

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Milica Vujković**
Address(es) Studentski trg 12-16, 11158 Belgrade, Serbia
Telephone(s) (381-11) 3336-630
E-mail milica.vujkovic@ffh.bg.ac.rs
Date of birth 28.01.1983.

Field of interest

Energy storage & conversion concepts. Development of various materials for energy-related applications: i) intercalation materials for metal-ion rechargeable batteries; ii) carbon materials for developments of batteries, supercapacitors, water electrolysis and fuel cells.

Work experience

Dates 01.2009.-present
2007 – 2009 Centre for Ecotoxicological Investigation of Montenegro, Podgorica, Montenegro, (Instrument analyst)
2009 - University of Belgrade - Faculty of Physical Chemistry.
Current position Principal Research Fellow
Name and address of employer University of Belgrade - Faculty of Physical Chemistry, Studentski trg 12-16, Belgrade, Serbia

Education and training

Dates 28.01.2013.
Title of qualification awarded PhD thesis: "Influence of synthetic condition of both $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{C}$ and LiFePO_4/C composites on the kinetics of intercalation of lithium ions in organic and aqueous electrolytic solutions". Advisor: Academician Slavko Mentus. Average grade: 10 (out of 10).
Principal subjects/occupational skills covered Physical Chemistry of Materials and Electrochemistry - the field of Li-ion batteries
Name and type of organization University of Belgrade - Faculty of Physical Chemistry
Dates 2001-2006
Title of qualification awarded Graduate studies, average grade: 9.33 (out of 10)
Principal subjects/occupational skills covered Physical Chemistry
Name and type of organization Faculty of Physical Chemistry, University of Belgrade
Dates 1997-2001
Title of qualification awarded High school
Name and type of organization Gymnasium "Stojan Cerović", Nikšić, Republic of Montenegro

Technical skills and competences	Electrochemical methods (cyclic voltammetry, chronopotentiometry, chronoamperometry, galvanostatic intermittent titration technique, potentiostatic intermittent titration technique, impedance measurements, galvanostatic charging/discharging method...), Scanning Electron Microscope (Phenom ProX), High-Performance Liquid Chromatography systems (SPD-DAD, SPD-UV, RF and RI detectors), UV/VIS spectrophotometer with Diode array detector and Stopped-flow apparatus (used for investigation of the kinetics of ultra- fast chemical reactions).
Research activities (June 29, 2020)	<p>49 scientific papers (45 in the international and 4 in the national scientific journals) and 80 conference papers</p> <p>1 book chapter, 3 nationally approved patents.</p> <p>1183 citations according to the Google Scholar's (23.10.2023), h-index 20.</p> <p>Reviewer of 138 papers for Electrochimica Acta, Journal of Power Sources, ChemElectroChem, ChemSusChem, Waste Management, RSC Advances, Journal of Alloys and Compounds, Materials Today Energy, Scientific Reports...</p>
Pedagogical work	<p>Teaching activities</p> <p>Lecturer for Erasmus Mundus Joint Master Degree Materials – Materials for Energy Storage & Conversion (MESC+ program, 2020, 2021,2022, Class #15, #16, and #17). Teaching a course on electrochemical processes in batteries and supercapacitors). Referee of two Master theses.</p> <p>Electrochemistry basic course for PhD students (The Kinetic of electrode reactions) at the University of Belgrade - Faculty of Physical Chemistry (Co-lecturer).</p> <p>Visiting Lecturer at the University of Montenegro - Faculty of Metallurgy and Technology: two intensive courses for undergraduate, graduate and postgraduate students:</p> <ol style="list-style-type: none"> 1. Intercalation materials for Li-ion batteries (1.11.-30.11. 2020), 2. Electrode materials for supercapacitors (1.12-30.12-2020)
Mentorship/co-mentorship	Supervisor of PhD thesis in the field of recycling technology of lithium-ion batteries, completed at the Faculty of Physical Chemistry, University of Belgrade. Currently supervising two PhD students. Advisor/Co-advisor of 8 master and 7 diploma theses at the Faculty of Physical Chemistry.
Summer school	Supervisor of three undergraduate students at the summer school in the field of Li-ion batteries and carbon supercapacitors, held at the Faculty of Physical Chemistry.
Invited Lectures	<p>"Looking at the Future Through the Prism of Battery Systems", Scientific Symposium Days of Diaspora and Scientific Partners of Montenegro, Podgorica, October 18-19, 2023.</p> <p>"What have we achieved regarding the development of rechargeable Na-ion batteries"? – a plenary lecturer at the Eleventh Serbian Ceramic Society Conference »Advanced Ceramics and Application« September 18-20, 2023, Serbian Academy of Sciences and Arts, Knez Mihailova 35, Belgrade, Serbia.</p> <p>"Development of materials for new generation battery systems", Scientific meeting dedicated to the 100th anniversary of the birth of the foreign member of the Serbian Academy of Sciences and Arts John O'Mara Bockris (Contemporary aspirations in electrochemistry in the process of transition to renewable energy sources), June 5, 2023, Serbian Academy of Sciences and Arts, Belgrade, Serbia.</p> <p>"What Drives the Synthesis of Mixed Polyanionic Na₄Fe₃(PO₄)₂P₂O₇ Cathode Material and Determines its Electrochemical Behavior?", invited speaker at MATSUS2023 conference (#SusBat - Enabling Beyond Classical Li-ion Batteries through materials development and sustainability), March 6th, 2023, Valencia, Spain.</p> <p>"Energy Storage Materials – from the perspective of Impedance method, the invited lecture at the University of Montenegro -Faculty of Metallurgy and Technology, 23.09. 2022, Podgorica, Montenegro.</p> <p>"Lithium-ion batteries: Paste, Present and Future", 07.11.2019, The Multimedia Hall of the University Sport and Cultural Centre, Podgorica, Montenegro.</p> <p>"Alkaline-ion batteries: Research and Development, 5th Conference on Transport and Research in the Danube Region, 13-14 November 2018, Ljubljana, Slovenia (invited lecture and panel discussion).</p> <p>"Comparison of sodium and lithium intercalation materials", Electrochemical Section of the Serbian Chemical Society at the Faculty of Technology and Metallurgy, University in Belgrade, 10th November, 2014, Belgrade, Serbia.</p> <p>"Contemporary trends in the development of Li-ion batteries", Foundation of Ilija M. Kolarac, Belgrade, Serbia within the cycle - Energy of Future, 10th October, 2014.</p> <p>"Development of nanostructured materials for Li-ion batteries", ICEMS, Instituto Superior Te'cnico, TU Lisbon, Av. Rovisco Pais, 1049e001 Lisboa, Portugal, 21st November, 2013.</p>

Additional activities	<p>Organizing committee member, 9th Regional Symposium on Electrochemistry, RSE-SEE9, 2024, Novi Sad, Serbia.</p> <p>Organizing committees chair, COIN2022 Belgrade Symposium (Contemporary Batteries and Supercapacitors, International Symposium Belgrade 2022), https://coin2022.org/.</p> <p>One of the battery symposium organizers at 71st ISE Belgrade in 2020 (online meeting).</p> <p>Member of Belgrade School of Electrochemistry</p> <p>Member of Serbian Chemical Society</p> <p>Member of Physical Chemical Society</p>
Projects	<p>Scientific projects</p> <p>2023- 2024 Biomass for energy and biodiversity (B4EB), European Union in partnership with the Ministry of Environmental Protection, participant.</p> <p>2021-2024: SUPERCAR - "Carbon-based Batteries and Supercapacitors", funded by NATO-Science for Peace and Security (SPS) Programme, G5836, 01.04.2021-1.04.2024, Slovenia, Serbia and Montenegro, a coordinator from the Serbian side.</p> <p>2022-2025 Bilateral project Serbia-India, "Development of State of Health Monitoring Device for Battery Management Systems in Electric Vehicles", a coordinator from the Serbian side</p> <p>2022-2024 Bilateral project Serbia-Austria "Ferrites from bulk to nanoscale: Magnetic properties and energy-related applications", participant.</p> <p>2020-2021 Novel approach for designing V₂O₅-Based graphene nanocomposites: Enhanced energy storage and photocatalytic properties, Innovation Serbian project 5619, funded by the Innovation Fund of the Republic of Serbia, 1.06.2020-1.06.2021, external expert.</p> <p>2020-2022 HISUPERBAT - High-capacity electrodes for aqueous rechargeable multivalent-ion batteries and supercapacitors: next step towards a hybrid model, National project, No. 6062667, funded by the Science Fund of the Republic of Serbia, 01.08.2020-1.08.2022, coordinator.</p> <p>2020-2022 Green chemistry for sustainable energy: Biomass-derived carbon as electrode for energy storage, funded by the Ministry of Science of Montenegro, 1.05.2020 -30.04.2022, participant.</p> <p>2020-2021: Green chemistry for clean energy: Novel cost-effective carbon catalyst prepared from ionic liquid for hydrogen production, Innovation Serbian project, No. 5252, funded by the Innovation Fund of the Republic of Serbia, 1.06.2020-1.06.2021, participant.</p> <p>November-December 2020: "Materials for Energy Storage", funded by the Ministry of Science Montenegro, a visiting lecturer.</p> <p>2019-2020: Bilateral Project "Development of ecological Li-ion batteries", between Serbia and Montenegro, coordinator of the Serbian team.</p> <p>2018-2020: Bilateral Project "Developments of novel materials for alkaline-ion batteries", between Serbia and Slovenia, coordinator of the Serbian team.</p> <p>2015-2018: Project "DURAPEM-Novel Materials for Durable Proton Exchange Membrane Fuel Cells", NATO-Science for Peace and Security (SPS) Programme, G4925, Slovenia and Serbia, participant.</p> <p>2013-2015: Bilateral Project: "Transition metal oxides as electrode materials for lithium ion batteries", between Serbia and Portugal, participant.</p> <p>2011-2019: "Li-ion batteries and fuel cells: Research and Development", National project, funded by Ministry of Education, Science and Technological Development of the Republic of Serbia, coordinated by prof. Slavko Mentus, participant.</p> <p>2009-2011 "Physical chemistry of dynamic states and structure of nonequilibrium systems-from monotonic to oscillatory evolution and chaos", National project, funded by Ministry of Education, Science and Technological Development of the Republic of Serbia, participant.</p> <p>Non-scientific projects</p> <p>Project "Science in Motion for Friday Night Commotion 2014-2015" (SCIMFONICOM 2014-2015. HORIZON 2020- MSCA-NIGHT-633376), participant.</p> <p>Project "Science in Motion for Friday Night Commotion 2013" (SCIMFONICOM 2013, FP7-PEOPLE-2013-NIGHT), participant.</p>

Awards and recognitions

2022- Đoke Vljakovića Foundation Award for the best scientific paper of young scientists at the University of Belgrade in 2021
 2022. – The award for the best poster presentation at ELMINA 2022 Conference, held in Belgrade
 2019- Đoke Vljakovića Foundation Award for the best scientific paper of young scientists at the University of Belgrade in 2018.
 2015- The Award of the Commerce Chamber of Belgrade for the best patent in 2013/2014 which is in the interest to the economy of Belgrade
 2014- The Award of the Commerce Chamber of Belgrade for the best PhD thesis in 2012/2103 which is in the interest to the economy of Belgrade.
 2013- The Award for the best thesis at the Yucomat 2013 conference held in Montenegro, Republic Montenegro.
 2007- Special recognition of Serbian Chemical Society for outstanding achievement during the undergraduate studies 2001-2006.

Additional information

National Patents **Milica Vujković**, Slavko Mentus, Procedure for increasing the capacitance of supercapacitor with nanodispersed carbon electrodes in alkaline electrocatalytic solution, Accepted patent, 20.10.2020, No. 60893.

N. Gavrilov, **M. Vujković**, I. Pašti, G. Ćirić-Marjanović, S. Mentus, Supercapacitor based on carbon nanostructure with aqueous electrolytic solution, 2011/0565, Accepted patent 7,07,2014. No. 53366.

M. Vujković, I Stojković, N. Cvjetičanin, S. Mentus, $\text{LiFe}_{0.95}\text{V}_{0.05}\text{PO}_4/\text{C}$ composite as electrode material for secondary lithium-ion batteries with aqueous electrolytic solution, 2012/0243, Accepted patent 18,12,2015. No 54346.

The most relevant publications

1. A. Gezović, J.Mišurović, B. Milovanović, M. Etinski, J. Krstić, V. Grudić, R. Dominko, S. Mentus, **M. J. Vujković***, High Al-ion storage of vine shoots-derived activated carbon: New concept for affordable and sustainable supercapacitors, *Journal of Power Sources* 538 (2022) 231561. IF2022=9.719.

2. A. Gezović#, **M. J. Vujković#***, M. Milović, V. Grudić, R. Dominko, S. Mentus, Recent developments of $\text{Na}_4\text{M}_3(\text{PO}_4)_2(\text{P}_2\text{O}_7)$ as the cathode material for alkaline-ion rechargeable batteries: challenges and outlook, *Energy Storage Materials*, 37, 2021, 243-273. IF2020 =17.789.

2. **M. J. Vujković**, M. Etinski, B. Vasić, B. Kuzmanović, D.Bajuk-Bogdanović., R. Dominko, S. Mentus, Polyaniline as a charge storage material in an aqueous aluminum-based electrolyte: Can aluminum ions play the role of protons?, *Journal of Power Sources*, 482 (2021) 228937. IF2020 =9.127.

3. **M. Vujković**, D. Bajuk-Bogdanović, Lj. Matović, M. Stojmenović, S. Mentus, Mild electrochemical oxidation of zeolite templated carbon in acidic solutions, as a way to boost its charge storage properties in alkaline solutions, *Carbon*, 138 (2018) 369; IF2018=7.466.

4. J. Senčanski, D. Bajuk-Bogdanović, D. Majstorović, E.Tchernychova, J. Papan, **M. Vujković***, The synthesis of $\text{Li}(\text{Co-Mn-Ni})\text{O}_2$ cathode material from spent-Li ion batteries and the proof of its functionality in aqueous lithium and sodium electrolytic solutions, *J. Power Sources* 342 (2017) 690; IF2017=6.945.

5. Z. Jovanović* D. Bajuk-Bogdanović, S. Jovanović, Ž. Mravik, J. Kovač, I. Holclajtner-Antunović, **M. Vujković**, The role of surface chemistry in the charge storage properties of graphene oxide, *Electrochimica Acta* 258 (2017) 1228; IF2017=5.116.

6. Z. Jovanović*, I. Holclajtner-Antunović, D. Bajuk-Bogdanović, S. Jovanović, Ž. Mravik, **M. Vujković**, *Effect of thermal treatment on the charge storage properties of graphene oxide/12-tungstophosphoric acid nanocomposite*, *Electrochemistry Communications* 83 (2017) 36; IF2017=4.660.

7. **M. Vujković**, S. Mentus, Potentiodynamic and galvanostatic testing of $\text{NaFe}_{0.95}\text{V}_{0.05}\text{PO}_4/\text{C}$ composite in aqueous NaNO_3 solution, and the properties of aqueous $\text{Na}_{1.2}\text{V}_3\text{O}_8/\text{NaNO}_3/\text{NaFe}_{0.95}\text{V}_{0.05}\text{PO}_4/\text{C}$ battery, *J. Power Sources*, 325 (2016) 185; IF2016=6.395.

8. **M. Vujković**, S. Mentus, High-rate intercalation capability of $\text{NaTi}_2(\text{PO}_4)_3/\text{C}$ composite in aqueous lithium and sodium nitrate solutions, *J. Power Sources*, 288 (2015) 176-186. doi:10.1016/j.jpowsour.2015.04.132. (IF2016=6.395).

9. **M. Vujković**, S. Mentus, Fast sodiation/desodiation reactions of electrochemically delithiated olivine LiFePO_4 in aerated aqueous NaNO_3 solution, *J. Power Sources*, 247 (2014) 184-188. doi:10.1016/j.jpowsour.2013.08.062. (IF2014=6.217).

10. **M. Vujković**, I. Stojković, N. Cvjetičanin, S. Mentus, Gel-combustion synthesis of LiFePO_4/C composite with improved capacity retention in aerated aqueous electrolyte solution, *Electrochimica Acta*, 92 (2013) 248-256. (IF2013=4.056).

JOURNAL PAPERS:

1. Bojan Janković, Nebojša Manić, Ivana Perović, **Milica Vujković**, Nikola Zdošek, Thermal decomposition kinetics of deep eutectic solvent (DES) based on choline chloride and magnesium chloride hexahydrate: New details on the reaction mechanism and enthalpy–entropy compensation (EEC), *Journal of Molecular Liquids*, 374, 2023, 121274 <https://doi.org/10.1016/j.molliq.2023.121274>. IF2023=6.633.
2. D. Jugović, M. Milović, T. Barudžija, M. Kuzmanović, **M.Vujković**, M. Mitrić, The Influence of a Binder in a Composite Electrode: The Case Study of Vanadyl Phosphate in Aqueous Electrolyte, *Materials* 2022, 15(24), 9041. <https://doi.org/10.3390/ma15249041>. IF2022=3.4.
3. N.Zdošek, I. Perović, S.Brković, G. Tasić, M. Milović, **M. Vujković**, Deep Eutectic Solvent for Facile Synthesis of Mn₃O₄@N-Doped Carbon for Aqueous Multivalent-Based Supercapacitors: New Concept for Increasing Capacitance and Operating Voltage, *Materials* 2022, 15(23), 8540. <https://doi.org/10.3390/ma15238540>. IF2022=3.4
4. N. Zdošek, B. Janković, M. Milović, S. Brković, J. Krstić, I. Perović, **M. Vujković**, Deep Eutectic Solvent (DES) for In Situ Templating Carbon Material: Carbon Characterization and Application in Supercapacitors Containing Multivalent Ions, *Batteries* 2022, 8(12), 284. <https://doi.org/10.3390/batteries8120284>. IF2022=4.
5. Mentus, S. V., **Vujkovic, M. J.**, Overview of the conference COIN2022-Contemporary batteries and Supercapacitors, International Symposium, Belgrade 2022, *Hemijaska Industrija*, 76(3), 179–182. <https://www.ache-pub.org.rs/index.php/HemInd/article/view/1017>
6. Milica M Vasić, Miloš Milović, Dania Bajuk–Bogdanović, Tamara Petrović, **Milica J. Vujković**, Simply Prepared Magnesium Vanadium Oxides as Cathode Materials for Rechargeable Aqueous Magnesium Ion Batteries, *Nanomaterials* 2022, 12, 2767. IF2021=5.719. <https://doi.org/10.3390/nano12162767>
7. **Milica Vujković***, Dušan Mladenović, Miloš Milović, Tamara Petrović, Danica Bajuk – Bogdanović, Biljana Šljukić – Paunković, Slavko Mentus, Sodium-pillared vanadium oxides as next-gen materials: Does co-inserted water control the cyclic stability of vanadates in an aqueous electrolyte? *Electrochimica Acta*, 425, 2022, 140603. IF2021=7.336. <https://doi.org/10.1016/j.electacta.2022.140603>
8. Aleksandra Gezović, Jana Mišurović, Branislav Milovanović, Mihajlo Etinski, Jugoslav Krstić, Veselinka Grudić, Robert Dominko, Slavko Mentus, **Milica J. Vujković***, High Al-ion storage of vine shoots-derived activated carbon: New concept for affordable and sustainable supercapacitors, *Journal of Power Sources*, 538 (2022) 231561. IF2021=9.794. <https://doi.org/10.1016/j.jpowsour.2022.231561>
9. Nikola Zdošek, **Milica Vujković**, Snežana Brković, Ana Jocić, Tatjana Trtić-Petrović, Aleksandra Dimitrijević , Biljana Šljukić – Paunković*, Boosting electrocatalysis of oxygen reduction and evolution reactions with cost-effective cobalt and nitrogen doped carbons prepared by simple carbonization of ionic liquids, *International Journal of Hydrogen Energy*, 47 (2022), 14847 . IF2021=7.139. <https://doi.org/10.1016/j.ijhydene.2022.02.225>.
10. Dušan Mladenović, **Milica Vujković**, Slavko Mentus, Diogo M. F. Santos, Raquel P. Rocha, Cesar A. C. Sequeira, Jose Luis Figueiredo, Biljana Šljukić, Carbon-Supported Mo₂C for Oxygen Reduction Reaction Electrocatalysis, *Nanomaterials*, 10, 2022. 1805. IF2021=5.719. <https://doi.org/10.3390/nano10091805>
11. A. Gezović#, **M. J. Vujković#***, M. Milović, V. Grudić, R. Dominko, S. Mentus, *Recent developments of Na₄M₃(PO₄)₂(P₂O₇) as the cathode material for alkaline-ion rechargeable batteries: challenges and outlook*, *Energy storage materials*, 37, 2021, 243-273. IF2020 =20.831. <https://doi.org/10.1016/j.ensm.2021.02.011>
12. **M. J. Vujković***, M. Etinski, B. Vasić, B. Kuzmanović, D.Bajuk-Bogdanović,, R. Dominko, S. Mentus, *Polyaniline as a charge storage material in an aqueous aluminum-based electrolyte: Can aluminum ions play the role of protons?*, *Journal of Power Sources*, 482 (2021) 228937. IF2020 =9.127. <https://doi.org/10.1016/j.jpowsour.2020.228937>
13. M Milović, **M Vujković**, D Jugović, M Mitrić, *Electrochemical and structural study on cycling performance of γ-LiV₂O₅ cathode*, *Ceramics International* 47 (2021), 17077-17083. IF2020 = 4.527. <https://doi.org/10.1016/j.ceramint.2021.03.016>
14. M Milović, D Jugović, **M Vujković**, M Kuzmanović, A Mraković, M Mitrić, Towards a green and cost-effective synthesis of polyanionic cathodes: comparative electrochemical behaviour of LiFePO₄/C, Li₂FeP₂O₇/C and

- $\text{Li}_2\text{FeSiO}_4/\text{C}$ synthesized using methylcellulose matrix, Bulletin of Materials Science 44 (2), 1-9. IF2020 = 1.783. <https://doi.org/10.1007/s12034-021-02397-3>
15. Z. Jovanović*, Ž. Mravik, D. Bajuk-Bogdanović, S. Jovanović, S. Marković, **M. Vujković**, J. Kovač, D. Vengust, S. Uskoković-Marković, I. Holclajtner-Antunović, *Self-limiting interactions in 2D-OD system: A case study of graphene oxide and 12-tungstophosphoric acid nanocomposite*, Carbon, 156, 2020, 166; IF2020=9.594. <https://doi.org/10.1016/j.carbon.2019.09.072>
 16. D. Bajuk-Bogdanović*, I. Holclajtner-Antunović, Z. Jovanović, T. Mravik, J. Krstić, S. Uskoković-Marković, **M. Vujković**, *Tailoring the electrochemical charge storage properties of carbonaceous support by redox properties of heteropoly acids: where does the synergy come from?* Journal of Solid State Electrochemistry 23 (2019) 2747; IF2018=2.646. <https://link.springer.com/article/10.1007/s10008-019-04369-4>
 17. N. Zdošek, R. P. Rocha, J. Krstić, T. Trtić-Petrović, B. Šljukić, J. L. Figueiredo, **M. J. Vujković***, *Electrochemical investigation of ionic liquid-derived porous carbon materials for supercapacitors: pseudocapacitance versus electrical double layer*, Electrochimica Acta 298 (2019): 541; IF2019=6.215. <https://doi.org/10.1016/j.electacta.2018.12.129>
 18. B. Kuzmanović, **M. J. Vujković***, N. Tomić, D. Bajuk-Bogdanović, V. Lazović, B. Šljukić, N. Ivanović, S. Mentus, *The influence of oxygen vacancy concentration in nanodispersed non-stoichiometric $\text{CeO}_{2.5}$ oxides on the physico-chemical properties of conducting polyaniline/ CeO_2 composites*, Electrochimica Acta 306 (2019) 506; IF2019=6.215. <https://doi.org/10.1016/j.electacta.2019.03.135>
 19. R. Georgijević, **M. Vujković***, S. Gutić, M. Aliefendić, D. Jugović, M. Mitrić, V. Đokić, S. Mentus, *The influence of synthesis conditions on the redox behaviour of LiFePO_4 in aqueous solution*, Journal of Alloys and Compounds 776 (2019) 475; IF2018=4.650. <https://doi.org/10.1016/j.jallcom.2018.10.246>
 20. **M. Vujković***, D. Bajuk-Bogdanović, Lj. Matović, M. Stojmenović, S. Mentus, *Mild electrochemical oxidation of zeolite templated carbon in acidic solutions, as a way to boost its charge storage properties in alkaline solutions*, Carbon, 138 (2018) 369; IF2018=7.466. <https://doi.org/10.1016/j.carbon.2018.07.053>
 21. J. Sečanski, **M. Vujković**, I. Stojković-Simatović*, *The electrochemical behavior of re-synthesized cathode material from spent Li-ion batteries in an organic electrolyte*, Technique New Materials 27 (2018) 181-185. <https://doi.org/10.5937/tehnika1802181S>
 22. J. Senčanski, D. Bajuk-Bogdanović, D. Majstorović, E. Tchernychova, J. Papan, **M. Vujković***, *The synthesis of $\text{Li}(\text{Co-Mn-Ni})\text{O}_2$ cathode material from spent-Li ion batteries and the proof of its functionality in aqueous lithium and sodium electrolytic solutions*, J. Power Sources 342 (2017) 690; IF2017=6.945. <https://doi.org/10.1016/j.jpowsour.2016.12.115>
 23. Z. Jovanović* D. Bajuk-Bogdanović, S. Jovanović, Ž. Mravik, J. Kovač, I. Holclajtner-Antunović, **M. Vujković**, *The role of surface chemistry in the charge storage properties of graphene oxide*, Electrochimica Acta 258 (2017) 1228; IF2017=5.116. <https://doi.org/10.1016/j.electacta.2017.11.178>
 24. Z. Jovanović*, I. Holclajtner-Antunović, D. Bajuk-Bogdanović, S. Jovanović, Ž. Mravik, **M. Vujković**, *Effect of thermal treatment on the charge storage properties of graphene oxide/12-tungstophosphoric acid nanocomposite*, Electrochemistry Communications 83 (2017) 36; IF2017=4.660. <https://doi.org/10.1016/j.elecom.2017.08.017>
 25. **M. Vujković***, L. Matović, J. Krstić, M. Stojmenović, A. Đukić, B. Babić, S. Mentus, *Mechanically activated carbonized rayon fibers as an electrochemical supercapacitor in aqueous solutions*, Electrochimica Acta 245 (2017) 796 ;IF2017=5.116. <https://doi.org/10.1016/j.electacta.2017.06.018>
 26. O. S. Aleksić, Z. T. Vasiljević, **M. Vujković**, M. Nikolić, N. Labus, M. D. Luković, M. V. Nikolić*, *Structural and electronic properties of screen-6 printed $\text{Fe}_2\text{O}_3 / \text{TiO}_2$ thick films and their photoelectrochemical behavior*, Journal of Materials Science 52 (2017)5938; IF2017=2.993. <https://doi.org/10.1007/s10853-017-0830-2>
 27. J. V. Senčanski, **M. J. Vujković***, I. B. Stojković-Simatović, D. M. Majstorović, D. V. Bajuk-Bogdanović, S. V. Mentus, *Recycling of $\text{LiCo}_{0.59}\text{Mn}_{0.26}\text{Ni}_{0.15}\text{O}_2$ cathodic material from spent Li-ion batteries by the method of the citrate gel combustion*, Chemical Industry, 71 (2017) 211; IF2017=0,437. <https://doi.org/10.2298/HEMIND160418031S>
 28. **M. Vujković**, S. Mentus*, *Potentiodynamic and galvanostatic testing of $\text{NaFe}_{0.95}\text{V}_{0.05}\text{PO}_4/\text{C}$ composite in aqueous NaNO_3 solution, and the properties of aqueous $\text{Na}_{1.2}\text{V}_3\text{O}_8/\text{NaNO}_3/ \text{NaFe}_{0.95}\text{V}_{0.05}\text{PO}_4/\text{C}$ battery*, J. Power Sources, 325 (2016) 185; IF2016=6.395. <https://doi.org/10.1016/j.jpowsour.2016.06.031>

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