

OSOBNE INFORMACIJE Igor Đerđ


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Spol M | Datum rođenja 23/08/1972 | Državljanstvo hrvatsko

RADNO MJESTO
Redoviti profesor

Sveučilište Josipa Jurja Strossmayera u Osijeku, Odjel za kemiju, Cara Hadrijana 8/A, 31000 Osijek

RADNO ISKUSTVO

26. 09. 2019. - danas

Redoviti profesor

Odjel za kemiju, Cara Hadrijana 8/A, 31000 Osijek

- Vođenje različitih znanstvenih projekata
 - Rad sa studentima, održavanje nastave
 - Upravno administrativni poslovi na unapređenju kvalitete znanstvenih istraživanja.
- Djelatnost ili sektor: Visoko obrazovanje i znanost

01. 01. 2016. - 25. 09. 2019.

Izvanredni profesor i Zamjenik pročelnika za znanstvenoistraživačku djelatnost

Odjel za kemiju, Cara Hadrijana 8/A, 31000 Osijek

- Vođenje različitih znanstvenih projekata
 - Rad sa studentima, održavanje nastave
 - Upravno administrativni poslovi na unapređenju kvalitete znanstvenih istraživanja.
- Djelatnost ili sektor: Visoko obrazovanje i znanost

15. 04. 2015. -31. 12. 2015.

Viši znanstveni suradnik

Institut Ruđer Bošković, Bijenička 54, 10000 Zagreb

- Vođenje različitih znanstvenih projekata, istraživanja i diseminacije rezultata.
- Djelatnost ili sektor: Visoko obrazovanje i znanost

01. 07. 2009. -14. 04. 2015.

Znanstveni suradnik

Institut Ruđer Bošković, Bijenička 54, 10000 Zagreb

- Vođenje različitih znanstvenih projekata, istraživanja i diseminacije rezultata.
- Djelatnost ili sektor: Visoko obrazovanje i znanost

01. 03. 2010. – 28. 02. 2011.

Gostujući znanstvenik

Kemijski inštitut Ljubljana, Hajdrihova 19, 1000 Ljubljana, Slovenija

- Vođenje različitih znanstvenih projekata, istraživanja i diseminacije rezultata.
- Djelatnost ili sektor: Znanstveno istraživanje

01. 01. 2007. – 30. 06. 2009.

Poslijedoktorand

Department of Materials, ETHZ, Zürich, Switzerland

- Znanstvena istraživanja i diseminacija rezultata.

Djelatnost ili sektor: Znanstveno istraživanje

01. 10. 2005. – 31. 12. 2006.

Poslijedoktorand

Max-Planck-Institute of Colloids and Interfaces, Colloid Chemistry, Potsdam, Germany

- Znanstvena istraživanja i diseminacija rezultata.

Djelatnost ili sektor: Znanstveno istraživanje

01. 01. 2004. – 30. 09. 2005.

Viši asistent

Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Fizički odsjek

- Znanstvena istraživanja i diseminacija rezultata

- Rad sa studentima, održavanje nastave.

Djelatnost ili sektor: Znanstveno istraživanje

01. 07. 1998. – 31. 12. 2003.

Asistent (doktorand)

Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Fizički odsjek

- Znanstvena istraživanja i diseminacija rezultata

- Rad sa studentima, održavanje nastave.

OBRAZOVANJE I OSPOSOBLJAVANJE

19. 12. 2003.

Doktor prirodnih znanosti

Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Fizički odsjek

- Naslov disertacije: „Strukturalna ispitivanja nanokristalnog titanovog dioksida“.

27. 03. 1997.

Diplomirani inženjer fizike

- Naslov diplomskog rada: „Granice zrna nanokristaliničnog ZrO₂“.

30. 06. 1991.

Prirodoslovno-matematički tehničar

Matematička gimnazija Osijek

OSOBNJE VJEŠTINE

Materinski jezik

hrvatski

Ostali jezici

Engleski jezik

Njemački jezik

RAZUMIJEVANJE		GOVOR		PISANJE
Slušanje	Čitanje	Govorna interakcija	Govorna produkcija	
C2	C2	C2	C2	C2
B1	C1	B1	B1	B2
Stupnjevi: A1/2: Početnik - B1/2: Samostalni korisnik - C1/2 Iskusni korisnik Zajednički europski referentni okvir za jezike				

- Komunikacijske vještine**
- Izvrsne komunikacijske vještine stečene tijekom višegodišnjeg rada sa suradnicima (znanstveno istraživanje) i studentima (nastava), te tijekom izlaganja i diskutiranja na različitim znanstvenim skupovima na hrvatskom i engleskom jeziku.
- Organizacijske / rukovoditeljske vještine**
- Izvrsne rukovoditeljske vještine stečene tijekom višegodišnjeg vođenja znanstveno-istraživačkih projekata i istraživačkih timova.
 - Član organizacijskog odbora Festivala znanosti u Osijeku (2016.).
 - Član organizacijskog ili znanstvenog odbora brojnih međunarodnih kongresa.
 - Član Matičnog odbora za polje fizike (2017. – 2021.)
 - Član COST recenzentskog panela (2018.-2021.)
- Računalne vještine**
- Svakodnevno aktivno korištenje programskog paketa Microsoft Office™, Origin, DFT software Wien 2k i ostalih brojnih programa potrebnih za realizaciju znanstvenih projekata.
- Ostale vještine**
- **Licenca za rad na transmisijskim elektronskim mikroskopima:**
 - 1. JEOL-JEM-2100-UHR,
 - 2. Zeiss EM 912Ω,
 - 3. Philips CM200-FEG with a GIF 100 GATAN Energy Filter,
 - 4. Philips CM 30.
 - **Licenca za rad na X-ray difraktometru:**
 - XRD Powder Diffractometer X'pert PRO
- Vozačka dozvola**
- B

DODATNE INFORMACIJE

Projekti

Voditelj projekata:

1. "Sinteza i karakterizacija novih metalnih oksida u ionskim tekućinama" (2011.-2012.) / MZOS- DAAD.
2. "Strukturna karakterizacija novih kompleksnih materijala s potencijalnom primjenom" (2011.-2012.) / MZOŠ - Ministry of Science and Education of Montenegro.
3. "Strukturna karakterizacija novih nanočestica dopiranih metalnih oksida" (2011.-2012.) / MZOŠ- Ministry of Science and Technological Development of Serbia.
4. „Novi anorgansko-organski hibridni materijali: rasvjetljavanje strukture kombinacijom praškaste difraktometrije i optimizacije geometrije primjenom računa teorije funkcionala gustoće (DFT)" (2013.-2014.) / MZOŠ – COGITO (France).
5. "Porozni multifunkcionalni materijali - potraga za multiferocima" (2013.) /donacija Zaklade HAZU.
6. „Multiferoični kompleksni metalni telurati: Proučavanje odnosa struktura-svojtva"-voditelj (2014.) /donacija HEP-a.
7. „Multifunctional complex metal tellurates: Structure-property relationship study (2013.-2015.) Unity through Knowledge Fund (UKF).
8. „Metal-Hydride Organic Frameworks (HOF)-new solids for gas adsorption and

separation"-voditelj projekta (hrvatski tim) (2014.-2017.)-Swiss National Science Foundation.

9. „Effective modulation of ZnO band gap and the modulation mechanism study (ZnO band gap study)"- voditelj projekta (scientist in charge) (2014.-2016.)- Newfelpro dolazna shema.

10. „Sol-gel sinteza i karakterizacija TiO₂ nanostruktura s poboljšanom električnom vodljivošću" (2014.-2015.) / MZOS- DAAD.

11. „Prema novom dizajnu magnetootpornih materijala s elektrostatički kontroliranim magnetskim svojstvima" (2015.-2016.) / MZOS- DAAD.

12. „Nekonvencionalni multiferoici" (2014.-2015.)/ MZOS- ARRS (Slovenija).

13. „Multifunkcionalni kompleksni metalni telurati: proučavanje odnosa strukture i svojstva" (2015.) /donacija Zaklade HAZU.

14. „Istraživanje složenih multiferoičnih materijala pripremljenih metodama otopinske kemije" (2017.-2021.) / istraživački projekt HRZZ.

15. „Nanostrukturni hibridi LaCoO₃ kao vrlo efikasni elektrokatalizatori" (2017.-2018.) / MZO - DAAD.

16. „Modificirana sol-gel metoda sinteze kompleksnih kvaternarnih metalnih oksida koji sadrže volfram s netrivialnim magnetskim ili/ električnim svojstvima" (2016.-2017.) / MZO – OeAD (Austrija).

17. „Istraživanje perovskitnih multiferoičnih materijala pripremljenih metodama otopinske kemije" (2017.-2018.) / Hrvatska - Mađarska.

18. „Istraživanje stabilnih organometalnih halidnih perovksita s primjenama u fotovoltaičima" (2018.-2019.) / Hrvatska - Kina.

19. „Optimizirana sinteza i karakterizacija materijala na bazi CeO₂, obećavajućih katalizatora za oksidaciju HCl-a" (2018.-2019.) / MZO- DAAD.

20. „Istraživanje utjecaja metalnih promotora rijetkih zemalja i stupnja uređenja na redoks svojstva sustava CeO₂ - ZrO₂" (2019.-2023.) HRZZ - Znanstvena suradnja.

21. „Istraživanje materijala na bazi CeO₂, obećavajućih katalizatora za oksidaciju HCl-a" (2019.-2020.) / Hrvatska - Mađarska.

22. „Viskoentropijski materijali - sinteza, karakterizacija i primjena" (2021.-2022.) / MZO - DAAD.

23. „The study of the effect of rare dopants on the redox properties of ceria-zirconia with application in CO and CH₄ oxidation" (2021.-2022.) / MZO – COGITO (France).

Suradnik na projektima:

1. "Thin Films of Silicon Alloys Near the Transition Between Amorphous and Crystalline State" – suradnik od 07. 05. 2008./MZOS

2. "The Structure and the Properties of Special Nanomaterials Produced by the Novel

Methods”– suradnik (2007. - 2008.)./MZOS

3. Microstructural Investigations of the Potentially Applicable Novel Materials – suradnik (2002. – 2007.)./MZOS

4. “Structural Investigations of Nanocrystalline Materials” – suradnik (1998. – 2002.)./MZOS

5. Schwerpunktprogramm “Nanodrähte und Nanoröhren”- suradnik (2005.-2006.)/ German Research Foundation (DFG).

6. “Development of Concepts for the Size- and Shape-Controlled Synthesis of Metal Oxide Nanoparticles in Surfactant-Free Reaction Systems”- suradnik (2007.-2009.) / Swiss National Science Foundation.

7. “Nano - structural materials for thin film solar cells”- suradnik (2010. - 2011.) / Unity through Knowledge Fund (UKF).

8. Član COST akcije MP 1402 HERALD- Hooking together European research in Atomic Layer Deposition.

Konferencije i pozvana predavanja

Pozvana predavanja:

1. **Igor Đerdj**, Nonaqueous solution route toward various nanosized materials, Faculty of Chemistry, University of Belgrade, May 27, 2011, Belgrade, Serbia.

2. **Igor Đerdj**, From simplicity to complexity: the case of $\text{VO}_{1.52}(\text{OH})_{0.77}$ nanorods, Seminar of the Department of Materials, ETH Zürich, May 7, 2008, Zürich, Switzerland.

3. **Igor Đerdj**, Nonaqueous synthesis and characterization of metal oxide nanoparticles, Seminar of the Department of Inorganic Chemistry, Fritz-Haber Institute der Max-Planck-Gesellschaft, July 11, 2006, Berlin, Germany.

4. **Igor Đerdj**, Nonaqueous route towards various functional nanosized compounds: An overview, Institute of Materials Jean Rouxel, University of Nantes, March, 2013, Nantes, France.

5. **Igor Đerdj**, Electron microscopy study of one-dimensional functional materials synthesized by a nonaqueous route, Microscopy Conference 2013, Regensburg, Germany.

6. **Igor Đerdj**, Novel Mixed Phase SnO_2 Nanorods Assembled with SnO_2 Nanocrystals for Enhancing Gas-Sensing Performance toward Isopropanol Gas, ISMANAM-2014, June, 2014, Cancun, Mexico.

7. **Igor Đerdj**, Hexagonal Rare Earth Orthoferrites Stabilized on the Nanometer Scale in Polymer-Templated Mesoporous Thin Films and Powders, IMMS-9, August, 2015, Brisbane, Australia.

8. **Igor Đerdj**, The application of metal oxide nanoparticles in gas sensing devices and lithium ion batteries, Cutting Edge 2015, 22. 09. 2015., University of Ljubljana, Faculty of Chemistry and Chemical Technology, Ljubljana, Slovenia.

9. **Igor Đerdj**, Selected functional materials: Structure-property relationship study, Riga Technical University, 14.-30. 06. 2016., Riga, Latvija (ERASMUS+ staff mobility exchange scheme).

10. **Igor Đerdj**, The application of metal oxide nanoparticles in gas sensing devices, University of Padova, 26. 02.–11. 03. 2017., Padova, Italia (ERASMUS+ staff mobility

exchange scheme).

11. **Igor Djerdj**, The application of metal oxide nanoparticles in gas sensing devices, Herald COST action, Serbian Academy of Science, Beograd, 28.-31. 08. 2017.

12. **Igor Djerdj**, The application of metal oxide nanoparticles in gas sensing devices and overview of current research activities, University of Szeged, Faculty of Science and Informatics, Szeged, Hungary, 13. 09. 2017.

13. **Igor Djerdj**, The application of metal oxide nanoparticles in gas sensing devices, Pure and Applied Chemistry International Conference 2018, 07.-09. 02. 2018. Hat Yai, Thailand.

14. **Igor Djerdj**, The application of metal oxide nanoparticles in gas sensing devices, Department of Materials Science and Engineering, Southern University of Science and Technology, 05. 05. 2018., Shenzhen, China.

15. **Igor Djerdj**, In-situ study of the oxygen-induced transformation of pyrochlore $\text{Ce}_2\text{Zr}_2\text{O}_{7+x}$ to the $\kappa\text{-Ce}_2\text{Zr}_2\text{O}_8$ phase, 14th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 24.-28. 09. 2018.

16. **Igor Djerdj**, In-situ study of the oxygen-induced transformation of pyrochlore $\text{Ce}_2\text{Zr}_2\text{O}_{7+x}$ to the $\kappa\text{-Ce}_2\text{Zr}_2\text{O}_8$ phase, an important feature for the application in three-way catalysts, 26th Conference of the Serbian crystallographic society, Silver Lake, June 27–28th 2019.

17. **Igor Djerdj**, The application of Ce-Zr-O compounds in HCl oxidation and in three-way catalysis, 13th Conference for Young Scientists in Ceramics, Novi Sad, Serbia, 13.-16. 10. 2019.

18. **Igor Djerdj**, Magnetic and electrical properties of selected nanocrystalline double and triple perovskites, X. Open Seminar Day of Materials Research Laboratory, University of Nova Gorica, Nova Gorica, Slovenia, 13. September 2021.

Usmena izlaganja na međunarodnim znanstvenim skupovima:

29. **Igor Djerdj**, „An aqueous sol-gel route towards selected quaternary metal oxides with single and double perovskite-type structure containing tellurium“, XXIII konferencija Srpskog kristalografskog društva, Andrevlje, Srbija, 9-11. 06. 2016.

28. **Igor Djerdj**, „An aqueous sol-gel route towards quaternary metal oxides with double perovskite-type structure: $\text{Ba}_3\text{Fe}_2\text{TeO}_9$, $\text{Sr}_3\text{Fe}_2\text{TeO}_9$, $\text{Ba}_2\text{NiTeO}_6$ and their magnetic properties study“, 2016 E-MRS - Spring meeting, Lille, France, 02.-05. 05. 2016.

27. **Igor Djerdj**, „Acrobatics of N'-2-propylidene-4-hydroxybenzohydrazide crystals“, YUCOMAT 2014, Herceg Novi, Crna Gora, 31. 08. - 04. 09. 2015.

26. **Igor Djerdj**, „Hydrothermal growth of ZnO nanorods on Zn substrates and their application in degradation of azo dyes under ambient conditions“, Kongres hemičara i tehnologa BiH sa međunarodnim učešćem, Sarajevo, Bosna i Hercegovina, 10.-12. 10. 2014.

25. **Igor Djerdj**, „Novel mixed phase SnO_2 nanorods for enhancing gas-sensing performance towards isopropanol gas“, YUCOMAT 2014, Herceg Novi, Crna Gora, 01.-05. 09. 2014.

24. **Igor Djerdj**, „Crystal Structures Of Several Inorganic-Organic Hybrids Solved From Powder XRD“, 23rd Congress and General Assembly of the International Union of Crystallography, Montreal, Canada, 05.-12. 08. 2014.
23. **Igor Djerdj**, „Interplay between the structural and magnetic probes in elucidation of the structure of novel 2D layered $V_4O_4(OH)_2(O_2CC_6H_4CO_2)_4 \cdot DMF$ “, 22. Croatian-Slovenian Crystallographic Meeting, Biograd, Croatia, 13.-15. 06. 2013.
22. **Igor Djerdj**, Davor Gracin, Krunoslav Juraić, Daniel Meljanac, Adam Marinović, and Davor Balzar, „Structural and optical study of inhomogeneous SnO_2 thin films“, ISMANAM, Moskva, Rusija, 18.-22. 06. 2012.
21. **Igor Djerdj**, Krunoslav Juraić, and Davor Gracin, „Structural features of layered SnO_2 thin films“, 21. Slovenian-Croatian Crystallographic Meeting, Pokljuka, Slovenia, 14.-16. 06. 2012.
20. **Igor Djerdj**, Srečo D. Škapin, Miran Čeh, Zvonko Jagličić, Damir Pajić, Bojan Kozlevčar, Bojan Orel, Zorica Crnjak Orel, Željko K. Jaćimović, „Solvothermal synthesis of new 2D layered nanocrystalline inorganic-organic hybrid $V_4O_4(OH)_2(O_2CC_6H_4CO_2) \cdot DMF$ compound and its magnetic properties“, YUCOMAT 2011, Herceg Novi, Montenegro, 05.-09. 09. 2011.
19. **Igor Djerdj**, Davor Gracin, Krunoslav Juraić, Daniel Meljanac, Davor Balzar, „Structural analysis of inhomogeneous SnO_x thin films“ Denver X-ray conference, Colorado Springs, USA, 01.-05. 08. 2011.
18. **Igor Djerdj**, Srečo D. Škapin, Miran Čeh, Zvonko Jagličić, Damir Pajić, Bojan Kozlevčar, Bojan Orel, Zorica Crnjak Orel, Željko K. Jaćimović, „Solvothermal synthesis of new 2D layered nanocrystalline inorganic-organic hybrid $V_4O_4(OH)_2(O_2CC_6H_4CO_2) \cdot DMF$ compound and its magnetic properties“, The twentieth Croatian-Slovenian crystallographic meeting, Baška, Croatia, 15.-19. 06. 2011.
17. **Igor Djerdj**, Davor Gracin, Krunoslav Juraić, Daniel Meljanac, Ivančica Bogdanović-Radović, Gađa Pletikapić, „Structural analysis of monolayered and bilayered SnO_2 thin films“, EMRS-2011. Spring Meeting, Nice, France, 09.-13. 05. 2011.
16. **Igor Djerdj**, Davor Gracin, Krunoslav Juraić, Miran Čeh, „Structural properties of the thin-film solar-cells materials“, 19. Slovenian-Croatian Crystallographic meeting, Strunjan, Slovenia, 16-20. 06. 2010.
15. **Igor Djerdj**, Minhua Cao, Radovan Černy, Zvonko Jagličić, Fabia Gozzo, Xavier Rocquefelte, Denis Arčon, Markus Niederberger, Nonaqueous route to a nanocrystalline metal-organic framework $VO(C_6H_5COO)_2$, EUROMAT 2009, Glasgow, United Kingdom, 07.-10. 09. 2009.
14. **Igor Djerdj**, Minhua Cao, Radovan Černy, Zvonko Jagličić, Fabia Gozzo, Xavier Rocquefelte, Denis Arčon, Markus Niederberger, Nonaqueous Routes to Vanadium-Oxygen based Compounds: Hollandite-Type $VO_{1.52}(OH)_{0.77}$ Nanorods and a Metal-Organic Framework $VO(C_6H_5COO)_2$, 2009 MRS Spring Meeting, San Francisco, 13.-17. 04. 2009.
13. **Igor Djerdj**, Denis Arčon, Markus Niederberger, Nonaqueous synthesis of $Nd(OH)_3$ nanoparticles, characterization, electronic structure and properties, HOT NANO TOPICS 2008, Portorož, Slovenia, 23-30. 05. 2008.
12. **Igor Djerdj**, Denis Sheptyakov, Fabia Gozzo, Denis Arčon, Reinhard Nesper, Markus Niederberger, Characterization and Properties of Novel Oxygen Contained Hollandite $VO_{1.52}(OH)_{0.77}$ Nanorods Synthesized by Nonaqueous Sol-Gel Route, SLONANO 2007, Ljubljana, Slovenia, 10-12. 10. 2007.

11. **Igor Đerdj**, Markus Niederberger, Nonaqueous synthesis of a new compound: vanadium oxide hydrate $V_7O_{16} \cdot 4.2H_2O$, 234th ACS National Meetings & Expositions, Boston, SAD, 19-23. 08. 2007.
10. **Igor Đerdj**, Markus Niederberger, Jianhua Ba, Markus Antonietti, Dangsheng Su and Robert Schlögl, Solvothermal Synthesis of Lanthanum Hydroxide Nanobelts, 16th International Microscopy Congress, September 2006, Sapporo, Japan.
9. **I. Đerdj**, A. M. Tonejc, A. Tonejc, M. Bijelić, M. Buljan, U. V. Desnica, R. Kalish, TEM study of carbon nanophases grown in carbon-ion implanted quartz, 14th Croatian-Slovenian crystallographic meeting, June 2005, Vrsar, Croatia.
8. **I. Đerdj**, A. M. Tonejc, and A. Tonejc, Structural investigations of nanocrystalline TiO_2 samples, Electron Crystallography: Novel Approaches for Structure Determination of Nanosized Materials, June 2004, Erice, Italy.
7. **I. Đerdj**, A. M. Tonejc, A. Tonejc, and N. Radić, XRD analysis of tungsten thin films, 10th Joint Vacuum Conference, September 2004, Portorož, Slovenia.
6. **I. Đerdj**, A. M. Tonejc, and A. Tonejc, The calculation of the average grain size of nanocrystalline titania by means of electron microscopy and XRD, 6th Multinational Congress on Microscopy-European Extension, June, 2003, Pula, Croatia.
5. **I. Đerdj**, A. M. Tonejc, and A. Tonejc, The Rietveld refinement of XRD data obtained on nanocrystalline TiO_2 , 12th Croatian-Slovenian crystallographic meeting, June 2003, Plitvička jezera, Croatia.
4. **I. Đerdj**, A. M. Tonejc, A. Tonejc, and N. Radić, The comparison of various methods for extraction of size-strain data from XRD powder pattern of tungsten thin films, 11th Slovenian-Croatian crystallographic meeting, June 2002, Bohinj, Slovenia.
3. A. M. Tonejc, **I. Đerdj**, and A. Tonejc, Rietveld refinement of electron diffraction data obtained on nanocrystalline TiO_2 , 10th Croatian-Slovenian crystallographic meeting, June 2001, Lovran, Croatia.
2. A. M. Tonejc, **I. Đerdj**, and A. Tonejc, Evidence from HRTEM image processing, XRD and EDS on nanocrystalline iron-doped Titanium oxide powders, 9th Slovenian- Croatian crystallographic meeting, June 2000, Gozd Martuljek, Slovenia.
1. A. M. Tonejc, **I. Đerdj**, M. Gotić, S. Musić, S. Popović, and A. Tonejc, XRD, TEM and HRTEM study of iron doped TiO_2 , 8th Croatian-Slovenian Crystallographic meeting, Rovinj, Croatia, June 1999.

Posterska izlaganja na međunarodnim znanstvenim skupovima:

1. **I. Đerdj**, A. M. Tonejc, and A. Tonejc, Application of Rietveld method to XRD and SAED pattern of nanocrystalline TiO_2 samples, 19th Congress and General Assembly of the International Union of Crystallography, Geneva, Switzerland, August 2002.
2. **I. Đerdj**, A. M. Tonejc, M. Bijelić, M. Buljan, U. V. Desnica, C. Saguy, R. Kalish, Transmission electron microscopy study of different carbon nanophases produced by ion beam implantation, Proceedings of E-MRS 2005 Spring Meeting, Strasbourg, France, June 2005.
3. **Igor Đerdj**, Markus Niederberger, and Markus Antonietti, Synthesis and Characterization of nanocrystalline manganese oxide, Proceedings of E-MRS 2006

Spring Meeting, Nice, France, June 2006.

4. **Igor Djerdj**, Markus Niederberger, Jianhua Ba, and Markus Antonietti, Synthesis and characterization of nanocrystalline chromium and iron doped titania, Interfacial Engineering 2006, 20-21. 06. 2006., Stockholm, Sweden.

5. **Igor Djerdj**, Jianhua Ba, Jelena Buha, Georg Garnweitner and Markus Niederberger, Tailoring the morphology of lanthanum hydroxide nanostructures, Delegate manual of 5th international conference on inorganic materials, 23.-26. 09. 2006., Ljubljana, Slovenia.

6. **Igor Djerdj**, Markus Niederberger, and Markus Antonietti, Synthesis and characterization of nanocrystalline manganese oxide, Workshop on nanoanalysis, 09.-11. 07. 2006., Zürich, Switzerland.

7. **Igor Djerdj**, Minhua Cao, Radovan Černy, Zvonko Jagličić, Fabia Gozzo, Markus Antonietti, Markus Niederberger, Nonaqueous approach to a metal-organic framework: a new vanadium-oxobenzoate as case study, EPDIC-11, 18.-22. 09. 2008., Warsaw, Poland.

8. **Igor Djerdj**, Gabriela Ambrožič, Zorica Crnjak Orel, Vanadium-based Hybrid Inorganic-Organic Nanocrystalline Materials, 17th International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM), 04.-09. 07. 2010., Zürich, Switzerland.

9. Danijela Bajić, Jelena Brdarić, Nikolina Filipović, Jasminka Popović, **Igor Djerdj**, "Novel hybrid inorganic-organic one-dimensional chain systems tailored with monocarboxylic acids", XXIII hrvatski skup kemičara i kemijskih inženjera, 21.-24. 04. 2013., Osijek, Croatia.

10. **Igor Djerdj**, "Long cycle life of CoMn₂O₄ lithium ion battery anodes with high crystallinity", Challenges in Chemical Renewable Energy, 08.-11. 09. 2015., Rio de Janeiro, Brazil.

11. **Igor Djerdj**, "Combustion synthesis of porous Pt-functionalized SnO₂ sheets for isopropanol gas detection with a significant enhancement in response", 12th International Conference on Materials Chemistry, 20.-23. 07. 2015., York, United Kingdom.

12. **Igor Djerdj**, Berislav Marković, Jasminka Popović, Tobias Weller, Zvonko Jagličić, Željko Skoko, Damir Pajić, Christian Suchomski, Pascal Voepel, Roland Marschall, Bernd M. Smarsly, „Aqueous sol-gel route towards selected quaternary metal oxides with single and double perovskite-type structure containing tellurium“, YUCOMAT 2016, 05.-09. 09. 2016., Herceg Novi, Montenegro.

13. **Igor Djerdj**, Lidija Androš Dubraja, Tonko Dražić, Jasminka Popović and Željko Skoko, "Thermosolient Oxitropum Salts", 14th Conference of the Asian Crystallographic Association, 04.-07. 12. 2016., Hanoi, Vietnam.

14. J. Bijelić, B. Marković, A. Šter, B. Matasović, E. Kovač Andrić, T. Đorđević, M. Bijelić, I. **Djerdj**, „Modified aqueous sol-gel route towards complex metal oxides containing tungsten“, XXIV konferencija Srpskog kristalografskog društva, Vršac, Serbia, 21.-24. 06. 2017.

15. **Igor Djerdj**, Berislav Markovic, Jelena Bijelic, Nikolina Filipovic, Brunislav Matasovic, Elvira Kovac Andric, Jasminka Popovic, Zeljko Skoko, Zvonko Jaglicic, Damir Pajic, Suraj Mal, Tobias Weller, Roland Marschall, Pascal Voepel, Christian Suchomski, Bernd Smarsly, "Aqueous sol-gel route towards selected quaternary metal oxides with single and double perovskite type structure containing tellurium or tungsten", 254th American

Chemical Society National Meeting & Exposition, Washington, DC. USA, August 20-24, 2017.

16. **Igor Djerdj**, Jelena Bijelić, Sven Urban, Paolo Dolcet, Limei Chen, Maren Möller, Silvia Gross, Peter J. Klar, Bernd Smarsly, Herbert Over „In-situ study of the oxygen-induced transformation of pyrochlore $\text{Ce}_2\text{Zr}_2\text{O}_{7+x}$ to the $\kappa\text{-Ce}_2\text{Zr}_2\text{O}_8$ phase”, YUCOMAT 2017, 04.-08. 09. 2017., Herceg Novi, Montenegro.

17. Jelena Bijelić, Chenwei Li, Bernd Smarsly, Herbert Over, **Igor Djerdj** „Shape-Controlled Synthesis of CeO_2 Nanoparticles: Effects of Different Precursors on the Formation of Oxygen Vacancies“, XXV konferencija Srpskog kristalografskog društva, Bajina Bašta, Serbia, 21.-23. 06. 2018.

18. **Igor Djerdj**, Berislav Marković, Sanja Petrušić, Sven Urban, Paolo Dolcet, Limei Chen, Maren Möller, Silvia Gross, Peter J. Klar, Bernd Smarsly, Herbert Over, „Oxygen-induced structural transformation of pyrochlore $\text{Ce}_2\text{Zr}_2\text{O}_{7+x}$ to the $\kappa\text{-Ce}_2\text{Zr}_2\text{O}_8$ phase”, Materials, Methods and Technologies, 20th International Conference, 26.-30. 06. 2018., Elenite, Bulgaria.

19. Jelena Bijelić, Anamarija Stanković, Brunislav Matasović, Berislav Marković, Mirjana Bijelić, Željko Skoko, Jasminka Popović, Goran Štefanić, Zvonko Jagličić, Sabrina Zellmer, Tobias Preller, Georg Garnweitner, **Igor Djerdj**, „Structural characterization and magnetic properties determination of nanocrystalline $\text{Ba}_3\text{Fe}_2\text{WO}_9$ and $\text{Sr}_3\text{Fe}_2\text{WO}_9$ perovskites prepared by the modified aqueous sol-gel route”, 7th EuCheMS Chemistry Congress, Liverpool, UK, 26.-30. 08. 2018.

20. **Igor Djerdj**, Jelena Bijelić, Chenwei Li, Bernd Smarsly, Herbert Over „Shape-Controlled Synthesis of CeO_2 Nanoparticles: Effects of Different Precursors on the Formation of Oxygen Vacancies; Stability and Activity in the Catalyzed Oxidation Reaction”, YUCOMAT 2018, 04.-08. 09. 2018., Herceg Novi, Montenegro.

21. J. Bijelić, A. Stanković, M. Medvidović-Kosanović, P. Cop, Y. Sun, A. Kukovecz, Z. Jagličić, S. Hajra, M. Sahu, B. Smarsly and **I. Djerdj**, The study of nanocrystalline ferrimagnetic semiconductor triple perovskite $\text{Sr}_3\text{Co}_2\text{WO}_9$ prepared by sol-gel route, Materials, Methods & Technologies, Burgas, Bulgaria, August 2020.

22. D. Tatar, Y. Sun, P. Cop, K. Omeir, T. Weber, C. Li, Y. Guo, K. Turke, S. Werner, J. Sann, B. Smarsly, H. Over, **I. Djerdj**, Ceria-zirconia solid solutions as possible constituents for Three-way catalysts towards CO oxidation, Materials, Methods & Technologies, Burgas, Bulgaria, August 2020.

23. J. Bijelić, D. Tatar, A. M. Milardović, A. Vicić, A. Stanković, P. Cop, S. Werner, Z. Jagličić, B. Smarsly, **I. Djerdj**, Advantage of solution methods towards synthesis of $\text{Sr}_3\text{Fe}_2\text{WO}_9$, 18th Ružička days "Today Science-Tomorrow Industry", Vukovar, Croatia, September 2020.

24. D. Tatar, J. Bijelić, A. Ivanković, P. Cop, S. Werner, B. Smarsly, **I. Djerdj**, The effect of nanomaterial shape on formation of oxygen vacancies: non-doped and doped ceria, 18th Ružička days "Today Science-Tomorrow Industry", Vukovar, Croatia, September 2020.

Uredništvo časopisa

Gost urednik časopisa Crystals - Special Issue "Rietveld Refinement in the Characterization of Crystalline Materials", Publisher MDPI, Basel, Switzerland, 2018., <https://www.mdpi.com/journal/crystals/special-issues/rietveld-refinement>

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1. ACS- Petroleum Research Fund
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1. Crystal Growth & Design
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4. The European Physical Journal
5. Materials Chemistry and Physics

6. Journal of Alloys and Compounds
7. Journal of Physics and Chemistry of Solids
8. Physical Chemistry Chemical Physics
9. Journal of the American Chemical Society
10. Journal of Nanomaterials
11. Materials Research Bulletin
12. Journal of Materials Chemistry
13. Physica B
14. Dalton Transactions
15. Crystal Engineering Communications
16. Nanoscale
17. The Journal of Physical Chemistry
18. Langmuir
19. Scripta Materialia
20. Materials

Članstvo u odborima za obranu doktorata:

1. Thanveer Thajudheen, "Spectroscopic Investigation of oxygen vacancies in CeO₂", University of Nova Gorica, Nova Gorica, Slovenija, 14. 09. 2021.

Ukupna citiranost (WoS)
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38

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Popis publikacija

ZNANSTVENI RADOVI OBJAVLJENI U ČASOPISIMA INDEKSIRANIM U WoS-U:

103. Srijita Nundy, Dalibor Tatar, Jelena Kojčinović, Habib Ullah, Aritra Ghosh, Tapas K. Mallick, Rafael Meinus, Bernd M. Smarsly, Asif Ali Tahir, and **Igor Djerdj***, Band gap Engineering in Novel Fluorite-Type Rare Earth High-Entropy Oxides (RE-HEOs) with Computational and Experimental Validation for Photocatalytic Water Splitting Applications, *Adv. Sustainable Syst.*, **2200067** (2022) (IF: 6.271).
102. Jelena Kojčinović, Manisha Sahu, Sugato Hajra, Dalibor Tatar, Teodoro Klaser, Željko Skoko, Zvonko Jagličić, Elaheh Sadrollahi, Fred Jochen Litterst, Hoe Joon Kim and **Igor Djerdj***, Nanocrystalline triple perovskite compounds $A_3Fe_2BO_9$ (A = Sr, Ba; B = W, Te) with ferromagnetic and dielectric properties for triboelectric energy harvesting, *Mater. Chem. Front.*, **6** (2022) 116-128 (IF: 6.482).
101. Dalibor Tatar, Jelena Kojcinovic, Berislav Markovic, Alexandar Szechenyi, Aleksandar Miletic, Sandor Balazs Nagy, Szilveszter Ziegenheim, Imre Szenti, Andras Sapi, Akos Kukovecz, Kristijan Dinjar, Yushu Tang, David Stenzel, Gabor Varga, **Igor Djerdj***, Sol-Gel Synthesis of Ceria-Zirconia-Based High-Entropy Oxides as High-Promotion Catalysts for the Synthesis of 1,2-Diketones from Aldehyde, *Molecules*, **26** 20 (2021) 6115 (IF: 4.412).
100. Tomislav Balić, Zvonko Jagličić, Elaheh Sadrollah, Fred Jochen Litterst, Marta Počkaj, Dirk Baabe, Elvira Kovač-Andrić, Jelena Bijelić, Dajana Gašo-Sokač, and **Igor Djerdj***, Single Crystal Growth, Structural Characterization and Magnetic Properties Study of an Antiferromagnetic Trinuclear Iron(III) Acetate Complex with Uncoordinated Hexamine, *Inorg. Chim. Acta*, **520**, (2021) 120292. (IF: 2.304)
99. Manisha Sahu, Sugato Hajra, Jelena Bijelic, Dongik OH, **Igor Djerdj***, Hoe Joon Kim*, Triple Perovskites Based Triboelectric Nanogenerator: A Facile Method of Energy Harvesting and Self-Powered Information Generator, *Mater. Today Energy*, **20**, (2021) 100639. (IF: 5.604)
98. Melanie Sieland, Valentine Genot, **Igor Djerdj**, and Bernd M. Smarsly, Synthesis of $Ti(OH)OF \cdot 0.66 H_2O$ in Imidazolium-based Ionic Liquids, *ChemistryOpen*, **9**, (2020), 1-9. (IF: 2.37)
97. Jelena Bijelić, Dalibor Tatar, Manisha Sahu, Zvonko Jagličić, **Igor Djerdj***, Size-Reduction Induced Properties Modifications of Antiferromagnetic Dielectric Nanocrystalline Ba_2NiMO_6 (M = W, Te) Double Perovskites, *Oxford Open Materials Science*, **1** 1 (2021), 1-9.
96. Jelena Bijelić, Dalibor Tatar, Sugato Hajra, Manisha Sahu, Sang Jae Kim, Zvonko Jagličić and **Igor Djerdj***, Nanocrystalline Antiferromagnetic High-κ Dielectric Sr_2NiMO_6 (M = Te, W) with Double Perovskite Structure Type, *Molecules*, **25** 17 (2020), 3996. (IF: 3.267)
95. Omeir Khalid, Tim Weber, Goran Drazic, **Igor Djerdj**, and Herbert Over, Mixed $Ru_xIr_{1-x}O_2$ oxide catalyst with well-defined and varying composition applied to the CO Oxidation, *J. Phys. Chem. C*, **124** 34 (2020), 18670-18683. (IF: 4.189)
94. Pascal Cop, Ruben Maile, Yu Sun, Omeir Khalid, **Igor Djerdj**, Patrick Esch, Sven Heiles, Herbert Over, and Bernd M. Smarsly, The Impact of Alio-/Isovalent Ions (Gd, Zr, Pr and Tb) on the Catalytic Stability of Mesoporous Ceria in the HCl Oxidation Reaction, *ACS Appl. Nano Mater.*, **3** 8 (2020), 7406-7419.
93. Yu Sun, Franziska Hess, **Igor Djerdj**, Zheng Wang, Tim Weber, Yanglong Guo, Bernd M. Smarsly, and Herbert Over, Reactivation of CeO_2 -based Catalysts in the HCl Oxidation

Reaction: *In situ* Quantification of the Degree of Chlorination and Kinetic Modeling, *ChemCatChem*, **12** (2020), 5511– 5522. (IF: 4.853)

92. Gábor Varga, Marianna Kocsis, Ákos Kukovecz, Zoltán Kónya, **Igor Djerđj**, Pál Sipos, István Pálínkó, Cu^{II}BiOI is an efficient novel catalyst in Ullmann-type CN- couplings with wide scope—A rare non-photocatalytic application, *Mol. Catal.* **493** (2020), 111072 (1-8). (IF: 2.938)

91. Jelena Bijelić, Anamarija Stanković, Martina Medvidović-Kosanović, Berislav Marković, Pascal Cop, Yu Sun, Sugato Hajra, Manisha Sahu, Jelena Vukmirović, Dean Marković, Akos Kukovecz, Zvonko Jagličić, Bernd M. Smarsly, and **Igor Djerđj***, Rational Sol-Gel-Based Synthesis Design and Magnetic, Dielectric, and Optical Properties Study of Nanocrystalline Sr₃Co₂WO₉ Triple Perovskite, *J. Phys. Chem. C* **124** 23 (2020), 12794-12807. (IF: 4.309)

90. Pascal Voepel, Melanie Sieland, Junpei Yue, **Igor Djerđj** and Bernd Smarsly, Ionic Liquid-Mediated Low-Temperature Formation of Hexagonal Titanium-Oxyhydroxyfluoride Particles, *CrystEngComm*, **22** (2020), 1568-1576. (IF: 3.382)

89. Yu Sun, Pascal Cop, **Igor Djerđj**, Xiaohan Guo, Tim Weber, Omeir Khalid, Yanglong Guo, Bernd M. Smarsly, and Herbert Over, CeO₂ Wetting Layer on ZrO₂ Particle with Sharp Solid Interface as Highly Active and Stable Catalyst for HCl Oxidation Reaction, *ACS Catal.* **9** (2019), 10680-10693. (IF: 12.221)

88. Min Liao, Bin-Bin Yu, Zhixin Jin, Wei Chen, Yudong Zhu, Xusheng Zhang, Weitang Yao, Tao Duan, **Igor Djerđj**, Zhubing He, Efficient and Stable FASnI₃ Perovskite Solar Cells with Effective Interface Modulation by Low-Dimensional Perovskite Layer, *ChemSusChem* **12** 22 (2019) 5007-5014. (IF: 7.804)

87. Yu Sun, Chenwei Li, **Igor Djerđj**, Omeir Khalid, Pascal Cop, Joachim Sann, Tim Weber, Sebastian Werner, Kevin Turke, Yanglong Guo, Bernd M. Smarsly and Herbert Over, Oxygen storage capacity versus catalytic activity of ceria-zirconia solid solutions in CO and HCl oxidation, *Catal. Sci. Technol.*, **9** (2019), 2163-2172. (IF: 5.365)

86. Jelena Bijelić, Anamarija Stankovic, Brunislav Matasović, Berislav Marković, Mirjana Bijelić, Željko Skoko, Jasminka Popović, Goran Stefanic, Zvonko Jaglicic, Sabrina Zellmer, Tobias Preller, Georg Garnweitner, Tamara Đorđević, Pascal Cop, Bernd Smarsly and **Igor Djerđj***, Structural characterization and magnetic property determination of nanocrystalline Ba₃Fe₂WO₉ and Sr₃Fe₂WO₉ perovskites prepared by the modified aqueous sol-gel route, *CrystEngComm*, **21** 2 (2019), 218-227. (IF: 3.304)

85. Chenwei Li, Yu Sun, Franziska Hess, **Igor Djerđj**, Joachim Sann, Pascal Voepel, Pascal Cop, Yanglong Guo, Bernd Smarsly, Herbert Over, Catalytic HCl oxidation reaction: Stabilizing effect of Zr-doping on CeO₂ nano-rods, *Appl. Catal., B*, **239** (2018), 628-635. (IF: 8.328)

84. Chenwei Li, Franziska Hess, **Igor Djerđj**, Guangtao Chai, Yu Sun, Yanglong Guo, Bernd Smarsly, Herbert Over, The stabilizing effect of water and high reaction temperatures on the CeO₂-catalyst in the harsh HCl oxidation reaction, *J. Catal.*, **357** (2018), 257-262. (IF: 6.844)

83. Sven Urban, **Igor Djerđj**, Paolo Dolcet, Limei Chen, Maren Moeller, Omeir Khalid, Hava Camuka, Rudiger Ellinghaus, Chenwei Li, Silvia Gross, Peter J. Klar, Bernd Smarsly, and Herbert Over, In Situ Study of the Oxygen-Induced Transformation of Pyrochlore Ce₂Zr₂O_{7+x} to the κ-Ce₂Zr₂O₈ Phase, *Chem. Mater.*, **29** (2017) 9218–9226. (IF: 9.466)

82. Qian Sun, Mirjana Bijelić, Aleksandra B. Djuricic, Christian Suchomski, Xiang Liu, Maohai Xie, Alan M. C. Ng, Hangkong Li, Kaimin Shih, Sanja Burazer, Željko Skoko, **Igor Djerđj**, Jasminka Popović, Graphene-oxide-wrapped ZnMn₂O₄ as a high performance

lithium-ion battery anode, *Nanotechnology*, **28** (2017), 455401. (IF: 3.44)

81. Chenwei Li, Yu Sun, **Igor Đerdj**, Pascal Vöpel, Tobias Weller, Joachim Sann, Rüdiger Ellinghaus, Yanglong Guo, Bernd M. Smarsly, Herbert Over, Shape-Controlled CeO₂ Nanoparticles: Stability and Activity in the Catalyzed HCl Oxidation Reaction, *ACS Catalysis*, **7** (2017), 6453-6463. (IF: 10.614)

80. C. Suchomski, D. J. Weber, P. Dolcet, A. Hofmann, P. Voepel, J. Yue, M. Einert, M. Moller, S. Werner, S Gross, **I. Đerdj**, T. Brezesinski, B. M. Smarsly, Sustainable and surfactant-free high-throughput synthesis of highly dispersible zirconia nanocrystals, *J. Mater. Chem. A*, **5** (2017), UNSP 16296. (IF: 8.867)

79. Chengjun Dong, Xu Liu, Hongtao Guan, Gang Chen, Xuechun Xiao, **Igor Đerdj**, Yude Wang, Combustion synthesized hierarchically porous WO₃ for selective acetone sensing, *Mater. Chem. Phys.*, **184** (2016), 155-161. (IF: 2.101)

78. **Igor Đerdj***, Jasminka Popović, Suraj Mal, Tobias Weller, Marko Nuskol, Zvonko Jagličić, Željko Skoko, Damir Pajić, Christian Suchomski, Pascal Voepel, Roland Marschall, Bojan Kozlevčar, and Bernd M. Smarsly, Aqueous Sol-Gel Route toward Selected Quaternary Metal Oxides with Single and Double Perovskite-Type Structure Containing Tellurium, *Cryst. Growth Des.*, **16** (2016), 2535-2541. (IF: 4.425)

77. Sven Urban, Paolo Dolcet, Maren Möller, Limei Chen, Peter J. Klar, **Igor Đerdj**, Silvia Gross, Bernd M. Smarsly, Herbert Over, Synthesis and full characterization of the phase-pure pyrochlore Ce₂Zr₂O₇ and the κ-Ce₂Zr₂O₈ phases, *Appl. Catal., B*, **197** (2016), 23-34. (IF: 8.328)

76. Chengjun Dong, Lihong Wang, Gang Chen, Xuechun Xiao, **Igor Đerdj** and Yude Wang, Facile synthesis of CuO micro-sheets over Cu foil in oxalic acid solution and their sensing properties towards *n*-butanol, *J. Mater. Chem. C*, **4** (2016), 985 – 990. (IF: 4.696)

75. Bingqian Han, Nan Chen, Dongyang Deng, Shaojuan Deng, **Igor Đerdj*** and Yude Wang, Enhancing phosphate removal from water by using ordered mesoporous silica loaded with samarium oxide, *Anal. Methods*, **7** (2015), 10052-10060. (IF: 1.821)

74. Qing Li, Nan Chen, Xinxin Xing, Xuechun Xiao, Yude Wang, **Igor Đerdj***, NiO nanosheets assembled into hollow microspheres for highly sensitive and fast-responding VOC sensors, *RSC Adv.*, **5** (98), (2015), 80786-80792. (IF: 3.84)

73. Jincheng Fan, Tengfei Li, **Igor Đerdj***, Two-Dimensional Atomic Crystals: Paving New Ways for Nanoelectronics, *J. Electron. Mater.*, **44** (11) (2015), 4080-4097. (IF: 1.798)

72. Jincheng Fan, Tengfei Li, Hang Heng, Berislav Markovic, **Igor Đerdj***, The fabrication of ZnO microrods on monolayer graphene and their photocatalytic application, *Acta Chim. Slov.*, **62** (4) (2015), 902-909. (IF: 0.686)

71. Xu Liu, Nan Chen, Bingqian Han, Xuechun Xiao, Gang Chen, **Igor Đerdj***, and Yude Wang, Nanoparticle cluster gas sensor: Pt activated SnO₂ nanoparticles for NH₃ detection with ultrahigh sensitivity, *Nanoscale*, **7** (36), (2015), 14872-14880. (IF: 7.394)

70. Helena Kaper, **Igor Đerdj***, Silvia Gross, Heinz Amenitsch, Markus Antonietti, and Bernd M. Smarsly, Ionic liquid- and surfactant-controlled crystallization of WO₃ films *Phys. Chem. Chem. Phys.* **17** (27) (2015), 18138-18145. (IF: 4.493)

69. Mirjana Bijelić, Xiang Liu, Q. Sun, Aleksandra B. Djurišić, Mao Hai Xie, Alan M. C. Ng, Christian Suchomski, **Igor Djerdj**, Željko Skoko, and Jasminka Popović, Long cycle life of CoMn_2O_4 lithium ion battery anodes with high crystallinity, *J. Mater. Chem. A*, **3** (28), (2015), 14759-14767. (IF: 7.443)
68. Xu Liu, Nan Chen, Xinxin Xing, Yuxiu Li, Xuechun Xiao, Yude Wang, and **Igor Djerdj***, A high-performance n-butanol gas sensor based on ZnO nanoparticles synthesized by a low-temperature solvothermal route, *RSC Adv.*, **5** (67), (2015), 54372-54378. (IF: 3.84)
67. Tamara Dordevic, Astrid Wittwer, Zvonko Jaglicic, **Igor Djerdj**, Hydrothermal synthesis of single crystal CoAs_2O_4 and NiAs_2O_4 compounds and their magnetic properties, *RSC Adv.*, **5** (2014), 18280-18287. (IF: 3.708)
66. Xu Liu, Xinxin Xing, Yuxiu Li, Nan Chen, **Igor Djerdj** and Yude Wang, Controllable synthesis and change of emission color from green to orange of ZnO quantum dots using different solvents, *New J. Chem.*, **39** (2015), 2881 – 2888. (IF: 3.159)
65. Chengjun Dong, Xuechun Xiao, Gang Chen, Hongtao Guan, Yude Wang and **Igor Djerdj**, Porous NiO nanosheets self-grown on alumina tube using a novel flash synthesis and their gas sensing properties, *RSC Adv.*, **5** (2014), 4880-4885. (IF: 3.708)
64. Chengjun Dong, Xu Liu, Xuechun Xiao, Gang Chen, Yude Wang and **Igor Djerdj***, Combustion synthesis of porous Pt-functionalized SnO_2 sheets for isopropanol gas detection with a significant enhancement in response, *J. Mater. Chem. A*, **2** (2014), 20089 – 20095. (IF: 7.443)
63. M. Ivanda, D. Car, L. Mikac, D. Ristic, V. Derek, **I. Djerdj**, G. Stefanic, S. Music, Acoustic vibrations of amorphous and crystalline $\text{ZrO}_2\text{-TiO}_2$ nanoparticles, *J. Mol. Struct.*, **1073** (2014), 119-124. (IF: 1.599)
62. Xiaoyan Cai, Bingqian Han, Shaojuan Deng, Yan Wang, Chengjun Dong, Yude Wang, and **Igor Djerdj***, Hydrothermal growth of ZnO nanorods on Zn substrates and their application in degradation of azo dyes under ambient conditions, *CrystEngComm*, **16** (2014), 7761-7770. (IF: 3.858)
61. Dan Hu, Bingqian Han, Shaojuan Deng, Zhipeng Feng, Yan Wang, Jasminka Popovic, Marko Nuskol, Yude Wang, and **Igor Djerdj***, Novel Mixed Phase SnO_2 Nanorods Assembled with SnO_2 Nanocrystals for Enhancing Gas-Sensing Performance toward Isopropanol Gas, *J. Phys. Chem. C*, **118** (2014), 9832-9840. (IF: 4.835)
60. Christian Suchomski, Christian Reitz, Damir Pajic, Zvonko Jaglicic, **Igor Djerdj**, and Torsten Brezesinski, Large-Pore Mesoporous $\text{Ho}_3\text{Fe}_5\text{O}_{12}$ Thin Films with a Strong Room-Temperature Perpendicular Magnetic Anisotropy by Sol-Gel Processing, *Chem. Mater.* **26** (2014), 7; 2337–2343. (IF: 8.535)
59. Nives Kitanovski, Nataša Borsan, Marta Kasunič, Vojmir Francetič, Jasminka Popović, **Igor Djerdj**, Xavier Rocquefelte, Jan Reedijk, Bojan Kozlevčar, Chromium coordination compounds with bis(3,5-dimethylpyrazol-1-yl)acetic acid or its anion, *Polyhedron*, **70** (2014), 119-124. (IF: 2.047)
58. Dajana Japić, **Igor Djerdj**, Marjan Marinšek, Zorica Crnjak Orel, In Situ and Ex Situ TEOS Coating of ZnO Nanoparticles and the Preparation of Composite ZnO/PMMA for UV-VIS Absorbers, *Acta Chim. Slov.*, **60** (2013), 4; 797-806. (IF: 1.135)

57. Xiaoyan Cai, Yun Cai, Yongjuan Liu, Shaojuan Deng, Yan Wang, Yude Wang, **Igor Djerdj**, Photocatalytic degradation properties of Ni(OH)₂ nanosheets/ZnO nanorods composites for azo dyes under visible-light irradiation, *Ceram. Int.*, **40** (2014), 1A; 57-65. (IF: 2.086)
56. Christian Reitz, Christian Suchomski, Venkata Sai Kiran Chakravadhanula, **Igor Djerdj**, Zvonko Jagličić, and Torsten Brezesinski, Structural and Magnetic Properties of Ordered Mesoporous CdFe₂O₄ Thin Film Spin Glasses Prepared through Block Copolymer Templating, *Inorg. Chem.*, **52** (2013), 7; 3744-3754. (IF: 4.794)
55. He Li, Guofeng Wang, Fei Zhang, Yun Cai, Yude Wang and **Igor Djerdj***, Surfactant-assisted synthesis of CeO₂ nanoparticles and their application in wastewater treatment, *RSC Adv.*, **2** (2012), 12413-12423. (IF: 3.708)
54. Fei Zhang, Yongjun Liu, Yun Cai, He Li, Xiaoyan Cai, **Igor Djerdj**, and Yude Wang, A facial method to synthesize Ni(OH)₂ nanosheets for improving the adsorption properties of Congo red in aqueous solution, *Powder Technol.*, **235** (2013), 121-125. (IF: 2.269)
53. Jan Haetge, **Igor Djerdj**, Torsten Brezesinski, Nanocrystalline NiMoO₄ with Ordered Mesoporous Morphology as Potential Material for Rechargeable Thin Film Lithium Batteries, *Chem. Commun.*, **48** (2012), 6726-6728. (IF: 6.718)
52. Christian Reitz, Christian Suchomski, Jan Haetge, Thomas Leichtweiss, Zvonko Jagličić, **Igor Djerdj**, and Torsten Brezesinski, Soft-Templating Synthesis of Mesoporous Magnetic CuFe₂O₄ Thin Films with Ordered 3D Honeycomb Structure and Partially Inverted Nanocrystalline Spinel Domains, *Chem. Commun.*, **48** (2012), 4471-4473. (IF: 6.718)
51. **Igor Djerdj***, Jasminka Popović, Jernej Stare, Gabriela Ambrožić, Srečo D. Škapin, Bojan Kozlevčar, Damir Pajić, Zvonko Jagličić, and Zorica Crnjak Orel, Nanocrystalline hybrid inorganic-organic one-dimensional chain system tailored with 2 and 3-phenyl rings monocarboxylic acids, *J. Mater. Chem.* **22** (2012), 20; 10255 - 10265. (IF: 6.626)
50. Jin-Ming Wu, **Igor Djerdj**, Till von Graberg, Bernd M. Smarsly, Mesoporous MgTa₂O₆ Thin Films with Enhanced Photocatalytic Activity – On the Interplay between Crystallinity and Mesostructure, *Beilstein Journal of Nanotechnology* **3** (2012), 123–133. (IF: 2.332)
49. Zoran Jakšić, Zora Popović, **Igor Djerdj**, Željko K. Jaćimović, and Katarina Radulović, Functionalization of plasmonic metamaterials utilizing metal-organic framework thin films, *Phys. Scr.* **T149** (2012), 014051-1-014051-4. (IF: 1.296)
48. **Igor Djerdj***, Srečo D. Škapin, Miran Čeh, Zvonko Jagličić, Damir Pajić, Bojan Kozlevčar, Bojan Orel, Zorica Crnjak Orel, Interplay between the Structural and Magnetic Probes in Elucidation of the Structure of Novel 2D Layered V₄O₄(OH)₂(O₂CC₆H₄CO₂)₄·DMF. *Dalton Trans.* **41** (2012), 2; 581-589. (IF: 4.097)
47. Krunoslav Juraić, Davor Gracin, **Igor Djerdj**, Andrea Lausi, Miran Čeh, Davor Balzar, Structural Analysis of Amorphous-Nanocrystalline Silicon Thin Films by Grazing Incidence X-ray Diffraction. *Nucl. Instrum. Methods Phys. Res., Sect. B* **284** (2012), 78-82. (IF: 1.186)
46. **Igor Djerdj***, Davor Gracin, Krunoslav Juraić, Daniel Meljanac, Ivančica Bogdanović-Radović, Galja Pletikapić, Structural analysis of monolayered and

bilayered SnO₂ thin films. *Surf. Coat. Technol.*, **211** (2012), 24-28. (IF: 2.199)

45. Idalia Bilecka, Li Luo, **Igor Djerdj**, Marta D. Rossell, Marko Jagodič, Zvonko Jagličić, Yuji Masubuchi, Shinichi Kikkawa, Markus Niederberger, Microwave-Assisted Nonaqueous Sol-Gel Chemistry for Highly Concentrated ZnO-Based Magnetic Semiconductor Nanocrystals. *J. Phys. Chem. C.*, **115** (2011), 5; 1484-1495. (IF: 4.835)

44. Claas Wessel, Liang Zhao, Sven Urban, Rainer Ostermann, **Igor Djerdj**, Bernd M. Smarsly, Liquan Chen, Yong-Sheng Hu, Sébastien Sallard, Soft and Fast Ionic Liquid Synthesis Route of TiO₂ (B) Nanoparticles for Functionalized Materials, *Chem.-Eur. J.* **17** (2011), 3; 775-779. (IF: 5.696)

43. Yude Wang, Bernd Smarsly, **Igor Djerdj**, Niobium doped TiO₂ with mesoporosity and its application for lithium batteries, *Chem. Mater.* **22** (2010), 24; 6624-6631. (IF: 8.535)

42. Jelena Buha, Denis Arčon, Markus Niederberger, **Igor Djerdj**, Solvothermal and surfactant-free synthesis of crystalline Nb₂O₅, Ta₂O₅, HfO₂, and Co-doped HfO₂ nanoparticles, *Phys. Chem. Chem. Phys.* **12** (2010), 47; 15537-15543. (IF: 4.198)

41. **Igor Djerdj***, Zvonko Jagličić, Denis Arčon, Markus Niederberger, Co-Doped ZnO nanoparticles: Minireview, *Nanoscale* **2** (2010), 7; 1096-1104. (IF: 6.739)

40. Gabriela Ambrožič, **Igor Djerdj**, Srečo D. Škapin, Majda Žigon, Zorica Crnjak Orel, The double role of p-toluenesulfonic acid in the formation of ZnO particles with different morphologies, *Crystengcomm* **12** (2010), 6; 1862-1868. (IF: 3.858)

39. Helena Kaper, Sebastien Sallard, **Igor Djerdj**, Markus Antonietti, Bernd M. Smarsly, Toward a Low-Temperature Sol-Gel Synthesis of TiO₂(B) Using Mixtures of Surfactants and Ionic Liquids, *Chem. Mater.* **22** (2010), 11; 3502-3510. (IF: 8.535)

38. **Igor Djerdj**, Alexander Haensch, Dorota Koziej, Suman Pokhrel, Nicolae Barsan, Udo Weimar, and Markus Niederberger, Neodymium Dioxide Carbonate as a Sensing Layer for Chemoresistive CO₂ Sensing, *Chem. Mater.* **21** (2009), 22; 5375-5381. (IF: 8.535)

37. Idalia Bilecka, Andreas Hintennach, **Igor Djerdj**, Petr Novak, Markus Niederberger, Efficient microwave-assisted synthesis of LiFePO₄ mesocrystals with high cycling stability, *J. Mater. Chem.* **19** (2009) 5125-5128. (IF: 6.626)

36. Minhua Cao, **Igor Djerdj***, Zvonko Jagličić, Markus Antonietti, and Markus Niederberger, Layered hybrid organic-inorganic nanobelts exhibiting a field-induced magnetic transition, *Phys. Chem. Chem. Phys.* **11** (2009) 29 6166-6172. (IF: 3.858)

35. Yude Wang, **Igor Djerdj**, Bernd Smarsly, and Markus Antonietti, Antimony-Doped SnO₂ Nanopowders with High Crystallinity for Lithium-Ion Battery Electrode, *Chem. Mater.* **21** (2009) 3202-3209. (IF: 8.535)

34. **Igor Djerdj***, Minhua Cao, Xavier Rocquefelte, Radovan Černý, Zvonko Jagličić, Denis Arčon, Anton Potočnik, Fabia Gozzo, Markus Niederberger, Structural Characterization of a Nanocrystalline Inorganic-Organic Hybrid with Fiber-Like Morphology and One-Dimensional Antiferromagnetic Properties, *Chem. Mater.* **21** (2009) 3356-3369. (IF: 8.535)

33. Andreja Gajović, Ana Šantić, **Igor Djerdj**, Nenad Tomašić, Andrea Moguš-Milanković, Dang Sheng Su, Structure and electrical conductivity of porous zirconium titanate ceramics produced by mechanochemical treatment and sintering,

- J. Alloys Compd.* **479** (2009) 525-531. (IF: 2.726)
32. Helena Kaper, Marc-Georg Willinger, **Igor Đerdj**, Silvia Gross, Markus Antonietti, Bernd M. Smarsly, IL-assisted synthesis of V₂O₅ nanocomposites and VO₂ nanosheets, *J. Mater. Chem.* **18** (2008) 5761-5769. (IF: 6.626)
31. **Igor Đerdj***, Georg Garnweitner, Denis Arčon, Matej Pregelj, Zvonko Jagličić, Markus Niederberger, Diluted magnetic semiconductors: Mn/Co-doped ZnO nanorods as case study, *J. Mater. Chem.* **18** (2008) 5208-5217. (IF: 6.626)
30. Yude Wang, **Igor Đerdj**, Markus Antonietti, Bernd Smarsly, Polymer-assisted generation of antimony-doped SnO₂ nanoparticles with high crystallinity for application in gas sensor, *Small* **10** (2008) 1656-1660. (IF: 7.823)
29. Maja Buljan, Iva Bogdanović Radović, Uroš V. Desnica, Mile Ivanda, Milko Jakšić, Cecile Saguy, Rafi Kalish, **Igor Đerdj**, Anđelka Tonejc, Ozren Gamulin, Implantation conditions for diamond nanocrystals formation in amorphous silica, *J. Appl. Phys.* **104** (2008), 034315. (IF: 2.185)
28. **Igor Đerdj**, Denis Sheptyakov, Fabia Gozzo, Denis Arčon, Reinhard Nesper, Markus Niederberger, Oxygen Self-Doping in Hollandite-Type Vanadium Oxyhydroxide Nanorods, *J. Am. Chem. Soc.* **130** (2008), 11364-11375. (IF: 11.444)
27. **Igor Đerdj***, Denis Arčon, Zvonko Jagličić, Markus Niederberger, Nonaqueous synthesis of metal oxide nanoparticles: Short review and doped titanium dioxide as case study for the preparation of transition metal doped oxide nanoparticles, *J. Solid State Chem.* **181** (2008), 1571-1581. (IF: 2.200)
26. Andreja Gajović, Nenad Tomašić, **Igor Đerdj**, Dangsheng Su, Krešimir Furić, Influence of mechanochemical processing to luminescence properties in Y₂O₃ powder, *J. Alloys Compd.* **456** (2008), 313-319. (IF: 2.726)
25. Andreja Gajović, Davor Gracin, **Igor Đerdj**, Nenad Tomašić, Krunoslav Juračić, Dang Sheng Su, Nanostructure of thin silicon films by combining HRTEM, XRD and Raman spectroscopy measurements and the implication to the optical properties, *Appl. Surf. Sci.* **254** (2008), 9; 2748-2754. (IF: 2.538)
24. Lizhi Zhang, Georg Garnweitner, **Igor Đerdj**, Markus Antonietti, Markus Niederberger, Generalized Nonaqueous Sol-Gel Synthesis of Different Transition Metal Niobate Nanocrystals and Analysis of the Growth Mechanism, *Chem. - Asian J.* **3** (2008), 4; 746-752. (IF: 3.935)
23. Idalia Bilecka, **Igor Đerdj**, Markus Niederberger, One-minute synthesis of crystalline binary and ternary metal oxide nanoparticles, *Chem. Commun.* **7** (2008), 886-888. (IF: 6.718)
22. M. Ivanda, K. Furic, S. Music, M. Ristic, M. Gotic, D. Ristic, A. M. Tonejc, I. **Đerdj**, M. Mattarelli, M. Montagna, F. Rossi, M. Ferrari, A. Chiasera, Y. Jestin, G. C. Righini, W. Kiefer, R. Goncalves, Low Wavenumber Raman Scattering of Nanoparticles and Nanocomposite Materials, *J. Raman Spectrosc.* **38** (2007), 647-659. (IF: 2.519)
21. Vesna Ličina, Andreja Gajović, Andrea Moguš-Milanković, **Igor Đerdj**, Nenad Tomašić, Dangsheng Su, Correlation between the microstructure and the electrical properties of ZrTiO₄ ceramics, *J. Am. Ceram. Soc.* **91** (2008), 1; 178-186. (IF: 2.428)
20. Helena Kaper, Frank Endres, **Igor Đerdj**, Markus Antonietti, Bernd Smarsly,

- Joachim Maier and Yong-Sheng Hu, Direct Low Temperature Synthesis of Rutile Nanostructures in Ionic Liquids, *Small* **3** (2007), 10; 1753-1763. (IF: 7.823)
19. **Igor Đerdj**, Georg Garnweitner, Dang Sheng Su, and Markus Niederberger, Morphology-controlled nonaqueous synthesis of anisotropic lanthanum hydroxide nanoparticles, *J. Solid State Chem.* **180** (2007), 7; 2154-2165. (IF: 2.200)
18. Lizhi Zhang, **Igor Đerdj**, Minhua Cao, Markus Antonietti, Markus Niederberger, Nonaqueous sol-gel synthesis of nanocrystalline InNbO_4 visible light photocatalyst, *Adv. Mater.* **19** (2007), 2083-2086. (IF: 15.409)
17. Nikola Radić, Pavo Dubček, Sigrid Bernstorff, **Igor Đerdj**, Anđelka Tonejc, Structural Study of Nanocrystalline Nickel Thin Films, *J. Appl. Crystallogr.* **40** (2007), 377-382. (IF: 3.950)
16. Davor Gracin, Krunoslav Juraić, Andreja Gajović, Pavo Dubček, **Igor Đerdj**, Nenad Tomašić, Sanja Krajinović, Milorad Milun, Sigrid Bernstorff, The influence of post deposition plasma treatment on SnO_x structural properties, *Vacuum* **82** (2007), 2; 266-269. (IF: 1.426)
15. Minhua Cao, **Igor Đerdj**, Markus Antonietti, Markus Niederberger, Non-aqueous synthesis of colloidal ZnGa_2O_4 nanocrystals and their photoluminescence properties, *Chem. Mater.* **19** (2007), 24; 5830-5832. (IF: 8.535)
14. Jelena Buha, **Igor Đerdj**, Markus Antonietti, Markus Niederberger, Thermal Transformation of Metal Oxide Nanoparticles into Nanocrystalline Metal Nitrides Using Cyanamide and Urea as Nitrogen Source, *Chem. Mater.* **19** (2007), 14; 3499-3505. (IF: 8.535)
13. **Igor Đerdj***, Denis Arčon, Zvonko Jagličić, Markus Niederberger, Nonaqueous Synthesis of Manganese Oxide Nanoparticles, Structural Characterization and Magnetic Properties, *J. Phys. Chem. C* **111** (2007), 9; 3614-3623. (IF: 4.835)
12. Jelena Buha, **Igor Đerdj**, Markus Niederberger, Nonaqueous Synthesis of Nanocrystalline Indium Oxide and Zinc Oxide in the Oxygen-Free Solvent Acetonitrile, *Cryst. Growth Des.* **7** (2007), 1; 113-116. (IF: 4.558)
11. Mirjana Metikoš-Huković, Zoran Grubač, Nikola Radić, Pavo Dubček, **Igor Đerdj**, The Influence of Local Structure of Nanocrystalline Ni Films on the Catalytic Activity, *Electrochem. Commun.* **9** (2007), 299-302. (IF: 4.287)
10. A. Gajović, **I. Đerdj**, K. Furić, R. Schlögl, and Dangsheng Su, Preparation of nanostructured ZrTiO_4 by solid state reaction in equimolar mixture of TiO_2 and ZrO_2 , *Cryst. Res. Technol.* **41** (2006), 11; 1076-1081. (IF: 1.164)
9. Tongwen Wang, Ozlem Sel, **Igor Đerdj**, Bernd Smarsly, Preparation of a Novel Large Mesoporous CeO_2 with Crystalline Walls Using PMMA Colloidal Crystal Templates, *Colloid Polym. Sci.* **285** (2006), 1; 1-9. (IF: 2.410)
8. Jianhua Ba, Dina Fattakhova Rohlfing, Armin Feldhoff, Torsten Brezesinski, **Igor Đerdj**, Michael Wark, Markus Niederberger, Nonaqueous Synthesis of Uniform Indium Tin Oxide Nanocrystals and Their Electrical Conductivity in Dependence on the Tin Oxide Concentration, *Chem. Mater.* **18** (2006), 2848-2854. (IF: 8.535)
7. A. Gajović, K. Furić, S. Musić, **I. Đerdj**, A. Tonejc, A. M. Tonejc, D. S. Su, R. Schlögl, Synthesis of ZrTiO_4 by solid state reaction in equimolar mixture of TiO_2 and ZrO_2 , *J. Am. Ceram. Soc.* **89** (2006), 7; 2196-2205. (IF: 2.428)

6. **I. Đerđj***, A. M. Tonejc, M. Bijelić, M. Buljan, U. V. Desnica, and R. Kalish, Transmission electron microscopy study of carbon nanophases produced by ion beam implantation, *Mater. Sci. Eng., C* **26** (2006), 5-7; 1202-1206. (IF: 2.736)
5. **I. Đerđj***, A. M. Tonejc, M., Bijelić, V. Vraneša, and A. Turković, Transmission electron microscopy studies of nanostructured TiO₂ films on different substrates, *Vacuum* **80** (2005), 4; 371-378. (IF: 1.426)
4. **I. Đerđj***, A. M. Tonejc, A. Tonejc and N. Radić, XRD line profile analysis of tungsten thin films, *Vacuum* **80** (2005), 1-3; 151-158. (IF: 1.426)
3. **I. Đerđj***, and A. M. Tonejc, Structural investigations of nanocrystalline TiO₂ samples, *J. Alloys Compd.* **413** (2006), 1-2; 159-174. (IF: 2.726)
2. A. M. Tonejc, **I. Đerđj**, and A. Tonejc, An analysis of evolution of grain size-lattice parameters dependence in nanocrystalline TiO₂ anatase, *Mater. Sci. Eng., C* **19** (2001),1-2; 85-89. (IF: 2.736)
1. A. M. Tonejc, **I. Đerđj**, and A. Tonejc, Evidence from HRTEM image processing, XRD and EDS on nanocrystalline iron-doped titanium oxide powders. *Mater. Sci. Eng., B* **85** (2001), 1; 55-63. (IF: 2.122)

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