

ИЗБОРИ АИНС 2021.
Одељење за технологију, металургију и науке о материјалима

Иностранни члан
Професор др Војислав Р. Стаменковић

На седници Одељења за технологију, металургију и науке о материјалима од 14. јула 2021. године одређени смо за чланове комисије за писање реферата за избор иностраног члана АИНС проф. др Војислава Р. Стаменковића. На основу увида у документацију која нам је достављена и у складу са Статутом и Правилником АИНС достављамо вам следећи:

РЕФЕРАТ

1. БИОГРАФСКИ ПОДАЦИ

Професор др Војислав Р. Стаменковић, рођен је 1967 године у Београду од оца Радомира и мајке Горице. Факултет за Физичку хемију, Универзитета у Београду завршио је 1994, а магистрирао је 2000 године. На истом факултету је одбранио докторску дисертацију 2001 године, под менторством академика Славка Ментуса. Од 1995 до 2001 је радио као асистент приправник на факултету за физичку хемију Универзитета у Београду, а у периоду измеђ 1999-2001 био је на студијском боравку на Универзитету у Калифорнији, Беркели где је радио на припреми докторске дисертације након које започиње са радом у Lawrence Berkeley National Laboratory као постдокторант. Почетком 2006 године прелази у Argonne National Laboratory где остаје до 2020 године. У истој лабораторји је био вођа групе за конверзију и складиштење енергије. Тренутно ради као професор Универзитета у Калифорнији, Ирвине, на департману за хемијски и биомолекуларни инжињеринг и департману за хемију, директор је Horiba Institute for Mobility and Connectivity, Ирвине, САД.

2. НАУЧНИ РЕЗУЛТАТИ

Научно-истраживачки рад Војислава Стаменковића обухвата физичку хемију површина, електрохемију и електрохемијске процесе за конверзију и складиштење енергије. У његовим раним радовима доказан је ефекат састава подповршинских слојева на каталитичке особине електроде за више електрокаталитичких реакција. Најважнији допринос је направио на разумевање електрохемијске редукције кисеоника и на могућности убрзања те реакције која је кључна за даљи напредак горивних спрегова. На основу иницијалног концепта који је патентиран, Стаменковић је развио неколико класа наноматеријала који су базирани на максималном искориштењу платине. Поред повећања ефикасности катализатора, Стаменковић је радио на побољшању стабилности катализатора за горивне спрегове. У најновијим радовима и патентима, Стаменковић описује механизам растварања платине на атомском нивоу и предлаже како да се у потпуности елиминише разградња и растварање катализатора. Објавио је преко 150 научних радова (међу којима и више радова у Science, ИФ-41.845; Nature Materials, ИФ-38.663; Nature Energy, ИФ-54.00), 5 поглавља у монографијама међународног значаја, преко 200 предавања по позиву. Цитираност кандидата према бази SCOPUS је преко 30.000, са h индексом 74. Добитник је бројних признања и награда: Recognition Award Lawrence Berkeley National Laboratory, 2004; Performance Award University of Chicago, 2012; Department of Energy's Hydrogen Program R&D Award, 2014; R&D 100 Award 2016, Web of Science: Highly cited researcher, 2018-2020. Придрузени је уредник часописа ACS Catalysis и American Chemical Society.

3. НАСТАВНА АКТИВНОСТ:

На Факултету за физичку хемију Универзитета у Београду у периоду од 1995. до 1999., био је ангажован у настави на предметима физичко-хемијска анализа и физичка хемија у молекуларној биологији. У том периоду боравио је у Лабораторији за физичку хемију молекула париске Екол централ (1996. и 1997). Од 2020 год. ангажован је као професор Универзитета у Калифорнији, Ирвине, на департману за хемијски и биомолекуларни инжењеринг и департману за хемију. Током своје каријере био је ментор и супервизор рада 20 постдокторанада, 10 дипломираних студената, 9 студената, а што је посебно потребно напоменути већег броја из Србије.

4. ИНЖЕЊЕРСКИ РЕЗУЛТАТИ

Проф. Стаменковић је изузетно активан и у инжињерској делатности. Из научно-истраживачког рада и сарадње са већим бројем компанија признато му је 15 патената На основу патената који се односе на платинске легуре, проф. Стаменковић је значајно допринео даљем развоју технологије горивних ћелија. Материјали које је описао у својим кључним радовима налазе се у првој генерацији возила на водонични погон. Имплементација његових иновација налази примене у декарбонизацији енергетског сектора, где значајну улогу има технологија за издавање водоника. Поред конверзије енергије Стаменковић је направио напредак у разумевању литијумских и оловних батерија. Поред пројеката који спонзорисани од стране US Department of Energy, Стаменковић је радио на значајном броју индустријских пројектима са фокусом на транзицију транспорта ка електтричном погону без емисије издувних гасова.

5. ЗАКЉУЧАК

Научни допринос и резултати које је остварио у теоријским и примењеним истраживањима, професор др Војислав Р. Стаменковић сврстава га у ред водећих светских научника из области Електрохемијске конверзије и акумулације енергије и Науке о материјалима. Углед у свету и веома значајано научно инжењерско дело препоручују проф. др Стаменковића за чланство у АИНС као иностраног члана. Његово залагање и подстицај развоју науке у Србији, кроз сарадњу са више младих научника и институција, свакако су допринели угледу српске науке у свету.

Због свега горе наведеног, Комисији је представљало посебно задовољство што је професор др Војислав Р. Стаменковић прихватио нашу иницијативу да буде предложен за иностраног члана АИНС. Велика нам је част што смо у прилици да предложимо Академији инжењерских наука Србије да овог водећег светског научника у области електрохемијске конверзије и акумулације енергије и науку о материјалима изабере за свог иностраног члана.

КОМИСИЈА



1. Проф. Биљана Стојановић, редовни члан АИНС



2. Проф. Драган Ускоковић, редовни члан АИНС



3. Проф. Синиша Милошевић, редовни члан АИНС



Војислав Р. Стаменковић, професор Универзитета у Калифорнији, Ирвине, на департману за хемијски и биомолекуларни инжењеринг и департману за хемију, директор Horiba Institute for Mobility and Connectivity, Irvine, САД. Рођење 1967 године у Београду од оца Радомира и мајке Горице. Факултет за физичку хемију, Универзитета у Београду завршио је 1994, а магистрирао је 2000 године. На истом факултету је одбранио докторат 2001 године, под менторством академика Славка Ментуса. Током деведесетих година (од 1993. до 1995) је радио на Институту за биофизичку и аналитичку хемију, где се, између осталог бавио анализом фармацеутских материјала и адитива. Од 1995 до 2001 је радио као асистент приправник на факултету за физичку хемију Универзитета у Београду, а у периоду између 1999-2001 био је на студијском боравку на Универзитету у Калифорнији, Беркли где је радио на припреми докторске дисертације након које започиње са радом у Lawrence Berkeley National Laboratory као постдокторант. Почетком 2006. године прелази у Argonne National Laboratory где остаје до 2020 године. У истој лабораторији је био вођа групе за конверзију и складиштење енергије. Придружени је уредник часописа ACS Catalysis, American Chemical Society. Објавио је преко 150 научних радова и 14 признатих патената. Цитираност према бази SCOPUS јепреко 30.000 са h индексом 74. Добитник је бројних признања и награда, Recognition Award Lawrence Berkeley National Laboratory, 2004; Performance Award University of Chicago, 2012; Department of Energy's Hydrogen Program R&D Award, 2014; R&D 100 Award 2016, Web of Science: Highly cited researcher, 2018-2020.

Наставна активност:

На Факултету за физичку хемију Универзитета у Београду у периоду од 1995. до 1999., био је ангажован у настави на предметима физичко-хемијска анализа и физичка хемија у молекуларној биологији. У том периоду боравио је у Лабораторији за физичку хемију молекула париске Екол централ (1996. и 1997). Од 2020 год. ангажован је као професор Универзитета у Калифорнији, Ирвине, на департману за хемијски и биомолекуларни инжењеринг и департману за хемију. Током своје каријере био је ментор и супервизор рада 20 постдокторанада, 10 дипломираних студената, 9 студената, а што је посебно потребно напоменути већег броја из Србије.

Истраживачки и инжењерски доприноси:

Истраживачки рад Војислава Стаменковић а обухвата физичку хемију површина, електрохемију и електрохемијске процесе за конверзију и складиштење енергије. У његовим раним радовима доказан је ефекат састава подповршинских слојева на каталитичке особине електроде за више електрокаталитичких реакција. Најважнији допринос је направио на разумевање електрохемијске редукције кисеоника и на могућност убрзања те реакције која је кључна за даљи напредак горивних спрегова. На основу иницијалног концепта који је патентиран, Стаменковић је развио неколико класа наноматеријала који су базирани на максималном искоришћењу платине. Поред повећања ефикасности катализатора, Стаменковић је радио на побољшању стабилности катализатора за горивне спрегове. У најновијим радовима и патентима, Стаменковић описује механизам растварања платине на атомском нивоу и предлаже како да се у потпуности елиминише разградња и растварање катализатора. На основу патената који се односе на платинске легуре, Стаменковић је значајно допринео даљем развоју технологије горивних ћелија. Материјали које је описао у својим кључним радовима налазе се у првој генерацији возила на водонични погон. Имплементација његових иновација налази примене у декарбонизацији енергетског сектора, где значајну улогу има технологија за издвајање водоника. Поред конверзије енергије Стаменковић је направио напредак у разумевању литијумских и оловних батерија. Поред пројеката који су спонзорисани од US Department of Energy, Стаменковић је радио на значајном броју индустријских пројеката са фокусом на транзицију транспорта ка електричним погоном без емисије загађујућих издувних гасова.



Vojislav R. Stamenković is a professor at University of California, Irvine Department of Chemical and Biomolecular Engineering and Department of Chemistry, since Oct. 1, 2020. He also serves as the inaugural director of UC Irvine's Horiba Institute for Mobility and Connectivity² (HIMaC²). Prof. Stamenković was born in 1967 in Belgrade, Serbia, from father Radomir mother Gorica. He received Bachelor of Science, Master of Science and Doctorate degrees from the Faculty of Physical Chemistry, University of Belgrade in 1994, 2000 and 2001, respectively. His doctorate thesis was done under the mentorship of Professor Slavko Mentus, who is a member of Serbian Academy of Sciences. From 1995 to 2001 he was appointed with a junior academic position at Faculty of Physical Chemistry, University of Belgrade. He was a visiting researcher at

University of California, Berkeley, from 1999-2001, and was pursuing research topics that were part of his doctorate thesis. After graduation, from 2002 to 2005, he was a postdoctoral fellow at Lawrence Berkeley National Laboratory. Since 2006, he was appointed as a Staff Scientist at Argonne National Laboratory, where he held a number of different positions including Group Leader of Energy Conversion and Storage Group. He is Associate Editor of the American Chemical Society, ACS Catalysis journal. He is also a member of the Editorial Board of Surface Science and Surface Science Letters. He published 150 peer reviewed articles and 14 patents. His citation according to SCOPUS is over 30000, with h index 74. Professor Stamenković received a number of awards, including Recognition Award by Lawrence Berkeley National Laboratory in 2004, Performance Award University of Chicago in 2012, United States Department of Energy's Hydrogen Program R&D Award in 2014, R&D 100 Award in 2016, Web of Science, Clarivate Analytics: Highly cited researcher, 2018-2020.

Teaching activity:

At the Faculty of Physical Chemistry, University of Belgrade, in the period from 1995 to 1999, he was engaged in teaching the subjects of physical-chemical analysis and physical chemistry in molecular biology. During that period, he stayed at the Laboratory for Physical Chemistry of Molecules in Paris, Ecole Central (1996 and 1997). From 2020, he was appointed as a professor at the University of California, Irvine, in the Department of Chemical and Biomolecular Engineering and the Department of Chemistry. During his career, he was a mentor and supervisor of the work of 20 postdoctoral students, 10 graduate students, 9 students, and it is especially necessary to mention a large number from Serbia.

Research and Engineering Contributions:

Professor Stamenković research includes physical chemistry of surfaces, electrochemistry and electrochemical processes for energy conversion and storage. In his early work, the effect of surface and subsurface composition was revealed as a dominant descriptor that influences kinetic properties of electrodes for fuel cells and electrolyzers. The most important contribution of his work is related to understanding of electrochemical reduction of molecular oxygen, which is key reaction for further improvement of fuel cell technology. Based on his patented concept, Prof. Stamenkovic developed a number of different classes of nanomaterials that are based on maximal utilization of platinum. Besides efficiency enhancement, he also pioneered understanding and improvement of fuel cell electrode durability, which is an ultimate challenge for wide deployment of this technology. In the most recent publication and patents, Prof. Stamenkovic described and quantified the mechanism of platinum dissolution at atomic scale and has executed electrode material design that fully eliminated platinum dissolution under the most aggressive electrochemical conditions. Prof. Stamenković publication record, citation and patent related to platinum alloys have significantly improved fuel cell technology and helped its commercialization in transportation sector. Materials that he described in his early work are included in the first generation of hydrogen powered fuel cell vehicles. His innovations related to electrochemical materials are also applied in energy sector, including key technologies for decarbonization and hydrogen production. In addition, Prof. Stamenković has made significant contribution in fundamental understanding of processes in lithium-ion and lead-acid batteries. His projects have been funded by US Department of Energy and industry with focus on historical transition of transportation sector towards zero emission technologies.

Уз пријаву за Академију инжењерских наука Србије-АИНС,
Одељење технолошких, металуршких у наука о материјалима

Библиографија

Професор Др Војислав Р. Стаменковић

1. НАУЧНОИСТРАЖИВАЧКИ РАД

1. Монографије, монографске студије, тематски зборници, лексикографске и картографске публикације међународног значаја, категорије M10

1. Y.Kang, V.R.Stamenkovic, C.B.Murray, Nanocrystal Superlattices: Novel Model Materials for Study of Catalysis Book Title: Heterogeneous Gold Catalysts and Catalysis; Editors: Z.Ma, S.Dai; Publisher: RSC, UK, 2014
2. V.Stamenkovic and U.B.Mioc, Composite Protonic Conductors Based on Heteropoly Compounds Incorporated into Gels, Book: Fast Proton-Ion Transport Compounds; Editor: U.Mioc; Publisher: Transworld Research Network, India
3. V.Stamenkovic and N.M.Markovic, Chapter Title: Platinum Alloy Catalysts for Oxygen Reduction Reaction; Book Title: Handbook of Fuel Cell Vol. 5 Editors: W. Vielstich, H. A. Gasteiger, H. Yokokawa; Publisher: John Wiley and Sons Lim., Chichester, UK, 2009
4. V.Stamenkovic and N.M.Markovic, Chapter Title: Electrocatalysis on Model Metallic and Bimetallic Single Crystal Surfaces, Book: Model Systems in Catalysis: From Single Crystals and Size Selected Clusters, Editor: Robert M. Rioux, Harvard University, USA; Publisher: Elsevier, Amsterdam, The Netherlands, 2009
5. V.Stamenkovic and N.M.Markovic, Chapter: Electrocatalysis at Bimetallic Surfaces; Book: Fuel Cell Catalysis: a Surface Science Approach, Editor: Marc T. M. Koper, Leiden University, The Netherlands; Publisher: John Wiley and Sons, Inc., USA, 2009

2. Радови објављени у научним часописима међународног значаја, категорије M20

1. Becknell, N., Lopes, P.P., Hatsukade, T., Zhou, X., Liu, Y., Fisher, B., Chung, D.Y., Kanatzidis, M.G., Markovic, N.M., Tepavcevic, S., Stamenkovic, V.R. Employing the Dynamics of the Electrochemical Interface in Aqueous Zinc-Ion Battery Cathodes (2021) Advanced Functional Materials, 31 (35), art. no. 2102135, . Cited 1 time. DOI: 10.1002/adfm.202102135
2. Lopes, P.P., Chung, D.Y., Rui, X., Zheng, H., He, H., Martins, P.F.B.D., Strmcnik, D., Stamenkovic, V.R., Zapol, P., Mitchell, J.F., Klie, R.F., Markovic, N.M. Dynamically stable active sites from surface evolution of perovskite materials during the oxygen evolution reaction (2021) Journal of the American Chemical Society, 143 (7), pp. 2741-2750. Cited 16 times. DOI: 10.1021/jacs.0c08959
3. Zorko, M., Farinazzo Bergamo Dias Martins, P., Connell, J.G., Lopes, P.P., Markovic, N.M., Stamenkovic, V.R., Strmcnik, D. Improved Rate for the Oxygen Reduction Reaction in a Sulfuric Acid Electrolyte using a Pt(111) Surface Modified with Melamine (2021) ACS Applied Materials and Interfaces, 13 (2), pp. 3369-3376. Cited 7 times. DOI: 10.1021/acsami.0c18167

4. Dey, A., Gunnoe, T.B., Stamenkovic, V.R. Organic Electrosynthesis: When Is It Electrocatalysis? (2020) *ACS Catalysis*, 10 (21), pp. 13156-13158. Cited 5 times. DOI: 10.1021/acscatal.0c04559
5. Hatsukade, T., Zorko, M., Haering, D., Markovic, N.M., Stamenkovic, V.R., Strmcnik, D.
6. Detection of protons using the rotating ring disk electrode method during electrochemical oxidation of battery electrolytes (2020) *Electrochemistry Communications*, 120, art. no. 106785, DOI: 10.1016/j.elecom.2020.106785
7. Lopes, P.P., Li, D., Lv, H., Wang, C., Tripkovic, D., Zhu, Y., Schimmenti, R., Daimon, H., Kang, Y., Snyder, J., Becknell, N., More, K.L., Strmcnik, D., Markovic, N.M., Mavrikakis, M., Stamenkovic, V.R. Eliminating dissolution of platinum-based electrocatalysts at the atomic scale (2020) *Nature Materials*, 19 (11), pp. 1207-1214. Cited 35 times. DOI: 10.1038/s41563-020-0735-3
8. Lopes, P.P., Stamenkovic, V.R. Past, present, and future of lead–acid batteries(2020) *Science*, 369 (6506), pp. 923-924. Cited 15 times. DOI: 10.1126/science.abd3352
9. Jung, S.-M., Yun, S.-W., Kim, J.-H., You, S.-H., Park, J., Lee, S., Chang, S.H., Chae, S.C., Joo, S.H., Jung, Y., Lee, J., Son, J., Snyder, J., Stamenkovic, V., Markovic, N.M., Kim, Y.-T. Selective electrocatalysis imparted by metal–insulator transition for durability enhancement of automotive fuel cells (2020) *Nature Catalysis*, 3 (8), pp. 639-648. Cited 18 times. DOI: 10.1038/s41929-020-0475-4
10. Bordiga, S., Chang, S., Chen, J., Crudden, C., Dey, A., Fornasiero, P., Gunnoe, T.B., Jones, C.W., Linic, S., Ma, D., Maseras, F., Ooi, T., Cuenya, B.R., Sautet, P., Scott, S.L., Stamenkovic, V., Wang, Y., Yoon, T.P., Zhao, H. Excellence versus diversity? Not an either/Or choice (2020) *ACS Catalysis*, 10 (13), pp. 7310-7311. Cited 2 times. DOI: 10.1021/acscatal.0c02590
11. Behar, D., Rajh, T., Liu, Y., Connell, J., Stamenkovic, V., Rabani, J. Unusual Reduction of Graphene Oxide by Titanium Dioxide Electrons Produced by Ionizing Radiation: Reaction Products and Mechanism (2020) *Journal of Physical Chemistry C*, 124 (9), pp. 5425-5435. Cited 1 time. DOI: 10.1021/acs.jpcc.9b11042
12. Chung, D.Y., Lopes, P.P., Farinazzo Bergamo Dias Martins, P., He, H., Kawaguchi, T., Zapol, P., You, H., Tripkovic, D., Strmcnik, D., Zhu, Y., Seifert, S., Lee, S., Stamenkovic, V.R., Markovic, N.M. Dynamic stability of active sites in hydr(oxy)oxides for the oxygen evolution reaction (2020) *Nature Energy*, 5 (3), pp. 222-230. Cited 136 times. DOI: 10.1038/s41560-020-0576-y
13. Wang, R., Li, D., Maurya, S., Kim, Y.S., Wu, Y., Liu, Y., Strmcnik, D., Markovic, N.M., Stamenkovic, V.R. Ultrafine Pt cluster and RuO₂ heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells (2020) *Nanoscale Horizons*, 5 (2), pp. 316-324. Cited 18 times. DOI: 10.1039/c9nh00533a
14. Wu, Y.A., McNulty, I., Liu, C., Lau, K.C., Liu, Q., Paulikas, A.P., Sun, C.-J., Cai, Z., Guest, J.R., Ren, Y., Stamenkovic, V., Curtiss, L.A., Liu, Y., Rajh, T. Author Correction: Facet-dependent active sites of a single Cu₂O particle photocatalyst for CO₂ reduction to methanol (*Nature Energy*, (2019), 4, 11, (957-968), (2020) *Nature Energy*, 5 (1), p. 89. Cited 1 time. DOI: 10.1038/s41560-019-0523-y
15. Wu, Y.A., McNulty, I., Liu, C., Lau, K.C., Liu, Q., Paulikas, A.P., Sun, C.-J., Cai, Z., Guest, J.R., Ren, Y., Stamenkovic, V., Curtiss, L.A., Liu, Y., Rajh, T. Facet-dependent active sites of a single Cu₂O particle photocatalyst for CO₂ reduction to methanol (2019) *Nature Energy*, 4 (11), pp. 957-968. Cited 103 times. DOI: 10.1038/s41560-019-0490-3
16. Wang, M., Park, J.H., Kabir, S., Neyerlin, K.C., Kariuki, N.N., Lv, H., Stamenkovic, V.R., Myers, D.J., Ulsh, M., Mauger, S.A. Impact of Catalyst Ink Dispersing Methodology on Fuel Cell Performance Using in-Situ X-ray Scattering (2019) *ACS*

- Applied Energy Materials, 2 (9), pp. 6417-6427. Cited 50 times. DOI: 10.1021/acsam.9b01037
17. Tripković, D.V., Popović, K.D., Jovanović, V.M., Nogueira, J.A., Varela, H., Lopes, P.P., Strmcnik, D., Stamenkovic, V.R., Markovic, N.M. Tuning of catalytic properties for electrooxidation of small organic molecules on Pt-based thin films via controlled thermal treatment (2019) *Journal of Catalysis*, 371, pp. 96-105. Cited 6 times. DOI: 10.1016/j.jcat.2019.01.038
 18. Farinazzo Bergamo Dias Martins, P., Papa Lopes, P., Ticianelli, E.A., Stamenkovic, V.R., Markovic, N.M., Strmcnik, D. Hydrogen evolution reaction on copper: Promoting water dissociation by tuning the surface oxophilicity (2019) *Electrochemistry Communications*, 100, pp. 30-33. Cited 32 times. DOI: 10.1016/j.elecom.2019.01.006
 19. Latyshev, V., Shylenko, O., Bilanych, V., Stamenkovic, V., Rizak, V., Feher, A., Kovalcikova, A., Komanicky, V. Turning Catalysts on by Light-Induced Stress: When Red Means Go (2019) *ChemElectroChem*, DOI: 10.1002/celc.201900862
 20. Latyshev, V., Shylenko, O., Bilanych, V., Stamenkovic, V., Rizak, V., Feher, A., Kovalcikova, A., Komanicky, V. Turning Catalysts on by Light-Induced Stress: When Red Means Go (2019) *ChemElectroChem*, . Cited 1 time. DOI: 10.1002/celc.201900393
 21. Tepavcevic, S., Connell, J.G., Lopes, P.P., Bachhav, M., Key, B., Valero-Vidal, C., Crumlin, E.J., Stamenkovic, V.R., Markovic, N.M. Role of structural hydroxyl groups in enhancing performance of electrochemically-synthesized bilayer V₂O₅ (2018) *Nano Energy*, 53, pp. 449-457. Cited 16 times. DOI: 10.1016/j.nanoen.2018.09.005
 22. Lopes, P.P., Zorko, M., Hawthorne, K.L., Connell, J.G., Ingram, B.J., Strmcnik, D., Stamenkovic, V.R., Markovic, N.M. Real-Time Monitoring of Cation Dissolution/Deintercalation Kinetics from Transition-Metal Oxides in Organic Environments (2018) *Journal of Physical Chemistry Letters*, 9 (17), pp. 4935-4940. Cited 9 times. DOI: 10.1021/acs.jpcllett.8b01936
 23. Peng, P., Lin, X.-M., Liu, Y., Filatov, A.S., Li, D., Stamenkovic, V.R., Yang, D., Prakapenka, V.B., Lei, A., Shevchenko, E.V. Binary Transition-Metal Oxide Hollow Nanoparticles for Oxygen Evolution Reaction (2018) *ACS Applied Materials and Interfaces*, 10 (29), pp. 24715-24724. Cited 40 times. DOI: 10.1021/acsami.8b06165
 24. Lopes, P.P., Tripkovic, D., Martins, P.F.B.D., Strmcnik, D., Ticianelli, E.A., Stamenkovic, V.R., Markovic, N.M. Dynamics of electrochemical Pt dissolution at atomic and molecular levels (2018) *Journal of Electroanalytical Chemistry*, 819, pp. 123-129. Cited 44 times. DOI: 10.1016/j.jelechem.2017.09.047
 25. Strmcnik, D., Castelli, I.E., Connell, J.G., Haering, D., Zorko, M., Martins, P., Lopes, P.P., Genorio, B., Østergaard, T., Gasteiger, H.A., Maglia, F., Antonopoulos, B.K., Stamenkovic, V.R., Rossmeisl, J., Markovic, N.M. Electrocatalytic transformation of HF impurity to H₂ and LiF in lithium-ion batteries (2018) *Nature Catalysis*, 1 (4), pp. 255-262. Cited 70 times. DOI: 10.1038/s41929-018-0047-z
 26. Kim, Y.-T., Lopes, P.P., Park, S.-A., Lee, A.-Y., Lim, J., Lee, H., Back, S., Jung, Y., Danilovic, N., Stamenkovic, V., Erlebacher, J., Snyder, J., Markovic, N.M. Balancing activity, stability and conductivity of nanoporous core-shell iridium/iridium oxide oxygen evolution catalysts (2017) *Nature Communications*, 8 (1), art. no. 1449, . Cited 144 times. DOI: 10.1038/s41467-017-01734-7
 27. Chen, J.G., Jones, C.W., Linic, S., Stamenkovic, V.R. Best Practices in Pursuit of Topics in Heterogeneous Electrocatalysis (2017) *ACS Catalysis*, 7 (9), pp. 6392-6393. Cited 76 times. DOI: 10.1021/acscatal.7b02839
 28. Becknell, N., Son, Y., Kim, D., Li, D., Yu, Y., Niu, Z., Lei, T., Sneed, B.T., More, K.L., Markovic, N.M., Stamenkovic, V.R., Yang, P. Control of Architecture in Rhombic

- Dodecahedral Pt-Ni Nanoframe Electrocatalysts(2017) *Journal of the American Chemical Society*, 139 (34), pp. 11678-11681. Cited 126 times.DOI: 10.1021/jacs.7b05584
29. Kocha, S.S., Shinozaki, K., Zack, J.W., Myers, D.J., Kariuki, N.N., Nowicki, T., Stamenkovic, V., Kang, Y., Li, D., Papageorgopoulos, D. Best Practices and Testing Protocols for Benchmarking ORR Activities of Fuel Cell Electrocatalysts Using Rotating Disk Electrode(2017) *Electrocatalysis*, 8 (4), pp. 366-374. Cited 70 times.DOI: 10.1007/s12678-017-0378-6
 30. Han, S.-D., Kim, S., Li, D., Petkov, V., Yoo, H.D., Phillips, P.J., Wang, H., Kim, J.J., More, K.L., Key, B., Klie, R.F., Cabana, J., Stamenkovic, V.R., Fister, T.T., Markovic, N.M., Burrell, A.K., Tepavcevic, S., Vaughey, J.T. Mechanism of Zn Insertion into Nanostructured δ -MnO₂: A Nonaqueous Rechargeable Zn Metal Battery(2017) *Chemistry of Materials*, 29 (11), pp. 4874-4884. Cited 134 times.DOI: 10.1021/acs.chemmater.7b00852
 - Duan, H., Li, D., Tang, Y., He, Y., Ji, S., Wang, R., Lv, H., Lopes, P.P., Paulikas, A.P., Li, H., Mao, S.X., Wang, C., Markovic, N.M., Li, J., Stamenkovic, V.R., Li, Y. High-Performance Rh₂P Electrocatalyst for Efficient Water Splitting(2017) *Journal of the American Chemical Society*, 139 (15), pp. 5494-5502. Cited 232 times.DOI: 10.1021/jacs.7b01376
 31. Stamenkovic, V.R., Strmcnik, D., Lopes, P.P., Markovic, N.M. Energy and fuels from electrochemical interfaces(2016) *Nature Materials*, 16 (1), pp. 57-69. Cited 874 times.DOI: 10.1038/nmat4738
 32. Connell, J.G., Genorio, B., Lopes, P.P., Strmcnik, D., Stamenkovic, V.R., Markovic, N.M. Tuning the reversibility of Mg anodes via controlled surface passivation by H₂O/Cl⁻ in organic electrolytes(2016) *Chemistry of Materials*, 28 (22), pp. 8268-8277. Cited 72 times.DOI: 10.1021/acs.chemmater.6b03227
 33. Strmcnik, D., Lopes, P.P., Genorio, B., Stamenkovic, V.R., Markovic, N.M. Design principles for hydrogen evolution reaction catalyst materials(2016) *Nano Energy*, 29, pp. 29-36. Cited 363 times.DOI: 10.1016/j.nanoen.2016.04.017
 34. Lv, H., Li, D., Strmcnik, D., Paulikas, A.P., Markovic, N.M., Stamenkovic, V.R. Recent advances in the design of tailored nanomaterials for efficient oxygen reduction reaction(2016) *Nano Energy*, 29, pp. 149-165. Cited 141 times.DOI: 10.1016/j.nanoen.2016.04.008
 35. Kang, Y., Yang, P., Markovic, N.M., Stamenkovic, V.R. Shaping electrocatalysts through tailored nanomaterials(2016) *Nano Today*, 11 (5), pp. 587-600. Cited 106 times.DOI: 10.1016/j.nantod.2016.08.008
 36. Genorio, B., Staszak-Jirkovský, J., Assary, R.S., Connell, J.G., Strmcnik, D., Diesendruck, C.E., Lopes, P.P., Stamenkovic, V.R., Moore, J.S., Curtiss, L.A., Markovic, N.M. Superoxide (Electro)Chemistry on Well-Defined Surfaces in Organic Environments(2016) *Journal of Physical Chemistry C*, 120 (29), pp. 15909-15914. Cited 19 times.DOI: 10.1021/acs.jpcc.5b12230
 37. Li, D., Lv, H., Kang, Y., Markovic, N.M., Stamenkovic, V.R. Progress in the Development of Oxygen Reduction Reaction Catalysts for Low-Temperature Fuel Cells(2016) *Annual Review of Chemical and Biomolecular Engineering*, 7, pp. 509-532. Cited 33 times.DOI: 10.1146/annurev-chembioeng-080615-034526
 38. Lopes, P.P., Strmcnik, D., Tripkovic, D., Connell, J.G., Stamenkovic, V., Markovic, N.M. Relationships between Atomic Level Surface Structure and Stability/Activity of Platinum Surface Atoms in Aqueous Environments(2016) *ACS Catalysis*, 6 (4), pp. 2536-2544. Cited 125 times.DOI: 10.1021/acscatal.5b02920
 39. Lopes, P.P., Strmcnik, D., Jirkovsky, J.S., Connell, J.G., Stamenkovic, V., Markovic, N. Double layer effects in electrocatalysis: The oxygen reduction reaction and ethanol oxidation reaction on Au(1 1 1), Pt(1 1 1) and Ir(1 1 1) in alkaline media containing Na

- and Li cations(2016) *Catalysis Today*, 262, pp. 41-47. Cited 57 times.DOI: 10.1016/j.cattod.2015.09.010
40. Staszak-Jirkovský, J., Malliakas, C.D., Lopes, P.P., Danilovic, N., Kota, S.S., Chang, K.-C., Genorio, B., Strmcnik, D., Stamenkovic, V.R., Kanatzidis, M.G., Markovic, N.M.Design of active and stable Co-Mo-Sx chalcogels as pH-universal catalysts for the hydrogen evolution reaction(2016) *Nature Materials*, 15 (2), pp. 197-203. Cited 619 times.DOI: 10.1038/nmat4481
 41. Becknell, N., Kang, Y., Chen, C., Resasco, J., Kornienko, N., Guo, J., Markovic, N.M., Somorjai, G.A., Stamenkovic, V.R., Yang, P.Atomic Structure of Pt₃Ni Nanoframe Electrocatalysts by in Situ X-ray Absorption Spectroscopy(2015) *Journal of the American Chemical Society*, 137 (50), pp. 15817-15824. Cited 149 times.DOI: 10.1021/jacs.5b09639
 42. Chi, M., Wang, C., Lei, Y., Wang, G., Li, D., More, K.L., Lupini, A., Allard, L.F., Markovic, N.M., Stamenkovic, V.R.Surface faceting and elemental diffusion behaviour at atomic scale for alloy nanoparticles during in situ annealing(2015) *Nature Communications*, 6, art. no. 8925, . Cited 115 times.DOI: 10.1038/ncomms9925
 43. Staszak-Jirkovský, J., Subbaraman, R., Strmcnik, D., Harrison, K.L., Diesendruck, C.E., Assary, R., Frank, O., Kopr, L., Wiberg, G.K.H., Genorio, B., Connell, J.G., Lopes, P.P., Stamenkovic, V.R., Curtiss, L., Moore, J.S., Zavadil, K.R., Markovic, N.M.Water as a Promoter and Catalyst for Dioxygen Electrochemistry in Aqueous and Organic Media(2015) *ACS Catalysis*, 5 (11), pp. 6600-6607. Cited 79 times.DOI: 10.1021/acscatal.5b01779
 44. Tepavcevic, S., Liu, Y., Zhou, D., Lai, B., Maser, J., Zuo, X., Chan, H., Král, P., Johnson, C.S., Stamenkovic, V., Markovic, N.M., Rajh, T.Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries(2015) *ACS Nano*, 9 (8), pp. 8194-8205. Cited 129 times.DOI: 10.1021/acsnano.5b02450
 45. Ciapina, E.G., Lopes, P.P., Subbaraman, R., Ticianelli, E.A., Stamenkovic, V., Strmcnik, D., Markovic, N.M.Surface spectators and their role in relationships between activity and selectivity of the oxygen reduction reaction in acid environments(2015) *Electrochemistry Communications*, 60, art. no. 5502, pp. 30-33. Cited 15 times.DOI: 10.1016/j.elecom.2015.07.020
 46. Danilovic, N., Subbaraman, R., Chang, K.C., Chang, S.H., Kang, Y., Snyder, J., Paulikas, A.P., Strmcnik, D., Kim, Y.T., Myers, D., Stamenkovic, V.R., Markovic, N.M.Using surface segregation to design stable Ru-Ir oxides for the oxygen evolution reaction in acidic environments(2014) *Angewandte Chemie - International Edition*, 53 (51), pp. 14016-14021. Cited 244 times.DOI: 10.1002/anie.201406455
 47. Li, D., Wang, C., Strmcnik, D.S., Tripkovic, D.V., Sun, X., Kang, Y., Chi, M., Snyder, J.D., Van Der Vliet, D., Tsai, Y., Stamenkovic, V.R., Sun, S., Markovic, N.M.Functional links between Pt single crystal morphology and nanoparticles with different size and shape: The oxygen reduction reaction case(2014) *Energy and Environmental Science*, 7 (12), pp. 4061-4069. Cited 152 times.DOI: 10.1039/c4ee01564a
 48. Kang, Y., Snyder, J., Chi, M., Li, D., More, K.L., Markovic, N.M., Stamenkovic, V.R.Multimetallc core/interlayer/shell nanostructures as advanced electrocatalysts(2014) *Nano Letters*, 14 (11), pp. 6361-6367. Cited 123 times.DOI: 10.1021/nl5028205
 49. Luković Golić, D., Čirković, J., Šćepanović, M., Srećković, T., Longo, E., Varela, J.A., Daneu, N., Stamenković, V., Branković, G., Branković, Z.The modification of structural and optical properties of nano- and submicron ZnO powders by variation of solvothermal syntheses conditions(2014) *Journal of Nanoparticle Research*, 16 (10), art. no. 2670, 11 p. Cited 2 times.DOI: 10.1007/s11051-014-2670-1

50. Danilovic, N., Subbaraman, R., Chang, K.-C., Chang, S.H., Kang, Y.J., Snyder, J., Paulikas, A.P., Strmcnik, D., Kim, Y.-T., Myers, D., Stamenkovic, V.R., Markovic, N.M. Activity-stability trends for the oxygen evolution reaction on monometallic oxides in acidic environments(2014) *Journal of Physical Chemistry Letters*, 5 (14), pp. 2474-2478. Cited 355 times. DOI: 10.1021/jz501061n
51. Chang, S.H., Danilovic, N., Chang, K.-C., Subbaraman, R., Paulikas, A.P., Fong, D.D., Highland, M.J., Baldo, P.M., Stamenkovic, V.R., Freeland, J.W., Eastman, J.A., Markovic, N.M. Functional links between stability and reactivity of strontium ruthenate single crystals during oxygen evolution(2014) *Nature Communications*, 5, art. no. 4191, . Cited 176 times. DOI: 10.1038/ncomms5191
52. Nikodinovic-Runic, J., Mojic, M., Kang, Y., Maksimovic-Ivanic, D., Mijatovic, S., Vasiljevic, B., Stamenkovic, V.R., Senerovic, L. Undecylprodigiosin conjugated monodisperse gold nanoparticles efficiently cause apoptosis in colon cancer cells in vitro(2014) *Journal of Materials Chemistry B*, 2 (21), pp. 3271-3281. Cited 7 times. DOI: 10.1039/c4tb00300d
53. Kang, Y., Stamenkovic, V.R., Murray, C.B. Nanocrystal superlattices: Novel model materials for study of catalysis(2014) *RSC Catalysis Series*, 2014-January (18), pp. 47-72.
54. Chang, S.H., Connell, J.G., Danilovic, N., Subbaraman, R., Chang, K.-C., Stamenkovic, V.R., Markovic, N.M. Activity-stability relationship in the surface electrochemistry of the oxygen evolution reaction(2014) *Faraday Discussions*, 176, pp. 125-133. Cited 52 times. DOI: 10.1039/c4fd00134f
55. Chen, C., Kang, Y., Huo, Z., Zhu, Z., Huang, W., Xin, H.L., Snyder, J.D., Li, D., Herron, J.A., Mavrikakis, M., Chi, M., More, K.L., Li, Y., Markovic, N.M., Somorjai, G.A., Yang, P., Stamenkovic, V.R. Highly crystalline multimetallic nanoframes with three-dimensional electrocatalytic surfaces(2014) *Science*, 343 (6177), pp. 1339-1343. Cited 1807 times. DOI: 10.1126/science.1249061
56. Kim, Y.S., Jeon, S.H., Bostwick, A., Rotenberg, E., Ross, P.N., Walter, A.L., Chang, Y.J., Stamenkovic, V.R., Markovic, N.M., Noh, T.W., Han, S., Mun, B.S. Role of preferential weak hybridization between the surface-state of a metal and the oxygen atom in the chemical adsorption mechanism(2013) *Physical Chemistry Chemical Physics*, 15 (43), pp. 19019-19023. Cited 5 times. DOI: 10.1039/c3cp53376j
57. Snyder, J., Danilovic, N., Paulikas, A.P., Tripkovic, D., Strmcnik, D., Markovic, N.M., Stamenkovic, V.R. Thin film approach to single crystalline electrochemistry(2013) *Journal of Physical Chemistry C*, 117 (45), pp. 23790-23796. Cited 19 times. DOI: 10.1021/jp4078272
58. Kim, Y.S., Jeon, S.H., Bostwick, A., Rotenberg, E., Ross, P.N., Stamenkovic, V.R., Markovic, N.M., Noh, T.W., Han, S., Mun, B.S. Role of transition metal in fast oxidation reaction on the Pt3TM (111) (TM = Ni, Co) surfaces(2013) *Advanced Energy Materials*, 3 (10), pp. 1257-1261. Cited 31 times. DOI: 10.1002/aenm.201300166
59. Strmcnik, D., Uchimura, M., Wang, C., Subbaraman, R., Danilovic, N., Van Der Vliet, D., Paulikas, A.P., Stamenkovic, V.R., Markovic, N.M. Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption(2013) *Nature Chemistry*, 5 (4), pp. 300-306. Cited 552 times. DOI: 10.1038/nchem.1574
60. Guo, S., Li, D., Zhu, H., Zhang, S., Markovic, N.M., Stamenkovic, V.R., Sun, S. FePt and CoPt nanowires as efficient catalysts for the oxygen reduction reaction(2013) *Angewandte Chemie - International Edition*, 52 (12), pp. 3465-3468. Cited 343 times. DOI: 10.1002/anie.201209871
61. Danilovic, N., Subbaraman, R., Strmcnik, D., Stamenkovic, V.R., Markovic, N.M. Electrocatalysis of the HER in acid and alkaline media(2013) *Journal of the Serbian Chemical Society*, 78 (12), pp. 2007-2015. Cited 92 times. DOI: 10.2298/JSC131118136D

62. Snyder, J., Markovic, N.M., Stamenkovic, V.R. Single crystalline thin films as a novel class of electrocatalysts (2013) *Journal of the Serbian Chemical Society*, 78 (11), pp. 1689-1702. Cited 2 times. DOI: 10.2298/JSC130916119S
63. Danilovic, N., Subbaraman, R., Strmcnik, D., Chang, K.-C., Paulikas, A.P., Stamenkovic, V.R., Markovic, N.M. Enhancing the alkaline hydrogen evolution reaction activity through the bifunctionality of Ni(OH)₂/metal catalysts (2012) *Angewandte Chemie - International Edition*, 51 (50), pp. 12495-12498. Cited 444 times. DOI: 10.1002/anie.201204842
64. Danilovic, N., Subbaraman, R., Strmcnik, D., Paulikas, A.P., Myers, D., Stamenkovic, V.R., Markovic, N.M. The Effect of Noncovalent Interactions on the HOR, ORR, and HER on Ru, Ir, and Ru_{0.50}Ir_{0.50} Metal Surfaces in Alkaline Environments (2012) *Electrocatalysis*, 3 (3), pp. 221-229. Cited 46 times. DOI: 10.1007/s12678-012-0100-7
65. Subbaraman, R., Danilovic, N., Lopes, P.P., Tripkovic, D., Strmcnik, D., Stamenkovic, V.R., Markovic, N.M. Origin of anomalous activities for electrocatalysts in alkaline electrolytes (2012) *Journal of Physical Chemistry C*, 116 (42), pp. 22231-22237. Cited 59 times. DOI: 10.1021/jp3075783
66. Wang, M., Wang, C., Young, K.L., Hao, L., Medved, M., Rajh, T., Fry, H.C., Zhu, L., Karczmar, G.S., Watson, C., Jiang, J.S., Markovic, N.M., Stamenkovic, V.R. Cross-linked heterogeneous nanoparticles as bifunctional probe (2012) *Chemistry of Materials*, 24 (13), pp. 2423-2425. Cited 16 times. DOI: 10.1021/cm300381f
67. Li, D., Wang, C., Tripkovic, D., Sun, S., Markovic, N.M., Stamenkovic, V.R. Surfactant removal for colloidal nanoparticles from solution synthesis: The effect on catalytic performance (2012) *ACS Catalysis*, 2 (7), pp. 1358-1362. Cited 327 times. DOI: 10.1021/cs300219j
68. Wang, C., Li, D., Chi, M., Pearson, J., Rankin, R.B., Greeley, J., Duan, Z., Wang, G., Van Der Vliet, D., More, K.L., Markovic, N.M., Stamenkovic, V.R. Rational development of ternary alloy electrocatalysts (2012) *Journal of Physical Chemistry Letters*, 3 (12), pp. 1668-1673. Cited 108 times. DOI: 10.1021/jz300563z
69. Wang, C., Markovic, N.M., Stamenkovic, V.R. Advanced platinum alloy electrocatalysts for the oxygen reduction reaction (2012) *ACS Catalysis*, 2 (5), pp. 891-898. Cited 335 times. DOI: 10.1021/cs3000792
70. Van Der Vliet, D.F., Wang, C., Li, D., Paulikas, A.P., Greeley, J., Rankin, R.B., Strmcnik, D., Tripkovic, D., Markovic, N.M., Stamenkovic, V.R. Unique electrochemical adsorption properties of Pt-skin surfaces (2012) *Angewandte Chemie - International Edition*, 51 (13), pp. 3139-3142. Cited 215 times. DOI: 10.1002/anie.201107668
71. Tepavcevic, S., Xiong, H., Stamenkovic, V.R., Zuo, X., Balasubramanian, M., Prakapenka, V.B., Johnson, C.S., Rajh, T. Nanostructured bilayered vanadium oxide electrodes for rechargeable sodium-ion batteries (2012) *ACS Nano*, 6 (1), pp. 530-538. Cited 274 times. DOI: 10.1021/nn203869a
72. Van Der Vliet, D.F., Wang, C., Tripkovic, D., Strmcnik, D., Zhang, X.F., Debe, M.K., Atanasoski, R.T., Markovic, N.M., Stamenkovic, V.R. Mesostructured thin films as electrocatalysts with tunable composition and surface morphology (2012) *Nature Materials*, 11 (12), pp. 1051-1058. Cited 268 times. DOI: 10.1038/nmat3457
73. Subbaraman, R., Tripkovic, D., Chang, K.-C., Strmcnik, D., Paulikas, A.P., Hirunsit, P., Chan, M., Greeley, J., Stamenkovic, V., Markovic, N.M. Trends in activity for the water electrolyser reactions on 3d M(Ni, Co, Fe, Mn) hydr(oxy)oxide catalysts (2012) *Nature Materials*, 11 (6), pp. 550-557. Cited 1654 times. DOI: 10.1038/nmat3313
74. Liu, Y., Li, D., Stamenkovic, V.R., Soled, S., Henao, J.D., Sun, S. Synthesis of Pt₃Sn alloy nanoparticles and their catalysis for electro-oxidation of CO and methanol (2011) *ACS Catalysis*, 1 (12), pp. 1719-1723. Cited 85 times. DOI: 10.1021/cs200430r

75. Subbaraman, R., Tripkovic, D., Strmcnik, D., Chang, K.-C., Uchimura, M., Paulikas, A.P., Stamenkovic, V., Markovic, N.M. Enhancing hydrogen evolution activity in water splitting by tailoring Li⁺-Ni(OH)₂-Pt interfaces(2011) *Science*, 334 (6060), pp. 1256-1260. Cited 1530 times. DOI: 10.1126/science.1211934
76. Wang, C., Markovic, N., Stamenkovic, V. Nanostructure architecture of Pt based electrocatalysts for energy conversion applications(2011) 11AICHE - 2011 AICHE Annual Meeting, Conference Proceedings, 1 p.
77. Wang, C., Stamenkovic, V.R., Markovic, N.M. Pt terminated PtNi electrocatalysts for the oxygen reduction reaction(2011) ACS National Meeting Book of Abstracts, 1 p. Cited 1 time.
78. Strmcnik, D., Van Der Vliet, D.F., Chang, K.-C., Komanicky, V., Kodama, K., You, H., Stamenkovic, V.R., Marković, N.M. Effects of Li⁺, K⁺, and Ba²⁺ cations on the ORR at model and high surface area Pt and Au surfaces in alkaline solutions(2011) *Journal of Physical Chemistry Letters*, 2 (21), pp. 2733-2736. Cited 107 times. DOI: 10.1021/jz201215u
79. Wang, C., Chi, M., Li, D., Van Der Vliet, D., Wang, G., Lin, Q., F. Mitchell, J., More, K.L., Markovic, N.M., Stamenkovic, V.R. Synthesis of homogeneous Pt-bimetallic nanoparticles as highly efficient electrocatalysts(2011) *ACS Catalysis*, 1 (10), pp. 1355-1359. Cited 105 times. DOI: 10.1021/cs200328z
80. Van Der Vliet, D., Wang, C., Debe, M., Atanasoski, R., Markovic, N.M., Stamenkovic, V.R. Platinum-alloy nanostructured thin film catalysts for the oxygen reduction reaction(2011) *Electrochimica Acta*, 56 (24), pp. 8695-8699. Cited 96 times. DOI: 10.1016/j.electacta.2011.07.063
81. Wang, C., Chi, M., Li, D., Strmcnik, D., Van Der Vliet, D., Wang, G., Komanicky, V., Chang, K.-C., Paulikas, A.P., Tripkovic, D., Pearson, J., More, K.L., Markovic, N.M., Stamenkovic, V.R. Design and synthesis of bimetallic electrocatalyst with multilayered Pt-skin surfaces(2011) *Journal of the American Chemical Society*, 133 (36), pp. 14396-14403. Cited 468 times. DOI: 10.1021/ja2047655
82. Genorio, B., Subbaraman, R., Strmcnik, D., Tripkovic, D., Stamenkovic, V.R., Markovic, N.M. Tailoring the selectivity and stability of chemically modified platinum nanocatalysts to design highly durable anodes for PEM fuel cells(2011) *Angewandte Chemie - International Edition*, 50 (24), pp. 5468-5472. Cited 55 times. DOI: 10.1002/anie.201100744
83. Liu, Y., Wang, C., Wei, Y., Zhu, L., Li, D., Jiang, J.S., Markovic, N.M., Stamenkovic, V.R., Sun, S. Surfactant-induced postsynthetic modulation of Pd nanoparticle crystallinity(2011) *Nano Letters*, 11 (4), pp. 1614-1617. Cited 81 times. DOI: 10.1021/nl104548g
84. Wang, C., Van Der Vliet, D., More, K.L., Zaluzec, N.J., Peng, S., Sun, S., Daimon, H., Wang, G., Greeley, J., Pearson, J., Paulikas, A.P., Karapetrov, G., Strmcnik, D., Markovic, N.M., Stamenkovic, V.R. Multimetallic Au/FePt₃ nanoparticles as highly durable electrocatalyst(2011) *Nano Letters*, 11 (3), pp. 919-926. Cited 389 times. DOI: 10.1021/nl102369k
85. Wang, C., Chi, M., Wang, G., Van Der Vliet, D., Li, D., More, K., Wang, H.-H., Schlueter, J.A., Markovic, N.M., Stamenkovic, V.R. Correlation between surface chemistry and electrocatalytic properties of monodisperse Pt_xNi_{1-x} nanoparticles(2011) *Advanced Functional Materials*, 21 (1), pp. 147-152. Cited 209 times. DOI: 10.1002/adfm.201001138
86. Stamenkovic, V.R., Markovic, N.M. Catalysis at bimetallic electrochemical interfaces(2010) *Model Systems in Catalysis: Single Crystals to Supported Enzyme Mimics*, pp. 51-73. Cited 2 times. DOI: 10.1007/978-0-387-98049-2_3

87. Strmcnik, D., Escudero-Escribano, M., Kodama, K., Stamenkovic, V.R., Cuesta, A., Marković, N.M. Enhanced electrocatalysis of the oxygen reduction reaction based on patterning of platinum surfaces with cyanide (2010) *Nature Chemistry*, 2 (10), pp. 880-885. Cited 227 times. DOI: 10.1038/nchem.771
88. Van Der Vliet, D., Strmcnik, D.S., Wang, C., Stamenkovic, V.R., Markovic, N.M., Koper, M.T.M. On the importance of correcting for the uncompensated Ohmic resistance in model experiments of the Oxygen Reduction Reaction (2010) *Journal of Electroanalytical Chemistry*, 647 (1), pp. 29-34. Cited 154 times. DOI: 10.1016/j.jelechem.2010.05.016
89. Subbaraman, R., Strmcnik, D., Stamenkovic, V., Markovic, N.M. Three phase interfaces at electrified metal-solid electrolyte systems 1. study of the Pt(hkl)-Nafion interface (2010) *Journal of Physical Chemistry C*, 114 (18), pp. 8414-8422. Cited 144 times. DOI: 10.1021/jp100814x
90. Wang, C., Tian, W., Ding, Y., Ma, Y.-Q., Wang, Z.L., Markovic, N.M., Stamenkovic, V.R., Daimon, H., Sun, S. Rational synthesis of heterostructured nanoparticles with morphology control (2010) *Journal of the American Chemical Society*, 132 (18), pp. 6524-6529. Cited 122 times. DOI: 10.1021/ja101305x
91. Strmcnik, D., Hodnik, N., Hocevar, S.B., Van Der Vliet, D., Zorko, M., Stamenkovic, V.R., Pihlar, B., Markovic, N.M. Novel method for fast characterization of high-surface-area electrocatalytic materials using a carbon fiber microelectrode (2010) *Journal of Physical Chemistry C*, 114 (6), pp. 2640-2644. Cited 12 times. DOI: 10.1021/jp908939e
92. Genorio, B., Strmcnik, D., Subbaraman, R., Tripkovic, D., Karapetrov, G., Stamenkovic, V.R., Pejovnik, S., Marković, N.M. Selective catalysts for the hydrogen oxidation and oxygen reduction reactions by patterning of platinum with calix[4]arene molecules (2010) *Nature Materials*, 9 (12), pp. 998-1003. Cited 113 times. DOI: 10.1038/nmat2883
93. Subbaraman, R., Strmcnik, D., Paulikas, A.P., Stamenkovic, V.R., Markovic, N.M. Oxygen reduction reaction at three-phase interfaces (2010) *ChemPhysChem*, 11 (13), pp. 2825-2833. Cited 122 times. DOI: 10.1002/cphc.201000190
94. Wang, C., Wang, G., van der Vliet, D., Chang, K.-C., Markovic, N.M., Stamenkovic, V.R. Monodisperse Pt₃Co nanoparticles as electrocatalyst: The effects of particle size and pretreatment on electrocatalytic reduction of oxygen (2010) *Physical Chemistry Chemical Physics*, 12 (26), pp. 6933-6939. Cited 115 times. DOI: 10.1039/c000822b
95. Wang, C., Van Der Vliet, D., Chang, K.-C., You, H., Strmcnik, D., Schluter, J.A., Markovic, N.M., Stamenkovic, V.R. Monodisperse Pt₃Co nanoparticles as a catalyst for the oxygen reduction reaction: Size-dependent activity (2009) *Journal of Physical Chemistry C*, 113 (45), pp. 19365-19368. Cited 166 times. DOI: 10.1021/jp908203p
96. Strmcnik, D., Kodama, K., Van Der Vliet, D., Greeley, J., Stamenkovic, V.R., Marković, N.M. The role of non-covalent interactions in electrocatalytic fuel-cell reactions on platinum (2009) *Nature Chemistry*, 1 (6), pp. 466-472. Cited 361 times. DOI: 10.1038/nchem.330
97. Lucas, C.A., Thompson, P., Cormack, M., Brownrigg, A., Fowler, B., Strmcnik, D., Stamenkovic, V., Greeley, J., Menzel, A., You, H., Markovic, N.M. Temperature-induced ordering of metal/adsorbate structures at electrochemical interfaces (2009) *Journal of the American Chemical Society*, 131 (22), pp. 7654-7661. Cited 20 times. DOI: 10.1021/ja9014666
98. Strmcnik, D., Van Der Vliet, D., Lucas, C., Karapetrov, G., Markovic, N.M., Stamenkovic, V.R. Fine tuning of activity for nanoscale catalysts (2009) *ECS Transactions*, 16 (2 PART 2), pp. 1151-1160. DOI: 10.1149/1.2981957
99. Greeley, J., Markovic, N., Stamenkovic, V. Stability and reactivity of metal-supported metal adclusters (2008) *AIChE Annual Meeting, Conference Proceedings*, 1 p.

100. Strmcnik, D.S., Tripkovic, D.V., Van Der Vliet, D., Chang, K.-C., Komanicky, V., You, H., Karapetrov, G., Greeley, J.P., Stamenkovic, V.R., Marković, N.M. Unique activity of platinum adislands in the CO electrooxidation reaction(2008) *Journal of the American Chemical Society*, 130 (46), pp. 15332-15339. Cited 132 times.DOI: 10.1021/ja8032185
101. Lucas, C.A., Cormack, M., Gallagher, M.E., Brownrigg, A., Thompson, P., Fowler, B., Gründer, Y., Roy, J., Stamenković, V., Marković, N.M. From ultra-high vacuum to the electrochemical interface: X-ray scattering studies of model electrocatalysts(2008) *Faraday Discussions*, 140, pp. 41-58. Cited 21 times.DOI: 10.1039/b803523g
102. Tripkovic, D.V., Strmcnik, D., Van Der Vliet, D., Stamenkovic, V., Markovic, N.M. The role of anions in surface electrochemistry(2008) *Faraday Discussions*, 140, pp. 25-40. Cited 102 times.DOI: 10.1039/b803714k
103. Stamenkovic, V.R., Markovic, N.M. Electrochemistry at Well-Characterized Bimetallic Surfaces(2008) *Fuel Cell Catalysis: A Surface Science Approach*, pp. 245-269. Cited 3 times.DOI: 10.1002/9780470463772.ch8
104. Strmcnik, D., Tripkovic, D., van der Vliet, D., Stamenkovic, V., Marković, N.M. Adsorption of hydrogen on Pt(1 1 1) and Pt(1 0 0) surfaces and its role in the HOR(2008) *Electrochemistry Communications*, 10 (10), pp. 1602-1605. Cited 83 times.DOI: 10.1016/j.elecom.2008.08.019
105. Fowler, B., Lucas, C.A., Omer, A., Wang, G., Stamenković, V.R., Marković, N.M. Segregation and stability at Pt₃Ni(1 1 1) surfaces and Pt₇₅Ni₂₅ nanoparticles(2008) *Electrochimica Acta*, 53 (21), pp. 6076-6080. Cited 56 times.DOI: 10.1016/j.electacta.2007.11.063
106. Mayrhofer, K.J.J., Strmcnik, D., Blizanac, B.B., Stamenkovic, V., Arenz, M., Markovic, N.M. Measurement of oxygen reduction activities via the rotating disc electrode method: From Pt model surfaces to carbon-supported high surface area catalysts(2008) *Electrochimica Acta*, 53 (7), pp. 3181-3188. Cited 776 times.DOI: 10.1016/j.electacta.2007.11.057
107. Strmcnik, D.S., Rebec, P., Gaberscek, M., Tripkovic, D., Stamenkovic, V., Lucas, C., Markovic, N.M. Relationship between the surface coverage of spectator species and the rate of electrocatalytic reactions(2007) *Journal of Physical Chemistry C*, 111 (50), pp. 18672-18678. Cited 47 times.DOI: 10.1021/jp0756146
108. Stamenkovic, V.R., Mun, B.S., Arenz, M., Mayrhofer, K.J.J., Lucas, C.A., Wang, G., Ross, P.N., Markovic, N.M. Trends in electrocatalysis on extended and nanoscale Pt-bimetallic alloy surfaces(2007) *Nature Materials*, 6 (3), pp. 241-247. Cited 2454 times.DOI: 10.1038/nmat1840
109. Stamenkovic, V.R., Fowler, B., Mun, B.S., Wang, G., Ross, P.N., Lucas, C.A., Markovic, N.M. Improved oxygen reduction activity on Pt₃Ni(111) via increased surface site availability(2007) *Science*, 315 (5811), pp. 493-497. Cited 3307 times.DOI: 10.1126/science.1135941
110. Blizanac, B.B., Stamenkovic, V., Markovic, N.M. Electrocatalytic trends on IB group metals: The oxygen reduction reaction(2007) *Zeitschrift fur Physikalische Chemie*, 221 (9-10), pp. 1379-1391. Cited 11 times.DOI: 10.1524/zpch.2007.221.9-10.1379
111. Stamenkovic, V.R., Mun, B.S., Mayrhofer, K.J.J., Ross, P.N., Markovic, N.M. Effect of surface composition on electronic structure, stability, and electrocatalytic properties of Pt-transition metal alloys: Pt-skin versus Pt-skeleton surfaces(2006) *Journal of the American Chemical Society*, 128 (27), pp. 8813-8819. Cited 773 times.DOI: 10.1021/ja0600476
112. Stamenkovic, V., Mun, B.S., Mayrhofer, K.J.J., Ross, P.N., Markovic, N.M., Rossmeisl, J., Greeley, J., Nørskov, J.K. Changing the activity of electrocatalysts for oxygen reduction by tuning the surface electronic structure(2006) *Angewandte Chemie* -

International Edition, 45 (18), pp. 2897-2901. Cited 1438 times.DOI: 10.1002/anie.200504386

113. Mun, B.S., Watanabe, M., Rossi, M., Stamenkovic, V., Markovic, N.M., Ross Jr., P.N.A study of electronic structures of Pt 3M (M=Ti,V,Cr,Fe,Co,Ni) polycrystalline alloys with valence-band photoemission spectroscopy(2005) *Journal of Chemical Physics*, 123 (20), art. no. 204717, . Cited 86 times.DOI: 10.1063/1.2126662
114. Mayrhofer, K.J.J., Arenz, M., Blizanac, B.B., Stamenkovic, V., Ross, P.N., Markovic, N.M.CO surface electrochemistry on Pt-nanoparticles: A selective review(2005) *Electrochimica Acta*, 50 (25-26 SPEC. ISS.), pp. 5144-5154. Cited 145 times.DOI: 10.1016/j.electacta.2005.02.070
115. Mayrhofer, K.J.J., Blizanac, B.B., Arenz, M., Stamenkovic, V.R., Ross, P.N., Markovic, N.M.The impact of geometric and surface electronic properties of Pt-catalysts on the particle size effect in electrocatalysis(2005) *Journal of Physical Chemistry B*, 109 (30), pp. 14433-14440. Cited 559 times.DOI: 10.1021/jp051735z
116. Arenz, M., Stamenkovic, V., Blizanac, B.B., Mayrhofer, K.J., Markovic, N.M., Ross, P.N.Carbon-supported Pt-Sn electrocatalysts for the anodic oxidation of H₂, CO, and H₂/CO mixtures.: Part II: The structure-activity relationship(2005) *Journal of Catalysis*, 232 (2), pp. 402-410. Cited 139 times.DOI: 10.1016/j.jcat.2005.03.022
117. Arenz, M., Mayrhofer, K.J.J., Stamenkovic, V., Blizanac, B.B., Tomoyuki, T., Ross, P.N., Markovic, N.M.The effect of the particle size on the kinetics of CO electrooxidation on high surface area Pt catalysts(2005) *Journal of the American Chemical Society*, 127 (18), pp. 6819-6829. Cited 466 times.DOI: 10.1021/ja043602h
118. Mun, B.S., Lee, C., Stamenkovic, V., Markovic, N.M., Ross, P.N.A photoemission study of Pd ultrathin films on Pt (111)(2005) *Journal of Chemical Physics*, 122 (18), art. no. 184712, . Cited 13 times.DOI: 10.1063/1.1897693
119. Mun, B.S., Lee, C., Stamenkovic, V., Markovic, N.M., Ross Jr., P.N.Electronic structure of Pd thin films on Re(0001) studied by high-resolution core-level and valence-band photoemission(2005) *Physical Review B - Condensed Matter and Materials Physics*, 71 (11), art. no. 115420, . Cited 36 times.DOI: 10.1103/PhysRevB.71.115420
120. Anderson, A.B., Roques, J., Mukerjee, S., Murthi, V.S., Markovic, N.M., Stamenkovic, V.Activation energies for oxygen reduction on platinum alloys: Theory and experiment(2005) *Journal of Physical Chemistry B*, 109 (3), pp. 1198-1203. Cited 160 times.DOI: 10.1021/jp047468z
121. Stamenkovic, V., Grgur, B.N., Ross, P.N., Markovic, N.M.Oxygen reduction reaction on Pt and Pt-bimetallic electrodes covered by CO mechanism of the air bleed effect with reformate(2005) *Journal of the Electrochemical Society*, 152 (2), pp. A277-A282. Cited 46 times.DOI: 10.1149/1.1845321
122. Arenz, M., Stamenkovic, V., Ross, P.N., Markovic, N.M.Surface (electro-)chemistry on Pt(111) modified by a Pseudomorphic Pd monolayer(2004) *Surface Science*, 573 (1), pp. 57-66. Cited 52 times.DOI: 10.1016/j.susc.2004.05.144
123. Stamenković, V., Mayrhofer, K.J.J., Mun, B.S., MArenz, Blizanac, B.B., Ross, P.N., Marković, N.M.Surface properties and oxygen reduction reaction on PT and PT-bimetallic surfaces(2004) *Proceedings - Electrochemical Society*, PV 2004-18, pp. 220-229. Cited 1 time.
124. Stamenković, V., Arenz, M., Ross, P.N., Marković, N.M.Temperature-induced deposition method for anchoring metallic nanoparticles onto reflective substrates for in situ electrochemical infrared spectroscopy(2004) *Journal of Physical Chemistry B*, 108 (46), pp. 17915-17920. Cited 13 times.DOI: 10.1021/jp0467301

125. Schmidt, T.J., Stamenkovic, V., Markovic, N.M., Ross Jr., P.N. Electrooxidation of H₂, CO and H₂/CO on well-characterized Au(1 1 1)-Pd surface alloys(2003) *Electrochimica Acta*, 48 (25-26), pp. 3823-3828. Cited 44 times. DOI: 10.1016/S0013-4686(03)00516-4
126. Gallagher, M.E., Lucas, C.A., Stamenković, V., Marković, N.M., Ross, P.N. Surface structure and relaxation at the Pt₃Sn(1 1 1)/ electrolyte interface(2003) *Surface Science*, 544 (2-3), pp. L729-L734. Cited 21 times. DOI: 10.1016/j.susc.2003.08.033
127. Arenz, M., Stamenkovic, V., Schmidt, T.J., Wandelt, K., Ross, P.N., Markovic, N.M. The electro-oxidation of formic acid on Pt-Pd single crystal bimetallic surfaces(2003) *Physical Chemistry Chemical Physics*, 5 (19), pp. 4242-4251. Cited 197 times. DOI: 10.1039/b306307k
128. Stamenković, V., Schmidt, T.J., Ross, P.N., Marković, N.M. Surface segregation effects in electrocatalysis: Kinetics of oxygen reduction reaction on polycrystalline Pt₃Ni alloy surfaces(2003) *Journal of Electroanalytical Chemistry*, 554-555 (1), pp. 191-199. Cited 282 times. DOI: 10.1016/S0022-0728(03)00177-3
129. Arenz, M., Stamenkovic, V., Ross, P.N., Markovic, N.M. Preferential oxidation of carbon monoxide adsorbed on Pd submonolayer films deposited on Pt(100)(2003) *Electrochemistry Communications*, 5 (9), pp. 809-813. Cited 25 times. DOI: 10.1016/j.elecom.2003.07.001
130. Ball, M.J., Lucas, C.A., Marković, N.M., Stamenković, V., Ross, P.N. Surface X-ray scattering studies of the growth of Pd thin films on the Pt(0 0 1) electrode surface and the effects of the adsorption of CO(2003) *Surface Science*, 540 (2-3), pp. 295-302. Cited 24 times. DOI: 10.1016/S0039-6028(03)00841-0
131. Stamenković, V.R., Arenz, M., Lucas, C.A., Gallagher, M.E., Ross, P.N., Marković, N.M. Surface chemistry on bimetallic alloy surfaces: Adsorption of anions and oxidation of CO on Pt₃Sn(111)(2003) *Journal of the American Chemical Society*, 125 (9), pp. 2736-2745. Cited 111 times. DOI: 10.1021/ja028771l
132. Arenz, M., Stamenkovic, V., Schmidt, T.J., Wandelt, K., Ross, P.N., Markovic, N.M. The effect of specific chloride adsorption on the electrochemical behavior of ultrathin Pd films deposited on Pt(1 1 1) in acid solution(2003) *Surface Science*, 523 (1-2), pp. 199-209. Cited 72 times. DOI: 10.1016/S0039-6028(02)02456-1
133. Schmidt, T.J., Stamenkovic, V., Ross Jr., P.N., Markovic, N.M. Temperature dependent surface electrochemistry on Pt single crystals in alkaline electrolyte: Part 3. The oxygen reduction reaction(2003) *Physical Chemistry Chemical Physics*, 5 (2), pp. 400-406. Cited 112 times. DOI: 10.1039/b208322a
134. Stamenković, V., Schmidt, T.J., Ross, P.N., Marković, N.M. Surface composition effects in electrocatalysis: Kinetics of oxygen reduction on well-defined Pt₃Ni and Pt₃Co alloy surfaces(2002) *Journal of Physical Chemistry B*, 106 (46), pp. 11970-11979. Cited 753 times. DOI: 10.1021/jp021182h
135. Schmidt, T.J., Markovic, N.M., Stamenkovic, V., Ross Jr., P.N., Attard, G.A., Watson, D.J. Surface characterization and electrochemical behavior of well-defined Pt-Pd{111} single-crystal surfaces: A comparative study using Pt{111} and palladium-modified Pt{111} electrodes(2002) *Langmuir*, 18 (18), pp. 6969-6975. Cited 28 times. DOI: 10.1021/la025521+
136. Paulus, U.A., Wokaun, A., Scherer, G.G., Schmidt, T.J., Stamenkovic, V., Radmilovic, V., Markovic, N.M., Ross, P.N. Oxygen reduction on carbon-supported Pt-Ni and Pt-Co alloy catalysts(2002) *Journal of Physical Chemistry B*, 106 (16), pp. 4181-4191. Cited 861 times. DOI: 10.1021/jp013442l
137. Stamenković, V., Blizanac, B.B., Grgur, B., Marković, N.M. Electrocatalysis of fuel cells reaction on Pt and Pt-bimetallic anode catalysts: A selective review(2002) *Chemical Industry and Chemical Engineering Quarterly*, 8 (2), pp. 273-286. Cited 2 times.

138. Ciric-Marjanovic, G., Marjanović, B., Stamenković, V., Vitnik, Ž., Antić, V., Juranić, I. Structure and stereochemistry of electrochemically synthesized poly-(1-naphthylamine) from neutral acetonitrile solution(2002) Journal of the Serbian Chemical Society, 67 (12), pp. 867-877. Cited 36 times.DOI: 10.2298/JSC0212867C
139. Schmidt, T.J., Stamenkovic, V., Attard, G.A., Markovic, N.M., Ross Jr., P.N. On the behavior of Pt(111)-Bi in acid and alkaline electrolytes(2001) Langmuir, 17 (24), pp. 7613-7619. Cited 13 times.DOI: 10.1021/la0103160
140. Ball, M., Lucas, C.A., Markovic, N.M., Murphy, B.M., Steadman, P., Schmidt, T.J., Stamenkovic, V., Ross, P.N. X-ray scattering studies of irreversibly adsorbed bismuth on the Pt(111) electrode surface(2001) Langmuir, 17 (19), pp. 5943-5946. Cited 14 times.DOI: 10.1021/la010192r
141. Stamenković, V., Marković, N.M. Oxygen reduction and hydrogen oxidation reactions on Pt(111) and Pt(100) in solutions containing copper ions(2001) Langmuir, 17 (8), pp. 2388-2394. Cited 24 times.DOI: 10.1021/la0014095
142. Stamenkovic, V., Markovic, N.M., Ross, P.N. Structure-relationships in electrocatalysis: Oxygen reduction and hydrogen oxidation reactions on Pt(111) and Pt(100) in solutions containing chloride ions(2001) Journal of Electroanalytical Chemistry, 500 (1-2), pp. 44-51. Cited 221 times.DOI: 10.1016/S0022-0728(00)00352-1
143. Schmidt, T.J., Stamenkovic, V.R., Lucas, C.A., Markovic, N.M., Ross, P.N., Jr. Surface processes and electrocatalysis on the Pt(hkl)/Bi-solution interface(2001) Physical Chemistry Chemical Physics, 3 (18), pp. 3879-3890. Cited 25 times.DOI: 10.1039/b102388h
144. Marković, N.M., Lucas, C.A., Climent, V., Stamenković, V., Ross, P.N. Surface electrochemistry on an epitaxial palladium film on Pt(111): Surface microstructure and hydrogen electrode kinetics(2000) Surface Science, 465 (1-2), pp. 103-114. Cited 87 times.DOI: 10.1016/S0039-6028(00)00674-9
145. Mioč, U.B., Todorović, M., Uskoković-Marković, S., Nedić, Z., Stamenković, V., Čajkovski, T. Structural modifications of Cu(II) 12-tungstophosphoric acid salt studied by IR and Raman spectroscopy(2000) Journal of the Serbian Chemical Society, 65 (5-6), pp. 407-415. Cited 4 times.DOI: 10.2298/jsc0006407m
146. Mioč, U.B., Milonjić, S.K., Stamenković, V., Radojević, M., Colomban, Ph., Mitrović, M.M., Dimitrijević, R. Structural properties and proton conductivity of the 12-tungstophosphoric acid doped aluminosilicate gels(1999) Solid State Ionics, 125 (1), pp. 417-424. Cited 28 times.DOI: 10.1016/S0167-2738(99)00204-0
147. Čajkovski, T., Davidović, M., Čajkovski, D., Likar-Smiljanić, V., Biljić, R., Mioč, U., Stamenković, V. Dielectric properties of metal salts of heteropolyacid hydrates(1998) Solid State Phenomena, 61-62, pp. 279-284. Cited 6 times.DOI: 10.4028/www.scientific.net/ssp.61-62.279
148. Mioč, U.B., Milonjić, S.K., Malović, D., Stamenković, V., Colomban, Ph., Mitrović, M.M., Dimitrijević, R. Structure and proton conductivity of 12-tungstophosphoric acid doped silica(1997) Solid State Ionics, 97 (1-4), pp. 239-246. Cited 50 times.DOI: 10.1016/s0167-2738(97)00089-1

3. Зборници међународних научних скупова, категорије M30

1. **V. Stamenkovic**(PLENARY), *Electrochemical Interfaces for Energy Conversion and Storage*, 2020 ISE Belgrade-Online Annual Meeting, September 2020, Belgrade, Serbia

2. N. Becknell, P. Papa Lopes, D. Jung, D. Strmcnik, N. Markovic and **V. Stamenkovic** (Invited), *3D Design in Electrocatalysis*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
3. D. Jung, P. Papa Lopes, D. Strmcnik, N. Markovic and **V. Stamenkovic** (Invited), *Challenges in Development of Electrocatalysts for Water Splitting*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA.
4. R. Wang, H. Lv, N. Becknell, P. Papa Lopes, P. Bergamo, N. Markovic, and **V. Stamenkovic** (Invited), *Scale up of Advanced Fuel Cell Catalysts in Batch and Flow Reactors*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
5. R. Wang, H. Lv, P. Papa Lopes, N. Markovic, and **V. Stamenkovic** (Invited), *Transition of Nanomaterials Chemical Synthesis to Manufacturing*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
6. P. Papa Lopes, D. Strmcnik, N. Markovic and **V. Stamenkovic** (Invited), *Materials for Fuel Cells and Batteries in Hybrid Vehicles*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
7. D. Strmcnik, P. Papa Lopes, N. Markovic and **V. Stamenkovic** (Invited), *Electrochemical Interfaces for Energy Conversion and Storage*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
8. P. Papa Lopes, N. Becknell, D. Jung, D. Strmcnik, N. Markovic and **V. Stamenkovic** (Key Note), *Design of Electrocatalysts at Atomic Scale*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
9. D. Strmcnik, P. Papa Lopes, D. Jung, N. Becknell, N. Markovic and **V. Stamenkovic** (Invited), *Structure-Function Properties of Electrocatalysts at Nanoscale*, 258th American Chemical Society Fall National Meeting, August 2019, San Diego, CA
10. **V. Stamenkovic** and N. Markovic (Invited), *Tailored High-Performance Low-Platinum-Group-Metal Alloy Cathode Catalysts*, 2019 US DOE Annual Merit Review Meeting on Hydrogen and Fuel Cells, May 2019, Washington, DC
11. P.P. Lopes, D. Strmcnik, R. Wang, H. Lv, N. Becknell, N.M. Markovic and **V. Stamenkovic**(Invited), *Catalysis for Fuel Cells*, 235th Electrochemical Society Meeting, May 2019, Dallas, TX
12. D.Y. Chung, P.P. Lopes, D. Strmcnik, N.M. Markovic and **V. Stamenkovic**(Key Note), *Electrocatalysis on Nanostructured Metal Oxide*, 235th Electrochemical Society Meeting, May 2019, Dallas, TX
13. D. Strmcnik, P.P. Lopes, N. Becknell, N.M. Markovic and **V. Stamenkovic**(Invited), *Electrified interfaces for energy applications*, 257th American Chemical Society Spring National Meeting, April 2019, Orlando, FL
14. **V. Stamenkovic**(PLENARY), *Fuel Cell Cathodes* 234th Electrochemical Society Meeting, October 2018, Cancun, Mexico
15. **V. Stamenkovic**, N. Markovic, P. Paulikas, N. Becknell, P. P. Lopes, D. Strmcnik (PLENARY), *Electrochemical Interfaces for Energy Conversion and Storage*, International Symposium on Electrocatalysis, August 2018, Szczyrk, Poland
16. N. Becknell, P. P. Lopes, H. Lv, E. Coleman, D. Strmcnik, N. Markovic and **V. Stamenkovic** (KEY NOTE), *Advanced architectures of nanostructured electrocatalysts guided by well-defined surface studies* 256th American Chemical Society National Meeting, August 2018, Boston, MA
17. **V. Stamenkovic** and N. Markovic (Invited 30 min talk), *Energy and Fuels from Multifunctional Electrochemical Interfaces*, 2018 DOE BES Materials Chemistry PI Meeting, July 2018, Washington, DC

18. **V. Stamenkovic** and N. Markovic (*Invited 30 min talk*), *Tailored High-Performance Low-Platinum-Group-Metal Alloy Cathode Catalysts* 2018 Annual Merrit Review Meeting, June 2018, Washington, DC
19. **V. Stamenkovic** and N. M. Markovic (*KEYNOTE 40 min talk*), *Past, present and future of electrochemistry*, 233th Electrochemical Society Meeting, May 2018, Seattle, WA
20. E. Coleman, P. P. Lopes, R. Wang, D. Strmcnik, N. M. Markovic and **V. Stamenkovic** (*Invited 30 min talk*), *Carbon Based Electrocatalysts*, 233th Electrochemical Society Meeting, May 2018, Seattle, WA
21. P. P. Lopes, D. Strmcnik, D. Li, N. M. Markovic and **V. Stamenkovic** (*Invited 30 min talk*), *Enhancing HER and OER Electrocatalysis*, 233th Electrochemical Society Meeting, May 2018, Seattle, WA
22. P. P. Lopes, D. Strmcnik, N. M. Markovic and **V. Stamenkovic** (*KEYNOTE 40 min talk*), *Correlating Fundamental Properties of Materials to Fuel Cell Catalysts* 233th Electrochemical Society Meeting, May 2018, Seattle, WA
23. N. Becknell, P. P. Lopes, H. Lv, E. Coleman, D. Li, R. Wang, D. Strmcnik, N. M. Markovic and **V. Stamenkovic** (*Invited 30 min talk*), *Tailored ORR Electrocatalysts*, 233th Electrochemical Society Meeting, May 2018, Seattle, WA
24. **V. Stamenkovic** (*KEY NOTE*), *Design of Materials for Electrochemical Conversion and Storage* American Chemical Society Symposia and Forum on Catalysis, 31st Conference of the Chinese Chemical Society, 2018, Hangzhou, China
25. **V. Stamenkovic**, J. Connell, Y. Zhu, S. Tepavcevic, P. Zapol, J. Freeland, D. Fong, J. Sakamoto, K. Amin, L. Curtiss and N. Markovic (*Invited 20 min talk*), *Solid-solid reactivity*, US –Germany Energy Storage Workshop, March 2018, Washington, DC
26. **V. Stamenkovic**, *Challenges in the Development of Fuel Cells Catalysts* (*PLENARY*), Fuel Cells Workshop, Bar Ilan University, November 2017, Tel Aviv, Israel
27. E. Coleman, P. P. Lopes, D. Strmcnik, N. Markovic and **V. Stamenkovic** (*KEY NOTE*) *Energy and fuels from tailored nanomaterials and electrochemical interfaces*, 254th American Chemical Society National Meeting, August 2017, Washington, DC
28. P. P. Lopes, E. Coleman, D. Strmcnik, N. Markovic and **V. Stamenkovic** *Advanced Carbon Structures for PEMFC*, 231th Electrochemical Society Meeting, May 2017, New Orleans, LA
29. D. Li, H. Li, P. P. Lopes, D. Strmcnik, N. Markovic and **V. Stamenkovic** *From Fundamentals to PEMFC Systems*, 231th Electrochemical Society Meeting, May 2017, New Orleans, LA
30. **V. Stamenkovic**, *From Well-Defined Electrochemical Interfaces to Functional Nanoscale Materials*, 235rd American Chemical Society National Meeting, April 2017, San Francisco, CA
31. D. Li, D. Strmcnik, N. Markovic and **V. Stamenkovic** *Design and Synthesis of Nanomaterials for Energy Applications*, Gordon Research Conference, February 2017, Ventura, CA
32. **V. Stamenkovic**, *Tailored Electrocatalysts with Advanced Properties* (*PLENARY*) Fuel Cells Workshop, Bar Ilan University, November 2016, Tel Aviv, Israel
33. P. P. Lopes, D. Li, D. Strmcnik, N. Markovic and **V. Stamenkovic** *Aqueous Solid-Liquid Interfaces at Atomic Scale*, 230th Electrochemical Society Meeting, October 2016, Honolulu, HI
34. D. Li, D. Strmcnik, N. Markovic and **V. Stamenkovic**, *Novel High-Performance Low-PGM Catalysts*, Gordon Research Conference, August 2016, Easton, MA
35. **V. Stamenkovic** (*PLENARY*), *State of the Art and Challenges Facing Low-Temperature Fuel Cell Electrocatalysis*, DOE Catalysis Working Group Meeting, July 2016, Argonne, IL

36. N.Markovic and **V. Stamenkovic**, *Tailored High-Performance Low-Platinum-Group-Metal Alloy Cathode Catalysts*, 2016 Annual Merit Review Fuel Cells, June 2016, Washington, DC
37. **V. Stamenkovic** (PLENARY), *Tailored Electrochemical Interfaces*, 2016 International Solvation Science Summer School, May 2016, Bochum, Germany
38. **V. Stamenkovic**, N. Markovic, D. Li, D. Strmcnik, *Advanced Electrocatalysts for Fuel Cells*, TechConnect 2016 Innovation Conference, May 2016, Washington DC
39. **V. Stamenkovic**, N. Markovic, D. Li, D. Strmcnik (KEY NOTE LECTURE) *Progress in Materials Design of Electrocatalysts for Fuel Cells / Electrolyzers*, Materials Research Society 2016 Spring Meeting, April 2016, Phoenix, AZ
40. **V. Stamenkovic**, P. P. Lopes, D. Strmcnik, S-H. Chang, J. Eastman, D. Fong, N. Markovic, *Electrocatalysis on Complex Metal Oxide Interfaces*, Materials Research Society 2016 Spring Meeting, April 2016, Phoenix, AZ
41. D. Li, J. Snyder, Y. Kang, D. Strmcnik, N. Markovic and **V. Stamenkovic** *Electrocatalysts with Advanced Properties*, Materials Research Society 2015 Fall Meeting, December 2015, Boston, MA
42. D. Li, D. Strmcnik, N.Markovic and **V. Stamenkovic**(KEYNOTE), *Advanced Catalysts with Ultra-Low PGM Content for PEMFC Cathode*, The 2015 Electrolysis and Fuel Cells Discussions, September 2015, La Grande Motte, France
43. **V. Stamenkovic**, N. Markovic, D. Strmcnik, D. Li., Y. Kang (PLENARY), *From Well-Defined Interfaces to Functional Nanoscale Materials*, The 7th International Fuel Cells Workshop, August 2015, Kofu, Japan
44. N.Markovic and **V. Stamenkovic**, *Nanosegregated Cathode Catalysts with Ultra-Low Platinum Loading* 2015 Annual Merit Review Fuel Cells, June 2015, Washington, DC
45. D. Li, Y. Kang, D. Strmcnik, N.Markovic and **V. Stamenkovic**(KEYNOTE), *Advanced Materials for Electrochemical Systems*, 227th Electrochemical Society Meeting, May 2015, Chicago, IL
46. Yijin Kang, Dongguo Li, Dusan Strmcnik, N.Markovic and **V. Stamenkovic**, *Electrocatalysis on Tailored Electrochemical Interfaces*, 227th Electrochemical Society Meeting, May 2015, Chicago, IL
47. Y. Kang, J. Snyder, N. Danilovic, D. Strmcnik, D. Li, N.Markovic and **V. Stamenkovic**, *Enhancing ORR and OER with Tailored Nanoscale Surfaces (KEYNOTE)*, Materials Research Society 2015 Spring Meeting, April 2015, San Francisco, CA
48. D.G. Li, Y. Kang, J. Snyder, D. Strmcnik, N.Markovic, and **V.R. Stamenkovic**, *Advanced Electrocatalysts for Fuel Cells*, AIChE Midwest Regional Conference, March 2015, Chicago, IL
49. **V. Stamenkovic** and N.M. Markovic, *Fuel Cell Electrocatalysts with Ultra-Low Pt Loading*, DOE Catalysis Working Group Meeting, January 2015, Los Alamos, NM
50. Y. Kang, D. Li, D. Strmcnik, N. M. Markovic and **V. Stamenkovic**, *Tailored Nanomaterials for Electrochemical Applications*, AVS Meeting, Kona, Hawaii, December, 2014
51. **V. Stamenkovic**; *Electrochemical Energy Conversion (KEY NOTE LECTURE)*, International Conference on Electrochemical Science and Technology, Oct-Nov 2014, Shanghai, China
52. **V. Stamenkovic**, *Energy and Fuels from Electrochemical Interfaces*, Sustainable Tech Summit, University of California Santa Barbara, October 2014, Santa Barbara, CA
53. Joshua Snyder, Yijin Kang, Dongguo Li, Dusan Strmcnik, N.Markovic and **V. Stamenkovic**, *Novel Pathways for Improving the ORR Rate (KEY NOTE LECTURE)*, 226th Electrochemical Society Meeting, October 2014, Cancun, Mexico

54. Joshua Snyder, Yijin Kang, Dongguo Li, N.Markovic and **V. Stamenkovic**, *Electrocatalysts with Tailored Properties*, 226th Electrochemical Society Meeting, October 2014, Cancun, Mexico
55. **V. Stamenkovic**, *Advanced Electrocatalysts*, 3rd Summer School on Reactivity of Nanoparticles, Technical University of Denmark, Department of Physics, August 2014, Copenhagen, Denmark
56. Nenad M. Markovic and **V. Stamenkovic**, *Nanosegregated Cathode Catalysts with Ultra-Low Platinum Loading*, US DOE Hydrogen Program Annual Merit Review, June 2014, Washington DC
57. Nenad M. Markovic and **V. Stamenkovic** (*KEY NOTE LECTURE*), *The Role of Well-Defined Surfaces in Electrocatalysis*, 225th Electrochemical Society Meeting, May 2014, Orlando, FL
58. Joshua Snyder, Yijin Kang, Dongguo Li, Nenad M. Markovic and **V. Stamenkovic**, *Advanced Electrocatalysts for Fuel Cells*, 225th Electrochemical Society Meeting, May 2014, Orlando, FL
59. Joshua Snyder, Yijin Kang, Dongguo Li, Nenad M. Markovic and **V. Stamenkovic**, *Mesostructured Multimetallic Thin Films as Electrocatalysts for Fuel Cells* 224th Electrochemical Society Meeting, October 2013, San Francisco, CA
60. N.M.Markovic and **V. Stamenkovic**, *Harvesting Energy from Electrochemical Interfaces*, Catalytic Concepts for Energy Symposium, September 2013, Urbana-Champaign, IL
61. **V. Stamenkovic**, *Nanoscale materials at electrochemical interfaces (PLENARY TALK)* 246th American Chemical Society National Meeting, September 2013, Indianapolis, IN
62. C. Wang, N. Markovic and **V. Stamenkovic**, *Design and Synthesis of Advanced Electrocatalysts*, 246th American Chemical Society National Meeting, September 2013, Indianapolis, IN
63. D. Tripkovic, D. Strmcnik, J. Snyder, N. Markovic and **V. Stamenkovic**, *Advanced Materials for Electrochemical Applications*, The Second Conference of the Serbian Ceramic Society, Jun 2013, Belgrade, Serbia
64. D. Strmcnik, N. Markovic and **V. Stamenkovic**, *Advanced Electrocatalysts*, Fourth Regional ISE Symposium on Electrochemistry, May 2013, Ljubljana, Slovenia
65. C. Wang, N. Markovic and **V. Stamenkovic**, *Particle Size Effect on Electrocatalyst Stability*, 2012 Materials Research Society Fall Meeting, November 2012, Boston, MA
66. C. Wang, D. van der Vliet, D. Strmcnik, J. Greeley, N. Markovic and **V. Stamenkovic**, *Design of Advanced Multimetallic Electrocatalysts (PLENARY TALK)*, ISE International Symposium on Electrocatalysis, November 2012, Maragogi, Brazil
67. C. Wang, D. van der Vliet, D. Tripkovic, D. Strmcnik, D. Li N. Markovic and **V. Stamenkovic**, *Advanced Electrocatalysts for PEM Fuel Cells*, 222th Electrochemical Society Meeting, October 2012, Honolulu, HI
68. C. Wang, D. van der Vliet, D. Li, D. Tripkovic, D.Strmcnik, N. Markovic and **V. Stamenkovic**, *Synthesis of Nanocatalysts with Tailored Structures*, 244th American Chemical Society National Meeting, August 2012, Philadelphia, PA
69. N. Markovic and **V. Stamenkovic**, *Energy and Fuels from Multi-functional Electrochemical Interfaces*, Materials Chemistry Principal Investigators' Meeting, DOE BES Office of Science, July, 2012, Annapolis, MD
70. N. Markovic and **V. Stamenkovic**, *Electrocatalysis at Mesoscale*, Materials Chemistry Principal Investigators' Meeting, DOE BES Office of Science, July, 2012, Annapolis, MD

71. D. Tripkovic, D. Strmcnik, D. van der Vliet, C. Wang, N. Markovic and **V. Stamenkovic**, *In-Situ Infrared Spectroscopy as a Tool for Evaluation of Nanoscale Surface Morphology* 221th Int. Meeting of the Electrochemical Society, May 2012, Seattle, WA
72. D. Strmcnik, D. Tripkovic, R. Subbaraman, N. Danilovic, D. van der Vliet, A. Paulikas, **V. Stamenkovic** and N. Markovic, *Controlling Reactivity of Electrochemical Interfaces by Tuning Non-Covalent Interactions* 221th Int. Meeting of the Electrochemical Society, May 2012, Seattle, WA
73. D. Vander Vliet, C. Wang, D. Li, N. Markovic and **V. Stamenkovic**, *Towards Nano-engineered Pt-Skin High Surface Area Catalysts*, 221th Int. Meeting of the Electrochemical Society, May 2012, Seattle, WA
74. R. Subbaraman, D. Tripkovic, D. Strmcnik, G.K. Wiberg, J.S. Jirkovsky, C. Wang, **V. Stamenkovic** and N. Markovic, *Electrochemical Interfaces for Energy Conversion and Storage* 221th Int. Meeting of the Electrochemical Society, May 2012, Seattle, WA
75. C. Wang, D. Strmcnik, D. van der Vliet, N. Markovic and **V. Stamenkovic**, *Materials for Energy Conversion at Solid-Liquid Interfaces*, 2012 Materials Research Society Spring Meeting, April 2012, San Francisco, CA
76. C. Wang, D. van der Vliet, D. Strmcnik, D. Tripkovic, N. Markovic and **V. Stamenkovic**, *Advanced Electrocatalysts*, 2nd Nano Today Conference, Waikoloa Village, Kona, December 2011, HI, USA
77. **V. Stamenkovic**; *Tailored Nanomaterials for Clean Energy Conversion and Storage (PLENARY TALK)* International Workshop on Energy Conversion, November 2011, Kyoto, Japan
78. C. Wang, N. Markovic and **V. Stamenkovic**, *Rational Design and Synthesis Advanced Electrocatalysts for Energy Conversion Applications - From Extended Surfaces to Nanoscale Architectures*, 2011 Materials Research Society Fall Meeting, November 2011, Boston, MA
79. N. Markovic and **V. Stamenkovic**; *Future Concepts in Electrocatalysis*, 5th Santa Fe Workshop on Materials for Energy Conversion, November 2011, Santa Fe, NM
80. **D. van der Vliet**, C. Wang, D. Li, N. Markovic and **V. Stamenkovic**, *Towards Nano-engineered Pt-skin High Surface Area Catalysts*, ELCAT Congress Electrochemistry: Past present and future. November, 2011 Alicante, Spain
81. C. Wang, N. Markovic and **V. Stamenkovic**, *Advanced Pt-bimetallic Electrocatalysts from Organic Solution Synthesis*, 220th Int. Meeting of the Electrochemical Society, October 2011, Boston, MA
82. C. Wang, N. Markovic and **V. Stamenkovic**, *Synthesis of Advanced Nanomaterials*, Northern Illinois University, September 2011, DeKalb, IL, USA
83. C. Wang, D. van der Vliet, D. Strmcnik, D. Tripkovic, N. Markovic and **V. Stamenkovic**, *Design and Synthesis of Advanced Catalysts*, 5th International Conf. on Polymer Batteries and Fuel Cells, August 2011, Argonne, IL
84. **V. Stamenkovic**, *Nanosegregated Surfaces for Energy Applications*, Gordon Research Conference on Thin Films, University of New England, July 2011, Biddeford, ME, USA
85. C. Wang, D. Strmcnik, D. Tripkovic, D. van der Vliet, N. Markovic and **V. Stamenkovic**, *Electrocatalysis on Well-Defined Solid-Liquid Interfaces*, 219th Int. Meeting of the Electrochemical Society, May 2011, Montreal, Canada
86. C. Wang, D. Strmcnik, D. Tripkovic, N. Markovic and **V. Stamenkovic**, *Advanced Nanoscale Electrocatalysts for Fuel Cells*, 2010 Materials Research Society Fall Meeting, November 2010, Boston, MA
87. N.M. Markovic and **V. Stamenkovic**, *Recent Trends in Electrocatalysis (KEY NOTE LECTURE)* International Society of Electrochemistry Regional Meeting, June 2010, Belgrade, Serbia

88. C.Wang, D.Strmcnik, D.Tripkovic, K. more, N.M.Markovic and **V.Stamenkovic**, *The Role of Surface Structure and Surface Composition in Electrocatalysis (PLENARY TALK)* International Society of Electrochemistry Regional Meeting, June 2010, Belgrade, Serbia
89. C. Wang, S. Sun, D. Strmcnik, P. Paulikas, D. Van der Vliet, N. Markovic and **V. Stamenkovic**, *Design and Synthesis of Advanced Nanoscale Electrocatalysts*, 217th Int. Meeting of the Electrochemical Society, April 2010, Vancouver, Canada
90. C. Wang, D. Strmcnik, P. Paulikas, D. Van der Vliet, C. Lucas, A. Brownrigg, N. Markovic and **V. Stamenkovic** *The Role of Surface and Near-Surface Composition in Electrocatalysis*, 217th Int. Meeting of the Electrochemical Society, April 2010, Vancouver, Canada
91. A. Brownrigg, C. Lucas, P. Thompson, M. Cormack, **V. Stamenkovic**, D. Strmcnik and N. M. Markovic, *Surface Structure and Electrochemistry of Model Electrocatalysts*, 217th Int. Meeting of the Electrochemical Society, April 2010, Vancouver, Canada
92. D. Strmcnik, K. Kodama, D. Tripkovic, D. Van der Vliet, C. Wang, **V. Stamenkovic**, and N. Markovic *Design Catalytic Properties of Electrochemical Interfaces*, 217th Int. Meeting of the Electrochemical Society, April 2010, Vancouver, Canada
93. D. Strmcnik, D. Van der Vliet, C. Wang, R. Atanasoski, M. Debe, N. Markovic and **V. Stamenkovic**, *Multimetallic Catalysts for the Oxygen Reduction Reaction*, 216th Int. Meeting of the Electrochemical Society, October 2009, Vienna, Austria
94. C.Wang, D.vanderVliet, D.Strmcnik, N.M.Markovic and **V.Stamenkovic**, *Advanced Multimetallic Catalysts*, Gordon Research Conference on Fuel Cells, Bryant University, July 2009, Smithfield, RI, USA
95. D.vanderVliet, D.Strmcnik, C.Wang, N.M.Markovic and **V.Stamenkovic**, *From Extended to Nanoscale Catalysts for Fuel Cells*, Workshop: Modeling of Fuel Cells Electrocatalysts, UC Santa Barbara, July 2009, Santa Barbara, CA, USA
96. D.vanderVliet, D.Strmcnik, C.Lucas, C.Wang, N.M.Markovic and **V.Stamenkovic**, *Highly Active and Durable Pt Alloy Catalysts for Fuel Cells*, CR Meeting of the American Chemical Society, Electrocatalysis Symposium, May 2009, Cleveland, OH, USA
97. **V.Stamenkovic** and N.M.Markovic, *Fuel Cells: From Fundamentals to Technology Applications*, Fuel Cell Symposium, University of Rochester, December 2008, Rochester, NY, USA
98. D. Strmcnik, D. vander Vliet, C. Lucas, N.M.Markovic and **V.Stamenkovic**, *Fine tuning of Activity for Nanoscale Catalysts*, 214th International Meeting of The Electrochemical Society, October 2008, Honolulu, Hawaii, USA
99. **V.Stamenkovic**, D. Strmcnik, D.vanderVliet, and N.M.Markovic, *The role of Surface Morphology in Nanocatalyst Engineering*, 7th International Symposium on New Nano Materials for Electrochemical Systems, June 2008, Montreal, Canada
100. **V.Stamenkovic**, *The Design of Functional Nanoscale Surfaces in Advanced Engineering*, National Academy of Engineering IAFOE Symposium, Frontiers of Engineering, February 2008, Irvine, CA, USA
101. **V.Stamenkovic**, D.Strmcnik, D.Tripkovic, D.vanderVliet, H.You, N.Markovic, *Nanocatalysts Engineering on Extended and Nanoscale Surfaces*, 9th International Conf. of the Yugoslav Materials Research Society, September 2007, Herceg Novi, Montenegro.
102. **V.Stamenkovic** and N.M.Markovic, *Development of Advanced Catalysts For Fuel Cells*, 3rd Membrane Electrode Assembly Symposium, August 2007, Dayton, OH, USA.
103. D.Strmcnik, D.Tripkovic, D.vanderVliet, J.Greeley, **V.Stamenkovic**, N.M.Markovic, *Active Sites for Fule Cell reactions: Experiments and Theory*, 11th International Conference on Electrified Interfaces, June 2007, Saporu, Japan.

104. C.A.Lucas, B.Flower, P.Thompson, **V.R.Stamenkovic**, N.M.Markovic, *Surface Structure and Electrochemistry of Model Electrocatalysts*, 11th International Conference on Electrified Interfaces, June 2007, Saporu, Japan.
105. **V.Stamenkovic**, C.A.Lucas, D.Tripkovic, D.Strmcnik, K.C.Chang, H.You, N.M.Markovic, *In-Situ characterization Temperature Controlled Electrified Solid-Liquid Interfaces*, 233rd American Chemical Society National Meeting, March 2007, Chicago, IL, USA
106. **V.Stamenkovic** and N.M.Markovic, *Superior Cathode Catalysts: From Extended to Nanoscale Surfaces*, 210th Int. Meeting of the Electrochemical Society, November 2006, Cancun, Mexico
107. **V.Stamenkovic**, C.A.Lucas, G.Wang and N.M.Markovic, *Trend in Electrocatalysis: From Extended to Nanoscale Surfaces*, Lorentz Workshop on Fuel Cell Electrocatalysis, October 2006, Leiden, Netherlands
108. **V.Stamenkovic** and N.M.Markovic, *Catalytic Trends for Oxygen Reduction Reaction: From Extended to Nanoscale Surfaces*, 5th International Conference on Electrocatalysis ECS '06, September 2006, Kotor, Montenegro
109. C.Lucas, B.Flower P.Thompson, **V.Stamenkovic**, N.Markovic, *Surface Structure and Electrochemistry on model Electrocatalysts*, International Symp. on a Surface Imaging/Spectroscopy at the Solid/Liquid Interface, May 2006, Krakow, Poland
110. M.Arenz, K.J.J.Mayrhofer, **V.Stamenkovic**, U. Heiz; *Size dependent properties of supported metal particles*, International Symp. on a Surface Imaging/Spectroscopy at the Solid/Liquid Interface, May 2006, Krakow, Poland
111. **V.Stamenkovic**, K.J.J.Mayrhofer, B.Mun, M.Arenz, B.B.Blizanac, P.N.Ross, N.M.Markovic, *Surface Chemistry and Oxygen Reduction Reaction on Pt and Pt Bimetallic Surfaces*, 206th International Meeting of The Electrochemical Society, October 2004, Honolulu, Hawaii, USA
112. **V.Stamenkovic**, M.Arenz, K.J.J.Mayerhofer, B.B.Blizanac, P.N.Ross, **N.M.Markovic**, *Surface Chemistry on Nano – Clusters*, 55th International Meeting of the International Society of Electrochemistry, September 2004, Thessalonica, Greece
113. **V.Stamenkovic**, M.Arenz, P.N.Ross, N.M.Markovic, *Surface Properties of Bimetallic Alloys: CO Oxidation on Pt-Sn and Pt-Mo Surfaces*, 204th International Meeting of The Electrochemical Society, October 2003, Orlando, Florida, USA
114. **V.Stamenkovic**, M.Arenz, B.B.Blizanac, C.Lucas, P.N.Ross, **N.M.Markovic**, *Surface Science Studies of Fuel Cells Reactions on Model Electrocatalysts*, 203rd International Meeting of The Electrochemical Society, April-May 2003, Paris, France
115. **V.Stamenkovic**, M.Arenz, P.N.Ross, N.M.Markovic, *Surface Chemistry on Bimetallic Alloy Surfaces: Adsorption of anions and oxidation of CO on Pt₃Sn(111)* 225th American Chemical Society National Meeting, March 2003, New Orleans, Louisiana, USA
116. **V. Stamenkovic**, P.N.Ross, N.M.Markovic, *Surface Structure and Relaxation During the Oxidation of CO on Pt-Pd Bimetallic Surfaces*, International Computational Materials Science Consortium, NASA and OAI, April 2002, Cleveland, OH, USA
117. **V.Stamenkovic**, T.J.Schmidt, U.A.Paulus, V.Radmilovic, N.M.Markovic, P.N.Ross, *Oxygen Reduction Reaction on Pt and Pt Bimetallic Surfaces*, Joint International ECS and ISE Meeting, September 2001, San Francisco, USA.
118. **V.Stamenkovic**, T.J.Schmidt, P.N.Ross, N.M.Markovic *Surface Science Studies of Model Electrocatalysts*, 9th Int. Conf. on Electrified Interfaces, July 2001, Wolfville, Nova Scotia, Canada

3. (M70) Одбрањена докторска дисертација

Стаменковић, Војислав Р., Испитивање електрокаталитичких особина нових електродних материјала за горивне ћелије, Факултет за Физичку хемију Универзитета у Београду, ментор Славко Ментус, 2001.

4. Патенти, ауторске изложбе, тестови, категорија M90

Патенти

1. Sanja Tepavcevic, Nigel Hajj Becknell, Pietro Papa Lopes, Dusan Strmcnik, Vojislav Stamenkovic, **AQUEOUS MANGANESE ION BATTERY**, **Patent number:** 11121402, **Type:** Grant, **Filed:** January 31, 2020, **Date of Patent:** September 14, 2021
2. Vojislav Stamenkovic, Gregory K. Krumdick, Rongyue Wang, Nenad Markovic, Krzysztof Z. Pupek, **SYSTEMS AND METHODS FOR SCALE-UP SYNTHESIS MULTI-LAYERED PT-SKIN NANOPARTICLE CATALYSTS**, **Patent number:** 10833332, **Type:** Grant, **Filed:** June 1, 2018, **Date of Patent:** November 10, 2020
3. Ram Subbaraman, Vojislav Stamenkovic, Nenad Markovic, Dusan Tripkovic, **HYDROGEN EVOLUTION REACTION CATALYST**, **Patent number:** 10724145, **Type:** Grant, **Filed:** January 22, 2016, **Date of Patent:** July 28, 2020
4. Peidong Yang, Vojislav Stamenkovic, Gabor A. Somorjai, Nenad Markovic, Chen Chen, Yijin Kang, Nigel H. Becknell, **NANOFRAMES WITH THREE-DIMENSIONAL ELECTROCATALYTIC SURFACES**, **Patent number:** 10686195, **Type:** Grant, **Filed:** February 18, 2015, **Date of Patent:** June 16, 2020
5. Vojislav Stamenkovic, Gregory K. Krumdick, Rongyue Wang, Nenad Markovic, Krzysztof Pupek, Trevor L. Dzwiniel, **SYSTEMS AND METHODS FOR PTNI NANOCAGES**, **Patent number:** 10637072, **Type:** Grant, **Filed:** June 12, 2018, **Date of Patent:** April 28, 2020
6. Dusan Strmcnik, Vojislav Stamenkovic, Nenad Markovic, **ELECTROCHEMICAL FILTER FOR REMOVAL OF TRACE LEVEL IONS**, **Patent number:** 10427169, **Type:** Grant, **Filed:** December 7, 2016, **Date of Patent:** October 1, 2019
7. Pietro Papa Lopes, Nenad Markovic, Dusan Strmcnik, Vojislav Stamenkovic, **STATIONARY PROBE ROTATING DISK ELECTRODE**, **Patent number:** 10261042, **Type:** Grant, **Filed:** September 29, 2016, **Date of Patent:** April 16, 2019
8. Vojislav Stamenkovic, Nenad Markovic, Yijin Kang, **MULTIMETALLIC CORE/INTERLAYER/SHELL NANOPARTICLES**, **Patent number:** 10099207, **Type:** Grant, **Filed:** April 2, 2015, **Date of Patent:** October 16, 2018
9. Nemanja Danilovic, Yijin Kang, Nenad Markovic, Vojislav Stamenkovic, Deborah J. Myers, Ram Subbaraman, **NANOSEGREGATED BIMETALLIC OXIDE ANODE CATALYST FOR PROTON EXCHANGE MEMBRANE ELECTROLYZER**, **Patent number:** 9421521, **Type:** Grant, **Filed:** September 30, 2014, **Date of Patent:** August 23, 2016
10. Ram Subbaraman, Vojislav Stamenkovic, Nenad Markovic, Dusan Tripkovic, **HYDROGEN EVOLUTION REACTION CATALYST**, **Patent number:** 9255334, **Type:** Grant, **Filed:** October 30, 2012, **Date of Patent:** February 9, 2016
11. Dusan Strmcnik, Angel Cuesta, Vojislav Stamenkovic, Nenad Markovic, **FUEL CELL ELECTRODES**, **Patent number:** 9065142, **Type:** Grant, **Filed:** June 28, 2012, **Date of Patent:** June 23, 2015

12. Vojislav Stamenkovic, Nenad M. Markovic, Chao Wang, Hideo Daimon, Shouheng Sun, **HIGHLY DURABLE NANOSCALE ELECTROCATALYST BASED ON CORE SHELL PARTICLES**, **Patent number:** 8685878, **Type:** Grant, **Filed:** April 23, 2012, **Date of Patent:** April 1, 2014
13. Vojislav Stamenkovic, Nenad M. Markovic, Chao Wang, Hideo Daimon, Shouheng Sun, **HIGHLY DURABLE NANOSCALE ELECTROCATALYST BASED ON CORE SHELL PARTICLES**, **Patent number:** 8178463, **Type:** Grant, **Filed:** April 5, 2010, **Date of Patent:** May 15, 2012,
14. Vojislav Stamenkovic, Nenad M. Markovic, **NANOSEGREGATED SURFACES AS CATALYSTS FOR FUEL CELLS**, **Patent number:** 7871738, **Type:** Grant, **Filed:** December 18, 2008, **Date of Patent:** January 18, 2011

Патентне пријаве

1. Rongyue Wang, Vojislav Stamenkovic, Gregory K. Krumdick, Krzysztof Pupek, **SEGREGATION INDUCED CORE-SHELL STRUCTURE**, **Publication number:** 20210252487, **Type:** Application, **Filed:** January 28, 2021, **Publication date:** August 19, 2021
2. Rongyue Wang, Krzysztof Pupek, Vojislav Stamenkovic, **CONTROL OF NANOSTRUCTURE AND ACTIVITY BY ALLOYING AND/OR SEGREGATION**, **Publication number:** 20210252593, **Type:** Application, **Filed:** January 28, 2021, **Publication date:** August 19, 2021
3. Sanja TEPAVCEVIC, Nigel Hajj BECKNELL, Pietro Papa LOPES, Dusan STRMCNIK, Vojislav STAMENKOVIC, **AQUEOUS MANGANESE ION BATTERY**, **Publication number:** 20210242487, **Type:** Application, **Filed:** January 31, 2020, **Publication date:** August 5, 2021
4. Rongyue Wang, Krzysztof Z. Pupek, Vojislav Stamenkovic, Trevor L. Dzwiniel, **SYSTEMS AND METHODS FOR PLATINUM NANOCATALYST SYNTHESIS VIA CONTINUOUS FLOW REACTOR**, **Publication number:** 20210094024, **Type:** Application, **Filed:** September 30, 2019, **Publication date:** April 1, 2021
5. Vojislav Stamenkovic, Rongyue Wang, Dusan Strmcnik, **SCALABLE PT CLUSTER AND RuO₂ HETEROJUNCTION ANODE CATALYSTS**, **Publication number:** 20210094021, **Type:** Application, **Filed:** September 26, 2019, **Publication date:** April 1, 2021
6. Vojislav Stamenkovic, Gregory K. Krumdick, Rongyue Wang, Nenad Markovic, Krzysztof Pupek, Trevor L. Dzwiniel, **SYSTEMS AND METHODS FOR PtNi NANOCAGES**, **Publication number:** 20190379059, **Type:** Application, **Filed:** June 12, 2018, **Publication date:** December 12, 2019
7. **SYSTEMS AND METHODS FOR SCALE-UP SYNTHESIS MULTI-LAYERED Pt-** Vojislav Stamenkovic, Gregory K. Krumdick, Rongyue Wang, Nenad Markovic, Krzysztof Z. Pupek, **SKIN NANOPARTICLE CATALYSTS**, **Publication number:** 20190372128, **Type:** Application, **Filed:** June 1, 2018, **Publication date:** December 5, 2019
8. Pietro Papa Lopes, Nenad Markovic, Dusan Strmcnik, Vojislav Stamenkovic, **STATIONARY PROBE ROTATING DISK ELECTRODE**, **Publication number:** 20180088070, **Type:** Application, **Filed:** September 29, 2016, **Publication date:** March 29, 2018

9. Vojislav Stamenkovic, Nenad Markovic, Yijin Kang, **MULTIMETALLIC CORE/INTERLAYER/SHELL NANOPARTICLES**, **Publication number:** 20160288102, **Type:** Application, **Filed:** April 2, 2015, **Publication date:** October 6, 2016,
10. Ram Subbaraman, Vojislav Stamenkovic, Nenad Markovic, Dusan Tripkovic, **HYDROGEN EVOLUTION REACTION CATALYST**, **Publication number:** 20160222530, **Type:** Application, **Filed:** January 22, 2016, **Publication date:** August 4, 2016
11. Nemanja Danilovic, Yijin Kang, Nenad Markovic, Vojislav Stamenkovic, Deborah J. Myers, Ram Subbaraman, **NANOSEGREGATED BIMETALLIC OXIDE ANODE CATALYST FOR PROTON EXCHANGE MEMBRANE ELECTROLYZER**, **Publication number:** 20160089658, **Type:** Application, **Filed:** September 30, 2014, **Publication date:** March 31, 2016
12. Peidong Yang, Vojislav Stamenkovic, Gabor A. Somorjai, Nenad Markovic, Chen Chen, Yijin Kang, Nigel H. Becknell, **NANOFRAMES WITH THREE-DIMENSIONAL ELECTROCATALYTIC SURFACES**, **Publication number:** 20150236355, **Type:** Application, **Filed:** February 18, 2015, **Publication date:** August 20, 2015
13. Dusan Strmcnik, Vojislav Stamenkovic, Nenad Markovic, **HYDROGEN OXIDATION REACTION RATE BY PROMOTION OF HYDROXYL ADSORPTION**, **Publication number:** 20140370421, **Type:** Application, **Filed:** June 18, 2013, **Publication date:** December 18, 2014
14. Ram Subbaraman, Vojislav Stamenkovic, Nenad Markovic, Dusan Tripkovic, **HYDROGEN EVOLUTION REACTION CATALYST**, **Publication number:** 20140116890, **Type:** Application, **Filed:** October 30, 2012, **Publication date:** May 1, 2014
15. Vojislav Stamenkovic, Nenad Markovic, **MESOSTRUCTURED THIN-FILMS AS ELECTROCATALYSTS WITH TUNABLE COMPOSITIONS AND SURFACE MORPHOLOGY**, **Publication number:** 20130209898, **Type:** Application, **Filed:** March 13, 2013, **Publication date:** August 15, 2013
16. Dusan Strmcnik, Bostjan Genorio, Vojislav Stamenkovic, Nenad Markovic, **FUEL CELL ELECTRODES**, **Publication number:** 20130004885, **Type:** Application, **Filed:** September 26, 2011, **Publication date:** January 3, 2013
17. Dusan Strmcnik, Angel Cuesta, Vojislav Stamenkovic, Nenad Markovic, **FUEL CELL ELECTRODES**, **Publication number:** 20130004886, **Type:** Application, **Filed:** June 28, 2012, **Publication date:** January 3, 2013,
18. Vojislav STAMENKOVIC, Nenad M. Markovic, Chao Wang, Hideo Daimon, Shouheng Sun, **HIGHLY DURABLE NANOSCALE ELECTROCATALYST BASED ON CORE SHELL PARTICLES**, **Publication number:** 20120208696, **Type:** Application, **Filed:** April 23, 2012, **Publication date:** August 16, 2012
19. Vojislav Stamenkovic, Nenad M. Markovic, Chao Wang, Hideo Daimon, Shouheng Sun, **HIGHLY DURABLE NANOSCALE ELECTROCATALYST BASED ON CORE SHELL PARTICLES**, **Publication number:** 20110245068, **Type:** Application, **Filed:** April 5, 2010, **Publication date:** October 6, 2011
20. Vojislav Stamenkovic, Nenad M. Markovic, **NANOSEGREGATED SURFACES AS CATALYSTS FOR FUEL CELLS**, **Publication number:** 20110077147, **Type:** Application, **Filed:** December 7, 2010, **Publication date:** March 31, 2011
21. Vojislav Stamenkovic, Nenad M. Markovic, **NANOSEGREGATED SURFACES AS CATALYSTS FOR FUEL CELLS**, **Publication number:** 20090247400, **Type:** Application, **Filed:** December 18, 2008, **Publication date:** October 1, 2009

2. ЦИТИРАНОСТ

(одређено према бази података SCOPUS, новембар 2021)

1. Укупан број цитата 30673 са h индексом 74
2. Број аутоцитата 646
3. Број цитираних радова са ISI листе 145

3. ОСТАЛИ ПОКАЗАТЕЉИ УСПЕХА

3.1 Награде и признања

- ♦ **Highly Cited Researcher 2018-2020**, *ranking in the top 1% worldwide researchers - by citations among all fields of science* Web of Science, Cross-Field
- ♦ **US Department of Energy Hydrogen and Fuel Cells Award**
Washington DC, June 2014
- ♦ **Strategic Leader** selected by Director of Argonne National Laboratory
University of Chicago, Business School, 2014
- ♦ **Distinguished Performance Award**
University of Chicago, Argonne, IL, August 2012
- ♦ **Excellence in Science Award**
Gordon Research Conference, Smithfield, RI, July 2009
- ♦ **Selected Speaker at the US National Academy of Engineering**
US National Academy of Engineering, Frontiers of Engineering, Irvine, CA, February 2008
- ♦ **Recognition Award by Lawrence Berkeley National Laboratory**, Berkeley, CA, April 2004

3.2 Одбор међународне конференције:

- ♦ **Chair, Gordon Research Conference: Fuels Cells**
2022 GRC Meeting, August 2022, New Haven, Connecticut
- ♦ **Symposium Organizer and Plenary Speaker, International Electrochemical Society Society: Materials for Fuels Cells** 2020 ISE Belgrade-Online Annual Meeting, September 2020, Belgrade, Serbia
- ♦ **Symposium Organizer, Materials Research Society: Nanomaterials for Energy and Environment** 2013 MRS Fall Meeting, November 2013, Boston, USA
- ♦ **Symposium Organizer, Materials Research Society: Electrocatalysis and Interfacial Electrochemistry** 2012 MRS Fall Meeting, November 2012, Boston, USA
- ♦ **Symposium Organizer, American Physical Society: Energy Storage Materials (first symposium on batteries at the APS)** 2012 APS Spring Meeting, March 2012, Boston, USA
- ♦ **ANL-MSD DOE Basic Energy Sciences Review: Organizing Committee Chair**
Materials Science, Division, Argonne National Laboratory, May 2011, Argonne, USA
- ♦ **Symposium Organizer, American Chemical Society: Functional Nanomaterials for Energy and Biomedicine Applications**
238th American Chemical Society National Meeting, August 2009, Washington DC, USA
- ♦ **Symposium Organizer, American Chemical Society: The Science of Electrocatalysis**,
233rd American Chemical Society National Meeting, March 2007, Chicago, IL, USA

3.3 Уређивачки одбори часописа

- ♦ **Associate Editor: ACS Catalysis, American Chemical Society** 2017-Present

♦ **Journal Editorial Board: *Surface Science and Surface Science Letters*, Elsevier 2014-Present**

3.4 Рецензије ISIрадова:

1. Journal of American Chemical Society
2. Journal of Physical Chemistry, B, C and Letters
3. Journal of Electroanalytical Chemistry
4. Electrochimica Acta
5. Surface Science
6. Journal of Catalysis
7. Joule
8. Physical Chemistry Chemical Physics
9. Nature Catalysis
10. Advanced Materials
11. Nature Materials
12. Angewandte Chemie
13. Chemistry of Materials
14. Journal of Power Sources
15. ACS Catalysis
16. Nature Chemistry
17. Nature Nanotechnology
18. Science

3.5. Чланство у професионалним организацијама

1. Board Committee Member of the International Academy of Electrochemical Energy Science, 2013-Present
2. American Chemical Society (ACS)
3. Materials Research Society (MRS)
4. Electrochemical Society (ECS)
5. American Vacuum Society (AVS)

Београд, 22.02.2018.

Кандидат

Проф. др Војислав Р. Стаменковић

Vojislav R. Stamenkovic

Izabrani radovi: (NAUČNI RADOVI)
(citiranost prema SCOPUSU oko 38 000, H=78)

1.P. P. Lopes, D. Li, H. Lv, C. Wang, D. Tripkovic, Y. Zhu, R. Schimmenti, H. Daimon, Y. Kang, J. Snyder, N. N.Becknell, K. L. More, D. Strmcnik, N. M. Markovic, M. Mavrikakis and **V. R. Stamenkovic**
Eliminating dissolution of Pt-based electrocatalysts at the atomic scale
Nature Materials, **8(2020)** 1207-1214 Cover Page Article, Impact Factor: **38.663**

2.P. P. Lopes and **V. R. Stamenkovic**
Past, Present and Future of Lead-Acid Batteries
Science, **369 (2020)** 923-924 ImpactFactor: **41.845**

3.C.Chen, Y.Kang,J.Snyder, M.Mavrikakis, Y.Li, N.M.Markovic, G.Somorjai, P. Yang, **V.R.Stamenkovic**
Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces
Science, **343(2014)**1339-1343; Journal Impact Factor: **41.845**

4.D.vanderVliet, C.Wang, D.Tripkovic, D.Strmcnik, X.F.Zhang, M.K.Debe. N.M.Markovic, and **V.R.Stamenkovic**
Mesostructured Thin Films as Electrocatalysts with Tunable Composition and Surface Morphology
Nature Materials, **11(2012)**1051-1058. Journal Impact Factor: **38.663**

5.V.R.Stamenkovic, B.Fowler, B.S.Mun, G.Wang, P.N.Ross, C.A.Lucas, N.M.Markovic
Improved Oxygen Reduction Activity on Pt₃Ni(111) via Increased Surface Site Availability
Science, **315(2007)**493-497. Journal Impact Factor: **38.663**

PATENTI:

 US00787173B2 (12) United States Patent Stamenkovic et al. (10) Patent No.: US 7,871,738 B2 (45) Date of Patent: Jan. 18, 2011 (54) NANOSEgregated SURFACES AS CATALYSTS FOR FUEL CELLS (75) Inventors: Vojislav R. Stamenkovic , Naperville, IL (US); Nenad M. Markovic , Hinsdale, IL (US) (73) Assignee: UChicago Argonne, LLC , Chicago, IL (US) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 634 days. (21) Appl. No.: 13/451,852 Paulus et al., "Oxygen Reduction on Carbon-Supported Pt-Ni and Pt-Co Alloy Catalysts", <i>J. Phys. Chem. B</i> , 2002, pp. 4181-4191, vol. 106, American Chemical Society, USA. Paulus et al., "Oxygen Reduction on High Surface Area Pt-Ir Alloy Catalysts in Comparison to Well Defined Smooth Bulk Alloy Electrodes", <i>Electrochimica Acta</i> , 2002, pp. 3787-3798, vol. 47, Elsevier Science Ltd. Peng, X., "Mechanisms for the Shape-Control and Shape-Evolution of Colloidal Semiconductor Nanocrystals", <i>Adv. Mater.</i> , Mar. 4, 2003, pp. 459-463, vol. 15, No. 4, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany.	 US00868587B2 (12) United States Patent Stamenkovic et al. (10) Patent No.: US 8,685,878 B2 (45) Date of Patent: Apr. 1, 2014 (54) HIGHLY DURABLE NANOSCALE ELECTROCATALYST BASED ON CORE SHELL PARTICLES (75) Inventors: Vojislav Stamenkovic , Naperville, IL (US); Nenad M. Markovic , Hinsdale, IL (US); Chao Wang , Chicago, IL (US); Hideo Daimon , Osaka (JP); Shouheng Sun , Providence, RI (US) (73) Assignee: UChicago Argonne, LLC , Chicago, IL (US) (*) Notice: See application file for complete search history. C22C 5/02 (2006.01) C22C 5/04 (2006.01) (52) U.S. CL. USPC 502/101 ; 502/184; 502/185; 428/403; 428/548; 428/570; 428/615; 429/524; 429/527; 420/466; 420/507; 420/510; 420/512 (58) Field of Classification Search USPC 502/184, 185, 101; 428/403, 548, 570, 428/615; 429/524, 527; 420/466, 507, 510, 420/512 See application file for complete search history.
 US009246177B2 (12) United States Patent Stamenkovic et al. (10) Patent No.: US 9,246,177 B2 (45) Date of Patent: Jan. 26, 2016 (54) BIMETALLIC ALLOY ELECTROCATALYSTS WITH MULTILAYERED PLATINUM-SKIN SURFACES (75) Inventors: Vojislav R. Stamenkovic , Naperville, IL (US); Chao Wang , Aurora, IL (US); Nenad M. Markovic , Hinsdale, IL (US) (73) Assignee: UChicago Argonne, LLC , Chicago, IL (US) (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 634 days. (21) Appl. No.: 13/451,852 References Cited U.S. PATENT DOCUMENTS 5,879,827 A 3/1999 Debe et al. 7,622,217 B2 11/2009 Debe et al. 7,871,738 B2 1/2011 Stamenkovic et al. 2009/0247400 A1* 10/2009 Stamenkovic et al. 502/185 2010/0692841 A1* 4/2010 Lopez et al. 429/44 2010/0197490 A1* 8/2010 Adzic et al. 502/326 2011/0189589 A1* 8/2011 Erlebacher et al. 429/523 FOREIGN PATENT DOCUMENTS WO WO-2011/139703 11/2011 OTHER PUBLICATIONS Wang et al. Design and Synthesis of Bimetallic Electrocatalyst with	 US010686195B2 (12) United States Patent Yang et al. (10) Patent No.: US 10,686,195 B2 (45) Date of Patent: Jun. 16, 2020 (54) NANOFrames WITH THREE-DIMENSIONAL ELECTROCATALYTIC SURFACES (71) Applicants: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA , Oakland, CA (US); UCHICAGO ARGONNE, LLC , Chicago, IL (US) (72) Inventors: Peidong Yang , Kensington, CA (US); Vojislav Stamenkovic , Naperville, IL (US); Gabor A. Somorjai , Berkeley, CA (US); Chen Chen , Beijing (CN); Yijin Kang , Naperville, IL (US); Nigel H. Becknell , Berkeley, CA (US) (*) Notice: See application file for complete search history. H01M 4/86 (2006.01) B82B 3/00 (2006.01) (52) U.S. CL. CPC H01M 4/921 (2013.01); B82B 3/0033 (2013.01); C22C 1/02 (2013.01); C22C 5/04 (2013.01); H01M 4/8657 (2013.01); H01M 4/8889 (2013.01); H01M 4/928 (2013.01) (58) Field of Classification Search CPC H01M 4/88; H01M 4/92; H01M 4/921; H01M 4/928 See application file for complete search history. (56) References Cited U.S. PATENT DOCUMENTS



US10637072B2

(12) **United States Patent**
Stamenkovic et al.

(10) **Patent No.: US 10,637,072 B2**
(45) **Date of Patent: Apr. 28, 2020**

(54) **SYSTEMS AND METHODS FOR PTNI
NANOCAGES**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(71) Applicant: **UCHICAGO ARGONNE, LLC**,
Chicago, IL (US)
(72) Inventors: **Vojislav Stamenkovic**, Naperville, IL
(US); **Gregory K. Krumdick**, Homer
Glen, IL (US); **Rongyue Wang**,
Naperville, IL (US); **Nenad Markovic**,
Hinsdale, IL (US); **Krzysztof Papek**,
Plainfield, IL (US); **Trevor L. Dzwiniel**,
Carol Stream, IL (US)
(73) Assignee: **UChicago Argonne, LLC**, Chicago, IL
(US)

5,879,827	A	3/1999	Debe et al.
7,252,698	B2	8/2007	Mirkin et al.
7,622,217	B2	11/2009	Debe et al.
7,871,738	B2	1/2011	Stamenkovic et al.
8,178,463	B2	5/2012	Stamenkovic et al.
8,685,878	B2	4/2014	Stamenkovic et al.
9,246,177	B2	1/2016	Stamenkovic et al.
2004/0072061	A1	4/2004	Nakano et al.
2006/0083970	A1	4/2006	Shibutani et al.
2009/0247400	A1	10/2009	Stamenkovic et al.
2010/0068840	A1	1/2010	Zhong et al.
2010/0086832	A1	4/2010	Lopez et al.
2010/0092841	A1	4/2010	Lopez et al.
2010/0197490	A1	8/2010	Adzic et al.

(Continued)

----- Forwarded Message ----- From: Vojislav Stamenkovic <vrstamen@uci.edu> To: 'uskok' <uskok@itn.sanu.ac.rs> Cc: "bstojanovic80@yahoo.com" <bstojanovic80@yahoo.com> Sent: Thursday, April 22, 2021, 12:58:02 PM GMT+2 Subject: RE: Kandidatura za izbor za inostranog clana AINS

Dragi Dragane,

Puno Vam hvala na predlogu da budem inostrani clan Akademije inzenjerskih nauka. Zaista je velika cast... Svakako da sam saglasan. U attachment-u je moj CV, nadam se da ce poslužiti. Sa patentima je haoticno jer nemam tacan uvid koliko ih je...svakako negde izmedju 15-20.

I dalje su putovanja pod velikim znakom pitanja. Ovde kao i tamo vakcinacije su u punom jeku, a sada je vec mesec dana od kako sam primio drugu dozu. To ostvara nadu da postoji sansa da relativno skoro dodjem do Beograda jer se sa mojim nisam video vise od godinu dana. Javicu se svakako ako uspem u toj nameri.

Puno Vas pozdravljam!

Voja

-----Original Message-----

From: uskok <uskok@itn.sanu.ac.rs>

Sent: Monday, April 19, 2021 3:26 PM

To: vrstamen@uci.edu

Cc: bstojanovic80@yahoo.com

Subject: Re: Kandidatura za izbor za inostranog clana AINS