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INSTITUT TEHNIČKIH NAUKA SANU
BEOGRAD
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NAUČNOM VEĆU INSTITUTA

Predmet: Zahtev za pokretanje postupka za izbor u naučno zvanje

Molim Vas da, u skladu sa Zakonom o naučnoistraživačkoj delatnosti ("Službeni glasnik RS", бр. 110/05 и 50/06-ispravka), Naučno veće Instituta tehničkih nauka SANU pokrene postupak mog izbora u zvanje: viši naučni saradnik.

Predlažem komisiju za pripremu izveštaja Naučnom veću u sledećem sastavu:

- dr Miodrag Mitrić, naučni savetnik Instituta za nuklearne nauke Vinča, Univerzitet u Beogradu
- dr Nikola Cvjetićanin, vanredni profesor Fakulteta za fizičku hemiju Univerziteta u Beogradu
- dr Dragoljub Uskoković, naučni savetnik, rukovodilac projekta III45004
- dr Nina Obradović, viši naučni saradnik Instituta tehničkih nauka SANU

U prilogu dostavljam:

- stručnu biografiju
- bibliografiju
- vrednost indikatora i kompetentnost
- izveštaj o citiranosti radova (Scopus).

U Beogradu,
14.08.2013.

Подносилац захтева

dr Dragana Jugović

naučni saradnik Instituta tehničkih nauka SANU

Biografija dr Dragane Jugović

Dr Dragana Jugović je rođena 1. 2. 1973. godine u Beogradu. Osnovnu školu i gimnaziju je završila u Beogradu. Diplomirala je na Fakultetu za fizičku hemiju Univerziteta u Beogradu 2002. godine sa temom „Sinteza i elektrohemijske osobine $\text{LiMn}_{2-x}\text{M}_x\text{O}_4$ kao katode Li-jon akumulatora” i stekla zvanje diplomirani fizikohemičar.

Magistrirala je na Fakultetu za fizičku hemiju Univerziteta u Beogradu 2004. godine, sa temom „Karakterizacija katodnih materijala $\text{LiMn}_{2-x}\text{M}_x\text{O}_4$ ($\text{M}=\text{Mn}, \text{Cr}, \text{Zn}$) sintetisanih ultrazvučnom sprej pirolizom” i stekla zvanje magistar fizičkohemijskih nauka.

Doktorirala je na Fakultetu za fizičku hemiju Univerziteta u Beogradu 2008. godine, sa temom „Sinteza i karakterizacija oksidnih katodnih materijala za litijumske izvore struje” i promovisana u doktora fizičkohemijskih nauka.

Od 2002. godine je zaposlena u Institutu tehničkih nauka SANU, angažovanjem na realizaciji projekata finansiranih od strane Ministarstva za nauku Republike Srbije. Trenutno je angažovana na projektu III45004 „Molekularno dizajniranje nanočestica kontrolisanih morfoloških i fizičko-hemijskih karakteristika i funkcionalnih materijala na njihovoj osnovi“, koje finansira Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije, a rukovodilac projekta je prof. dr Dragoljub Uskoković.

Istraživačko zvanje istraživač-saradnik je stekla 2005. godine. Naučno zvanje naučni saradnik stekla je 4. 3. 2009. godine, a procedura za izbor je pokrenuta 17. 12. 2008.godine po predlogu broj 2714/7 Instituta za nuklearne nauke "Vinča". Do sada je objavila 18 naučnih radova, od toga 10 u vrhunskim međunarodnim časopisima, 1 u istaknutom međunarodnom časopisu, 5 u međunarodnim časopisima i 2 u vodećim časopisima nacionalnog značaja. Nakon izbora u zvanje naučni saradnik objavila je 6 radova u vrhunskim međunarodnim časopisima, od kojih je na 5 njih korespondirajući autor i 2 rada u međunarodnom časopisu, pri čemu nijedan od njih nije proistekao iz doktorske teze. Koautor je patentne prijave na nacionalnom nivou. Po poslednjoj kategorizaciji istraživača svrstana je u A2 kategoriju.

Dobitnica je nagrade za najbolju prezentaciju mladih istraživača 2003. godine na XLVII Konf. za ETRAN.

Rukovodilac je međunarodnog bilateralnog projekta sa Slovenijom za period 2012-2013. pod nazivom "Visoko-energijski ortosilikatni materijali za litijum jonske akumulatore", evidencijski broj 651-03-1251/2012-09/05, finansiranog od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije i Ministarstva za obrazovanje, nauku, kulturu i sport Republike Slovenije. U planu joj je i trilateralni projekat između Švajcarske, Slovenije i Srbije, SCOPES 2013-2016, koji finansira Švajcarska nacionalna naučna fondacija i za koji je priprema programa u toku.

Po pozivu Organizatora konferencije International Electric Mobility Conference and Exhibition for Electric Mobility 2011. godine u Ljubljani u Sloveniji je održala predavanje "Impact of synthesis techniques on the structure and performances of LiFePO₄ powders", link: <http://www.electromobility.si/index.php?id=1627>. Ovo je inače prestižna Konferencija na kojoj su izlagali isključivo predavači po pozivu i koja je okupila velika imena iz oblasti litijum jonskih baterija: prof. dr Jean-Marie Tarascon, prof. dr Doron Aurbach, prof. dr Josh Thomas i drugi.

Potpredsednik je Naučno-organizacionog odbora Konferencije mladih istraživača u čijoj organizaciji je učestvovala od prvog naučnog skupa do danas, kada je prerasla u domaću konferenciju sa međunarodnim učešćem Young Researchers' Conference- Materials Science And Engineering, link: <http://www.mrs-serbia.org.rs/10conference.html>

Recenzent je brojnih naučnih radova za časopise sa ISI liste iz oblasti elektrohemije i nauke o materijalima kao što su: vrhunski međunarodni časopisi Journal of Power Sources, Electrochimica Acta, Powder Technology, Materials Research Bulletin, Materials Letters, Journal of Alloys and Compounds, Journal of Materials Science; istaknuti međunarodni časopis Journal of Solid State Electrochemistry; i međunarodni časopis Ionics.

Angažovanost u razvoju obrazovanja i formiranju naučnih kadrova kandidatkinje se ogleda u rukovođenju i mentorskom radu sa studentima doktorskih studija Fakulteta za fizičku hemiju Univerziteta u Beogradu Miloša Milovića i Maje Kuzmanović, istraživač-saradnicima Instituta tehničkih nauka SANU, i učešćem u Komisiji za pregled i ocenu doktorskog rada doktoranda Milice Vujković i diplomskog rada Dragane Arsevski, takođe na Fakultetu za fizičku hemiju. Takođe je član nekoliko komisija za izbor u istraživačka i naučna zvanja Instituta tehničkih nauka SANU, Instituta za nuklearne nauke "Vinča" i Fakulteta za fizičku hemiju.

Prema citatnoj bazi Scopus ukupna citiranost objavljenih radova je 175, odnosno 162 bez autocitata, a Hirshov index 5. Osim citiranosti meru uticajnosti naučnog rada kandidatkinje određuje i učestalost preuzimanja nekog rada. U periodu od aprila do septembra 2009. godine članak Dragana Jugović, Dragan Uskoković, "A review of recent developments in the synthesis procedures of lithium iron phosphate powders", J. Power Sources 190, 2009, 538-544 nalazio se na prvom mestu po učestalosti preuzimanja sa sajta pomenutog časopisa <http://top25.sciencedirect.com/subject/energy/11/journal/journal-of-power-sources/03787753/archive/22/> i <http://top25.sciencedirect.com/subject/energy/11/journal/journal-of-power-sources/03787753/archive/23/>

a na listi 25 najčešće preuzimanih članaka iz ovog časopisa tokom akademске 2009/10. godine (od oktobra 2009. do septembra 2010) nalazio se na osmom mestu <http://top25.sciencedirect.com/subject/energy/11/journal/journal-of-power-sources/03787753/archive/29/>

Imajući u vidu kvalitativne pokazatelje naučnoistraživačkog rada navedene u stručnoj biografiji, i s obzirom da kandidatkinja ispunjava kvantitativne zahteve za sticanje zvanja viši naučni saradnik (61.4 poena), a da je od prethodnog izbora prošlo 4.5 godina, zadovoljeni su svi uslovi za pokretanje postupka za izbor u više zvanje.

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- 2.2 D. Jugović, N. Cvjetićanin, V. Kusigerski, M. Mitrić, M. Miljković, D. Makovec, D. Uskoković, Structural and magnetic characterization of $\text{LiMn}_{1.825}\text{Cr}_{0.175}\text{O}_4$ spinel obtained by ultrasonic spray pyrolysis, *Mat. Res. Bull.* 42, 2007, 515-522. IF: 1.380 Oblast: Materials Science, Multidisciplinary 50/178
- 2.3 Vladan Kusigerski, Dragana Marković, Vojislav Spasojević, Nikola Cvjetićanin, Miodrag Mitrić, Dragana Jugović, Dragan Uskoković, Ground-state magnetism of chromium-substituted LiMn_2O_4 spinel, *J. Magn. Magn. Mater.* 320, 2008, 943-949. IF: 1.704 Oblast: Materials Science, Multidisciplinary 48/189
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5. Predavanje po pozivu sa međunarodnog skupa štampano u izvodu (M32): 1.5

- 5.1 Dragana Jugović, *Impact of synthesis techniques on the structure and performances of LiFePO₄ powders*, International Electric Mobility Conference and Exhibition for Electric Mobility, 27th - 28th of October 2011, Ljubljana, Slovenia
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9. Saopštenje sa skupa nacionalnog značaja štampano u celini (M63): 0.5

- 9.1 Dragana Jugović, Vukoman Jokanović, Dragan Uskoković, Nikola Cvjetićanin, Miroslav Miljković, Miodrag Mitrić, *Dobijanje i karakterizacija prahova litijum manganata ultrazvučnom sprej pirolizom*, Zbornik radova XLVII Konf. za ETRAN, Herceg Novi, 8-13. juna 2003, tom IV, 300-303

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- 10.4 N. Cvjetićanin, D. Jugović, M. Mitrić, M. Miljković, S. Mentus, *Synthesis of LiMn_{2-x}Ni_xO₄ and LiCo_{1-x}Ni_xO₂ By Glycine-nitrate Method*, The fifth Yugoslav Materials Research Society Conference YUCOMAT 2003, Sept. 15-19 2003, The Book of Abstracts, pp. 54
- 10.5 D. Jugović, M. Mitrić, N. Cvjetićanin, M. Miljković, D. Uskoković, *Izomorfna izmena Mn³⁺ jona Cr³⁺ jonima u LiMn₂O₄ spinelu*, Drugi seminar mladih naučnika, Zbornik apstrakata, Beograd 29. decembar 2003, I/8
- 10.6 D. Jugović, N. Cvjetićanin, M. Mitrić, M. Miljković, V. Jokanović, S. Mentus and D. Uskoković, *Synthesis of metal-substituted lithium manganese oxide spinels through ultrasonic spray pyrolysis*, The sixth Yugoslav Materials Research Society Conference YUCOMAT 2004, Sept. 13-17 2004, The Book of Abstracts, pp. 13, O.S.A.10.
- 10.7 M. Mitrić, V. Kusigerski, V. Spasojević, D. Jugović and D. Uskoković, *Structural and magnetic properties of nanosize Li(Cr, Zn)_xMn_{2-x}O₄ compounds obtained by spray pyrolysis*, The sixth Yugoslav Materials Research Society Conference YUCOMAT 2004, Sept. 13-17 2004, The Book of Abstracts, pp. 13, P.S.A.29.

- 10.8 D. Jugović, N. Cvjetićanin, M. Mitrić, S. Mentus, and D. Uskoković, *Comparison Between Different LiFePO₄ Synthesis Routes*, The Eight Yugoslav Materials Research Society Conference YUCOMAT 2006., The Book of Abstracts, pp. 12.
- 10.9 I. Stojković, D. Jugović, M. Mitrić, N. Cvjetićanin, S. Mentus, *Rapid Synthesis and Characterization of Li_{1+x}Cr_yMn_{2-x-y}O₄*, The Eight Yugoslav Materials Research Society Conference YUCOMAT 2006., The Book of Abstracts, p. 81.
- 10.10 D. Jugović, M. Mitrić, N. Cvjetićanin, S. Mentus, and D. Uskoković, *Sinteza LiFePO₄ prahova metodom ultrazvučne sprej pirolize i sonohemijskim tretmanom*, Peti seminar mladih istraživača, Zbornik apstrakata, Beograd 25.-26. decembar 2006, I/1
- 10.11 Dragana Jugović, Miodrag Mitrić, Nikola Cvjetićanin, Slavko Mentus, Dragan Uskoković, *Structural properties of lithium intercalated compounds obtained through different ways of syntheses*, 45th Meeting of the Serbian Chemical Society, Novi Sad, January 25-26, 2007, Book of Abstracts, pp. 149.
- 10.12 Maja Kuzmanović, Dragana Jugović, Miodrag Mitrić, Nikola Cvjetićanin, Srećo Škapin, Dragan Uskoković, *Crystal growth of solvothermally obtained LiFePO₄ in dependence of synthesis conditions*, Ninth Young Researchers' Conference – Materials Science and Engineering, December 20.-22. 2010, Belgrade, Serbia, II/3
- 10.13 M. Milović, D. Jugović, M. Mitrić, B. Jokić, D. Uskoković, *New facile synthesis route for obtaining phase pure LiFePO₄/C composite*, Joint event of the 11th Young Researchers' Conference: Materials Science and Engineering and the 1st European Early Stage Researchers' Conference on Hydrogen Storage, Belgrade, December 3.-5. 2012, Y14

Odbranjena doktorska disertacija (M71): 6

„Sinteza i karakterizacija oksidnih katodnih materijala za litijumske izvore struje”, Fakultet za fizičku hemiju Univerziteta u Beogradu, 2008.

Odbranjen magistarski rad (M72): 3

„Karakterizacija katodnih materijala LiMn_{2-x}M_xO₄ (M=Mn, Cr, Zn) sintetisanih ultrazvučnom sprej pirolizom”, Fakultet za fizičku hemiju Univerziteta u Beogradu, 2004.

Patentna prijava (M92): 8

Dragoljub Uskoković, Dragana Jugović, Maja Kuzmanović, Postupak dobijanja kompozita litijum gvožđe fosfata (LiFePO_4) i ugljenika metodom precipitacije u rastopu stearinske kiseline, Patentna prijava P 2010/0488 od 12.11.2010, broj dokumenta RS 20100488, objavljena 30.06.2012. u Glasniku intelektualne svojine br. 3/2012 - M92 - (2012).

NAUČNOISTRAŽIVAČKI REZULTATI OSTVARENI NAKON IZBORA U ZVANJE NAUČNI SARADNIK (posle 25. 12. 2008)

Rad u vrhunskom međunarodnom časopisu (M21): 8

- 1 Dragana Jugović, Dragan Uskoković, A review of recent developments in the synthesis procedures of lithium iron phosphate powders, *J. Power Sources* 190, 2009, 538-544. IF: 4.290 Oblast: Electrochemistry 2/26
- 2 Dragana Jugović, Miodrag Mitrić, Maja Kuzmanović, Nikola Cvjetićanin, Srečo Škapin, Božidar Cekić, Valentin Ivanovski, Dragan Uskoković, Preparation of LiFePO_4/C composites by co-precipitation in molten stearic acid, *J. Power Sources* 196, 2011, 4613–4618. IF: 4.951 Oblast: Electrochemistry 2/27
- 3 D. Jugović, M. Mitrić, M. Kuzmanović, N. Cvjetićanin, S. Marković, S. Škapin, D. Uskoković, Rapid crystallization of LiFePO_4 particles by facile emulsion-mediated solvothermal synthesis, *Powder Technology* 219, 2012, 128-134. IF: 2.080 Oblast: Engineering, Chemical 36/133
- 4 Miloš Milović, Dragana Jugović, Nikola Cvjetićanin, Dragan Uskoković, Aleksandar S. Milošević, Zoran S. Popović, Filip R. Vukajlović, Crystal structure analysis and first principle investigation of F doping in LiFePO_4 , *Journal of Power Sources* 241, 2013, 70-79. IF: 4.951 Oblast: Electrochemistry 2/27
- 5 Dragana Jugović, Miodrag Mitrić, Miloš Milović, Bojan Jokić, Marija Vukomanović, Danilo Suvorov, Dragan Uskoković, Properties of quenched LiFePO_4/C powder obtained via cellulose matrix-assisted method, *Powder Technology* 246, 2013, 539-544. IF: 2.080 Oblast: Engineering, Chemical 36/133

- 6 Milica Vučković, Dragana Jugović, Miodrag Mitrić, Ivana Stojković, Nikola Cvjetićanin, Slavko Mentus, The LiFe_(1-x)V_xPO₄ /C composite synthesized by gel-combustion method, with improved rate capability and cycle life in aerated aqueous solutions, *Electrochimica Acta*, 2013, <http://dx.doi.org/10.1016/j.electacta.2013.07.219>
IF: 3.832 Oblast: Electrochemistry 7/27

Rad u međunarodnom časopisu (M23): 3

- 1 Tanja Barudžija, Alexey A. Gusev, Dragana Jugović, Miroslav Dramičanin, Miodrag Zdujić, Čedomir Jovalekić, Miodrag Mitrić, Structural and magnetic properties of mechanochemically synthesized nanocrystalline titanium monoxide, *Hemiska industrija* 66, 2012, 181-186. IF: 0.463 Oblast: Engineering, Chemical 104/133
- 2 Tanja Barudžija, Alexey A. Gusev, Dragana Jugović, Milena Marinović-Cincović, Miroslav Dramičanin, Miodrag Zdujić, Čedomir Jovalekić, Miodrag Mitrić, Structural and magnetic properties of mechanochemically synthesized nanosized yttrium titanate, *Hemiska industrija* 66, 2012, 309-315. IF: 0.463 Oblast: Engineering, Chemical 104/133

Predavanje po pozivu sa međunarodnog skupa štampano u izvodu (M32): 1.5

- 1 Dragana Jugović, *Impact of synthesis techniques on the structure and performances of LiFePO₄ powders*, International Electric Mobility Conference and Exhibition for Electric Mobility, 27th - 28th of October 2011, Ljubljana, Slovenia
<http://www.electromobility.si/index.php?id=1677>

Saopštenje sa međunarodnog skupa štampano u celini (M33): 1

- 1 M. Jović, Z. Stojanović, D. Jugović, Lj. Veselinović, S. Škapin, D. Uskoković, Hydrothermal synthesis of LiFePO₄ in presence of different organic additives, Proceedings of the 10th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2010., pp. 441-443.
- 2 M. Milović, D. Jugović, M. Mitrić, B. Jokić, D. Uskoković, *Synthesis and structural properties of F-doped LiFePO₄/C Composite*, Proceedings of the 11th International

Conference on Fundamental and Applied Aspects of Physical Chemistry, Physical Chemistry 2012, Belgrade, Serbia, Volume I, pp. 441-443.

Saopštenje sa međunarodnog skupa štampano u izvodu (M34): 0.5

- 1 Nikola Cvjetićanin, Dragana Jugović, and Miodrag Mitrić, *Synthesis of LiFePO₄ powder by citrate method*, Second Regional Symposium on Electrochemistry : South-East Europe, Sava Center, Belgrade, Serbia, June 6 to 10, 2010, Abstract Book ECS-P-04
- 2 M. Jović, D. Jugović, M. Mitrić, N. Cvjetićanin, D. Uskoković, *Microemulsion-mediated hydrothermal synthesis of LiFePO₄ cathode material*, The Twelfth Annual Conference YUCOMAT 2010, Herceg-Novi, September 6.-10. 2010, The Book of Abstracts, p. 71.
- 3 D. Jugović, M. Jović, M. Mitrić, N. Cvjetićanin, D. Uskoković, *Preparation of LiFePO₄/C composites by co-precipitation in the presence of stearic acid*, The Twelfth Annual Conference YUCOMAT 2010, Herceg-Novi, September 6.-10. 2010, The Book of Abstracts, p. 10, oral
- 4 D. Jugović, M. Kuzmanović, M. Mitrić, N. Cvjetićanin, D. Uskoković, *Syntheses and characterizations of LiFePO₄ powders*, Thirteenth Annual Conference YUCOMAT 2011, Herceg Novi, September 5.-9. 2011., The Book of Abstracts, p. 6., oral
- 5 N. Cvjetićanin, T. Barudžija, D. Jugović, M. Mitrić, *Electrochemical properties of anodically grown TiO₂*, Thirteenth Annual Conference YUCOMAT 2011, Herceg Novi, September 5.-9. 2011., The Book of Abstracts, p. 86., poster
- 6 M. Milović, D. Jugović, M. Mitrić, B. Jokić, D. Uskoković, *Synthesis and characterization of Li₂FeSiO₄/C composite*, Fourteenth Annual Conference - YUCOMAT 2012, Herceg Novi, Montenegro, September 3.-7. 2012, Program and the book of abstracts, p. 77, poster
- 7 D. Jugović, M. Mitrić, M. Milović, B. Jokić, D. Uskoković, *Synthesis and characterization of LiFePO₄/C composite obtained by cellulose template*, Fourteenth Annual Conference - YUCOMAT 2012, Herceg Novi, Montenegro, September 3.-7. 2012, Program and the book of abstracts, p. 76, poster

Saopštenje sa skupa nacionalnog značaja štampano u izvodu (M64): 0.2

- 1 Maja Kuzmanović, Dragana Jugović, Miodrag Mitrić, Nikola Cvjetićanin, Srećo Škapin, Dragan Uskoković, *Crystal growth of solvothermally obtained LiFePO₄ in dependence of synthesis conditions*, Ninth Young Researchers Conference – Materials Science and Engineering, December 20.-22. 2010, Belgrade, Serbia, II/3
- 2 M. Milović, D. Jugović, M. Mitrić, B. Jokić, D. Uskoković, *New facile synthesis route for obtaining phase pure LiFePO₄/C composite*, Joint event of the 11th Young Researchers' Conference: Materials Science and Engineering and the 1st European Early Stage Researchers' Conference on Hydrogen Storage, Belgrade, December 3.- 5. 2012, Y14

Patentna prijava (M92): 8

Dragoljub Uskoković, Dragana Jugović, Maja Kuzmanović, Postupak dobijanja kompozita litijum gvožđe fosfata (LiFePO₄) i ugljenika metodom precipitacije u rastopu stearinske kiseline, Patentna prijava P 2010/0488 od 12.11.2010, broj dokumenta RS 20100488, objavljena 30.06.2012. u Glasniku intelektualne svojine br. 3/2012 - M92 - (2012).

Vrsta i kvantifikacija svih naučnoistraživačkih rezultata dr Dragane Jugović

Kategorija	Broj	Vrednost indikatora	Ukupna vrednost
M14	1	4	4
M21	10	8	80
M22	1	5	5
M23	5	3	15
M32	1	1.5	1.5
M33	9	1	9
M34	13	0.5	6.5
M51	2	2	4
M63	2	0.5	1
M64	13	0.2	2.6
M71	1	6	6
M72	1	3	3
Ukupno			137.6

Vrsta i kvantifikacija naučnoistraživačkih rezultata dr Dragane Jugović nastalih nakon izbora u zvanje naučni saradnik

Kategorija	Broj	Vrednost indikatora	Ukupna vrednost
M21	6	8	48
M23	2	3	6
M32	1	1.5	1.5
M33	2	1	2
M34	7	0.5	3.5
M64	2	0.2	0.4
Ukupno			61.4

Ispunjene kvantitativne zahteve za sticanje zvanja viši naučni saradnik

potreban uslov	ostvareno
Ukupno: 48	Ukupno: 61.4
$M10+M20+M31+M32+M33+M41+M42+M51 \geq 40$	$M21+M23+M32+M33 = 57.5$
$M11+M12+M21+M22+M23+M24+M31+M32+M41+M42 \geq 28$	$M21+M23+M32 = 55.5$

Spisak citata bez autocitata dr Dragane Jugović prema indeksnoj bazi

Scopus na dan 13. 08. 2013.

Rad

Dragana Jugović, Miodrag Mitrić, Maja Kuzmanović, Nikola Cvjetićanin, Srečo Škapin, Božidar Cekić, Valentin Ivanovski, Dragan Uskoković, "Preparation of LiFePO₄/C composites by co-precipitation in molten stearic acid", J. Power Sources 196, 2011, 4613–4618.

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Dragana Jugović, Dragan Uskoković, "A review of recent developments in the synthesis procedures of lithium iron phosphate powders", J. Power Sources 190, 2009, 538-544.

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