute of Physics and Chemistry of Materials of Strasbourg (IPNMS), CNRS and the University of Strasbourg, Strasbourg, France, April 12, 2012. **(Department seminar -Invited talk)**
40. **V.R. Radmilović**, “Application of electron microscopy and spectroscopy in characterization of nanostructures”, University of Ljubljana, Faculty of materials and Metallurgy, Ljubljana, April 3, 2012. **(Department seminar -Invited talk)**
41. **V.R. Radmilović**, “ZnO nanowires for thermoelectric applications”, International Workshop on Modulation and Nanostructuring in Layered Materials, March 29-30, 2012, Institute of Physics, Zagreb, Croatia. **(Invited talk)**
42. **V.R. Radmilović**, “Is it possible to make ZnO oxide thermoelectrics more efficient”, Institut Jozes Stefan, Ljubljana, December 2011. **(Invited talk)**
43. **V.R. Radmilović**, “Electron Microscopy and Spectroscopy of Complex Nanostructures”, Institute for Electron Microscopy of the Technical University Graz (FELMI), Graz, Austria, December 2011. **(Invited talk)**
44. **V.R. Radmilović**, “How to create monodisperse core/shell precipitates in Al alloys using solid state reaction?”, Department Materials Physics, University of Leoben, Leoben, Austria, December 2011. **(Invited talk)**
45. **V.R. Radmilović**, “Polytypoid Nanowires for Thermoelectric Applications”, Physics of Nanostructured Materials, Faculty of Physics, University of Vienna, Vienna, Austria, December 2011. **(Department seminar -Invited talk)**
46. **V.R. Radmilović**, “ZnO Polytypoid Nanowires for Thermoelectric Applications”, Faculty of Technology and Metallurgy University of Belgrade - Nanotechnology and Functional Materials Centre, International Workshop on Processing of Nanostructured Ceramics, Polymers, and Composites, Belgrade, Serbia, Oktobar 2011 **(Invited lecture)**.
47. **V.R. Radmilović**, “Advanced Imaging and Biomedical Applications of Nanomaterials”, SANU, Odeljenje tehničkih nauka i Odeljenje medicinskih nauka, 25. Oktobar 2011. **(Invited talk)**

48. Colin Ophus, Maarten de Jong, Mark Asta, Ulrich Dahmen, **Velimir R. Radmilović**, “Coherent precipitation in ternary Al alloys: insights from first-principles modeling”, MS&T2011, Symposium in honor of John Cahn's receipt of the Gibbs prize. (**Invited lecture**).
49. Colin Ophus, Maarten De Jong, Mark Asta, Marcel Sluiter, Ulrich Dahmen, **Velimir R. Radmilović**, “Coherent Precipitation in Ternary Al Alloys”, AIP Conference Proceedings 2012, American Institute of Physics, Ste. 1 NO 1 Melville NY 11747-4502 United States, 2012.
50. **V.R. Radmilović**, “Why Do We Need Aberration Corrected Microscopy”, University of Novi Sad, May 18, 2011, Novi Sad, Serbia, (**Invited lecture**).
51. C Ophus, A Gautam, E Marquis, **V.R. Radmilović**, U Dahmen, M Asta, “Combined Experimental and Theoretical Studies of Core-Shell Nanostructures in Al-Sc-Li Alloys”, APS Meeting Abstracts, 2011, Volume 1, p. 32004.
52. Mark Asta, Colin Ophus, Abhay Raj Singh Gautam, Marta Rossell, Emmanuelle Marquis, **Velimir R. Radmilović**, Uli Dahmen, “Computational and Experimental Investigations of Core-Shell Precipitates in Al-Sc-Li Alloys”, Minerals, Metals and Materials Society/AIME, 420 Commonwealth Dr., P. O. Box 430 Warrendale PA 15086 United States.[np]. Feb; (**Invited lecture**).
53. **V.R. Radmilović**, “Electron Microscopy in Materials Science and Engineering”, Inauguration Ceremony for the membership in Academy of Engineering Sciences of Serbia, March 30, 2011, Belgrade, Serbia, (**Invited lecture**).
54. **V.R. Radmilović**, “Entropy Driven Nucleation of Monodisperse Core/shell Nanostructures”, Oxford University, Department of Materials, Oxford, December 9, 2010 (**Invited lecture**).
55. **V.R. Radmilović**, “High Resolution Microscopy and Spectroscopy of Monodisperse Al<sub>3</sub>(LiSc) Core/shell Nanostructures”, Department of Materials, Imperial College, December 7, 2010 (**Invited lecture**).
56. **V.R. Radmilović**, “High Resolution Microscopy and Spectroscopy of Monodisperse Al<sub>3</sub>(LiSc) Core/shell Nanostructures”, Lawrence Berkeley National Laboratory, National Center for Electron Microscopy, December 16, 2010 (**Invited lecture**).
57. **V.R. Radmilović**: “Graphene: A New Paradigm of Nanomaterials”, Faculty of Technology and Metallurgy University of Belgrade - Nanotechnology and Functional Materials Centre, International Workshop on Processing of Nanostructured Ceramics, Polymers, and Composites, Belgrade, Serbia, November 29 - 30, 2010 (**Invited lecture**).
58. **V.R. Radmilović**: “Converging experiments and first principles calculations: Nucleation of complex L1<sub>2</sub> nanostructures”, University of Montenegro, Podgorica, November 2, 2010, (**Invited lecture**).
59. **V.R. Radmilović**, “Imaging, spectroscopy and first-principles calculation of L1<sub>2</sub> nanostructures”, PUC University, Rio de Janeiro, Brazil, September 24, 2010 (**Invited lecture**).

60. **V.R. Radmilović**, “Electron Microscopy and Spectroscopy in Nanostructure Characterization”, Serbian Academy of Sciences and Arts (SASA), June 14, 2010, (**Invited lecture**).
61. **V.R. Radmilović**, “High-resolution electron microscopy and spectroscopy of nanostructures”, Department of Physics, University of Wisconsin, April 2010, (**Invited lecture\_Department Colloquium**).
62. **V.R. Radmilović**, “Core/shell L<sub>12</sub> precipitates in Al-rich alloys”, Materials Science and Engineering, Stanford University, February 2010, (**Invited lecture\_Department Colloquium**).
63. **V.R. Radmilović**, "The use of high-resolution electron microscopy and spectroscopy to study core/shell nanostructures embedded in solids", Erlangen University, 2009 (**Department seminar,Invited lecture**).
64. **V.R. Radmilović**, “Nanocomposite Thin Films for MEMS and NEMS Applications“, Institute of Physics, Belgrade, Serbia. (**Invited lecture**)
65. **V.R. Radmilović**, “TEAM Project: Application of aberration corrected microscopy in characterization of nanostructures”, ITS-SASA, Belgrade, Serbia. (**Invited lecture**)
66. **V.R. Radmilović**, “Can metallic thin films be competitive to Si for MEMS and NEMS applications” ", Erlangen University, 2009 (**Graduate seminar series, Invited lecture**).
67. **V.R. Radmilović**, "Nanostructures Embedded in Solids", University of Ljubljana, Institute Jozef Stefan, June 13, 2008 (**Department seminar,Invited lecture**).
68. **V.R. Radmilović**, "Nanostructures Embedded in Solids", University of Nova Gorica, Ajdofčina, Slovenija, June 12, 2008 (**Department seminar,Invited lecture**).
69. **V.R. Radmilović**, “Coarsening of Core/Shell Nanostructures Embedded in Solids”, Electron Microscopy Laboratory, University of Vienna, June 2007, (**Invited lecture**).
70. **V.R. Radmilović**, "Quantitative in-situ uniaxial compression testing of Nanostructured Pillars in a TEM". Deptment of Physics, University off Vienna, June 2007. (Department seminar, **Invited lecture**).
71. **V.R. Radmilović**, "Can metallic thin films be competitive to silicon for NEMS applications". Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia, June 2007. (Department seminar, **Invited lecture**).
72. **V.R. Radmilović**, "Can metallic thin films be competitive to silicon for NEMS applications". University of Montenegro, Podgorica, Montenegro, June 2007. (Department seminar, **Invited lecture**).
73. **V.R. Radmilović**, “Texture formation in polar crystals”, Department of Physics, University of Antwerp, Antwerp, Belgium, June 2006 (**Invited lecture**).
74. **V.R. Radmilović**, “Precipitation kinetics in AlScZr alloys”, National Institute for Materials Science, Tskuba, Japan, August 2006, (**Invited lecture**).

75. **V.R. Radmilović**, “Precipitation phenomena in AlScZr alloys”, Purdue University, October 2006, (Department seminar, **Invited lecture**).
76. **V.R. Radmilović**, “Alloy Design”, March 2005, University of New Orleans, New Orleans, Louisiana, (**Invited lecture**).
77. **V.R. Radmilović**, “Transmission electron aberration corrected microscope-a new era in biological and materials sciences”, Electron microscopy society of Serbia and Montenegro & Medical school, University of Belgrade, July 2005, (**Invited lecture**).
78. **V.R. Radmilović**, “Core-Shell precipitate structure in AlScZr alloys”, University of Montenegro, Podgorica, Montenegro, September 2005, (**Invited lecture**).
79. **V.R. Radmilović**, “Formation of <111> fiber texture in  $\beta$ -SiC films deposited on Si(100) substrates”, University of Alberta, Edmonton, October 2005 (**Invited lecture**).
80. **V.R. Radmilović**, “Precipitation hardening phenomena in Al-Si-Ge and Al-Cu-Si-Ge alloys”, September 2004, Delft University, Delft, Holland, (**Invited lecture**).
81. **V.R. Radmilović**, “Nanopatterning by platinum deposition in a dual beam FIB”, University of Belgrade, Belgrade, Serbia, September 2004, (**Invited lecture**).
82. **V.R. Radmilović**, “Structure and properties of nanovires”, University of Montenegro, Podgorica, Montenegro, September 2004, (**Invited lecture**).
83. **V.R. Radmilović**, “Fundamentals of Alloy Design”, October 2003, Vandebilt university, Neshville, Tennessee, (**Invited lecture**).
84. **V.R. Radmilović**, “TEM and CALPHAD assisted alloy design”, Max Planck Institute, Dusseldorf, August 2002. (**Invited lecture**).
85. **V.R. Radmilović**, “TEM and CALPHAD assisted alloy design”, University of Pretoria, Pretoria, South Africa, August 2002. (**Invited lecture**).
86. **V.R. Radmilović**, “High resolution electron microscopy assisted alloy design”, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, University of California, Berkeley, February 2001 (**invited lecture**).
87. **V.R. Radmilović**, “Precipitation and strengthening phenomena in Al-Si-Ge and Al-Si-Ge-Cu alloys”, Hungarian academy of science, Budapest, April 2001(**invited lecture**).
88. **V.R. Radmilović**, “Microalloying in aluminum alloy design”, University of Montenegro, Podgorica, Montenegro, Yugoslavia, May 2001 (**invited lecture**).
89. **V.R. Radmilović**, “Microstructural characterization of Platinum based electrocatalysts”, Materials Science Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, June 2001.
90. **V.R. Radmilović**, “Structure and morphology of S-phase precipitates in aluminum alloys”, University of Pittsburgh, School of Engineering, March 2000 (**invited lecture**).
91. **V.R. Radmilović**, “Crystal and interfaces structure determination of  $Al_2CuMg$  precipitate in aluminum by quantitative high resolution electron microscopy”, University of Toronto, Faculty of Applied Science and Engineering, March 2000 (**invited lecture**).

92. **V.R. Radmilović**, “Structure determination and structure refinement of Al<sub>2</sub>CuMg precipitates by quantitative high resolution electron microscopy”, Aluminum company of America, ALCOA Technical Center, Pittsburgh, PA, March 2000 (**invited lecture**).
93. **V.R. Radmilović**, “Precipitation phenomena in super-saturated solid solutions”, Oak Ridge National Laboratory, Oak Ridge, Tennessee, May 2000.
94. **V.R. Radmilović**, “Structure of S-phase in Al-based alloys”, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, University of California, Berkeley, October 1998 (**invited lecture**).
95. **V.R. Radmilović**, “Physical metallurgy fundamentals of Al-Li based alloys”, University “St. Kiril & Metodij”, Skopje, Macedonia, May 1997. (**Invited lecture**).
96. **V.R. Radmilović**, “High resolution electron microscopy - Application in materials science”, University of Maryland, August 1997 (**invited lecture**).
97. **V.R. Radmilović**, “Structure and chemical composition of Pt-Ru catalysts”, University of Pittsburgh, USA, September 20, 1994. (**Invited lecture**).
98. **V.R. Radmilović**, “Structure, morphology and distribution of Pt-Ru nanoparticles supported on carbon black”, Materials Science Division, Lawrence Berkeley Laboratory, University of California, Berkeley, USA, August 1994.
99. **V.R. Radmilović**, “S-phase precipitation in Al-based alloys”, General Motors-Technical Center, Detroit, August 1997 (**invited lecture**).
100. **V.R. Radmilović**, “Atomic resolution microscopy of Pt-Ru nanoparticles - Fresnel effect”, National Center for Electron Microscopy, University of California, Berkeley, USA, September 1994.
101. **V.R. Radmilović**, “Precipitation sequences in Al based alloys”, Allied Signal research laboratory, New Jersey, July 1993. (**Invited lecture**).
102. **V.R. Radmilović**, “Al-Nd-Zn nanophase particles in Al based alloys”, University of Pittsburgh, USA, August 1993. (**Invited lecture**).
103. **V.R. Radmilović**, “Non stoichiometry of Al-Zr intermetallic compounds”, Allied Signal research laboratory, New Jersey, July 1994. (**Invited lecture**).
104. **V.R. Radmilović**, “Aluminium matrix based composite materials”, Technical Faculty Bor, Belgrade University, March 1992. (**Invited lecture**).
105. **V.R. Radmilović**, “Metal matrix composites-State of art and contemporary trends”, University of Montenegro, Podgorica, March 1992. (**Invited lecture**).
106. **V.R. Radmilović**, “Electron microscopy studies of precipitation in aluminum alloys”, University of Pittsburgh, USA, June 1992. (**Invited lecture**).
107. **V.R. Radmilović**, “High resolution electron microscopy studies of S-phase (Al<sub>2</sub>CuMg) in aluminum alloys”, McMaster University, Canada, July 1992. (**Invited lecture**).
108. **V.R. Radmilović**, “Equilibrium and non-equilibrium phases in Al-Zr alloys”, University of Toronto, Canada, June 1992. (**Invited lecture**).



109. **V.R. Radmilović**, “Precipitation phenomena in aluminum lithium alloys”, ALCOA-Aluminum Company of America, Research and Development Center, Pittsburgh, USA, August 1992. (**Invited lecture**).
110. **V.R. Radmilović**, “Coherent and Non coherent Al<sub>3</sub>Zr precipitates in Al-Zr and Al-Li-Zr alloys”, Allied Signal research laboratory, New Jersey, June 1992. (**Invited lecture**).
111. **V.R. Radmilović**, “High resolution electron microscopy as a microbeam analytical tool”, QMA'92, 40th Scottish summer school on quantitative microanalysis, Dundee, Scotland, 1992. (**Invited lecture**).
112. **V.R. Radmilović**, “Al-Zr alloys”, University of California, Berkeley, Professor Gareth Thomas’ research group seminar, September 1991.
113. **V.R. Radmilović**, “Lithium detection using critical voltage experiment”, University of Virginia, Charlottesville, August, 1988 (**invited lecture**).
114. **V.R. Radmilović**, “Ordering reaction in Al-Li base alloys”, University of Pittsburgh, Pittsburgh, PA, September, 1988 (**invited lecture**).
115. **V.R. Radmilović**, “Spinodal decomposition and heterogeneous precipitation in Al-Li-based alloys”, Serbian Chemical Society, Metallurgical section, Belgrade, October 1988. (**Invited lecture**).
116. **V.R. Radmilović**, “Precipitation reactions in Al-Li alloys”, University of California, Berkeley, September 1987.
117. **V.R. Radmilović**, “Current objective of Al-Li alloys”, Exxon research laboratory, New Jersey, May 1987. (**Invited lecture**).
118. **V.R. Radmilović**, “Recent results in Al-Li alloy development”, Serbian Chemical Society, Metallurgical section, Belgrade, October 1987. (**Invited lecture**).
119. **V.R. Radmilović**, Series of lectures in the course: “Scanning and transmission electron microscopy”, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Belgrade, June 1983.

#### **I. Text-books, lecture notes, chapters in the books and invited papers**

1. **V.R. Radmilović**, "Phase transformations in solids", Authorized Lecture notes, (1993), 284 pages, Department of Physical Metallurgy, University of Belgrade.
2. **V.R. Radmilović**, "Fundamental of Crystallography and Diffraction", Authorized Lecture notes, (1993), 96 pages, Department of Physical Metallurgy, University of Belgrade.
3. N.M. Marković, **V.R. Radmilović** and P.N. Ross, “Physical and Electrochemical Characterization of Bimetallic Nanoparticle Electrocatalysts”; in: Catalysis and Electrocatalysis at Nanoparticle Surfaces, Eds.: E. Savinova, K. Vayenas and A. Wieckowski, Marcel Dekker Publ., 2003, pp. 311-342. (**Invited chapter**)
4. Albert Dato, **Velimir R. Radmilović** and Michael Frenklach, “Synthesis, Characterization, and Biomedical Applications of Graphene”, in: Carbon Nanomaterials, Edited by Challa S. S.

R. Kumar, ISBN: 9783527321698; Wiley-VCH Verlag GmbH; 2011, Binding: Hardback, 482 pages. (**Invited chapter**)

5. **Velimir R. Radmilović**, “Imaging of Core/shell Nanostructures Embedded in Solid”, European Microscopy Society; EMS Yearbook 2013, pp. 18-20; ISSN: 1609-1191. (<http://www.euremicsoc.org/yearbook.html>). (**Invited paper**)

## **J. Patents and Patent Disclosures**

1. D. Mitlin, C. Ophus, S. Evoy, **V.R. Radmilović**, R. Mohammadi, K. Westra, N. Nelson-Fitzpatrick, and Z. Lee: “Nanocomposite films”, 2010, United States patent No. 7758708; issued on July 20, 2010.
2. Christopher Harrower, David Mitlin, Erik Lubber, Colin Ophus, Brian Olsen, **Velimir R. Radmilović**, “AFM Probes Fabricated from Cu-Hf Thin Films”, U.S. Provisional Patent Application Serial No. 61/317,595.
3. E.J. Lubber, C. Ophus, D. Mitlin, B.C. Olsen, C. Harrower, **V.R. Radmilović**, “Micro/Nano Devices Fabricated from Cu-Hf Thin Films”, US Provisional Patent Application, ser. no. 13/072,343; filed Mar. 25/11(2008062). **United States patent No. 8458811**, issued on June 6, 2013.01/12/12 - 20120011624
4. David Mitlin, Stephane Evoy, **Velimir R. Radmilović**, Reza Mohammadi, Ken Westra, Nathaniel Nelson-Fitzpatrick, Zonghoon Lee: Nanocomposite films. The Governors Of The University Of Alberta July 2008: **United States patent No. 20080171219**.
5. T. Devine, Y. Suzuki, T.S. Mintz, Y.B. Bhargava, S. Thorne, and **V.R. Radmilović**, “Oxide nanowires”, U.S. patent disclosure submitted, patent application in progress, (2005).
6. **V.R. Radmilović**, D. Mitlin and U. Dahmen, “Ultra-Hard, Ductile and Conductive Al-Si Nanocomposites Synthesized by High Rate Co-Evaporation”, U.S. patent disclosure submitted, patent application in progress, (2005).
7. D. Mitlin, C. Ophus, S. Evoy, **V.R. Radmilović** and U. Dahmen, “NEMS cantilevers synthesized from atomically-smooth amorphous-nanocrystalline aluminum alloys”, patent disclosure submitted, patent application in progress, (2006).
8. D. Mitlin, M. Brougham, C. Ophus, C. Harrower, J. Fraser Forbes and **V.R. Radmilović**, “A method for Room-temperature synthesis of highly crystallographically oriented nanocrystalline AlN films using an amorphous nanocrystalline metallic AlMo substrate”, 2007, patent pending.
9. Thomas Duden and **Velimir R. Radmilović**, “Interferometric Tapered Fiber Based Displacement Sensor for Nanostructure Characterization”, U.S. patent disclosure submitted, patent application in progress, (2008).
10. M. Freklach, A. Dato, **V.R. Radmilović**, and Z. Lee, “Substrate-Free Gas-Phase Synthesis of Graphene Sheets in a Microwave Plasma Reactor”, patent application in progress, (2008-05-18), UC Case No: B09-050-1 PRV. Application Number: 12782596.

