

Vuk Uskoković

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Personal Information:

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Bio Narrative:

Vuk Uskoković, PhD, MSc, MS, BSc, is a Serbian-Slovenian-American scientist and educator, currently the Cofounder and Chief Scientific Officer at TardigradeNano LLC, a biotech startup and think tank located in Irvine, California, and a lecturer in engineering at San Diego State University. Dr. Uskoković holds degrees in physical chemistry, materials science and engineering, and nanoscience and nanotechnologies. Prior to his current appointments, he was a visiting and assistant professor in the schools of engineering, pharmacy and medicine at the University of California in Irvine, Chapman University and University of Illinois in Chicago, respectively, where he taught biomaterials, nanophysics, medical devices, biologics, bio-optics, and other subjects. He was also a principal investigator and a research scientist at University of California in San Francisco, Clarkson University in New York, Jožef Stefan Institute in Slovenia, and the Serbian Academy of Sciences and Arts. Dr. Uskoković is the Director of the Advanced Materials and Nanobiotechnology Laboratory, whose broad aim is to synthesize and understand the fundamental properties of advanced nanomaterials and harness them to address various medical and pharmaceutical needs. Dr. Uskoković's research program is focused on the application of soft and colloidal chemistry techniques for the purpose of creating nanoscale materials for biomedical applications, including targeted and controlled drug delivery, bone tissue engineering and advanced antimicrobial and anticancer therapies. Dr. Uskoković is the recipient of the prestigious Pathway to Independence Award from the National Institutes of Health and an author of over 200 research papers, review articles and essays from various fields of natural science and humanities. A true renaissance scientist, Dr. Uskoković has a long history of contribution to arts and humanities, which complements and inspires his lifelong dedication to research in natural sciences. Most prominently, this contribution includes his pioneering work on treating scientific paper as a medium for combined displays of analytical rigor, scientific novelty, humanistic values and artistic expression.

Professional experience / Employment history:

August 23, 2021 – Present, Lecturer

Department of Mechanical Engineering, San Diego State University, San Diego, CA, USA.

August 4, 2020 – Present, Co-Founder & Chief Scientific Officer

TardigradeNano LLC, Irvine, CA, USA.

June 1, 2019 – August 3, 2020, Visiting Professor

Department of Mechanical and Aerospace Engineering, Henry Samueli School of Engineering, University of California, Irvine, CA, USA.

August 1, 2016 – May 31, 2018, Assistant/Associate Professor

Department of Biomedical and Pharmaceutical Sciences, School of Pharmacy, Chapman University, Irvine, CA, USA.

January 1, 2014 – July 31, 2019, (Adjunct) Assistant Professor

Head, Advanced Materials and Nanobiotechnology Laboratory, Department of Bioengineering, School of Medicine and School of Engineering, University of Illinois, Chicago, IL, USA.

November 1, 2010 – December 31, 2013, Staff Scientist

Therapeutic Micro and Nanotechnology Laboratory, Department of Bioengineering and Therapeutic Sciences, Schools of Pharmacy and Medicine, University of California, San Francisco, CA, USA.

October 31, 2007 – October 31, 2010, Postdoctoral Research Scientist

Division of Biomaterials and Bioengineering, Department of Preventive and Restorative Dental Sciences, School of Dentistry, University of California, San Francisco, CA, USA

April 1, 2006 – May 31, 2007, Postdoctoral Research Scientist

Colloid and Nanoparticle Research Group, Center for Advanced Materials Processing, Wallace H. Coulter School of Engineering, Clarkson University, Potsdam, NY, USA

June 6, 2002 – March 31, 2006, Research Scientist

Advanced Materials Department, Jožef Stefan Institute, Ljubljana, Slovenia

April 1 – July 31, 2001, Research Intern

Institute of Technical Sciences, Serbian Academy of Sciences and Arts & Vinča Institute of Nuclear Sciences, Belgrade, Yugoslavia

1994 - 1995, Construction Worker

Kamber D.O.O. Interior Design Agency, Belgrade, Yugoslavia

1989 – 1994, Software Acquisitor, Programmer and Sales Agent

Wolflin & Gremlinsoft Computers, Belgrade, Yugoslavia

Education / Training:

2016 – 2018: Assistant Professor, *Biomedical and Pharmaceutical Sciences*

Dept. of Biomedical and Pharmaceutical Sciences, Chapman University, Irvine, CA, USA

Mentor: Keykavous Parang

2014 – 2016: Assistant Professor, *Bioengineering*

Dept. of Bioengineering, University of Illinois, Chicago, IL, USA

Mentor: David Eddington

2010 – 2013: NIH Pathway to Independence Fellowship, *Controlled Drug Delivery*

Dept. of Bioengineering and Therapeutic Sciences, University of California San Francisco, CA, USA

Mentor: Tejal Desai

2007 – 2010: Postdoctoral Scholarship, *Biomaterialization and Biomimetics*

Dept. of Preventive and Restorative Dental Sciences, University of California San Francisco, CA, USA

Mentor: Stefan Habelitz

2006 – 2007: Postdoctoral Scholarship, *Colloid Chemistry and Fine Particle Synthesis*

Center for Advanced Materials Processing, Clarkson University, Potsdam, NY, 2006 – 2007.

Mentor: Egon Matijević

2003 – 2006: Doctor of Philosophy (Ph.D.), *Nanoscience and Nanotechnologies*

Jožef Stefan Institute, Ljubljana, Slovenia, 2006.

Mentor: Miha Drofenik

2001 – 2003: Master of Science (M.Sc.), *Materials Science & Engineering*

University of Kragujevac, Serbia and Montenegro, 2003.

Mentor: Nebojša Mitrović

1995 – 2001: Bachelor of Science (B.Sc.) and Master of Science (MS), *Physical Chemistry*

University of Belgrade, Yugoslavia, 2001.

Mentor: Nadežda Petranović

Publications:

Peer-Reviewed Papers and Preprints:

Vuk Uskoković – “YUCOMAT 2023: An International Advisory Board Member’s Digest”, *Materials Proceedings* 16, 1 (2023).

Vuk Uskoković – “How the Game of Soccer Can Foster Creative Research in Natural Sciences”, *Retos* 51, 179 – 199 (2023).

Evangelina Uskoković, Theo Uskoković, **Vuk Uskoković** – “Untitled #8: New Adventures in Conceptual Science of and for the Children - Liberating Science from the Serfdom of the Word to Create the World”, *Social Science Research Network (SSRN)* 4558293, <http://dx.doi.org/10.2139/ssrn.4558293> (2023).

Rania Ramadan, Ghada A. Alzaidy, Fahad N. Almutairi, **Vuk Uskoković** – “Comparative Analysis of Adsorption of Pb(II) Ions by Different Hexagonal Nanoferrites Synthesized Using the Flash-Combustion Method”, *Applied Physics A* 129, 753 (2023).

Vuk Uskoković – “Paving Way for a Paradigm Shift in Oncology: Curing Cancer by Loving It?”, *Micro* 3, 749 – 762 (2023).

Vuk Uskoković – “Grand Challenges in Materials Science: A Special Issue”, *Materials* 16, 6109 (2023).

Parvin Zamani, Mohammad Mashreghi, Mahere Rezazade Bazaz, Selma Zargari, Farzaneh Alizadeh, Mahyar Dorriv, Asghar Abdoli, Hossein Aminianfar, Mahdi Hatamipour, Javad Zarqi, Saeed Behboodifar, Yalda Samsami, Saeideh Khorshid Sokhangouy, Yahya Sefidbakht, **Vuk Uskoković**, Seyed Mahdi Rezayat, Mahmoud Reza Jaafari, Sina Mozaffari-Jovin - "Characterization of Stability, Safety and Immunogenicity of the mRNA Lipid Nanoparticle Vaccine Iribovax® against COVID-19 in Nonhuman Primates", *Journal of Controlled Release* 360, 316 – 334 (2023).

Evangelina Uskoković, Theo Uskoković, **Vuk Uskoković** – "A Beach Ball's Set to Fly: The Children's Science Revolution", *Social Science Research Network (SSRN)* 4446493, <http://dx.doi.org/10.2139/ssrn.4446493> (2023).

Ljubica Andjelković, Marija Šuljagić, Miljana Mirković, Vera P. Pavlović, Ivan Petronijević, Dalibor Stanković, Dejan Jeremić, **Vuk Uskoković** – "Semiconducting Cobalt Oxide Nanocatalyst Obtained through an Eco-Friendly Thermal Decomposition", *Ceramics International* 49 (14) 23491 – 23498 (2023).

Vuk Uskoković – "A Star", *Social Science Research Network (SSRN)* 4523523, <http://dx.doi.org/10.2139/ssrn.4523523>.

Vuk Uskoković – "SF Pop Art Diary: Of Love and Wonder in the Air", *Social Science Research Network (SSRN)* 4501817, <http://dx.doi.org/10.2139/ssrn.4501817>.

Vuk Uskoković – "SF Pensées: A Peer into a Cosmos of Starry Thoughts", *Social Science Research Network (SSRN)* 4477842, <http://dx.doi.org/10.2139/ssrn.4477842>.

Vuk Uskoković - "SOS & POW: A Postmodernist View of Cognition, Theosophy and Aesthetics in the New Age", *Social Science Research Network (SSRN)* 4452789, <http://dx.doi.org/10.2139/ssrn.4452789>.

Vuk Uskoković - "Conceptual Bases of a Quantitative Method for Assessing the Transferability of Medical Technologies across the Rich-Poor Divide", *Journal of the Knowledge Economy* (in press, 2023).

Vuk Uskoković – "Learning from a Dark Brew: How Traditional Coffee-Making Can Inspire the Search for Improved Colloidal Stability", *Journal of Dispersion Science and Technology* (in press, 2023).

Vuk Uskoković, Victoria M. Wu – "The Lifesaving Power of Flowers: Experiments Anyone Can Do", *Frontiers for Young Minds* 11, 969507 (2023).

Vuk Uskoković – "SKOOL DAZE: A Plea for Dissentience", *Journal of Religion, Film and Media* 9 (1) 69 – 104 (2023).

Vuk Uskoković - "Lessons from the History of Inorganic Nanoparticles for Inhalable Diagnostics and Therapeutics", *Advances in Colloid and Interface Science* 315, 102903 (2023).

Vuk Uskoković – "Natural Sciences and Chess: A Romantic Relationship Missing from Higher Education Curricula", *Heliyon* 9 (4) e15015 (2023).

Fatemeh Bayani, Negin Safaei Hashkavaei, Sareh Arjmand, Shokouh Rezaei, **Vuk Uskoković**, Mahdi Alijanianzadeh, Vladimir N. Uversky, Seyed Ehsan Ranaei Siadat, Sina Mozaffari-Jovin, Yahya

Sefidbakht – “An Overview of the Vaccine Platforms to Combat COVID-19 with a Focus on the Subunit Vaccines”, *Progress in Biophysics and Molecular Biology* 178, 32 – 49 (2023).

Fatemeh Bayani, Mohammad Reza Karamian, **Vuk Uskoković**, Yahya Sefidbakht – “*In silico* Design of a Multi-Epitope Vaccine against the Spike and the Nucleocapsid Proteins of the Omicron Variant of SARS-CoV-2”, *Journal of Biomolecular Structure and Dynamics* (in press, 2023).

Rania Ramadan, **Vuk Uskoković**, Mai M. El-Masry – “Triphasic CoFe₂O₄/ ZnFe₂O₄ / CuFe₂O₄ Nanocomposite for Water Treatment Applications”, *Journal of Alloys and Compounds* 954, 170040 (2023).

Vuk Uskoković – “Supplementation of Polymeric Reservoirs with Redox-Responsive Metallic Nanoparticles as a New Concept for the Smart Delivery of Insulin in Diabetes”, *Materials* 16, 786 (2023).

Evangelina Uskoković, Theo Uskoković, Victoria Wu, **Vuk Uskoković** – “Chutes too Narrow: The Brazil Nut Effect and the Blessings of the Fall”, *Foundations of Science* 28, 627 – 708 (2023).

Mohammad A. I. Al-Hatamleh, M. A. Abusalah, Ma'mon M. Hatmal, Walhan Alshaer, Suhana Ahmad, Manali Haniti Mohd-Zahid, Engku Nur Syafirah E. A. Rahman, Chan Yean Yean, Iskandar Z. Alias, **Vuk Uskoković**, Rohimah Mohamud – “Understanding the Challenges to COVID-19 Vaccines and Treatment Options, Herd Immunity and Probability of Reinfection”, *Journal of Taibah University Medical Sciences* 18 (3) 600 – 638 (2023).

Nurul Hakimah Mohd Salim, Ali Mussa, Naveed Ahmad, Suhana Ahmed, Chan Yean Yean, Rosline Hassan, **Vuk Uskoković**, Rohimah Mohamud, Nur Asyilla Che Jalil – “The Immunosuppressive Effect of TNFR2 Expression in the Colorectal Cancer Microenvironment”, *Biomedicines* 11, 173 (2023).

Rozafa Koliqi, Arlinda Daka Grapci, Pranvera Breznica Selmani, **Vuk Uskoković** – “Gene Expression Effects of the Delivery of SN-38 via Poly(D-L-Lactide-co-Caprolactone) Nanoparticles Comprising Dense and Collapsed Poloxamer Coronae”, *Journal of Pharmaceutical Innovation* (in press, 2022).

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Saeed Ahmed, Sadia Zafar, Farhat Jabeen, Naheed Akhter, Muhammad Akram, Ejaz Mohiuddin, Syed Muhammad Ali Shah, Sheraz Siddiqui, Muhammad Amjad Chishti, Ghulam Sarwar, Muhammad Zeeshan Manzoor, Atheer Kadhim Ibadi, Walid S Mousa, Agabus Chidiebube Nwuzo, **Vuk Uskoković** – “Antipyretic Activity of Medicinal Plants from the Thal Desert”, *Letters in Applied BioNanoScience* 12 (3) 62 (2023).

Vuk Uskoković – “Micronesian Maritime Piloting Charts as Bioimaging Proxies for the Rescue of Cells on the Apoptotic Trajectory”, *Heliyon* 8 (12) e12035 (2022).

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- Vuk Uskoković**, Victoria M. Wu - “Altering Microbiomes with Hydroxyapatite Nanoparticles: A Metagenomic Analysis”, *Materials* 15, 5824 (2022).
- Evangelina Uskoković, Theo Uskoković, **Vuk Uskoković** – “Eternal Summer: In the Footsteps of Children’s Science”, *Social Science Research Network (SSRN)* 4177409, <http://dx.doi.org/10.2139/ssrn.4177409> (2022).
- Vuk Uskoković** – “Indigenous Sand Drawings as Predictors of the Cell Response to Nanoparticle Therapy”, *Substantia: An International Journal of the History of Chemistry* 6 (2) 27 – 42 (2022).
- Vuk Uskoković**, Ana Pejčić, Rozafa Koliqi, Zlatibor Anđelković – “Polymeric Nanotechnologies for the Treatment of Periodontitis: A Chronological Review”, *International Journal of Pharmaceutics* 625, 122065 (2022).
- Vuk Uskoković**, Nenad Ignjatović, Srečo Škapin, Dragan P. Uskoković – “Germanium-Doped Hydroxyapatite: Synthesis and Characterization of a New Substituted Apatite”, *Ceramics International* 48, 27693 – 27702 (2022).
- Marija Šuljagić, Milica Milenković, **Vuk Uskoković**, Miljana Mirković, Boško Vrbica, Vladimir Pavlović, Vukosava Živković-Radovanović, Dalibor Stanković, Ljubica Anđelković – “Silver Distribution and Binding Mode as Key Determinants of the Antimicrobial Performance of Iron-Oxide/Silver Nanocomposites”, *Materials Today Communications* 32, 104157 (2022).
- Vuk Uskoković**, Victoria M. Wu - “When Nothing Turns Itself Inside Out and Becomes Something: Coating Poly(Lactic-co-Glycolic Acid) Nanoparticles with Hydroxyapatite vs. the Other Way Around”, *Journal of Functional Biomaterials* 13, 102 (2022).
- Lidawani Lambuk, Nurfatihah Azlyna Ahmad Suhaimi, Muhammad Zulfiqah Sadikan, Azliana Jusnida Ahmad Jafri, Nurul Alimah Abdul Nasir, **Vuk Uskoković**, Ramlah Kadir, Rohimah Mohamud – “Nanoparticles for the Treatment of Glaucoma-Associated Neuroinflammation”, *Eye and Vision* 9, 26 (2022).
- Ali Mussa, Ros Akmal Mohd Idris, Naveed Ahmed, Suhana Ahmad, Ahmad Hafiz Murtadha, Tengku Ahmad Damitri Al Astani Tengku Din, Chan Yean Yean, Wan Faiziah Wan Abdul Rahman, Norhafiza Mat Lazim, **Vuk Uskoković**, Khalid Hajissa, Noor Fatmawati, Fatmawati Mokhtar, Rohimah Mohamud, Rosline Hassan – “High-Dose Vitamin C for Cancer Therapy”, *Pharmaceutics* 15 (6) 711 (2022).
- Vuk Uskoković** – “Toward Functionalization without Functional Agents: An X-ray Photoelectron Spectroscopy Study”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 651, 129676 (2022).
- Evangelina W. Uskoković, Theo W. Uskoković, **Vuk Uskoković** – “Being There: If the Pairing of the Birdwatchers Affects the Pairing of the Birds”, *Relations: Beyond Anthropocentrism* 10 (1) 58 – 81 (2022).
- Evangelina Uskoković, Theo Uskoković, **Vuk Uskoković** – “Watching Children Play: Toward the Earth in Bliss”, *Childhood & Philosophy* 18, 1 – 42 (2022).

- Lidawani Lambuk, Mohd Aizzuddin Mohd Lazaldin, Suhana Ahmad, Igor Iezhitsa, Renu Agarwal, **Vuk Uskoković**, Juhana Jaafar, Rohimah Mohamud – “Brain-Derived Neutrophic Factor-Mediated Neuroprotection in Glaucoma: A Review of Current State of the Art”, *Frontiers in Pharmacology* 13: 875662 (2022).
- Mohammad A. I. Al-Hatamleh, Walhan Alshaer, Ma'mon M. Hatmal, Lidawani Lambuk, Naveed Ahmed, Mohd Zulkifli Mustaf, Siew Chun Low, Juhana Jaafar, Khalid Ferji, Jean-Luc Six, **Vuk Uskoković**, Rohimah Mohamud – “Applications of Alginate-Based Nanomaterials in Enhancing the Therapeutic Effects of Bee Products”, *Frontiers in Molecular Biosciences* 9, 865833 (2022).
- Nur Ellene Mat Luwi, Suhana Ahmad, Ahmad Suhaimi Nurfatihah Azlyna, Asyikin Nordin, Maria Elena Sarmiento, Armando Acosta, Mohd Nor NorAzmi, **Vuk Uskoković**, Rohimah Mohamud, Ramlah Kadir – “Liposomes as Immunological Adjuvants and Delivery Systems in the Development of Tuberculosis Vaccine: A Review”, *Asian Pacific Journal of Tropical Medicine* 15, 7 – 16 (2022).
- Shokouh Rezaei, Yahya Sefidbakht, **Vuk Uskoković** - “Comparative Molecular Dynamics Study of the Receptor-Binding Domains in SARS-CoV-2 and SARS-CoV and the Effects of Mutations on the Binding Affinity”, *Journal of Biomolecular Structure & Dynamics* 40 (10) 4662 – 4681 (2022).
- Ahmad Aziz, Yahya Sefidbakht, Shokouh Rezaei, Hasan Kouchakzadeh, **Vuk Uskoković** – “Doxorubicin-Loaded, pH-Sensitive Albumin Nanoparticles for Lung Cancer Cell Targeting”, *Journal of Pharmaceutical Sciences* 111 (4) 1187 – 1196 (2022).
- Marco Fosca, Julietta Rau, **Vuk Uskoković** – “Factors Influencing the Drug Release from Calcium Phosphate Cements”, *Bioactive Materials* 7, 341 – 363 (2022).
- Vuk Uskoković** – “An Odyssey at the Interface – A Study in the Stream of Consciousness”, *Biointerface Research in Applied Chemistry* 12 (4) 5150 – 5160 (2022).
- Shokouh Rezaei, Yahya Sefidbakht, **Vuk Uskoković** – “Tracking the Pipeline: Immunoinformatics and the COVID-19 Vaccine Design”, *Briefings in Bioinformatics* 22 (6) 1 – 20 (2021).
- Hajar Zarei, Mostean Bahreinipour, Yahya Sefidbakht, Shokouh Rezaei, Rouhollah Gheisari, Susan Kabudanian Ardestani, **Vuk Uskoković**, Hiroshi Watabe – “Radioprotective Role of Vitamins C and E against the Gamma Ray-Induced Damage to the Chemical Structure of Bovine Serum Albumin”, *Antioxidants* 10, 1875 (2021).
- Inna V. Fadeeva, Bogdan I. Lazoryak, Galina A. Davidova, Fadis F. Murzakhanov, Bulat F. Gabbasov, Natalya V. Petrakova, Marco Fosca, Sergey M. Barinov, Gianluca Vadalà, **Vuk Uskoković**, Yufeng Zheng, Julietta V. Rau – “Antibacterial and Cell-Friendly Copper-Substituted Tricalcium Phosphate Ceramics for Biomedical Implant Applications”, *Materials Science and Engineering C* 129, 112410 (2021).
- Vuk Uskoković** – “A Historical Review of Glassy Carbon: Synthesis, Structure, Properties and Applications”, *Carbon Trends* 5, 100116 (2021).
- Jacob Jokisaari, Xuan Hu, Arijita Mukherjee, **Vuk Uskoković**, Robert Klie - “Hydroxyapatite as a Scavenger of Reactive Radiolysis Species in Graphene Liquid Cells for *in situ* Electron Microscopy”, *Nanotechnology* 32, 485707 (2021).

- Vuk Uskoković**, Miha Drogenik – “Gold-Embellished Mixed-Valence Manganite as a Smart, Self-Regulating Magnetoplasmonic Nanomaterial”, *Materials Chemistry and Physics* 271, 124870 (2021).
- Lorenzo Degli Espositi, Smilja Marković, Nenad Ignjatović, Silvia Panseri, Monica Montesi, Alessio Adamiano, Marco Fosca, Julietta Rau, **Vuk Uskoković**, Michele Iafisco – “Thermal Crystallization of Amorphous Calcium Phosphate Combined with Citrate and Fluoride Doping: A Novel Route to Produce Hydroxyapatite Bioceramics”, *Journal of Materials Chemistry B* 9 (24) 4832 - 4845 (2021).
- Manali Haniti Mohd-Zahid, Siti Nadiah Zulkifli, Che Azurahaman Che Abdullah, JitKang Lim, Sharida Fakurazi, Kah Keng Wong, Andee Dzulkarnaen Zakaria, Norzila Ismail, **Vuk Uskoković**, Rohimah Mohamud, Iskandar Z.A. – “Gold nanoparticles conjugated with anti-CD133 monoclonal antibody and 5-fluorouracil chemotherapeutic agent as nanocarriers for cancer cell targeting”, *RSC Advances* 11 (26) 16131 - 16141 (2021).
- Komathi Perumal, Suhana Ahmad, Manali Haniti Mohd-Zahid, Wan Nurhidayah Wan Hanaffi, Iskandar Z.A, Jennifer Carla Boer, Khalid Ferji, **Vuk Uskoković**, Juhana Jaafar, Rohimah Mahmud – “Nanoparticles and Gut Microbiota in Colorectal Cancer”, *Frontiers in Nanotechnology* 3, 681760 (2021).
- Vuk Uskoković** – “Health Economics Matters in the Nanomaterial World: Cost-Effectiveness of Utilizing an Inhalable Antibacterial Nanomaterial for the Treatment of Pneumonia Caused by Multidrug-Resistant *Pseudomonas aeruginosa*”, *Technology in Society* 66, 101641 (2021).
- Vuk Uskoković**, Gabriel Abuna, Paulo Ferreira, Victoria M. Wu, Laurie Gower, Fernanda Carvalho Panzeri Pires-de-Souza, Ramiro Mendonca Murata, Mario Alexandre Coelho Sinhoreti, Saulo Geraldini - “Synthesis and Characterization of Nanoparticulate Niobium- and Zinc-Doped Bioglass-Ceramic/Chitosan Hybrids for Dental Applications”, *Journal of Sol-Gel Science and Technology* 97 (2) 245 – 258 (2021).
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- Vuk Uskoković** – “Nanomedicine for the Poor: A Lost Cause or an Idea whose Time Has Yet to Come?”, *Nanomedicine* 16 (14) 1203 – 1218 (2021).
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Oleg V. Subotin – “Materials Extrusion-Inspired Engineering Reflection of Social Pressure-Induced Environmental Impact on Academy Community Well-Being”, *Work* 68 (2) 333 – 352 (2021).

Mohammad AI Al-Hatamleh, M Hatmal Ma'mon, Walhan Alshaer, Engku Nur Syafirah EA Rahman, Manali Haniti Mohd-Zahid, Dina M Alhaj-Qasem, Chan Yean Yean, Iskandar Z Alias, Juhana Jaafar, Khalid Ferji, Jean-Luc Six, **Vuk Uskoković**, Hiroshi Yabu, Rohimah Mohamud – “COVID-19 Infection and Nanomedicine Applications for Development of Vaccines and Therapeutics: An Overview and Future Perspectives Based on Polymersomes”, *European Journal of Pharmacology* 896, 173930 (2021).

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Vuk Uskoković – “Blowup of Accidental Images as a Passageway to Discovery: Insights into the Interaction between Hydroxyapatite Nanoparticles and Human Mesenchymal Stem Cells”, *Applied Sciences* 10, 8204 (2020).

Angela De Bonis, **Vuk Uskoković**, Katia Barbaro, Inna Fadeeva, Mariangela Curcio, Luca Imperatori, Roberto Teghil, Julietta V. Rau – “Pulsed Laser Deposition Temperature Effects on Strontium-Substituted Hydroxyapatite Thin Films for Biomedical Implants”, *Cell Biology and Toxicology* 36 (6) 537 – 551 (2020).

Evangelina Uskoković, Theo Uskoković, Victoria M. Wu, **Vuk Uskoković** – “...And All the World a Dream: Memory Effects Outlining the Path to Explaining the Strange Temperature-Dependency of Crystallization of Water, a.k.a. the Mpemba Effect”, *Substantia: An International Journal of the History of Chemistry* 4 (2) 59 – 117 (2020).

Victoria M. Wu, Mohamed K. Ahmed, Mervat S. Mostafa, **Vuk Uskoković** – “Empirical and Theoretical Insights into the Structural Effects of Selenite Doping in Hydroxyapatite and the Ensuing Inhibition of Osteoclasts”, *Materials Science and Engineering C: Materials for Biological Applications* 117, 111257 (2020).

Mohamed K. Ahmed, Mohamed Afifi, **Vuk Uskoković** – “Statistical Prediction of the Evolution of COVID-19 Outbreak in Egypt”, *JMIR Preprints* 22230 (2020).

Nenad L. Ignjatović, Smilja Marković, Dragana Jugović, **Vuk Uskoković**, Dragan P. Uskoković – “From Molecules to Nanoparticles to Functional Materials – Authors’ Review”, *Journal of the Serbian Chemical Society* 85 (11) 1383 – 1403 (2020).

Vuk Uskoković, Eric Huynh, Victoria M. Wu – “Mimicking the Transit of Nanoparticles through the Body: When the Path Determines Properties at the Destination”, *Journal of Nanoparticle Research* 22, 184 (2020).

Mohamed Afifi, Mohamed K. Ahmed, Ahlam M. Fathi, **Vuk Uskoković** – “Physical, Electrochemical and Biological Evaluations of Spin-Coated ϵ -Polycaprolactone Thin Films Containing Alumina/Graphene/Carbonated Hydroxyapatite/Titania for Tissue Engineering Applications”, *International Journal of Pharmaceutics* 585, 119503 (2020).

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- Lucy Chard – “A peek behind the paper – Vuk Uskoković on why have nanotechnologies been underutilized in the global uprising against the coronavirus pandemic?”, *The Nanomed Zone* (July 16, 2020), available at <https://www.nanomedzone.com/covid-19-nanotechnologies-underutilized-against-the-coronavirus-pandemic/>.
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Acknowledgments:

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Anton P. Železnikar – “On the Way to Information 1”, Artificio, Ljubljana (2006). **Note: acknowledged for “impacting the author’s attitude and strengthening some of his concepts”**

Musical works:

Vuk Uskoković – “Starry Train”, LP, Amazon, Scotts Valley, CA (2008). **Note: a selection of 200 pieces for three guitars composed and recorded by 2001 and available at uskokovic.yolasite.com**

Vuk Uskoković – “Mysteries to Find”, LP, In: Odbrana devedesetih, Škart records, Belgrade, Serbia (2000). **Note: a compilation of records by alternative bands and solo artists from Belgrade of the 1990s.**

Tišina kod poluzvezde – “Live at the Belgrade Youth Center”, LP, Halbstar Records, Belgrade, Serbia (2000). **Note: lead guitar and creative contribution in the postrock band.**

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Presentations:

*All conference presentations listed below are associated with proceedings as separate bibliographic units not listed in this CV.

Invited and Plenary Talks:

- A Road Less Traveled in a Career in Sciences*, Scientific Symposium: Days or Diaspora and Scientific Partners of Montenegro, University of Montenegro, Podgorica, Montenegro, October 18, 2023.
- Selected Research from the Past Decade and Current Development Opportunities*, Scientific Symposium: Days or Diaspora and Scientific Partners of Montenegro, University of Montenegro, Podgorica, Montenegro, October 18, 2023.
- Nanotechnologies in the Quest for the Invisibly Small*, Invited Lecture, Sci | Art Lab + Studio Summer Institute, Dodd Hall, Philosophy, Classics and Art History Departments, University of California, Los Angeles, June 27, 2023.
- SARS-CoV-2: Molecular Interaction Specifics Viewed through the Prism of Nanotechnologies*, Plenary Lecture, 24th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, August 28, 2022.
- Nanotechnologies: Time to Be So Small*, Invited Lecture, Sci | Art Lab + Studio Summer Institute, Dodd Hall, Philosophy, Classics and Art History Departments, University of California, Los Angeles, June 28, 2022.
- Nanomedicine for the Poor*, Burroughs Wellcome Fund Think Tank, “Technology Innovation for Equitable Clinical Outcomes”, San Francisco, CA, June 26 – 28, 2022. **Note: Postponed “due to significant staffing changes”.**
- Materials Science of and for the Poor*, Plenary Lecture, 22nd YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2020. **Note: Canceled because of the COVID-19 pandemic.**
- Calcium Phosphate Nanoparticles as New-Generation Antimicrobials to Combat the Problems of Antibiotic Resistance*, 8th International Congress of Ceramics, Bexco, Busan, South Korea, August 22 – 27, 2020. **Note: Canceled because of the COVID-19 pandemic.**
- Calcium Phosphate Nanoparticles for the Treatment of Infectious and Chronic Disease*, Invited Lecture, School of Engineering, San Diego State University, San Diego, CA, November 12, 2019.
- Earthicle and Its Discontents*, Plenary Lecture, 21st YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 3, 2019.
- Understanding Nanotechnologies: Time to Be So Small*, Invited Lecture, Sci | Art Lab + Studio Summer Institute, California NanoSystems Institute, University of California, Los Angeles, July 30, 2019.
- Making a Full Circle: Advancements in Bone Grafts Based on Pure Calcium Phosphates*, Invited Lecture, 2nd Global Forum on Advanced Materials and Technologies for Sustainable Development (GFMAT-2) and 4th International Conference on Innovations in Biomaterials, Biomanufacturing, and Biotechnologies (Bio-4) (GFMAT-2 / BIO-4), American Ceramic Society, Toronto, ON, July 25, 2019.
- Nanomedicine for the Treatment of Infectious and Chronic Disease: From Bone to Brain*, Invited Lecture, Department of Materials Science and Engineering & Institute for Biomaterials and Biomedical Engineering, University of Toronto, Toronto, ON, July 24, 2019.

- Nanomedicine for the Treatment of Infectious and Chronic Disease***, Center for Minimally Invasive Therapeutics, California NanoSystems Institute, University of California at Los Angeles, Los Angeles, CA, April 30, 2019.
- Ceramic Nanoparticles for Advanced Biomedical Applications: From Bone to Brain***, Bioengineering Department Seminar, Bourns College of Engineering, University of California at Riverside, Riverside, CA, April 10, 2019.
- Ceramic Nanoparticles for Advanced Biomedical Applications: From Bone to Brain***, Plenary Lecture, 20th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 4, 2018.
- Ceramic Nanoparticles for Advanced Biomedical Applications: From Bone to Brain***, Invited Lecture, Department of Chemical Engineering, Northeastern University, Boston, MA, May 24, 2018.
- Nanoparticles for Advanced Biomedical Applications: From Bone to Brain***, Invited Lecture, Department of Biomedical Engineering, Columbia University, New York, NY, May 22, 2018.
- Calcium Phosphate: A David among Goliaths in the Realm of Materials for Tissue Engineering and Drug Delivery***, Invited Presentation, Department of Biomaterials, College of Dentistry, New York University, New York, NY, May 21, 2018.
- Rebirth of Bone Mineral in Biomedicine: From an Antibiotic Alternative to Targeted Anticancer Therapies***, Keynote Lecture, TechConnect World Innovation Conference & Expo, Anaheim, CA, May 16, 2018.
- Revisiting the Potential of Calcium Phosphate Nanoparticles: From Cell Reprogramming to Targeted Anticancer Therapies***, Invited Lecture, Department of Biomedical and Pharmaceutical Sciences, University of Montana, Missoula, May 14, 2018.
- Ceramic Nanoparticles for Advanced Biomedical Applications: From Bone to Brain***, Invited Lecture, Department of Chemistry, University of California at Santa Cruz, Santa Cruz, CA, May 11, 2018.
- The Forthcoming Renaissance for Calcium Phosphate Nanoparticles in Biomedicine***, Invited Lecture, Oregon Health & Science University, Portland, OR, May 9, 2018.
- The Forthcoming Renaissance for Calcium Phosphate Nanoparticles in Biomedicine***, Keynote Lecture, NanoWorld Conference, San Francisco, CA, April 25, 2018.
- Nanoparticulate Calcium Phosphate: A David among Goliaths in the Realm of Biomedical Materials***, Invited Lecture, Departments of Chemical Engineering and Biotechnology and Food Engineering, Technion – Israel Institute of Technology, Haifa, Israel, April 11, 2018. **Note: cancelled because of the inability to travel; PPTs distributed to to-be-attendees.**
- The Approaching Renaissance for Calcium Phosphate Nanoparticles in Biomedicine***, Materials Science and Engineering Department Seminar, Bourns College of Engineering, University of California at Riverside, Riverside, CA, November 8, 2017.

- Calcium Phosphate as a Key Material for Socially Responsible Tissue Engineering***, Plenary Lecture, 19th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 6, 2017.
- From Controlled Drug Delivery to Gene Therapies to Bone Regeneration: Calcium Phosphate Nanoparticles as Essential Components of Advanced Biomaterials***, Plenary Lecture, Frontiers in Pharmaceutical and Biomedical Sciences Conference, Irvine, CA, November 17, 2016.
- Calcium Phosphate: A Humane Material for the Biomedical Technologies of the Future***, Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia, October 21, 2016.
- Calcium Phosphate: A David among Goliaths in the Realm of Materials for the Regeneration of Bone***, Invited Lecture, Department of Chemistry, Sapienza University of Rome, Rome, Italy, October 18, 2016.
- From Controlled Drug Delivery to Gene Therapies to Bone Regeneration: Calcium Phosphate Nanoparticles as Essential Components of Advanced Biomaterials***, Plenary Lecture, 18th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 9, 2016.
- Trends in the Science and Technology of Nanoscale Materials and their Biomedical Applications***, Chemistry Summer School Seminar, Petnica Research Center, Petnica, Serbia, June 16, 2016.
- Calcium Phosphate: The Protagonist in the Tale of a Minimalistic Magic***, Chemistry Summer School Seminar, Petnica Research Center, Petnica, Serbia, June 16, 2016.
- From Controlled Drug Delivery to Gene Therapies to Bone Regeneration: Calcium Phosphate Nanoparticles as Essential Components of Advanced Biomaterials***, Keynote Lecture, TechConnect World Innovation Conference & Expo, Washington, DC, May 23, 2016.
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- The Role of Recombinant Proteins in Therapeutic Strategies***, Department of Biomedical and Pharmaceutical Sciences, Chapman University School of Pharmacy, Irvine, CA, April 12, 2016.
- Deficiencies and Potentialities of Calcium Phosphate Nanoparticles as Components of Advanced Biomaterials***, Keynote Lecture, ISN2A - International Symposium on Nanoparticles/Nanomaterials and Applications, Costa de Caparica, Portugal, January 18 – 21, 2016.
- Nanobiotechnology: A Discipline at a Crossroads***, 30-Hour Global Initiative for Academic Networks Winter Term Course, Indian Institute of Technology at Kharagpur, Kharagpur, India, December 14 – 28, 2015.
Note: All lectures available via YouTube.
- Calcium Phosphate: A David among Goliaths in the Realm of Materials for Regeneration of Osseous Tissues***, Department of Chemical Engineering and Materials Science, University of California at Irvine, Irvine, CA, October 30, 2015.

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- Nanoparticles and Intelligent Materials for Regenerative Medicine, Keynote Lecture***, 7th World Congress on Preventive and Regenerative Medicine, Chientan Youth Activity Center, Taipei, Taiwan, November 5, 2014.
- Similia similibus curantur: Bone-Mimicking Composites as the New Generation of Bone Replacement Materials***, Department of Bioengineering, Pennsylvania State University, State College, PA, October 15, 2014.
- Similia similibus curantur: Bone-Mimicking Composites as the New Generation of Bone Replacement Materials***, 16th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2014.
- A Window into a Career in Bioengineering***, Bioengineering Organizational Alliance, University of Illinois, Chicago, February 27, 2014.
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Note: Video available at <http://methodist.hendrik.mvp.com/Media/VideoPlayer/461>
- A Way through the Web of Science***, Department of Bioengineering, Schools of Medicine and Engineering, University of Illinois, Chicago, IL, July 12, 2013.
- My Way through the Web of Science***, Department of Biomedical Engineering, Graduate Education & Applied Research Center, University of South Dakota, Sioux Falls, SD, April 16, 2013.
- Elementary Aspects of the Nanoparticle Design***, Department of Chemistry, University of South Florida, Tampa, FL, February 4, 2013.
- Key Concepts in the Design of Functional Nanoparticles***, 11th Conference of Young Researchers, University of Belgrade, Belgrade, Serbia, December 3, 2012.
- Interplanetary Scientific Hopping: Wholehearted Benefits of Interdisciplinary Curiosity***, Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI, September 27, 2012.
- Contemporary Trends in Nanosciences***, Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia, May 22, 2012.
- Nanomaterials and Nanotechnologies: Time to be small***, NIH-funded Bridges to the Baccalaureate Program for the minority students of the City College of San Francisco, Skyline College and San Francisco State University, April 17, 2012, Science Hall, City College of San Francisco, San Francisco, CA.
- Nanotechnology in Dental Science: Biomimicry of Morphogenesis of the Tooth Enamel***, Distinguished Scientist Lecture Series, College of Dentistry, University of Florida, Gainesville, FL, December 8, 2011.

There's Treasure Everywhere: Mimicking the Genesis of Tooth Enamel, 12th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2010.

Interaction of Amelogenin and Hydroxyapatite Nanoparticles Relevant for In-vitro Synthesis of Dental Enamel, Invited Presentation, National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, June 11, 2009.

Nanomaterials and Nanotechnologies: Time to be small, Institute for Advanced Studies – IMDEA, Autonomous University of Madrid, Madrid, Spain, May 2008.

Nanomaterials and Nanotechnologies: Time to be so small, Institute of General Physics, University of Technology, Vienna, Austria, October 2007.

Preparation and Multilayered Aggregation of Uniform Colloidal Cholesterol Particles, Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia, June 2007.

Preparation and Multilayered Aggregation of Uniform Colloidal Cholesterol Particles, Jožef Stefan Institute, Ljubljana, Slovenia, May 2007.

Preparation and Multilayered Aggregation of Uniform Colloidal Cholesterol Particles, Condensed Matter Physics & Materials Science Seminar, Brookhaven National Laboratory, Upton, NY, USA, May 10, 2007.

Conference Lectures:

SARS-CoV-2: Molecular Interaction Specifics Viewed through the Prism of Nanotechnologies, American Chemical Society National Meeting, Division for Colloid and Surface Chemistry, San Diego, CA, March 20, 2022.

Forthcoming Renaissance for Calcium Phosphates in Biomedicine, 255th American Chemical Society National Meeting, Division for Colloid and Surface Chemistry, New Orleans, LA, March 18-22, 2018.

Earthicle: A Conceptually New Type of Composite Nanoparticle, Advances in Functional Materials Conference, University of California Los Angeles, Los Angeles, CA, August 16, 2017.

The Approaching Renaissance for Calcium Phosphates in Biomedicine, Institute for Biomedical Engineering Annual Conference, Salt Lake City, UT, April 1, 2017.

Super firmum fundamentum: The Approaching Renaissance for Calcium Phosphates in Biomedicine, Biomaterials for Healthcare Conference (BioMaH) - Biomaterials for Tissue and Genetic Engineering and Role of Nanotechnology, Consiglio Nazionale delle Ricerche, Rome, Italy, October 17, 2016.

From Controlled Drug Delivery to Gene Therapies to Bone Regeneration: Calcium Phosphate Nanoparticles as Essential Components of Advanced Biomaterials, From Solid State to Biophysics VIII: From Basic to Life Sciences Conference, Cavtat, Croatia, June 9, 2016.

Nanoparticulate Platforms for the Sustained and Tunable Release of Antibiotics in the Treatment of Osteomyelitis, 7th World Congress on Preventive and Regenerative Medicine, Chientan Youth Activity Center, Taipei, Taiwan, November 7, 2014.

Nanoparticulate Hydroxyapatite/Chitosan Composites as Potential Drug Delivery Platforms for the Sustained Release of Antibiotics in the Treatment of Osteomyelitis, Materials Research Society Spring Meeting, San Francisco, CA, April 2014.

Nanoparticulate Platforms for the Sustained and Tunable Release of Antibiotics in the Treatment of Osteomyelitis, Materials Research Society Spring Meeting, San Francisco, CA, April 2014.

Chemical Reactions as Petite Rendezvous: the Use of Metaphor in Materials Science Education, Materials Research Society Spring Meeting, San Francisco, CA, April 2014.

Osteogenic Calcium Phosphate Nanoparticles with Designable Drug Release Kinetics, Research and Clinical Excellence Day, University of California, San Francisco, CA, October 2013.

Fibroblastic and Osteoblastic Interactions with the Topographically Distinct Poly(ϵ -caprolactone)/Hydroxyapatite Thin Films, 15th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2013.

The Peer Review System: Downfalls and Ideas on How to Revive It, American Chemical Society Summer School, Washington, DC, July 2013.

Calcium Phosphate Nanoparticles with Tunable Drug Release Kinetics for the Advanced Treatment of Bone Infection, 14th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2012.

Calcium Phosphate Nanoparticles with Controllable Drug Release Kinetics for the Treatment of Osteomyelitis, European Materials Research Society meeting, Strasbourg, France, May 16, 2012.

Silicon-Nanowire-Coated Silica Beads as Adhesive Drug Delivery Vehicles, 13th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2011.

Confessions of a Tooth Enamel Grower, UCSF Mission Bay Research in Progress Lecture Series, April 2010.

Imitating the Growth of Tooth Enamel, 11th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, August/September 2009.

Enamel Matrix Guided Growth of Apatite, Materials Research Society Spring Meeting, San Francisco, CA, April 2009.

Mimicking Biological Mineralization of Dental Enamel by Means of a Constant Crystallization Approach, Research and Clinical Excellence Day, University of California, San Francisco, CA, October 2008.

Blending Nanoscience and Bioscience: Biomimicry of the Mineralization of Enamel, 10th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2008.

Preparation and Multilayered Aggregation of Uniform Colloidal Cholesterol Particles, 9th Yugoslav Materials Research Society Conference, Herceg-Novi, Montenegro, September 2007.

Note: The Best Oral Presentation Award winner.

Preparation of Silicon Oxide-Coated Lanthanum-Strontium Manganite Nanoparticles, Annual seminar of young researchers, Academy of Sciences and Arts, Belgrade, Serbia and Montenegro, December 2005.

How are Cognitive Sciences Beneficial for a Fruitful Scientific Inter-Disciplinarity?, 8th International Information Society Multiconference, Ljubljana, Slovenia, October 2005.

Preparation of Silica-Coated Lanthanum-Strontium Manganites, for Application in Hyperthermic Treatments, 7th Yugoslav Materials Research Society Conference, Herceg-Novi, Serbia and Montenegro, September 2005.

On the Epistemological Foundations of Religious Experience, “Religion and Epistemology” Conference of the Serbian Philosophical Society, Belgrade, Serbia and Montenegro, June 2005.

On LaSr-Manganites, Reverse Micelles and the Train of Science, 3rd Conference of Young Researchers, Academy of Sciences and Arts, Belgrade, Serbia and Montenegro, December 2004.

Synthesis of Lanthanum-Strontium Manganites using Reverse Micelles, Materials and Technologies Conference organized by the Slovenian Institute of Metals and Technology, Portorose, Slovenia, October 2004.

Synthesis of Lanthanum-Strontium Manganites by a Hydroxide-Precursor Co-Precipitation Method in Solution and Reverse Micellar Microemulsion, 6th Yugoslav Materials Research Society Conference, Herceg-Novi, Serbia and Montenegro, September 2004.

Synthesis of Materials within Reverse Micelles, 2nd Conference of Young Researchers, Academy of Sciences and Arts, Belgrade, Serbia and Montenegro, December 2003.

Chemistry of the Synthesis of NiZn-Ferrites by Microemulsion-Assisted Precipitation Method, Materials and Technologies Conference organized by the Slovenian Institute of Metals and Technology, Portorose, Slovenia, October 2003.

Synthesis of Nanocrystalline Nickel-Zinc Ferrites via a Microemulsion Route, 5th Yugoslav Materials Research Society Conference, Herceg-Novi, Yugoslavia, September 2003.

Synthesis of Nanocrystalline Nickel-Zinc Ferrites within Reverse Micelles, Materials and Technologies Conference organized by the Slovenian Institute of Metals and Technology, Portorose, Slovenia, November 2002.

Virtual Presentations:

Materials Science of and for the Poor, Plenary Lecture, 25th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2023.

The Samsonov Configurational Model: Instructive Historical Remarks and the Extension of Its Application to New Problematics, Keynote Lecture, 8th International Samsonov Conference “Materials Science of Refractory Compounds” (MSRC-2022), Kiev, Ukraine, May 25, 2022.

Calcium Phosphate Nanoparticles as Intrinsic Inorganic Antimicrobials, Next Generation Biomaterials Symposium, Materials Science & Technology Conference, Columbus, OH, October 17 – 21, 2021.

On Earthlike and Other Synthetic Nanoparticles Mimicking the Structures of Celestial Bodies, American Chemical Society Fall Meeting, Division for Colloid and Surface Chemistry, Atlanta, GA, August 22, 2021.

Nanotechnologies in the Quest for the Invisibly Small, Invited Lecture, Sci | Art Lab + Studio Summer Institute, University of California, Los Angeles, July 27, 2021.

Calcium Phosphate Nanoparticles as Intrinsic Inorganic Antimicrobials, American Chemical Society Spring Meeting, Division for Colloid and Surface Chemistry, San Antonio, TX, April 6, 2021.

Hyperthermia with Composite Magnetic Nanoparticles as a Cancer Treatment Modality, Invited Lecture, 6th International Symposium on Radiation Education, Fooyin University of Kaohsiung, Taiwan, August 7, 2021.

Nanotechnology in Viral Research: What's New, Invited Lecture, Department of Immunology, School of Medical Sciences, University of Sains Malaysia, Penang, Malaysia, February 2, 2021.

Nanotechnology, Invited Lecture, Sci | Art Lab + Studio Summer Institute, University of California, Los Angeles, July 28, 2020. Retrievable from <https://vimeo.com/442565376>.

Conference Poster Presentations:

Biomimicry of the Growth of Dental Enamel from Amelogenin and MMP-20 Sols using a Continuous Titration Approach, Society for Biomaterials Conference, Seattle, WA, April 2010.

The Role of Postdoctoral Scholars Associations in the Times of Unionization, National Postdoctoral Association Conference, Philadelphia, PA, March 2010.

Biomimetic Apatite Growth using Full-Length Human Amelogenin and Matrix Metalloprotease-20, American Association of Dental Researchers (AADR) 2nd Fall Focused Symposium: Tissue Engineering of Craniofacial and Oral Tissues, San Francisco, November 2009.

Biomimetic Apatite Growth using Full-Length Human Amelogenin and Matrix Metalloprotease-20, The Annual University of the Pacific Dental School Symposium, San Francisco, November 2009.

Effects of Calcium and Phosphate on Particle Size and Zeta Potential of Recombinant Human Amelogenin, UCSF Dental School Research and Clinical Excellence Day, San Francisco, CA, October 2009.

Sleeping Beauty, Science and Art Exhibition at the Materials Research Society Spring Conference, San Francisco, April 2009.

Dynamic Light Scattering and Zeta-Potential of Self-Assembled Human Amelogenins, International Association of Dental Researchers (IADR) and American Association of Dental Researchers (AADR) Conference, Miami, FL, USA, April 2009.

Effects of MMP-20 on Amelogenin Self-Assembly and Crystal Growth, International Association of Dental Researchers (IADR) Conference, Toronto, ON, Canada, July 2008.

Synthesis and Characterization of Hydroxyapatite-Collagen Biocomposite Materials, 4th Yugoslav Materials Research Society Conference, Herceg-Novi, Yugoslavia, September 2001.

Co-Authored Conference Presentations:

The Osteogenic Effect of Germanium-Doped Hydroxyapatite Nanoparticles on Dental Pulp Stem Cells, Presented by Miloš Lazarević, The Eleventh Serbian Ceramic Society Conference Advanced Ceramics and Application, Belgrade, Serbia, September 18 - 20, 2023.

Materials Research Fostering International Cooperation in Small and Developing Countries: The Example of Serbia, Presented by Dragan Uskoković, Physical Chemistry and Functional Materials (PCFM) Conference, Firat University, Turkey, June 2023.

Cell-Selective Toxicity of Hydroxyapatite-Chitosan Oligosaccharide Lactate Particles Loaded with a Steroid Cancer Inhibitor, Presented by Nenad Ignjatović, YUCOMAT Conference, Herceg-Novi, Montenegro, September 2018.

One Pot and Two Step Synthesis of 1D and 2D Calcium Phosphates and Their Biomedical Characteristics, Presented by Zoran Stojanović, YUCOMAT Conference, Herceg-Novi, Montenegro, September 2016.

Tumor-Selective Hybrid System Based on Hydroxyapatite Nanocarrier, Chitosan, Poly(Lactic-co-Glycolic Acid) and Androstane Derivative, Presented by Nenad Ignjatović, YUCOMAT Conference, Herceg-Novi, Montenegro, September 2016.

On Hydrothermal Processing of 1D Hydroxyapatite Powders, Presented by Zoran Stojanović, Pittcon 2016, Atlanta, GA, March 6, 2016.

Rapid Bone Regeneration with Nano-Hydroxyapatite Coated with a Chitosan-Poly(D,L)-Lactide-Co-Glycolide Bone-Filling Material with Osteoconductive and Antimicrobial Properties, Presented by Nenad Ignjatović, ITNANO2015, 3rd International Translational Nanomedicine Conference, Miločer, Montenegro, June 2015.

How Scientists Can Contribute to Bridging the Gap between Rich and Poor: Case Studies on Molecular Designing of Nanoparticles and Functional Materials, Presented by Dragan Uskoković, Science and Technology Forum, Seoul, South Korea, October 2012.

Multifunctional Nano Scale Drug Delivery Particles Based on Vitamin D3-Loaded Hydroxyapatite in Bone Tissue Engineering, Presented by Nenad Ignjatović, 14th YUCOMAT Conference of Materials Research Society - Serbia, Herceg-Novi, Montenegro, September 2012.

Towards Sustainable Planet Earth: Small Steps for Small Countries but Big Ones for Humanity, Presented by Dragan Uskoković, Science and Technology Forum, Seoul, South Korea, October 2011.

Journal of Postdoctoral Affairs: The First Peer-Reviewed Journal Focused Exclusively on Topics of Relevance to Postdoctoral Scientists, Presented by Hady Felfly and Cory Blaiss, National Postdoctoral Association Conference, Bethesda, MD, March 2011.

Amelogenin Directed Crystal Growth during Hydrolysis, Presented by Stefan Habelitz, International Association of Dental Researchers (IADR) Conference, Barcelona, Spain, July 2010.

Long-Term Bond Strength and Fluoride Release Capabilities of Three Cements, Presented by Lilliam M. Pinzon and Sally J. Marshall, International Association of Dental Researchers (IADR) Conference, Barcelona, Spain, July 2010.

Dissolution Kinetics of Fluorapatite on the Nanoscale, Presented by Jonathan Stahl, International Association of Dental Researchers (IADR) Conference, Barcelona, Spain, July 2010.

Effect of Zeta-Potential on Amelogenin Guided Apatite Formation, Presented by Stefan Habelitz, American Association for Crystal Growth (AACG) Conference, Lake Tahoe, CA, June 2010.

Exposure to Bioactive Glass Ionic Dissolution Products Enhances hPDLF Osteogenesis, Presented by Venu G. Varanasi and Grayson W. Marshall, American Association of Dental Researchers (AADR) Conference, Washington, DC, March 2010.

Bond Strength and Fluoride Release Capabilities of Three Cements, Presented by Lilliam M. Pinzon and Grayson W. Marshall, American Association of Dental Researchers (AADR) Conference, Washington, DC, March 2010.

Analysis of Hydroxyapatite and Amelogenin Interaction using Dynamic Light Scattering, Presented by Frances Yang, UCSF Dental School Research and Clinical Excellence Day, San Francisco, CA, October 2009.

Dynamic Light Scattering and Zeta-Potential of Self-Assembled Human Amelogenins, Presented by Zachery Castiglione, UCSF Dental School Research and Clinical Excellence Day, San Francisco, CA, October 2008.

Teaching/Mentoring Experience:

San Diego State University:

ME683: Medical Devices, graduate course (3 credit hours, Design + Lecturing, rated > 4.50 on the scale of 5.00 for all criteria of student satisfaction).

University of California, Irvine:

Mentor to 2 PhD students and 2 undergraduates in the Mechanical and Aerospace Engineering and Materials Science programs (*Alexander T. Hwu, Albert Cisquella Serra, Ching-Hao Yu, Daniel Tang*).

Mentor in the Fullbright Foundation program (awardee/mentee: *Joanna Kolmas*)

University of Illinois at Chicago:

BioE 101: Introduction to Bioengineering, Guest Lecturing.

BioE 310: Biological Systems Analysis: Guest Lecturing.

BioE 415: Biomechanics, Guest Lecturing.
BioE 455: Cell and Tissue Engineering, Guest Lecturing.
BioE 460: Materials in Bioengineering, Full Course (3 credit hours, Design + Lecturing).
BioE 470: Bio-optics, Guest Lecturing and Instructor Substitute.
BioE 494: Fundamentals of Nanoengineering, Full Course (3 credit hours, Design + Lecturing).

Mentor to 6 PhD students (*Shreya Ghosh, Mohammed Khan, Pooja Neogi, Maheshwar Adiraj Iyer, Amit Paul and Daniel Lee*), 3 MS students (*Sebastian Pernal, Jarrett Mickens, Mehar Cheema*), and 1 undergraduate (*Najah Ahsan*)

Mentor in the Rosztoczy Foundation program (awardee/mentee: *Adrienn Petho*)

Primary academic advisor to 16 undergraduate students in the bioengineering program (average rating by the students = 4.3 on 1 – 5 scale).

Chapman University:

BCHM320: Biotechnology & Bioengineering course, Guest lecturing.
PHRM642: Biopharmaceuticals, PharmD course (2 credit hours, Design + Lecturing).
PHS632: Medical Devices, MSPS/PhD student course (3 credit hours, Design + Lecturing).
PHS604: Biologics, MSPS/PhD student course (2 credit hours, Design + Lecturing)

Mentor to 1 MS student (*Abhinav Grover*), 2 technical students (*Sean Tang, Eric Huynh*) and 1 undergraduate (*Caroline Sun*) in my lab.

Primary academic advisor to 12 students in the Pharm.D. program.

University of California, San Francisco:

Mentor in the NIH Bridges to the Baccalaureate Program. Promoting the academic path for minority students (awardee/mentee: *Samir Batarni*).

Mentor to 4 PhD students (*Kunwoo Lee, Phin Peng Lee, Frances Yang, Jennifer Kim*), 6 DDS students (*Zachery Castiglione, Shih-yen Paul Hsiao, Jonathan Stahl, Brittany Gonzales, Roselyn Odsinada, Sonia Djordjevic*), and 2 undergraduates (*Samir Batarni, Tej Sachdev*).

Indian Institute of Technology at Kharagpur:

Condensed 30-hour Global Initiative for Academic Networks (GIAN) Winter Term Course taught on the topic of nanobiotechnologies.

Serbian Ministry of Science and Education:

Career advisor to 4 PhD students at various Serbian universities.

Student, postdoc and asst. prof. mentorship through national and international collaborations:

Gabriel Abuna (East Carolina University), *Mohamed K. Ahmed* (Suez University), *Yahya Sefidbakht* (Shahid Beheshti University), *Rohimah Mohamud* (Sains Malaysia University), *Lorenzo Degli Espositi* (Consiglio Nazionale delle Ricerche)

Awards:

Pathway to Independence Award, National Institutes of Health, USA.

Certificate for Innovation, American Chemical Society.

Certificate of Appreciation, National Health Research Institutes, Taiwan.

American Chemical Society Publications Summer Institute Travelship.

UCSF Postdoctoral Scholar Travel Award.

Best Oral Presentation Award winner, YUCOMAT Conference of the Serbian Materials Research Society.

Contribution to the profession:

Publications:

Author of > 200 peer-reviewed papers cited > 6,700 times; Hirsch index = 47; i10 index = 134
(Source: Google Scholar citation database, 2023).

Editorial Board Member, Bioactive Materials, ScienceDirect Journal, KeAi Publishing, Beijing, China & Elsevier, Netherlands; Biomaterials Section, Materials Journal, MDPI, Basel, Switzerland; Nano-Based Drug Delivery Section, Frontiers in Medical Technology; Frontiers in Education; Frontiers in Nanotechnology.

Reviewer for the following journals:

ACS Applied Bio Materials
ACS Applied Materials and Interfaces
ACS Applied Nano Materials
ACS Nano
Acta Biomaterialia
Adsorption
Advanced Functional Materials
Advances in Colloid and Interface Science
Advances in Natural Sciences: Nanosci. Nanotech.
African Journal of Pharmacy and Pharmacology
American Institute of Chemical Engineers Journal
Analyst
Applied Nanoscience
Applied Surface Science
Arabian Journal of Chemistry

Bioactive Materials
Biochimica et Biophysica Acta
Bioconjugate Chemistry
Bioengineering
Biomaterials
Biomedical and Environmental Sciences
Biomedical Microdevices
BioMed Research International
Brain, Behavior & Immunity Health
Briefings in Bioinformatics
Cancers
Cancer Treatment Reviews
Chemical Engineering Journal
Chemical Physics
Ceramics International

ChemElectroChem
 Colloids and Surfaces A: Physicochem. Eng. Asp.
 Colloids and Surfaces B: Biointerfaces
 Computer Methods and Programs in Biomedicine
 Croatia Chimica Acta
 Crystal Growth and Design
 Crystals
 Current Nanoscience
 Current Pharmaceutical Design
 Drug Delivery
 Epigenomics
 Expert Opinion on Drug Delivery
 Expert Review of Anti-Infective Therapy
 Expert Review of Clinical Immunology
 Expert Review of Medical Devices
 Frontiers in Bioengineering and Biotechnology
 Future Virology
 Human Gene Therapy
 Interface Focus
 International Journal of Biological Macromolecules
 International Journal of Chemical Kinetics
 Int. J. of Information Systems and Social Change
 International Journal of Medical Sciences
 International Journal of Modern Physics B
 International Journal of Molecular Science
 International Journal of Nanomedicine
 International Journal of Pharmaceutics
 International Journal of Psychology and Counseling
 International Journal of Radiation Biology
 Journal of Alloys and Compounds
 Journal of Applied Physics
 Journal of Biomaterials Applications
 Journal of Biomaterials Science: Polymer Edition
 Journal of Biomedical Materials Research Part B
 Journal of Colloid and Interface Science
 Journal of Composite Materials
 Journal of Controlled Release
 Journal of Crystal Growth
 Journal of Drug Targeting
 Journal of Functional Biomaterials
 Journal of Hazardous Materials
 Journal of Materials Chemistry B
 Journal of Materials Science
 Journal of Microencapsulation
 Journal of Molecular Structure
 Journal of Periodontology
 Journal of Physical Chemistry Letters
 Journal of Physics: Condensed Matter
 Journal of the American Ceramic Society
 Journal of the Royal Society Interface
 Journal of the Taiwan Institute of Chem. Engineers
 Langmuir
 Materials
 Materials Advances
 Materials and Manufacturing Processes
 Materials Chemistry and Physics
 Materials Letters
 Materials Research Bulletin
 Materials Science and Engineering C: Mat.Bio.App.
 Materials Science Forum
 Medical Practice and Reviews
 Microchemical Journal
 Mini-Reviews in Medicinal Chemistry
 Molecular Pharmaceutics
 MRS Conference Proceedings
 Nanomaterials
 Nanomedicine
 Nano-Micro Letters
 Nanoscale
 Nanotechnology
 New Journal of Chemistry
 Open Education Studies
 Particle & Particle Systems Characterization
 Pharmaceutics
 Physica B: Condensed Matter
 Plant Cell Biotechnology & Molecular Biology
 PLOS One
 Process Biochemistry
 Results in Surfaces and Interfaces
 RSC Advances
 Scientific Reports
 Small
 Smart Materials and Structures
 Solid State Sciences
 Surface Engineering
 Technological Forecasting & Social Change
 Technology, Knowledge and Learning
 Theranostics
 Therapeutic Delivery
 Tissue Engineering
 Translational Research
 Ultrasonics - Sonochemistry
 Vascular Health and Risk Management

International Conferences:

Educational Symposium Lead Organizer, Materials Research Society Meetings.

International Scientific Committee Member, Biomaterials for Healthcare Conferences (BioMaH).

Awards Committee, World Round Table & Conference on Sintering; YUCOMAT Conference; Annual National Postdoctoral Association Conference.

Organizing Committee Member, European Ceramics Society Conference, Ceramics and Glasses for Healthcare Symposium.

Neuro-Oncology Symposium Chair, Neuro Talks Media Limited Conference.

Symposium organizer, “Mechanistic Insights into the Synergistic Properties of Nanocomposites” Session, Materials Science & Technology 2021 Conference, Columbus, OH.

Organization Committee Member. Young Researchers’ Conference on Materials Science and Engineering, Belgrade, Serbia.

Program Review Committee, Society for Biomaterials Conference - “Nanomaterials as Antiviral Therapies” category, Tissue Engineering and Regenerative Medicine International Society Conference, Society for Biomaterials Conference, TechConnect World Innovation Conferences.

Session Chair:

Biomaterials and Biointerfaces Symposium, American Chemical Society Spring National Meeting, 2021.

Nanotechnology and Nanosciences Session (Life Sciences & Medicine), NanoWorld Conference, San Francisco, CA, 2018.

Nano and Mesosstructured Materials Symposium, Advances in Functional Materials Conference, University of California, Los Angeles, CA, 2017.

From Solid State to Biophysics VIII: From Basic to Life Sciences Conference, Cavtat, Croatia, 2016.

Nanomedicine Symposium, World Congress on Preventive and Regenerative Medicine, Taipei, Taiwan, 2014.

Nanomaterials and Advanced Materials Synthesis and Processing Sections, YUCOMAT Conferences of the Serbian Materials Research Society, Herceg-Novi, Montenegro.

Judge, Irvine Unified Elementary, Middle and High School Science Fairs; UCSF Graduate Student Association Research Days.

Grant review panels and advisory roles:

Early Career Reviewer (ECR) program participant at the Center for Scientific Review (CSR), National Institutes of Health (NIH).

External reviewer of research proposals, National Science Center of the Republic of Poland, BIENVENÜE post-doctoral programme of the Regional Council of Brittany, Czech Science Foundation.

Consultant, Science Advisory Board.

Reviewer & Consultant, Life Science Angels Investment Group, Sunnyvale, CA; PapyrusBio, Berkeley, CA.

Elsevier Science & Technology, Pre-contract market assessment and peer review of books on nanotechnology.

Societies:

Member, American Chemical Society, American Ceramic Society, Materials Research Society, MRS – Serbia, American Vacuum Society, American Association of Colleges of Pharmacy (presently or formerly).

Member, Executive Council, Nano Special Interest Group, Society for Biomaterials.

International Advisory Board Member, Materials Research Society – Serbia.

University service:

UIC Electrochemistry Collaborative Group Member.

UIC Nanotechnology Core Facility Faculty Advisory Group Member.

Faculty Senate, Assessment and Item Review Committee, Strategic Planning Committee, Research and Graduate Program Committee, Chapman University School of Pharmacy.

Founding Member, Chapman University Center for Targeted Drug Delivery.

Interviewer for applicants for UIC Department of Bioengineering and School of Medicine Tenure-Track Professorships and Residencies and regular and FAEP applicants for the Pharm.D. program at Chapman University.

PhD thesis advisory and defense committee member:

Taylor Yu, MSc, San Diego State University (Primary advisors: Sam Kassegne & Shawn O'Connor), Nemanja Aničić, PhD program in Nanoscience and Nanotechnologies, Jožef Stefan International Postgraduate School, Slovenia (Primary advisors: Drs. Marija Vukomanović & Danilo Suvorov), Chun-Chieh Huang, College of Dentistry, PhD dissertation, UIC (Primary advisor: Dr. Anne George); Gerardo Mauleon, PhD program in Bioengineering, UIC (Primary advisor: Dr. David Eddington); Chi Bang, PhD program in Bioengineering, UIC (Primary advisor: Dr. Jun Cheng).

President of the UCSF Postdoctoral Scholars Association, one of the oldest and biggest in the US with circa 1,200 active members and the Executive Council comprising 20 Chairs and 14 campus committee representatives.

President of the University of California Council of Postdoctoral Scholars, representing circa 10,000 postdocs from all Californian universities, including UC, Stanford, Sanford-Burnham, Caltech, Scripps, City of Hope, Lawrence Berkeley and Lawrence Livermore National Labs.

UCSF Postdoc President and Representative:

UCSF Chancellor's Council

UCSF Graduate Council

UCSF Office of Career and Professional Development Advisory Board

University of California Council of Postdoctoral Scholars

UCSF Graduate Student Association

National Postdoctoral Association meetings.

The UC Gould Commission for the Future Town Hall.

The UC Board of Regents meetings.

A part of the 6-member UCSF team at the inauguration of UCSF Chancellor Susan Desmond-Hellmann and UC Davis Chancellor Linda Katehi, Asian Art Museum, San Francisco, CA.

Practice of Science Chair of the UCSF Postdoctoral Scholars Association

Organized an onorthodox series of lectures, attracting and hosting the following speakers:

Nobel Laureate in Chemistry, *George Olah*;

Founder of Green Chemistry, *John C. Warner*;

Philosopher, senator, former finance minister and presidential candidate of Chile, *Fernando Flores*;

Sociologist and the former Green Party gubernatorial candidate for New York state, *Stanley Aronowitz*;

Bestselling UCLA neuroscientist, *Jeffrey M. Schwartz*, and UCB quantum physicist, *Henry Stapp*;

Abbott of San Francisco Zen Center, *Paul Haller*, and a constructivist philosopher, *Urban Kordeš*.

Note: all lectures available via YouTube.

Contributing writer, UCSF Student magazine Synapse.

UCSF volunteer:

1st and 2nd National Postdoc Appreciation Days, September 24, 2009, September 22, 2010.

PSA-organized mentoring panels, social hours, holiday parties, and outdoor events.

Translator of the UCSF postdoc orientation web page to Serbo-Croatian, 2010.

IRACDA Conference on Research & Teaching, June 2009, San Francisco, CA.

First Graduate Student President and Representative at the Faculty Council, Jožef Stefan International Postgraduate School, representing circa 60 graduate students in all programs.