Kratak CV

Akademik Velimir R. Radmilović

Srpska akademija nauka i umetnosti, Knez Mihailova 35, 11000, Beograd, Srbija
i
Tehnološko-metalurški fakultet, Univerzitet u Beogradu, Karnegijeva 4, 11120 Beograd, Srbija

Akademik Radmilović je završio redovne studije, magistrirao i doktorirao na Tehnološko-metalurškom fakultetu u Beogradu, na Katedri za fizičku metalurgiju. Na postdoktorskim studijama je bio na Fakultetu za nauku o materijalima Kalifornija univerzitetu u Berkliju 1986.g, a na istom univerzitetu bio je gostujući profesor 1987.g. Na TMFu je biran u sva nastavnička zvanja, za docenta 1985.g., vanrednog profesora 1991.g., a za redovnog profesora 1995.g. Kao gostujući profesor boravio je 1992.g. na Picburg univerzitetu u Pensilvaniji. Godine 1999. odlazi po pozivu u Nacionalni centar za elektronsku mikroskopiju Lorens Berkli nacionalne laboratorije, Kalifornija univerziteta u Berkliju, gdje je do 2011. godine bio vodeći istraživač. Na poziv Tehnološko-metalurškog fakulteta, 2011.g. vraća se u Beograd i pridružuje, kao naučni savjetnik, Centru za nanotehnologije i funkcionalne materijale. Istraživački interes prof. Radmilovića fokusiran je na fazne prelaze u čvrstom stanju i granične površine, međuzavisnost strukture i osobina materijala, primjenu visokorezolucione transmisione mikroskopije i spektroskopije u studijama nanomaterijala, kao što su: nanožice, nanocijevi, tanki filmovi, katalizatori, termoelektrični materijali, solarne ćelije, itd. Bibliografija prof. Radmilovića sadrži 850 jedinica. Do sada je objavio 241 rad u međunarodnim časopisima sa recenzijom (201 sa SCI liste), 19 u domaćim časopisima, 341 rad saopšten i/ili štampani u zbornicima međunarodnih konferencija, od kojih 95 kao plenarni ili predavač po pozivu, 61 na domaćim konferencijama, od čega je 7 plenarnih ili predavanja po pozivu; održao je 131 predavanja, seminara i kolokvijuma (118 po pozivu) na najuglednijim univerzitetima i istraživačkim centrima u svijetu, ima 2 međunarda patenta i 8 patentnih prijava. Rukovodio je izradom 3 projekta i bio saradnik na 17 projekata, koje je finansiralo Ministarstvo za nauku Vlade Srbije. Rukovodio je izradom 13 projekata i bio saradnik na 8 projekata čiji je naručilac bila i koje je finansirala domaća industrija. Urednik je dvije monografije, čiji je izdavač Srpska akademija nauka i umjetnosti: ”Fascinantni svijet nanonauka i nanotehnologija” i ”Energija kao jedan od najvećih izazova čovječanstva u 21. vijeku”. Prema SKOPUS bazi podataka njegovi radovi su citirani 11106 puta sa *h* indeksom 50. Prema Gugl Skolar bazi podataka njegovi radovi su citirani 13228 puta sa *h* indeksom 56. Prema Veb of Sajens bazi podataka radovi su mu citirani 9410 puta sa *h* indeksom 47. Član je uređivačkih odbora nekoliko časopisa iz oblasti metalurgije i materijala, i recenzira radove za brojne ugledne časopise u svijetu. Dobitnik je brojnih profesionalnih priznanja: Nagrada grada Beograda za nauku i tehniku, Predavač godine po izboru Evropskog društva za mikroskopiju, Godišnja nagrada za najbolji rad Evropskog društva za mikroskopiju, Nagrada za fotografiju Američkog mikroskopskog društva i Evropskog društva za mikroskopiju, Nagrada Lorens Berkli nacionalne laboratorije Kalifornija univerziteta u Berkliju za izuzetne doprinose nauci, Nagrada Ministarstva za nauku i prosvjetu Vlade Srbije za najuspešnije istraživače, Nagrada Društva za materijale Srbije za izuzetan i trajan doprinos nauci i inženjerstvu materijala, Povelja Srpskog keramičkog društva za doprinos nauci, Povelja Srpskog hemijskog društva, itd. Redovni je član Srpske akademije nauka i umetnosti i počasni član Akademije inženjerskih nauka Srbije.

CV and list of publications

CURRICULUM VITAE

Professor dr. Velimir R. Radmilović, Scientific advisor

University of Belgrade, Faculty of Technology and Metallurgy, Nanotechnology and Functional Materials Lab., 11120 Belgrade, Serbia
Tel. +381-11-3303-850 or +381-11-3370-469
VRRadmilovic@tmf.bg.ac.rs

Education

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

Expirience

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 ***Visiting Scientist***, University of California, Berkeley, Department of Materials Science and Mineral Engineering
1985-1990 ***Assistant Professor***, University of Belgrade, Department of Physical Metallurgy

Honors and Awords

- Serbian Academy of Sciences and Arts, 2021, Full member.
- Academia Scientiarum et Artium Europea (European Academy of Sciences and Arts), Salcburg, 2018, Member.
- 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, Forign member.
- The outstanding scientist award from the Ministry of Science and Education of Government of Serbia in A1 category, for the period 2002 - 2003.
- Serbian Chemica Society (SCS) diploma award as a recognation 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, 2013-2019.

- 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 (EMS)
- 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 Metallurgy and Engineering, etc.; Reviewer for National Science Foudation, 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, Fullerens and Nanotubes Review. The Gareth Thomas Materials Excellence Award for UC Berkeley and UC San Diego graduate student - reviewing committee member.

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

- German Physical Society Conference, REGENSBURG2019; Topical Session (Symposium of MM): Correlative and in-situ Microscopy in Materials Research.; April 1 - 5, 2019; Regensburg, Gerrmany; Session Chair.
- International Conference: Electron Microscopy of nanostructures (ELMINA2018), Belgrade, SERBIA, August 27 - 29, 2018; Conference Chair.
- 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 Sptember 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, 1996-2018; 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
- 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, Physical Metallurgy of Welding, Solid State Phase Transitions, etc.

Bibliography

850 units:

- 251 papers in international peer review journals (197 SCI list journals)
- 19 papers in national journals
- 341 papers in conference proceedings and books of abstracts of international meetings (95 plenary or/and invited talks)

- 61 in conference proceedings and books of abstracts of national meetings (3 invited talks)
- 20 research projects
- 21 industrial projects
- 131 invited lectures, department seminars, and colloquiums at universities, industry and research labs worldwide.
- 6 lecture notes, chapters in books, and invited papers
- 2 worldwide patents and 8 patent applications

Citations, h-index on October 31, 2023:

Scopus: (~40 - Average citations per journal article)

10144 / h-index: 48; without self citations of all authors.
11106 / h-index: 50; total citations.

Google scholar: (~50 - Average citations per journal article)

13228/ h-index: 56; i10-index: 155.

Web of Science: (~44 - Average citations per journal article)

9195 / h-index: 47; without self-citations of all authors.
9374 / h-index: 47; total citations.

Velimir Radmilović – Publications

A. Paper published in peer review international journals

2023

1. D. Chatin, **V.R. Radmilović**, P. Wynblatt, U. Dahmen, "Atomic structure and macroscopic orientation relationship of Ag/Ni interface", *Physical Review Letters*, 2023; ***submitted***.

2. Snezana Lj Gojkovic; Maja Obradovic; Uroš Lačnjevac; Vuk Radmilović; Aleksandra Gavrilović-Wohlmuther; Janez Kovač; Jelena Rogan; **Velimir Radmilović**, "Palladium-copper bimetallic surfaces as electrocatalysts for the ethanol oxidation in an alkaline medium", *Journal of Electroanalytical Chemistry*, 2023; ***accepted***. ***(Impact Factor, IF= 4.598)***

2021

3. Lu Jiang, **Velimir R Radmilović**, Julian Sabisch, Liang Qi, Andrew M Minor, Daryl C Chrzan, and Mark Asta, "Twin nucleation from a single <c+a> dislocation in hexagonal close-packed crystals", *Acta Materiali*a, 202 (2021) 35-41; DOI: 10.1016/j.actamat.2020.10.038; ISSN: 1359-6454. ***(Impact Factor, IF= 7.720)***

4. Daniel M. Mijailovic, Vuk V. Radmilović, Uros C. Lacnjevac, Dusica B Stojanovic, Karen Bustillo, Vladimir Jovic, **Velimir Radmilović** and Petar Uskokovic, "Tetragonal $CoMn_2O_4$ nanocrystals on electrospun carbon fibers as a high–performance battery–type supercapacitor electrode material", *Dalton Transactions*, 50 (2021) 15669 - 15678; DOI: 10.1039/D1DT02829D; ISSN: 1477-9226. ***(Impact Factor, IF= 4.390)***

2020

5. V.R. Djokić, A.D. Marinković, R.D. Petrović, O. Ersen, S. Zafeiratos, M. Mitrić, C. Ophus, **V.R. Radmilović** and Dj.T. Janaćković, "Highly active rutile TiO_2 nanocrystalline photocatalysts", *ACS Applied Materials and Interfaces*, 12 (2020) 33058-33068. DOI: 10.1021/acsami.0c03150; ISSN: 1944-8244 (print edition); ISSN: 1944-8252 (web edition) ***(Impact Factor, IF= 8.330)***

6. D.M. Mijailović, V.V. Radmilović, U.Č. Lačnjevac, V.D. Jović, **V.R. Radmilović**, R.S. Uskoković, "Core–shell carbon fiber@$Co_{1.5}Mn_{1.5}O_4$ mesoporous spinel electrode for high performance symmetrical supercapacitors", *Applied Surface Science,* 534 (2020) 147678. DOI: 10.1016/j.apsusc.2020.147678; ISSN: 0169-4332. ***(Impact Factor, IF=* 6.182*)***

7. Irena Nikolić, Dijana Đurović, Milena Tadić, Vuk V. Radmilović, Ivona Janković-Častvan, **Velimir R. Radmilović**, "Adsorption kinetics, equilibrium, and thermodynamics of Cu^{2+} on

pristine and alkal" , *Chemical Engineering Communications*, 207 (2020) 12783-12974; DOI: 10.1080/00986445.2019.1685986; ISBN: 0098-6445. (***Impact Factor, IF= 1.802***)

8. Irena Nikolić, Dijana Đurović, Smilja Marković, Ljiljana Veselinović, Ivona Janković-Častvan, Vuk V. Radmilović,; **Velimir R Radmilović**, "Alkali activated slag cement doped with Zn-rich electric arc furnace dust", *Journal of Materials Research and Technology,* 9 (2020) 12783-12794, DOI: 10.1016/j.jmrt.2020.09.024; ISSN: 2238-7854, (***Impact Factor, IF*= 5.289**)

2019

9. Irena Nikolić, Smilja Marković, Ljiljana Veselinović, Vuk V. Radmilović, Ivona Janković-Častvan, **Velimir R. Radmilović**, "Enhanced sorption of Cu^{2+} from sulfate solutions onto modified electric arc furnace slag", *Materials Letters*, 235 (2019) 184 - 188; ISSN 0167-577X. ***(Impact Factor, IF= 3.204)***

10. Yi Hou, Chen Xie, Vuk V. Radmilovic, Bianka Puscher, Mingjian Wu, Thomas Heumüller, André Karl, Ning Li, Xiaofeng Tang, Wei Meng, Shi Chen, Andres Osvet, Dirk Guldi, Erdmann Spiecker, **Velimir R. Radmilović**, and Christoph J. Brabec, "Assembling Mesoscale Structured Organic Interfaces in Perovskite Photovoltaics", *Advanced Materials,* 31 (2019) 1806516. DOI.org/10.1002/adma.201806516, ISSN 0935-9648. ***(Impact Factor, IF= 27.398)***

11. M.N. Krstajić Pajić, S.I. Stevanović, V.V. Radmilović, A. Gavrilović-Wohlmuther, P. Zabinski, N.R. Elezović, **V.R. Radmilović**, S.L. Gojković and V.M. Jovanović, "Pt-Au/C Nanocatalyst Prepared by Water-In-Oil Microemulsion Method", *Applied Catalysis B: Environmental*., 243 (2019) 585–593; DOI: 10.1016/j.apcatb.2018.10.064; ISSN 0926-3373. ***(Impact Factor, IF*= 16.683*)***

12. V.V. Radmilović, **V.R. Radmilović**, "Defect Formation During Synthesis and Welding of Silver Nanowires for Solar Cell Applications", *Metallurgical & Materials Engineering*, 25 (2019) 287 - 299. DOI: 10.30544/452; ISSN: 2217-8961. ***(Impact Factor, IF*= N/A*)***

2018

13. Irena Nikolić, Milena Tadić, Ivona Janković - Častvan, Vuk V. Radmilović, **Velimir R. Radmilović**, "Durability of alkali activated slag in a marine environment: influence of alkali ion", *Journal of the Serbian Chemical Society*, 83 (2018) 1143–1156, (Online). ISSN 0352 5139 (Print); ISSN 1820-7421 (Online); DOI: https://doi.org/10.2298/JSC180328057N. ***(Impact Factor, IF= 0.828)***

14. Lunet Luna, David Gardner, **Velimir R. Radmilović**, Roya Maboudian, Carlo Carraro, "Atomic-scale electronic characterization of defects in silicon carbide nanowires by electron energy loss spectroscopy", *Journal of Physical Chemistry C*, 122 (2018) 12047-12051; DOI: 10.1021/acs.jpcc.8b01661; ISSN: 1932-7447. ***(Impact Factor, IF= 4.309)***

15. Mila N. Krstajić Pajić, Sanja I. Stevanović, Vuk V. Radmilović, Aleksandra Gavrilović-Wohlmuther, **Velimir R. Radmilović**, Snežana Lj. Gojković and Vladislava M. Jovanović, "PtAu catalyst with enhanced activity for formic acid oxidation", *Journal of Materials Protection*, 59 (2018) 159-166; DOI: 10.5937/ZasMat1802159K; ISSN 0351-9465. ***(Impact Factor, IF= N/A)***

2017

16. 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*. DOI: 10.1088/1361-6528/aa7eb; *Online ISSN: 1361-6528; Print ISSN: 0957*-4484. ***(Impact Factor, IF= 3.404)***

17. Nevenka R. Elezović, P. Zabinski , P. Ercius, M. Wytrwal, **Velimir R. Radmilović**, Urošč C. Lačnjevac , Nedeljko V. Krstajić, "High surface area Pd nanocatalyst on core-shell tungsten Erickbased support as a beneficial catalyst for low temperature fuel cells application", *Electrochimica Acta*, 247 (2017) 674-684. DOI: 10.1016/j.electacta.2017.07.066; ISSN: 0013-4686. ***(Impact Factor, IF= 5.116)***

18. 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. DOI: 10.1002/pc.24079; ISSN: 0272-8397. ***(Impact Factor, IF= 1.943)***

2016

19. M.N. Pajić-Krstajić, S.I. Stevanović, V.V. Radmilović, J.R. Rogan, **V.R. Radmilović**, S.L. Gojković and V.M. Jovanović, "Pt/C Nanocatalysts for Metanol Electrooxidation Prepared by Water-In-Oil Microemulsion Method", *Journal of Solid State Electrochemistry*, 20 (2016) 3405-3414. DOI: 10.1007/s10008-016-3319-z; ISSN: 1432-8488. ***(Impact Factor, IF= 0.678)***

20. M.N. Pajić-Krstajić, 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 0926-3373. ***(Impact Factor, IF= 9.446)***

21. 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. DOI: 10.1016/j.matlet.2016.04.121; ISSN: 0167-577X. ***(Impact Factor, IF= 2.771)***

22. 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. ***(Impact Factor, IF= 9.446)***

23. Irena Nikolić, Ana Drinčić, Dijana Đurović, 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. DOI:10.1016/j. conbuildmat.2016.01.038; ISSN: 0950-0618. ***(Impact Factor, IF= 3.874)***

24. 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. DOI: 10.1021/acs.cgd.5b01459. Print Edition ISSN: 1528-7483; Web Edition ISSN: 1528-7505. ***(Impact Factor, IF= 4.055)***

25. 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: 2046-2069.***(Impact Factor, IF= 3.108)*** (**Invited review paper**)

2015

26. 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. ***(Impact Factor, IF= 11.553)***

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15. B. Božić, N. Vidojević, N. Novović-Simović, **V.R. Radmilović**, "The characteristics of the tempering process of high-strength low-carbon low alloyed Cr-Mo-Zr steel depending on the initial structure," *Bulletin SANU*, No. 25, (1989) pp.1-19.

16. S. Matijašević, S.V. Marković, B. Jordović, and **V.R. Radmilović**, "SEM quantitative metallographic analysis of porosity in high silicon cast iron", *Foundry*, "SEM kvantitativna metalografska analiza poroznosti u visokosilicijumskom gvožđu", *Livarstvo,* 33 (1986) 29-34.

17. M. Đorđević, **V.R. Radmilović**, and P. Stojanov, "Pacemaker lead fracture", *Pacemaker Center*, 1 (1983) 1-4.

18. B. Božić, D. Mihailović, and **V.R. Radmilović**, "The change of plastic strain amplitude in a total strain controlled low-cycle fatigue of an aged aluminum alloy", *Bulletin de l'Academie Serbe des Sciences et des Arts*, Tome LXV, Class des Sciencies Techniques, Belgrade, No. 15, 65 (1979) pp. 47-53.

19. B. Božić, D. Mihailović, and **V.R. Radmilović**, "The change in plasticity during low-cycle fatigue as a function aging and plastic strain amplitude of Al-Zn-Mg alloy", *Glas, Classe des Sciences Techniques, l'Academie Serbe des Sciences et des Arts,* No. 15, (1979) p. 61-70.

C. Papers presented and/or published in the proceedings and/or book of abstracts of international conferences

2023

1. M.I. Payne,M. Zhang, **V.R. Radmilović**, P. Kumar, A.M. Minor, M. Asta, R. Ritchie, "In-situ TEM deformation of high enropy alloys", MandM2023, International Conference, Microscopy and Microanalysis, Minneapolis, Minnesota, USA; July 23-27.

2. **V.R. Radmilović**, "Energy as one of the biggest challinges in 21st centry", Serbian Ceramic Society Conference: ADVANCED CERAMICS AND APPLICATION XI; New Frontiers in Multifunctional Material Science and Processing; Serbian Academy of Sciences and Arts, Knez Mihailova 35, Serbia, Belgrade, 18-20. September 2023; PROGRAM AND THE BOOK OF ABSTRACTS, p. 26. **(Invited plenary talk)**

3. **V.R. Radmilović**, "Energy: one of the biggest challinges in 21st centry", The 54th International Conference on Mining and Metallurgy; 18-21 October 2023, Bor Lake, Serbia: Proceedings of IOC2023, p. 3. **(Invited plenary talk)**

2022

4. **V.R. Radmilović**, "Thermodynamic confusion and Gibbs-Thomson effect in AlLiSc system", International Workshop on *Possibilities and Limitations of Quantitative Materials Modeling and Characterization 2022,* Akademie-Kues, Stiftsweg 1*, May 22 – 25, 2022,* Bernkastel-Kues, Germany; Organized by Professor Hamish Fraser, CAMM – Center for the Accelerated Maturation of Materials, The Ohio State University. **(Invited plenary talk)**

5. Veljko R. Djokić, Aleksandar D. Marinković, Rada D. Petrović, Ovidiu Ersen, Spyridon Zafeiratos, Miodrag Mitrić, Colin Ophus, **Velimir R. Radmilović**, Djordje T. Janaćković, "Synthesis and Characterization of Highly Active Rutile TiO_2 Nanocrystalline Photocatalysts with Synergistic Exposed Crystal Facets", International Conference on Electron Microscopy of Nanostructures, ELMINA2022, August 22 - 26, Belgrade, Serbia; Book of Abstracts, pp. 88 - 89; ISBN 978-86-7025-943-0; COBISS.SR-ID 72022025.

6. Irena Nikolić, Vuk Radmilović, Smilja Marković, Ljiljana Veselinović, Ivona janković-Častvan, **Velimir Radmilović**, "Alkali activated slag based on steelmaking slag: application and properties", International Conference on Electron Microscopy of Nanostructures, ELMINA2022, August 22 - 26, Belgrade, Serbia; Book of Abstracts, pp. 92 - 93; ISBN 978-86-7025-943-0; COBISS.SR-ID 72022025.

7. Daniel M. Mijailović, Vuk V. Radmilović, Uroš Č. Lačnjevac, Dušica B. Stojanović, Vladimir D. Jović, **Velimir R. Radmilović**, Petar S. Uskoković, "Mesoporous Carbon Nanofibers and Spinel Oxide Nanocomposites for Energy Storage Applications", International Conference on Electron Microscopy of Nanostructures, ELMINA2022, August 22 - 26, Belgrade, Serbia; Book of Abstracts, pp. 118 - 119; ISBN 978-86-7025-943-0; COBISS.SR-ID 72022025.

8. Maja D. Obradović, Jelena R. Rogan, Uroš Č. Lačnjevac, Aleksandra Gavrilović-Wohlmuther, Vuk V. Radmilović, **Velimir R. Radmilović**, Snežana Lj. Gojković[2], "Cu_{upd}@Pd/C and Pd-Cu/C Nanocatalysts for Electrochemical Ethanol Oxidation in Alkaline Solution", International Conference on Electron Microscopy of Nanostructures, ELMINA2022, August 22 - 26, Belgrade, Serbia; Book of Abstracts, pp. 182 - 183; ISBN 978-86-7025-943-0; COBISS.SR-ID 72022025.

2021

9. Dominique Chatain, Paul Wynblatt, **Velimir Radmilovic**, Ulrich Dahmen, *"Hetero-epitaxial Relationships and Atomic Structure at Ag/Ni Interfaces"*; Symposium: Grain Boundaries, Interfaces, and Surfaces in Ceramics: Fundamental Structure—Property—Performance Relationships; Session: Atomistic Approaches; Materials Science & Technology Conference, MS&T21; October 17-21, 2021; Columbus, OHIO. **(Invited talk)**

10. Irena Nikolić, Dijana Đurović, Smilja Marković, Ljiljana Veselinović, Ivona Janković-Častvan, Vuk Radmilović, **Velimir Radmilović**, New

environmentally acceptable materials based on flay ash, steelmaking slag and Zn-reach electric arc furnace dust, Twenty-second Annual Conference YUCOMAT 2021, September 2021, Herceg Novi, Montenegro, Book of Abstracts, ISBN:978-86-919111-6-4,p.114.

11. Vuk V. Radmilović, Yi Hou, Christoph J. Brabec, Erdmann Spiecker, **Velimir R. Radmilović**, Journey to the Center of a Perovskite Solar Cell, Twenty-second Annual Conference YUCOMAT 2021, September 2021, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-6-4, p. 108.

2019

12. **Velimir Radmilović**, *"The Use of Complex Oxide Interfaces and Monoatomic Scale Defects in ControllingTransport Properties in ZnO Nanowires"*,The 20th Symposium on Condensed Matter Physics, Belgrade - Serbia, *SFKM 2019, Belgrade, Serbia, 7 - 11 October 2019.* **(Invited plenary talk)**

13. **Velimir Radmilović**, *"Imaging and Spectroscopy of Functional Oxide Nanowiresfor Energy Related Applications"*, International Workshop on Advanced and *In situ* Microscopies of Functional Nanomaterials and Devices, *IAMNano2019,* October 27 – 30, 2019, Düsseldorf. Germany. **(Invited plenary talk)**

14. **Velimir Radmilović**, *"In-situ Microscopy Testing of Metallic Thin Film"*, German Physical Society Conference, REGENSBURG2019; Topical Session (Symposium of MM): Correlative and in-situ Microscopy in Materials Research.; April 1 - 5, 2019; Regensburg, Gerrmany. **(Invited Topical Talk)**

15. **Velimir Radmilović**, *"Metallic Thin Films for NEMS Applications"*, Possibilities and Limitations of Quantitative Materials Modeling and Characterization 2019; May 19 - 22, 2019; Steillagenzentrum Mosel, Gartenstrasse 18, Bernkastel-Kues, Germany. **(Invited plenary talk)**

16. **Velimir Radmilović** and Peidong Yang, *"Atomistic Phenomena in Nanostructures for Energy Realted Applications"*, EDIRNE2019; Turkish Soceiety for Electron Microscopy International Conference; April 24 - 26, 2019; Edirne, Turky. **(Invited plenary talk)**

17. **Velimir Radmilović**, *"Decoupling of Electrical and Thermal Properties in Nanostructured Materials",* Society for electronics, telecommunications, computers, automation and nuclear engineering International Conference, IcETRAN2019, June 3-6, 2019; Silver Lake, Serbia. **(Пленарно предавање по позиву)**

18. **Velimir Radmilović**, *"Atomistic Phenomena in Nanostructures for Energy Related Applications"; 14th* Multinational Congress on Microscopy, September 14 - 20, Belgrade, Serbia. **(Invited keynote lecture)**

19. M.N. Krstajić Pajić, N.R. Elezović, P. Zabinski, V.V. Radmilović, S.I. Stevanović, **V.R. Radmilović**, S.Lj. Gojković, V.M. Jovanović, "Noble metal nanocatalysts: synergetic effect of

nanoparticle shape and composition on their electrocatalytic performance", 4th e-MINDs COST Workshop, COST Action MP1407, Milano, Italy, 2019, pp. 8–9. (**Invited talk**)

20. M.N. Krstajić Pajić, S.I. Stevanović, V.V. Radmilović, P. Zabinski, N.R. Elezović, **V.R. Radmilović**, S.Lj. Gojković, V.M. Jovanović, "The Effect of Au in Shape-controlled Pt based Nanoparticles as Anodic Catalysts for Low-temperature Fuel Cells", *Book of Abstracts*, 70th Annual Meeting of the International Society of Electrochemistry, Durban, South Africa, 2019, pp. 658-686.

21. M.N. Krstajić Pajić, S.I. Stevanović, V.V. Radmilović, P. Zabinski, N.R. Elezović, **V.R. Radmilović**, S.Lj. Gojković, V.M. Jovanović, , "Catalysis at nano level: Promoting Pt nanoparticle activity by Au decoration", *Book of Abstracts*, pp. 119, 7th RSE-SEE, Split, Croatia 2019.

22. Vuk V. Radmilović, Nevenka Elezovic, Peter Ercius, Erdmann Spiecker, **Velimir R. Radmilović**, *Welded Silver Nanowires as Transparent Electrodes in Optoelectronics*, 17th International Conference on Emerging Materials and Nanotechnolgy, March 2019, Berlin, Germany.

23. Vuk V. Radmilović, Josh Kacher, Evica R. Ivanović, Andrew M. Minor and **Velimir R. Radmilović**, *Multiple twinning and stacking faults in silver dendrites*, Twenty-first Annual Conference YUCOMAT 2019, September 2019, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-4-0, p. 123.

24. Irena Nikolić, Ivana Milašević, Nevena Cupara, Ljubica Ivanović, Dijana Đurović, Smilja Marković, Ljiljana Veselinović, Vuk V. Radmilović, **Velimir R. Radmilović**, *A novel type of building material derived from the by-products of steel making industry*, Twenty-first Annual Conference YUCOMAT 2019, September 2019, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-4-0, p. 84.

25. Daniel M. Mijailović, Uroš Č. Lačnjevac, Vladimir D. Jović, Dušica B. Stojanović, Vuk V. Radmilović, **Velimir R. Radmilović**, Petar S. Uskoković, Synthesis and Supercapacitive Performances of Electrospun Carbon Nanofibers Decorated with Spinel $Co_{1.5}Mn_{1.5}O_4$ Nanocrystals, YOUng ResearcherS Conference – YOURS 2019, March 26-27, 2019, Belgrade, Serbia. (**Best paper award**)

26. Daniel M. Mijailović, Vuk V. Radmilović, Uroš Č. Lačnjevac, Dušica B. Stojanović, Vladimir D. Jović, **Velimir R. Radmilović**, Petar S. Uskoković, *High-performance supercapacitors based on core-shell structured carbon fibers@spinel oxide composites*, Twenty-first Annual Conference YUCOMAT 2019, September 2019, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-4-0, p. 127. (**Best poster award**)

27. Krstajic Pajic M.N., Stevanovic S.I., Radmilovic V.V., Zabinski P., Elezovic N.R., **Radmilovic V.R.**, Gojkovic S.Lj., Jovanovic V.M., "The Effect of Au in Shape-controlled Pt based Nanoparticles as Anodic Catalysts for Low-temperature Fuel Cells", *Book of Abstracts*, 70th Annual Meeting of the International Society of Electrochemistry, Durban, South Africa, 2019, pp. 658-686.

28. Krstajic Pajic M.N., Stevanovic S.I., Radmilovic V.V., Zabinski P., Elezovic N.R., **Radmilovic V.R.**, Gojkovic S.Lj., Jovanovic V.M., "Catalysis at nano level: Promoting Pt nanoparticle activity by Au decoration", *Book of Abstracts*, pp. 119, 7th RSE-SEE, Split, Croatia 2019.

29. Vuk V. Radmilović, Josh Kacher, Evica R. Ivanović, Andrew M. Minor and **Velimir R. Radmilović**, *Multiple twinning and stacking faults in silver dendrites*, Twenty-first Annual Conference YUCOMAT 2019, September 2019, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-4-0, p. 123.

30. Vuk **V. Radmilović**, Nevenka Elezovic, Peter Ercius, Erdmann Spiecker, **Velimir R. Radmilović**, *Welded Silver Nanowires as Transparent Electrodes in Optoelectronics*, 17th International Conference on Emerging Materials and Nanotechnolgy, March 2019, Berlin, Germany.

31. Daniel M. Mijailović, Vuk V. Radmilović, Uroš Č. Lačnjevac, Dušica B. Stojanović, Vladimir D. Jović, **Velimir R. Radmilović**, Petar S. Uskoković, *High-performance supercapacitors based on core-shell structured carbon fibers@spinel oxide composites*, Twenty-first Annual Conference YUCOMAT 2019, September 2019, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-4-0, p. 127. (**Best poster award for Daniel M. Mijailović**)

2018

32. **Velimir Radmilović**, *"Atomistic Phenomena in Functional oxide nanowires"*, 3rd International Meeting on Materials Science for Energy Related Applications, 3rdIMMSERA, University of Belgrade, Faculty of Physical Chemistry, September 25 / 26, 2018, Belgrade. **(Invited plenary talk)**

33. **Velimir Radmilović**, "Imaging and Spectroscopy of Functional Oxide Nanowires", International Workshop on Advances in Scanning/Transmission Electron Microscopy, Braga, Portugal, May 4, 2018. (**Invited plenary talk**)

34. **Velimir Radmilović**, *"Imaging and Spectroscopy of Functional Oxide Nanowires"*, International Workshop on Advances in Scanning/Transmission Electron Microscopy on May 4, 2018. **(Invited plenary talk)**

35. V.V. Radmilović, P. Yang, **V.R. Radmilović**, *Novel Nanostructured Materials for Energy Conversion,* Twentieth YuCorr "Meeting Point of the Science and Practice in the Fields of Corrosion", Materials and Environmental Protection, May 2018, Tara, Serbia, Book of Abstracts, ISBN 978-86-82343-26-4 (2018), pp. 2-3. **(Invited plenary talk)**

36. D. Mijailović, V.V. Radmilović, **V.R. Radmilović**, D. Stojanović, U. Lačnjevac, V. Jović, P. Uskoković, "*Electrospun Carbon Nanofibers Decorated with Mixed Cobalt and Manganese Oxide Nanoparticles as High-Performance Hybrid Electrodes for Supercapacitors*", Electrospinning for Energy ElEm2018, Montpellier, France, 2018. **(Best poster award)**

37. M.N. Krstajić, S.I. Stevanović, V.V. Radmilović, P. Zabinski, N. Elezović, A. Gavrilovic-Wohlmuther, **V.R. Radmilović,** S.Lj. Gojković, V.M. Jovanović, *The Effect of Particle Shape and*

Composition on the Electrochemical Behaviour of Pt-based Nanostructured Catalysts for Fuel Cells, ELMINA2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) pp. 101-103.

38. D. Mijailović, U. Lačnjevac, V.V. Radmilović, D. Stojanović, **V.R. Radmilović**, V. Jović, P. Uskoković, *Electrospun Hybrids of Carbon Nanofibers with Cobalt and Manganese Oxide Nanoparticles as High-Performance Electrodes for Supercapacitors*, жжELMINA2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 87.

39. I. Nikolić, D. Đurović, I. Milašević, S. Marković, Lj. Veselinović, V.V. Radmilović, I. Janković-Častvan I., **V.R. Radmilović**, *Alkali Activated Slag as Adsorbent for Cu^{2+} Removal from Wastewaters*, ELMINA2018, Belgrade, Serbia, 2018, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 198.

40. V.V. Radmilović, Y. Hou, F. Gou, C. Brabec, E. Spiecker, **V.R. Radmilović**, *Structural characterization of organic and perovskite solar cells*, ELMINA2018, Belgrade, Serbia, 2018, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 78.

41. M.N. Krstajić, S.I. Stevanović, V.V. Radmilović, N. Elezović, P. Zabinski, **V.R. Radmilović**, S.Lj.Gojković, V.M. Jovanović, *Tailoring the properties of Noble Metal Based Nanostructures at 3D Level Towards Efficient Energy Conversion Devices*, 69th Annual ISE Meeting, Bologna, Italy 2018, pp. 1154–1154.

42. I. Milašević, Lj. Ivanović, I. Nikolić, D. Đurović, S. Marković, V.V. Radmilović, **V.R. Radmilović**, *New multifunctional materials based on steel slag*, Twentieth Annual Conference YUCOMAT 2018, September 2018, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-3-3 (2018) p. 123.

43. V.V. Radmilović, P. Ercius, C. Ophus, E. Spiecker, **V.R. Radmilović**, *Welded Silver Nanowires as Transparent Electrodes in Optoelectronics*, Seventeenth Annual Young Researchers' Conference Materials Science and Engineering, December 2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-80321-34-9 (2018), p. 46.

44. M.N. Krstajić, S.I. Stevanović, V.V. Radmilović, **V.R. Radmilović**, S.Lj. Gojković, V.M. Jovanović, *The ensemble effect in PtAu nanocatalysts*, Seventeenth Annual Young Researchers' Conference Materials Science and Engineering, December 2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-80321-34-9 (2018), p. 57.

45. D. Mijailović, U. Lačnjevac, V.V. Radmilović, D. Stojanović, **V.R. Radmilović**, V. Jović, P. Uskoković, *Electrospun hybrids of carbon nanofibers with mixed metal oxide nanoparticles as high-performance battery-type supercapacitors*, Seventeenth Annual Young Researchers' Conference Materials Science and Engineering, December 2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-80321-34-9 (2018), p. 60. **(Best presentation award)**

46. Krstajić M.N., Stevanović S.I., Radmilović V.V., Elezović N., Zabinski P., Radmilović V.R., Gojković S.Lj., Jovanović V.M., *Tailoring the properties of Noble Metal Based Nanostructures at 3D Level Towards Efficient Energy Conversion Devices*, 69th Annual ISE Meeting, Bologna, Italy 2018.

47. Mijailović D, Radmilović V.V., Radmilović V.R., Stojanović D., Lačnjevac U., Jović V., Uskoković P., *Electrospun Carbon Nanofibers Decorated with Mixed Cobalt and Manganese Oxide Nanoparticles as High-Performance Hybrid Electrodes for Supercapacitors*, Electrospinning for Energy ElEm2018, Montpellier, France, 2018.

48. Krstajić M.N., Stevanović S.I., Radmilović V.V., Zabinski P., Elezović N., Gavrilovic-Wohlmuther A., Radmilović V.R., Gojković S.Lj., Jovanović V.M., *The Effect of Particle Shape and Composition on the Electrochemical Behaviour of Pt-based Nanostructured Catalysts for Fuel Cells*, ELMINA2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 101.

49. Mijailović D, Lačnjevac U., Radmilović V.V., Stojanović D., Radmilović V.R., Jović V., Uskoković P., *Electrospun Hybrids of Carbon Nanofibers with Cobalt and Manganese Oxide Nanoparticles as High-Performance Electrodes for Supercapacitors*, ELMINA2018, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 87.

50. Nikolić I., Djurović D., Milašević I., Marković S., Veselinović Lj., Radmilović V.V., Janković-Častvan I., Radmilović V.R., *Alkali Activated Slag as Adsorbent for Cu^{2+} Removal from Wastewaters*, ELMINA2018, Belgrade, Serbia, 2018, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 198.

51. Radmilović V.V., Hou Y., Gou F., Brabec C., Spiecker E., Radmilović V.R., *Structural characterization of organic and perovskite solar cells*, ELMINA2018, Belgrade, Serbia, 2018, Book of Abstracts, ISBN 978-86-7025-785-6 (2018) p. 78.

2017

52. **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)**

53. **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)**

54. 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)**

55. Vuk V. Radmilović, Colin Ophus, **Velimir R. Radmilović**, "STEM Diffraction Mapping of Silver Nanowire Welds", International Workshop: Electron Microscopy at High Temporal Resolution; Strasbourg2017; May 29 - 31, 2017., France. **(Invited plenary talk)**

56. **Velimir Radmilović**, "Atomistic Phenomena in Engineering Materials", Yucomat2017, 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. ISBN 978-86-91911-12-6. **(Invited plenary talk)**

57. Krstajić M.N., Zabinski P., Stevanović S.I., Radmilović V.V., **Radmilović V.R.**, Jovanović V.M., Gojković S.Lj., Elezović N., *Noble metal based materials for energy production*, Third COST Workshop COST Action MP1207, Barcelona, Spain, October 2017, Book of Abstracts, ISBN 978-86-80321-32-5 (2017) p. 11-12.

58. Krstajić M.N., Stevanović S.I., Radmilović V.V., Elezović N., Zabinski P., Gavrilovic-Wohlmuther A., **Radmilović V.R.**, Gojković S.Lj., Jovanović V.M., *Nanostructured PtAu catalysts for formic acid electrooxidation*, 6th RSE-SEE, Balatonkenese, Hungary 2017, isbn: 978-615-5270-33-8 (2017) pp. 119 – 124.

59. Krstajić Pajić M.N., Stevanović S.I., Radmilović V.V., Elezović N., Zabinski P., Krstajić N.V., **Radmilović V.R.**, Gojković S.Lj., Jovanović V.M., *Enhancing Pt catalytic properties by addition of Au: Could less be more?,* Nineteenth Annual Conference YUCOMAT 2017, September 2017, Herceg Novi, Montenegro, Book of Abstracts, ISBN 9788691911126 (2017) p. 95.

60. Krstajić Pajić M.N., Stevanović S.I., Radmilović V.V., Zabinski P., Elezović N., Gavrilović-Wohlmuther A., **Radmilović V.R.**, Gojković S.Lj., Jovanović V.M., *Particle shape impact on the performance of Pt-based nanocatalysts for fuel cell reactions,* EAST Forum 2017, April 2017, Schwabisch Gmund, Germany, (2017).

2016

61. **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)**

62. **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**)

63. 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.

64. **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)**

65. **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)**

66. **Velimir R. Radmilović**, "Lithium and scandium trialuminides embedded in solid matrix", Yucomat2016, 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. ISBN 978-86-919111-1-9. (**Invited plenary talk**)

67. Vuk V. Radmilović, Fei Guo, Christoph J. Brabec, Erdmann Spiecker, **Velimir R. Radmilović**, "Structural characterization of organic bulk heterojunction solar cells", Yucomat2016, 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. ISBN 978-86-919111-1-9. (**Invited talk as the best oral presentation of a young scientist at Yucomat 2015**)

68. Irena Nikolić, Smilja Marković, Ljiljana Karanović, Vuk Radmilović, **Velimir Radmilović**, "Strength and durability of alkali activated slag in a sea water: influence of alkali ion", Yucomat2016, Eighteenth Annual Conference, Herceg Novi, Montenegro, September 5 – 10, 2016; Book of abstracts, p. 38; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. ISBN 978-86-919111-1-9.

69. 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 basedsupport 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.

70. Vuk Radmilović, Manuela Göbelt, Silke Christiansen, Erdmann Spiecker and **Velimir Radmilović**, "Ag/ZnO Core/shell Nanowirs For Sollar Cell Applications", Junior Euromat 2016, Lausanne, Switzerland, Book of Abstracts, ISBN 978-2-8399-1926-5 (2016), p.65.

71. **Velimir Radmilović**, "Structure and thermoelectric properties of finctional oxide nanowires", Hungarian Society for Physics International Meeting, August 24-27, 2016. Szeged, Hungary. (**Invited plenary talk**)

2015

72. **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**)

73. **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**)

74. 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 31st – September 4th , 2015; Book of abstracts, p. 78; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. ISBN 978-86-919111-0-2.

75. 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 31st – September 4th , 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. ISBN 978-86-919111-0-2.

76. 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 31st – September 4th , 2015; Book of abstracts, p. 24; Editors: Prof. Dr. Dragan P. Uskoković and Prof. Dr. Velimir R. Radmilović; Publisher: Materials Research Society of Serbia. ISBN 978-86-919111-0-2.

77. 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 31st – September 4th , 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. ISBN 978-86-919111-0-2.

78. **Velimir R. Radmilović**, "Zigzag Inversion Domain Boundaries in Functional Oxide Nanowires", Yucomat2015, Seventeenth Annual Conference, Herceg Novi, Montenegro, August 31st – September 4th , 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. ISBN 978-86-919111-0-2. (**Invited plenary talk**)

79. **Velimir R. Radmilović**, "High resolution microscopy and spectroscopy of thermoelectric nanowires", MCM, 12th Multinational Congress on Microscopy, August 23-28, 2015, Eger, Hungary. (**Invited plenary talk**)

80. 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.

81. **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**)

82. 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.

83. **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**)

84. **V.R. Radmilović**, "**ABERRATION CORRECTED MICROSCOPY OF FUNCTIONAL OXIDE NANOWIRES AT ATOMIC SCALE",** "3rd Croatian Microscopy Congress," April 26-29, 2015, Zadar, Croatia. (**Invited plenary talk**)

85. **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**)

86. **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**)

87. Irena Nikolić, **Velimir R. Radmilović**, "Strength and shrinkage of alkali activated fly ash /slag blends at elevated temperature", *47th* International october conference on mining and metallurgy, 4– 6. oktobar 2015, Borsko jezero, Srbija; Conference Proceedings, pp. 249 –252.

88. Irena Nikolić, Radomir Zejak, Vuk Radmilović, **Velimir R. Radmilović**, "Efect of substitution of fly ash with steel slag on the mechanical properties of alkali activated mortars", 8th International Scientific Conference "Science and Higher Education in Function of Sustainable Development", SED 2015, 2 - 3 October, 2015, Užice, Serbia; Conference Proceedings, pp. 1-5. ISBN 978-86-83573-61-5.

89. 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.

90. U. Lačnjevac, V.V. Radmilović, **V.R. Radmilović**, N.V. Krstajić, *TiO2 Nanotube Supported RuOx 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.

91. 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 Simposium on Electrochemistry, South-East Europe, Pravets, Bulgaria, Book of Abstracts, ISBN 978-954-92483-4-0 (2015), p.78.

92. Lačnjevac U.Č., Radmilović V.V., Radmilović V.R., Krstajić N.V., *TiO_2 Nanotube Supported RuO_x Electrocatalyst for the Hydrogen Evolution Reaction in Acid Solution*, Third Conference of the Serbian Society for Ceramic Materials 3CSCS-2015, June 2015, Belgrade, Serbia, Book of Abstracts, ISBN 978-86-80109-19-0 (2015), P-53, p. 122.

93. Krstajić M.N., Stevanović S.I., Radmilović V.V., Rogan J.R., Gavrilović-Wohlmuther A., Radmilović V.R., Gojković S.Lj., Jovanović V.M., *Shape controlled, carbon supported Pt anodic catalysts for DFAFC*, Fifth Regional Symposium on Electrochemistry of South-East Europe, June 2015, Pravets, Bulgaria, Book of Abstracts, ISBN 978-954-92483-4-0 (2015) pp. 78-79.

94. Krstajić M.N., Stevanović S.I., Radmilović V.V., Gavrilović-Wohlmuther A., Radmilović V.R., Gojković S.Lj., Jovanović V.M., *Shape evolution of carbon supported Pt catalyst for PEMFC*, Seventeenth Annual Conference YUCOMAT 2015, September 2015, Herceg Novi, Montenegro, Book of Abstracts, ISBN 978-86-919111-0-2 (2015) p.78.

2014

95. 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 ar*chitectures for direct detection in Transmission Electron Microscopy".

96. 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", Sinxteen 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.

97. Ljiljana M. Gajić-Krstajić, N.R. Elezović, B.M. Babić,J. Kovač, **V.R. Radmilović**, N.V. Krstajić, "Electrochemical oxygen reduction at platinum catalyst on tin oxide based support in alkaline solution**",** Sinxteen 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.

98. 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.

99. Irena Nikolić, I. Janković-Častvan, V.V. Radmilović, Lj. Karanović, S. Mentus, **V.R. Radmilović**, "Influence of alkali ion on the properties of alkali actvated slag**",** Sinxteen 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.

100. C. Ophus, D.H. Moreno, A. Gautam, W. Bras, U. Dahmen, **V.R. Radmilović**, "Formation of monodisperse nanoparticles in solids", Sinxteen 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**)

101. **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**)

102. **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)**

103. 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.

104. 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**)

105. 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.

106. Radmilović V.V., Carraro C., Uskoković P.S., Aleksić R., **Radmilović V.R.**, *Raman spectroscopy and electron microscopy of polymer based nanocomposites with carbon nanotubes and graphene,* Sixteenth Annual Conference YUCOMAT 2014, September 2014, Herceg Novi, Montenegro, Book of Abstracts, (2014), p.92

2013

107. 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.

108. R. Zejak, I. Popović, I. Nikolić, **V.R. Radmilović**, *Strength, microstructure and dyrability 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.

109. D. Blečić, I. Nikolić, **V.R. Radmilović**, *Thermal stability of electric arc furnace slag based geopolymers*, The 45th International October Conference on Mining and Metallurgy, 16-19 October 2013, Bor Lake, Bor (Serbia) pp. 128-131.

110. 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.

111. **Velimir R. Radmilović**, "$L1_2$ Ordered Nano-heterostructures Embedded in Solids"; Proceed. of 45th 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-Tecnical Faculty in Bor; ISBN 978-86-6305-012-9. (**Invited plenary talk**)

112. **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**)

113. **V.R. Radmilović**, "Core/shell Nanostructures Embedded in Solid", MC2013 International Microscopy Conference, August 25/30, 2013, Regensburg, Germany. (**Opening invited plenary talk; EMS Lecture award**)

114. **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**)

115. **V.R. Radmilović**, "Aberration Corrected Electron Microscopy of Nanoheteostructures", 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 25th – 27th, 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**)

116. **V.V. Radmilović**, D. Stojanović, P. Uskoković, R. Aleksić, **V.R. Radmilović**, "Structure and Properties of polyvinyl butyral based nanocomposites", International Materials Research Conference, YUCOMAT2013, Herceg Novi, Septeber 2-6, 2013; Book of Abstracts, p. 114; Editors: Dragan Uskoković and Velimir R. Radmilović; (**Best poster award for Vuk Radmilović**)

117. R. Sankaran, C. Ophus, **V.R. Radmilović**, A. Minor and J.W. Morris, Jr., "Characterizing the Phase Stability and Deformation Behavior of Gum Metal and Related-Alloys", TMS 2013, 142th Annual Meeting and Exhibition, March 3-March 7, 2013, San Antonio, TX.

2012

118. **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 Janaćković and Petar Uskoković. (**Invited plenary talk**).

119. **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)**

120. **Velimir R. Radmilović**, S. Andrews, M. Moore, P. Yang, "Atomic Resolution Microscopy of Advanced Materials for Thermoelectric Applications", Proceedings Eropean Microscopy Congress, EMC2012, September 16-21, 2012, Manchester, UK. **(Invited talk)**

121. C. Ophus, G. Corthey, P. Ercius, M. Linck, **V. Radmilovic**, R.C. Salvarezza, U. Dahmen, "Modeling and measuring the strain state of decahedral nanoparticles", Proceedings European Micrososcopy Congress, EMC12, September 16-21, 2012, Manchester, UK.

122. R. Zejak, I. Nikolić, D. Đurović, B.P. Mugoša, D. Blečić, **V.R. Radmilović**, ***Influence of Na_2O/Al_2O_3 and SiO_2/Al_2O_3 ratios on the immobilization of Pb from electric arc furnace into the fly ash based geopolymers*****, 16th 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.

123. D. Đurović, I. Nikolić, R. Zejak, M.Tadić. **V.R. Radmilović**, *Conversion of fly ash in the environmental friendly materials thorough geopolymerisation process,* 44th international October Conference on Mining and Metallurgy, IOC44, 1-3 October 2012, Bor, Serbia, pp.347-352.

124. D. Blečić, I. Nikolić, R. Zejak , M. Tadić1, **V.R. Radmilović**, *Influence of type of alkali solution on the properties of fly ash based geopolymers*, 44th international October Conference on Mining and Metallurgy, IOC44, 1-3 October 2012, Bor, Serbia, pp.353-356.

125. 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.

126. 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.

127. **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**)

128. 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)**

2011

129. 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)**

130. 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)**

131. V. Djokić, A. D. Marinković, M. Mitrić, **V.R. Radmilović**, P. Uskokovicć, R. Petrović, Dj. Janaćković, „Highly ctive rutile TiO_2 nanocrystalline photocatalysts with synergistic exposed crystal faces", 2nd International workshop: Characterization, properties and applications of nanostructured ceramics, polymers and composites, Book of Abstracts, p.49, Belgrade, Serbia, 2011.

132. 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", 2nd International workshop: Characterization, properties and applications of nanostructured ceramics, polymers and composites, Book of Abstracts, p.50, Belgrade, Serbia, 2011.

133. **V.R. Radmilović**, C. Ophus, A. Gautam, M. Asta and U. Dahmen, "Electron Microscopy and Spectroscopy of $L1_2$ Complex Nanostructures", International Microscopy Conference FEMMS2011, Napa, September 19-23, 2011, USA. **(Invited talk)**

134. 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.

135. 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 $L1_2$ Precipitates", *Microscopy & Microanalysis,* 17 (2011) 1262-1263; Microscopy Society of America; M&M2011, August 7-11, 2011, Nashwille, Tennessee, USA; DOI: 10.1017/S1431927611007185.

136. 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.

137. **Velimir R. Radmilović**, "HAADF imaging and analysis of interface and defect structures in $M_2O_3(ZnO)_n$ polytypoid nanowires", MC2011, Microscopy Congress, August 28-September 2, 2011, Kiel, Germany. (**Invited plenary talk)**

138. **V. Radmilović**, C. Ophus, A. Gautam, M. Asta, U. Dahmen, "Al (LiSc) Core/shellOrdered Nanostructures Embedded in Solids", *XVIII Symposium on Condensed Matter Physics - SFKM 2011;* 18-22 April, 2011; Belgrade - Serbia; p. 29. **(Invited plenary talk)**

139. 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.

140. **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)**

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20. Group of authors: "Investigation of precipitation from supersaturated solid solutions and hardening phenomena in thermo-mechanical treatment", Research Fund of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Department of Metallurgy-Report, Belgrade, 1973, 25 pages.

F. Expertise on which V.R. Radmilović participated as an author or co-author (in Serbian)

1. **V.R. Radmilović**, Đ. Drobnjak, V. Milenković, E. Romhanji, et al. "Technology development for Steel/Cu-alloys sandwich production, joined by explosive bonding", Innovation Project, Ministry for Science and Technology of Serbia, University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy, Report, (1996/1997).
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, Department of Materials and Mineral Engineering, 1991, 14 pages.
4. Đ. Drobnjak, **V.R. Radmilović**, B. Djurić, Lj. Nedeljković, and co-workers, "Microalloyed and similar steels for rail-road and other structural applications", Research Fund of Serbia, Project Report, 1991.
5. **V.R. Radmilović**, G. Thomas, "Mg/SiC composites", Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Department of Materials and Mineral Engineering, 1990, 10 pages.
6. Đ. Drobnjak, **V.R. Radmilović**, B. Đurić, Lj. Nedeljković, "Stress corrosion of metals and alloys", University of Belgrade, Faculty of Technology and Metallurgy, Department of Physical Metallurgy -VTI Project report, Belgrade, 1990, 280 pages.
7. **V.R. Radmilović**, "Superplasticity of Al-Li-X alloys", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy -VTI Report, Belgrade, 1989, 34 pages.

8. **V.R. Radmilović**, G. Thomas, "Al/SiC composites", Project Report for: Allied Signal Inc., Metals and Ceramics Laboratory, University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1989, 15 pages.
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.
10. **V.R. Radmilović**, "Al-Li-X alloys for fabrication by rolling, forging and extrusion", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Physical Metallurgy -VTI Report, Belgrade, 1988, 26 pages.
11. S. Tomašević, D. Jurić, I. Kratina, **V.R. Radmilović**, M. Trifunović, "Steel quality improvement for rail-road application", Institute "H. Brkić" Report, Zenica, Bosnia & Herzegovina, 1987, 138 pages.
12. R. Ramesh, **V.R. Radmilović**, and G. **Thomas,** "Steel based composites", Project Report for: "Snap On Tools", University of California, Berkeley, Dept. of Materials and Mineral Engineering, 1987, 58 pages.
13. **V.R. Radmilović, "Steel s**pecimen characterization fabricated by rotational forging", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, VTI Report, Belgrade, 1987, 11 pages.
14. Đ. Drobnjak, **V.R. Radmilović**, V. Milenković, E. Romhanji, "Aluminum alloys product development for application in GOŠA factory", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -"Goša Institute" Report, Belgrade, 1986, 87 pages.
15. Đ. Drobnjak, S. Sedmak, **V.R. Radmilović**, V. Hut, "Investigation, characterization and usability analysis of steel tubes for thermal transports", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Report, Belgrade, 1986, 23 pages.
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, "Pobeda" Novi Sad, 1985, 39 pages.
17. **V.R. Radmilović** and M. Rogulić, "Electron microscopy of aged aluminum alloys-II", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy -Report, Belgrade, 1984, 21 pages.
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, Fabrika guma Pirot, Pirot, 1984, 23 pages.
20. **V.R. Radmilović** and Đ. Drobnjak, "Electron microscopy of steel welds", University of Belgrade, Faculty of Technology and Metallurgy, Dept. of Metallurgy, Reports, Belgrade, 1983, 25 pages.
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.

G. Department seminars, Colloquiums, Lectures, Invited talks

1. **Велимир Р. Радмиловић**, "Графин: нова парадигма наноматеријала"; Он-лајн Састанак Одељења техничких наука, Српска академија наука и уметности; 4.11.2020., Београд.

2. **Велимир Р. Радмиловић**, "Зашто је енергија један од највећих изазова човјечанства у XXI вијеку", Српска академија наука и уметности, Циклус предавања: Енергија као један од највећих изазова човечанства у XXI веку; Свечана сала САНУ, 24.09.2019.
3. **Велимир Р. Радмиловић**, "Енергија као један од највећих изазова човјечанства у XXI вијеку", Универзитет у Крагујевцу, Техички факултет Чачак; *16.10. 2019.* (**Предавање по позиву**)
4. **Velimir Radmilović**, "*Energy: One of The Greatest Chelinge of our Civilization in 21st Century*"; Sabanci University, Istanbul, Turky; April 30, 2019. (**Invited Department Seminar**)
5. **Velimir Radmilović**,
6. **Велимир Р. Радмиловић**, "Енергија као највећи изазов човјечанства у XXI вијеку", Одељење техничких наука САНУ, састанак у просторијама Огранка САНУ у Новом саду, Нови Сад; *13.02.2019.*
7. **Velimir Radmilović**, "Twinning in Rhenium"; University of California at Berkeley, Department of Materials Science; Professor A. Minor research group; July 25, 2018. (**Invited talk**)
8. **Velimir Radmilović**, "Atomistic Phenomena in Functional Oxide Nanowires"; National Center for Electron Microscopy, Molecular Foundry, Lawrence Berkeley National laboratory; June 21, 2018. (**Invited talk**)
9. **Velimir Radmilović**, "Atomistic phenomena in Functional Oxide Nanowires"; Plaza de Ciencias 1, Ciudad Universitaria, the School of Physics, 28040, Madrid, Spain; May 7, 2018. (**Invited talk**)

10. **Velimir Radmilović**, "Visoko rezoluciona elektronska mikroskopija neorganskih i bioloških struktura", Društvo fizikohemičara Srbije, Sekcija za fizičku hemiju makromolekula i SANU Muzej nauke i tehnike, Beograd; 23. februara, 2018. (**Predavanje po pozivu**)
11. **Velimir Radmilović**, "Atomistic phenomena in new materials for energy related applications"; University of Novi Sad, Serbia; 30.11.2017. (**Invited talk**)

12. **Velimir Radmilović**, "The role of university education in copetitivness and inovation"; Conference on economy: The calinges on the way to European Union; Hotel Splendid, Bečići, Montenegro; November 2 and 3, 2017. (**Invited panel presentation**).

13. **Velimir Radmilović**, "Nano elektro - mehanički konzolni senzori" Univerzitet u Nišu i Ogranak SANU u Nišu Nano electro-mechanical console sensors"; 30.10.2017. (**Predavanje po pozivu**)

14. **Velimir Radmilović**, "Multipurpose Cantilever Sensors", EPFL, Lausanne; September 22, 2017. (**Invited Seminar**).

15. **Velimir Radmilović**, "Atomistic phenomena during phase transition in Al-Li-Sc alloys", Montenegrin Academy of Sciences and Arts; 19. oktober, 2017., Podgorica, Montenegro. (**Invited talk**)

16. **Velimir Radmilović**, "Functional Oxide Aperiodic Superlatteces", Witts University, Johanesburg, South Africa; November 11, 2016. (**Invited talk - Depertment Seminar**)

17. **Velimir Radmilović**, "Zigzag Inversion Domain Boundaries in Functional Oxide Nanowires", ICN2 Seminar Hall, ICN2 Building, Universitat Autonoma de Barcelona; July 17, 2015. (**Invited talk - Depertment Seminar**)

18. **V.R. Radmilović**, "Aberration Corrected Electron Microscopy of Nanoheterostructures", Chalmers University, March 25, 2013. **(Invited talk)**

19. **V.R. Radmilović**, "Microscopy and Spectroscopy of Functional Oxide Nanowires at Atomic Scale", CENEM, Cluster of Excelanse, Universität Erlangen-Nürnberg, April 30, 2015. (**Invited talk**)

20. **V.R. Radmilović**, "Focused Ion Beam: Posibilities and Limitations", Chalmers Soft Microscopy Summer School, Gothenburg, July 20, 2015. (**Invited talk**)

21. **V.R. Radmilović**, "How Low Can We Go?", Fourteenth Young Researchers' Conference – Materials Science and Engineering, December 9-11th, 2015., Belgrade, Serbia. (**Invited plenary talk**)

22. **V.R. Radmilović**, "Aperiodic superlattices in functional oxide nanowires", Institute VINČA, May 13, 2015. (**Invited lecture)**

23. **V.R. Radmilović**, "Defects in Functional Oxide Nanowires", CENEM, Cluster of Excelanse, Universität Erlangen-Nürnberg, December 4, 2014. (**Invited talk**)

24. **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**).

25. **V.R. Radmilović**, "Zinc Oxide Nanowire Heterostructures", Max Planck Institute for the Science of Light, Universität Erlangen-Nürnberg, October 24, 2014. (**Invited lecture**)

26. **V.R. Radmilović**, "Functional Oxide Nanowires"", University of Genova, Italy, September 10, 2014., October 24, 2014. (**Invited lecture)**

27. **V.R. Radmilović**, "Fucusse ion beam: Expirience at NCEM", University of Erlangen, May 26, 2014. (**Invited tutorial lecture**).

28. **V.R. Radmilović**, "Superlubricity in Gold", University of Erlangen, June 2, 2014. (**Invited lecture**).

29. **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**)

30. **V.R. Radmilović**, "Aperiodic Superlattices in Functional Oxide Nanowires" Max Planck Institut, Center for Inteligeny Systems, Stuttgart, February 24, 2014. Department Colloquium (**Invited talk**).

31. **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)**.

32. **V.R. Radmilović**, "Al_3(Li,Sc) Core/shell Monodisperse Nanostructures ", January 29, 2014; Department of Physics, University of Trondheim, Norway; (**Invited talk**).

33. **V.R. Radmilović**, "Functional Oxide Thermoelectrics: The Case of ZnO Nanowires", January 24, 2014; Department of Physics, University of Trondheim, Norway; (**Invited talk**).

34. V.R. Radmilović, "Is it possible to form monodisperse core/shell $L1_2$ nanostructures in solids?", European Synchrotron Research Facility (ESRF), Grenoble, France; December 12, 2013. (**Invited talk**)

35. **V.R. Radmilović**, "Atomic Resolution Microscopy and Spectroscopy of Advanced Materials", Commissariat à l'énergie atomique (CEA), Grenoble, France; December 11, 2013. (**Invited talk**)

36. **V.R. Radmilović**, "What do we know about friction at atomic level in gold?", The days of condensed matter phusics symposium, Serbian Academy of Sciences and Arts, September 10-12, 2013, Belgrade, Serbia. (**Invited plenary talk**).

37. **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**)

38. **V.R. Radmilović**, "Aberration Corrected Electron Microscopy of Nanoheterostructures", Chalmers University, March 25, 2013. **(Invited talk)**

39. **Velimir R. Radmilović**, "Interfaces in Nanostructures", Narvnoslovno-tehniška fakulteta, Univerza v Ljubljani, March 15, 2013. **(Invited talk)**

40. **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)**

41. **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.

42. **V.R. Radmilović**, "How To Control Phonon Transport in ZnO Thermoelectrics", Technical University of Dresden, 12/07/2012, Dresden, Germany; **(Department seminar - Invited talk)**

43. **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)**

44. **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)**

45. **V.R. Radmilović**, "Integrative microscopy and collaborative research", NCEM-DOE Review, August 22-23, 2012, Berkeley, California. (**Invited talk**).

46. **V.R. Radmilović**, "Can We Use Quantum Physics Tools to Control Thermoelectric Properties", International Workshop on Modulation and Nanostructuring in Layered Materials, March 29-30, 2012, Institute of Physics, Zagreb, Croatia. **(Invited talk)**

47. **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**)

48. **V.R. Radmilović**, "Da li se termoelektrične osobine ZnO nanožica mogu kontrolisati dizajniranjem strukture na atomarnom nivou", Univerzitet u Beogradu, Fizički fakultet, 25 apil, 2012.g. **(Predavanje po pozivu – Fakultetski seminar)**

49. **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, Strasbourgh, France, April 12, 2012. **(Department seminar - Invited talk)**

50. **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)**

51. **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)**

52. **V.R. Radmilović**, "Is it possible to make ZnO oxide thermoelectrics more efficient", Institue Jozes Stefan, Ljubljana, December 2011. **(Invited talk)**

53. **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)**

54. **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)**

55. **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)**

56. **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).**

57. **V.R. Radmilović**, "Advanced Imaging and Biomedical Applications of Nanomaterials", SANU, Odeljenje tehničkih nauka i Odeljenje medicinskih nauka, 25. Oktobar 2011. **(Invited talk)**

58. 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).**

59. 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.

60. **V.R. Radmilović**, "Why Do We Need Aberration Corrected Microscopy"", University of Novi Sad, May 18, 2011, Novi Sad, Serbia, (**Invited lecture).**

61. 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.

62. 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).**

63. **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).**

64. **V.R. Radmilović**, "Entropy Driven Nucleation of Monodisperse Core/shell Nanostructures", Oxford University, Departmnt of Materials, Oxford, December 9, 2010 (**Invited lecture).**

65. **V.R. Radmilović**, "High Resolution Microscopy and Spectroscopy of Monodisperse Al_3(LiSc) Core/shell Nanostructures", Departmnt of Materials, Imperial Cllege, December 7, 2010 (**Invited lecture).**

66. **V.R. Radmilović**, "High Resolution Microscopy and Spectroscopy of Monodisperse Al_3(LiSc) Core/shell Nanostructures", Lawrence Berkeley National Laboratory, National Center for Electron Microscopy, December 16, 2010 (**Invited lecture).**

67. **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).**

68. **V.R. Radmilović**:"Converging experiments and first principles calculations: Nucleation of complex $L1_2$ nanostructures", University of Montenegro, Podgorica, November 2, 2010, (**Invited lecture).**

69. **V.R. Radmilović**, “Imaging, spectroscopy and first-principles calculation of $L1_2$ nanostructures”, PUC University, Rio de Janeiro, Brazil, September 24, 2010 (**Invited lecture).**

70. **V.R. Radmilović**, “Electron Microscopy and Spectroscopy in Nanostructure Characterization”, Serbian Academy of Sciences and Arts (SASA), June 14, 2010, (**Invited lecture).**

71. **V.R. Radmilović**, “High-resolution electron microscopy and spectroscopy of nanostructures”, Department of Physics, University of Wisconsin, April 2010, (**Invited lecture_Department Colloquium).**

72. **V.R. Radmilović**, “**Core/shell $L1_2$ precipitates in Al-rich alloys**”, Materials Science and Engineering, Stanford University, February 2010, (**Invited lecture_Department Colloquium).**
73. **V.R. Radmilović**, "The use of high-resolution electron microscopy and spectroscopy to study core/shell nanostructures embedded in solids", Erelangen University, 2009 (**Department seminar, Invited lecture).**

74. **V.R. Radmilović**,“Nanocomposite Thin Films for MEMS and NEMS Applications“, Institute of Physics, Belgrade, Serbia. **(Invited lecture)**

75. **V.R. Radmilović**, “TEAM Project: Application of aberration corrected microscopy in characterization of nanostructures”, ITS-SASA, Belgrade, Serbia. **(Invited lecture)**

76. **V.R. Radmilović**, “Can metallic thin films be competitive to Si for MEMS and NEMS applications” ", Erelangen University, 2009 (**Graduate seminar series**, **Invited lecture).**

77. **V.R. Radmilović**, "Nanostructures Embedded in Solids", University of Ljubljana, Institute Jozef Stefan, June 13, 2008 (**Department seminar, Invited lecture).**

78. **V.R. Radmilović**, "Nanostructures Embedded in Solids", University of Nova Gorica, Ajdofčina, Slovenija, June 12, 2008 (**Department seminar, Invited lecture).**

79. **V.R. Radmilović**, “Coarsening of Core/Shell Nanostructures Embedded in Solids”, Electron Microscopy Laboratory, University of Vienna, June 2007, **(Invited lecture).**

80. **V.R. Radmilović**, "Quantitative in-situ uniaxial compression testing of Nanostructured Pillars in a TEM". Deprtment of Physics, University off Vienna, June 2007. (Department seminar, **Invited lecture).**

81. **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).**

82. **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).**

83. **V.R. Radmilović**, "Texture formation in polar crystals", Department of Physics, University of Antwerp, Antwerp, Belgium, June 2006 **(Invited lecture).**

84. **V.R. Radmilović**, "Precipitation kinetics in AlScZr alloys", National Institute for Materials Science, Tskuba, Japan, August 2006, **(Invited lecture).**

85. **V.R. Radmilović**, "Precipitation phenomena in AlScZr alloys", Purdue University, October 2006, (Department seminar, **Invited lecture)**.

86. **V.R. Radmilović**, "Alloy Design", March 2005, University of New Orleans, New Orleans, Louisiana, **(Invited lecture).**

87. **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).**

88. **V.R. Radmilović**, "Core-Shell precipitate structure in AlScZr alloys", University of Montenegro, Podgorica, Montenegro, September 2005, **(Invited lecture).**

89. **V.R. Radmilović**, "Formation of <111> fiber texture in β-SiC films deposited on Si(100) substrates", University of Alberta, Edmonton, October 2005 **(Invited lecture).**

90. **V.R. Radmilović**, "Precipitation hardening phenomena in Al-Si-Ge and Al-Cu-Si-Ge alloys", September 2004, Delft University, Delft, Holland, **(Invited lecture).**

91. **V.R. Radmilović**, "Nanopatterning by platinum deposition in a dual beam FIB", University of Belgrade, Belgrade, Serbia, September 2004, **(Invited lecture).**

92. **V.R. Radmilović**, "Structure and properties of nanovires", University of Montenegro, Podgorica, Montenegro, September 2004, **(Invited lecture).**

93. **V.R. Radmilović**, "Fundamentals of Alloy Design", October 2003, Vandebilt university, Neshville, Tennessee, **(Invited lecture).**

94. **V.R. Radmilović**, "TEM and CALPHAD assisted alloy design", Max Planck Institute, Dusseldorf, August 2002. **(Invited lecture).**

95. **V.R. Radmilović**, "TEM and CALPHAD assisted alloy design", University of Pretoria, Pretoria, South Africa, August 2002. **(Invited lecture)**.

96. **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).**

97. **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).**

98. **V.R. Radmilović**, "Microalloying in aluminum alloy design", University of Montenegro, Podgorica, Montenegro, Yugoslavia, May 2001 **(invited lecture).**

99. **V.R. Radmilović**, "Microstructural characterization of Platinum based electrocatalysts", Materials Science Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, June 2001.

100. **V.R. Radmilović**, "Structure and morphology of S-phase precipitates in aluminum alloys", University of Pittsburgh, School of Engineering, March 2000 **(invited lecture).**

101. **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).**

102. **V.R. Radmilović**, "Structure determination and structure refinment of Al_2CuMg precipitates by quantitative high resolution electron microscopy", Aluminum company of America, ALCOA Technical Center, Pittsburgh, PA, March 2000 **(invited lecture).**

103. **V.R. Radmilović**, "Precipitation phenomena in super-saturated solid solutions", Oak Ridge National Laboratory, Oak Ridge, Tennessee, May 2000.

104. **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).**

105. **V.R. Radmilović**, "Physical metallurgy fundamentals of Al-Li based alloys", University "St. Kiril & Metodij", Skopje, Macedonia, May 1997. **(Invited lecture).**

106. **V.R. Radmilović**, "High resolution electron microscopy - Application in materials science", University of Maryland, August 1997 **(invited lecture).**

107. **V.R. Radmilović**, "Structure and chemical composition of Pt-Ru catalysts", University of Pittsburgh, USA, September 20, 1994. **(Invited lecture).**

108. **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.

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I. Patents and Patent Disclosures

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