

1.01 Izvirni znanstveni članek | *Original scientific paper*

1. GENORIO, Boštjan, PENG, Zhiwei, LU, Wei, PRICE HOELSCHER, B. Katherine, NOVOSEL, Barbara, TOUR, James M. Synthesis of dispersible ferromagnetic graphene nanoribbon stacks with enhanced electrical percolation properties in a magnetic field. *ACS nano*, 2012, vol. 6, no. 11, str. 10396-10404, doi: [10.1021/nn304509c](https://doi.org/10.1021/nn304509c). [COBISS.SI-ID [36326405](#)], [JCR, WoS do
2. FERK, Gregor, BAN, Irena, STERGAR, Janja, MAKOVEC, Darko, HAMLER, Anton, JAGLIČIĆ, Zvonko, DROFENIK, Mihael. A facile route to the synthesis of coated maghemite nanocomposites for hyperthermia applications. *Acta chim. slov.* [Tiskana izd.], 2012, vol. 59, no. 2, str. 366-374. <http://acta.chem-soc.si/59/59-2-366.pdf>. [COBISS.SI-ID [16097046](#)], [JCR, WoS do
3. PODLOGAR, Matejka, RICHARDSON, Jacob J., VENGUST, Damjan, DANEU, Nina, SAMARDŽIJA, Zoran, BERNIK, Slavko, REČNIK, Aleksander. Growth of transparent and conductive polycrystalline (0001)-ZnO films on glass substrates under low-temperature hydrothermal conditions. *Adv. funct. mater. (Print)*, 2012, vol. 22, no. 15, str. 3136-3145, doi: [10.1002/adfm.201200214](https://doi.org/10.1002/adfm.201200214). [COBISS.SI-ID [25764903](#)], [JCR, WoS do 12. 3. 2013: št. citatov (TC): 3, čistih citatov (CI): 3, normirano št. čistih citatov (NC): 1, Scopus
4. NOVAK, Sara, DROBNE, Damjana, MENARD, Anja. Prolonged feeding of terrestrial isopod (*Porcellio scaber*, Isopoda, Crustacea) on TiO<sub>2</sub> nanoparticles : absence of toxic effect. V: ŠTRUS, Jasna (ur.), TAITI, Stefano (ur.), SFENTHOURAKIS, Spyros (ur.). *Advances in Terrestrial Isopod Biology*, (Zookeys, Vol. 176, special issue). Sofia: Pensoft Publishers, 2012, 2012, vol. 176, special issue, str. 261-273. <http://dx.doi.org/10.3897/zookeys.176.2463>, doi: [10.3897/zookeys.176.2463](https://doi.org/10.3897/zookeys.176.2463). [COBISS.SI-ID [2539087](#)], [JCR, WoS do 11. 4. 2013: št. citatov (TC): 2, čistih citatov (CI): 2, normirano št. čistih citatov (NC): 2, Scopus
5. HWANG, Wan Sik, REMŠKAR, Maja. Transistors with chemically synthesized layered semiconductor WS<sub>2</sub> exhibiting 10<sup>5</sup> room temperature modulation and ambipolar behavior. *Appl. phys. lett.*, 2012, vol. 101, no. 1, str. 013107-1-013107-4, doi: [10.1063/1.4732522](https://doi.org/10.1063/1.4732522). [COBISS.SI-ID [26026535](#)], [JCR, WoS do 11. 4. 2013: št. citatov (TC): 8, čistih citatov (CI): 7, normirano št. čistih citatov (NC): 3, Scopus
6. ZUPANC, Jernej, DROBNE, Damjana, DRAŠLER, Barbara, VALANT, Janez, IGLIČ, Aleš, KRALJ-IGLIČ, Veronika, MAKOVEC, Darko, RAPPOLT, Michael, SARTORI, Barbara, KOGIČ, Ksenija. Experimental evidence for the interaction of C-60 fullerene with lipid vesicle membranes. *Carbon (N. Y.)*. [Print ed.], 2012, vol. 50, no. 3, str. 1170-1178. <http://dx.doi.org/10.1016/j.carbon.2011.10.030>, doi: [10.1016/j.carbon.2011.10.030](https://doi.org/10.1016/j.carbon.2011.10.030). [COBISS.SI-ID [2451279](#)], [JCR, WoS do 6. 3. 2013: št. citatov (TC): 3, čistih citatov (CI): 2, normirano št. čistih citatov (NC): 1, Scopus
7. MUŠIČ, Branka, DROFENIK, Mihael, VENTURINI, Peter, ŽNIDARŠIČ, Andrej. Electromagnetic wave absorption by an organic resin solution based on ferrite particles with a spinel crystal structure. *Ceram. int.*. [Print ed.], 2012, vol. 34, issue 4, str. 2693-2699, doi: [10.1016/j.ceramint.2011.11.037](https://doi.org/10.1016/j.ceramint.2011.11.037). [COBISS.SI-ID [25558311](#)], [JCR, WoS do 5. 5. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
8. DRMOTA, Ana, DROFENIK, Mihael, ŽNIDARŠIČ, Andrej. Synthesis and characterization of nano-crystalline strontium hexaferrite using the co-precipitation and microemulsion methods with nitrate precursors. *Ceram. int.*. [Print ed.], 2012, vol. 38, issue 2, str. 973-979, doi: [10.1016/j.ceramint.2011.08.018](https://doi.org/10.1016/j.ceramint.2011.08.018). [COBISS.SI-ID [35561733](#)], [JCR, WoS do

9. VALANT, Janez, DROBNE, Damjana, NOVAK, Sara. Effect of ingested titanium dioxide nanoparticles on the digestive gland cell membrane of terrestrial isopods. *Chemosphere (Oxford)*. [Print ed.], 2012, vol. 87, issue 1, str. 19-25. <http://dx.doi.org/10.1016/j.chemosphere.2011.11.047>, doi: [10.1016/j.chemosphere.2011.11.047](http://dx.doi.org/10.1016/j.chemosphere.2011.11.047). [COBISS.SI-ID [6931065](#)], [JCR, WoS do 18. 4. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
10. MARINI, Alberto, ZUPANČIČ, Blaž, DOMENICI, Valentina, MENNUCCI, Benedetta, ZALAR, Boštjan, VERACINI, Carlo Alberto. A photosensitive liquid crystal studied by [sup](14)N NMR, [sup]2H NMR, and DFT calculations. *ChemPhysChem*. [Print ed.], 2012, vol. 13, no. 17, str. 3958-3965, doi: [10.1002/cphc.201200546](http://dx.doi.org/10.1002/cphc.201200546). [COBISS.SI-ID [26317607](#)], [JCR, WoS do 5. 2. 2013: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
11. LENART, Alenka, SAMARDŽIJA, Zoran, GODEC, Matjaž, MIRTič, Breda, ŠTURM, Sašo. Twin-boundary formation in Japan-law twinned quartz crystals. *European journal of mineralogy*, 2012, vol. 24, no. 3, str. 509-517, doi: [10.1127/0935-1221/2012/0024-2202](http://dx.doi.org/10.1127/0935-1221/2012/0024-2202). [COBISS.SI-ID [25756455](#)], [JCR, WoS do 5. 7. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
12. NOVAK, Nikola, PIRC, Raša, KUTNJAK, Zdravko. Impact of the electric field on the freezing dynamics of  $Pb(Mg_{1/3}Nb_{2/3})O_3$  : special issue : professor Wolfgang Kleemann in honor of his 70th birthday. *Ferroelectrics*, 2012, vol. 426, no. 1, str. 31-37, doi: [10.1080/00150193.2012.671094](http://dx.doi.org/10.1080/00150193.2012.671094). [COBISS.SI-ID [25795879](#)], [JCR, WoS do 4. 7. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
13. STERGAR, Janja, BAN, Irena, DROFENIK, Mihael, FERK, Gregor, MAKOVEC, Darko. Synthesis and characterization of silica-coated  $Cu_{1-x}Ni_x$  nanoparticles. *IEEE trans. magn.*, Apr. 2012, vol. 48, no. 4, 4 str., doi: [10.1109/TMAG.2011.2173168](http://dx.doi.org/10.1109/TMAG.2011.2173168). [COBISS.SI-ID [15783702](#)], [JCR, WoS do 5. 5. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
14. SEDLAKOVA, Vlasta, MAJZNER, Jiri, SEDLAK, Petr, KOPECKY, Martin, SIKULA, Josef, SANTO-ZARNIK, Marina, BELAVIČ, Darko, HROVAT, Marko. Evaluation of piezoresistive ceramic pressure sensors using noise measurements. *Inf. MIDEM*, 2012, vol. 42, no. 2, str. 109-114. [COBISS.SI-ID [26161447](#)], [JCR, WoS do 15. 3. 2013: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
15. RESNIK, Drago, HOČEVAR, Stanko, MOŽEK, Matej, STEGEL, Iztok, AMON, Slavko, VRTAČNIK, Danilo. Microfabrication and characterization of microcombustor on (100) silicon/glass platform = Karakterizacija mikrogorilnika izdelanega na Si (100)/Pyrex steklo podlagi. *Inf. MIDEM*, sep. 2012, letn. 42, št. 3, str. 164-175, ilustr. [http://www.midem-drustvo.si/Journal%20papers/MIDEM\\_42\(2012\)3p164.pdf](http://www.midem-drustvo.si/Journal%20papers/MIDEM_42(2012)3p164.pdf). [COBISS.SI-ID [9595732](#)], [JCR, WoS do 15. 3. 2013: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, Scopus
16. SODERŽNIK, Marko, ŽUŽEK ROŽMAN, Kristina, KOBE, Spomenka, MCGUINESS, Paul J.. The grain-boundary diffusion process in Nd-Fe-B sintered magnets based on the electrophoretic deposition of  $DyF_3$ . *Intermetallics (Barking)*. [Print ed.], 2012, vol. 23, str. 158-162, doi: [10.1016/j.intermet.2011.11.014](http://dx.doi.org/10.1016/j.intermet.2011.11.014). [COBISS.SI-ID [25708071](#)], [JCR,
17. BUH, Jože, MCGUINESS, Paul J., DANEU, Nina, ARČON, Denis. Hydrogenation of the high-coercivity Nd-Fe-Al amorphous alloy. *Intermetallics (Barking)*. [Print ed.], 2012, vol. 31, str. 152-156, doi: [10.1016/j.intermet.2012.06.019](http://dx.doi.org/10.1016/j.intermet.2012.06.019). [COBISS.SI-ID [26009127](#)], [JCR, WoS
18. ČIRIČ, Katarina, KOČJAN, Andraž, GRADIŠEK, Anton, KOTESKI, Vasilij J., KALIJDIS, Ana M., IVANOVSKI, Valentin, LAUŠEVIČ, Zoran V., STOJIC, Dragica Lj. A study on crystal structure, bonding and hydriding properties of Ti-Fe-Ni intermetallics - behind substitution of iron by

- nickel. *Int. j. hydrogen energy*. [Print ed.], 2012, vol. 37, no. 10, str. 8408-8417, doi: [10.1016/j.ijhydene.2012.02.047](https://doi.org/10.1016/j.ijhydene.2012.02.047). [COBISS.SI-ID [25742119](#)], [JCR, WoS]
19. VIRŠEK, Marko, NOVAK, Nikola, FILIPIČ, Cene, KUMP, Peter, REMŠKAR, Maja, KUTNJAK, Zdravko. Transport properties in MoS<sub>2</sub> selective morphology system. *J. appl. phys.*, 2012, vol. 112, no. 10, str. 103710-1-103710-6, doi: [10.1063/1.4766451](https://doi.org/10.1063/1.4766451). [COBISS.SI-ID [26277671](#)], [JCR, WoS]
  20. PLETERŠEK, Anton, TRONTELJ, Janez. A self-mixing NMOS channel-detector optimized for mm-wave and THz signals. *J. infrared millim. terahertz waves (Print)*, 2012, vol. 33, no. 6, str. 615-626, ilustr. <http://www.springerlink.com/content/622t346575715452/fulltext.pdf>, doi: [10.1007/s10762-012-9901-2](https://doi.org/10.1007/s10762-012-9901-2). [COBISS.SI-ID [9127252](#)], [JCR, Scopus]
  21. DRMOTA, Ana, KOSELJ, Jure, DROFENIK, Mihael, ŽNIDARŠIČ, Andrej. Electromagnetic wave absorption of polymeric nanocomposites based on ferrite with a spinel and hexagonal crystal structure. *J. magn. magn. mater.*. [Print ed.], 2012, vol. 324, issue 6, str. 1225-1229, doi: [10.1016/j.jmmm.2011.11.015](https://doi.org/10.1016/j.jmmm.2011.11.015). [COBISS.SI-ID [35561477](#)], [JCR, WoS]
  22. KOCJAN, Andraž, GRADIŠEK, Anton, DANEU, Nina, APIH, Tomaž, MCGUINESS, Paul J., KOBE, Spomenka. Structural and magnetic changes in hydrogenated TiFe<sub>(1-x)</sub>Ni<sub>x</sub> alloys. *J. magn. magn. mater.*. [Print ed.], 2012, vol. 324, issue 13, str. 2043-2050, doi: [10.1016/j.jmmm.2012.02.007](https://doi.org/10.1016/j.jmmm.2012.02.007). [COBISS.SI-ID [25632295](#)], [JCR, WoS]
  23. REČNIK, Aleksander, BERNIK, Slavko, DANEU, Nina. Microstructural engineering of ZnO-based varistor ceramics. *J. Mater. Sci.*, 2012, vol. 47, no. 4, str. 1655-1668, doi: [10.1007/s10853-011-5937-2](https://doi.org/10.1007/s10853-011-5937-2). [COBISS.SI-ID [25117735](#)], [JCR, WoS do 15. 2. 2013: št. citatov (TC): 3, čistih citatov (CI): 2, normirano št. čistih citatov (NC): 1, Scopus]
  24. KLANJIŠEK, Martin, GRADIŠEK, Anton, KOCJAN, Andraž, BOBNAR, Matej, JEGLIČ, Peter, WENCKA, Magdalena, JAGLIČIČ, Zvonko, POPČEVIČ, Petar, IVKOV, Jovica, SMONTARA, Ana, GILLE, Peter, ARMBRÜSTER, M., GRIN, Yuri, DOLINŠEK, Janez. PdGa intermetallic hydrogenation catalyst : an NMR and physical property study. *J. phys., Condens. matter*, 2012, vol. 24, no. 8, str. 085703-1-085703-9, doi: [10.1088/0953-8984/24/8/085703](https://doi.org/10.1088/0953-8984/24/8/085703). [COBISS.SI-ID [25582375](#)], [JCR, WoS, Scopus]
  25. LUKOVIĆ GOLIČ, D., BRANKOVIĆ, Zorica, DANEU, Nina, BERNIK, Slavko, BRANKOVIĆ, Goran. Solvothermal syntheses of nano- and micro-sized ZnO powders with a controllable morphology. *J. sol-gel sci. technol.*, 2012, vol. 63, no. 1, str. 116-125, doi: [10.1007/s10971-012-2773-z](https://doi.org/10.1007/s10971-012-2773-z). [COBISS.SI-ID [25774375](#)], [JCR, WoS, Scopus]
  26. KUŠČER, Danijela, STAVBER, Gaj, TREFALT, Gregor, KOSEC, Marija. Formulation of an aqueous titania suspension and its patterning with ink-jet printing technology. *J. Am. Ceram. Soc.*, 2012, vol. 95, issue 2, str. 487-493, doi: [10.1111/j.1551-2916.2011.04876.x](https://doi.org/10.1111/j.1551-2916.2011.04876.x). [COBISS.SI-ID [25158439](#)], [JCR, WoS, Scopus]
  27. MAKAROVIČ, Kostja, MEDEN, Anton, HROVAT, Marko, HOLC, Janez, BENČAN, Andreja, DAKSKOBLER, Aleš, KOSEC, Marija. The effect of processing conditions on the properties of LTCC material. *J. Am. Ceram. Soc.*, 2012, vol. 95, issue 2, str. 760-767, doi: [10.1111/j.1551-2916.2011.05027.x](https://doi.org/10.1111/j.1551-2916.2011.05027.x). [COBISS.SI-ID [25443367](#)], [JCR, WoS]
  28. TREFALT, Gregor, MALIČ, Barbara, HOLC, Janez, URŠIČ, Hana, KOSEC, Marija. Synthesis of 0.65Pb(Mg<sub>(1/3)</sub>Nb<sub>(2/3)</sub>)O<sub>3</sub>-0.35PbTiO<sub>3</sub> by controlled agglomeration of precursor particles. *J. Am. Ceram. Soc.*, 2012, vol. 95, issue 6, str. 1858-1865, doi: [10.1111/j.1551-2916.2012.05142.x](https://doi.org/10.1111/j.1551-2916.2012.05142.x). [COBISS.SI-ID [25679911](#)], [JCR, Scopus]
  29. KOSMAČ, Tomaž, KOCJAN, Andraž. Ageing of dental zirconia ceramics. *J. Eur. Ceram. Soc.*. [Print ed.], 2012, vol. 32, no. 11, str. 2613-2622, doi: [10.1016/j.jeurceramsoc.2012.02.024](https://doi.org/10.1016/j.jeurceramsoc.2012.02.024). [COBISS.SI-ID [25760807](#)], [JCR, WoS, Scopus]

30. PERKO, Sebastjan, DAKSKOBLER, Aleš, KOSMAČ, Tomaž. The densification and strength of porous Y-TZP materials with a bimodal particle size distribution for dental applications. *J. Eur. Ceram. Soc.*. [Print ed.], 2012, vol. 32, no. 11, str. 2633-2639, doi: [10.1016/j.jeurceramsoc.2012.02.001](https://doi.org/10.1016/j.jeurceramsoc.2012.02.001). [COBISS.SI-ID 26453031], [JCR, WoS, Scopus]
31. SAMARDŽIJA, Zoran, MCGUINNESS, Paul J., SODERŽNIK, Marko, KOBE, Spomenka, SAGAWA, Masato. Microstructural and compositional characterization of terbium-doped Nd-Fe-B sintered magnets. *Mater. charact.*. [Print ed.], 2012, vol. 67, no. 1, str. 27-33, doi: [10.1016/j.matchar.2012.02.017](https://doi.org/10.1016/j.matchar.2012.02.017). [COBISS.SI-ID 25799207], [JCR, WoS, Scopus]
32. BAN, Irena, KRISTL, Matjaž, DANČ, Valerija, DANČ, Anita, DROFENIK, Mihael. Preparation of cadmium telluride nanoparticles from aqueous solutions by sonochemical method. *Mater. lett.*. [Print ed.], 15. Jan. 2012, vol. 67, iss. 1, str. 56-59, doi: [10.1016/j.matlet.2011.09.001](https://doi.org/10.1016/j.matlet.2011.09.001). [COBISS.SI-ID 15371798], [JCR, WoS, Scopus]
33. HROVAT, Marko, KIEŁBASIŃSKI, Konrad, MAKAROVIČ, Kostja, BELAVIČ, Darko. The characterisation of lead-free thick-film resistors on different low temperature Co-fired ceramics substrates. *Mater. res. bull.*. [Print ed.], 2012, vol. 47, no. 12, str. 4131-4136, doi: [10.1016/j.materresbull.2012.08.066](https://doi.org/10.1016/j.materresbull.2012.08.066). [COBISS.SI-ID 26467623], [JCR, WoS, Scopus]
34. SANTO-ZARNIK, Marina, BELAVIČ, Darko. The effect of humidity on the stability of LTCC pressure sensors. *Metrol. Syst. Pomiarowe*, 2012, vol. 19, no. 1, str. 133-140. [COBISS.SI-ID 25693223], [JCR, WoS]
35. RESNIK, Drago, KOVAČ, Janez, GODEC, Matjaž, VRTAČNIK, Danilo, MOŽEK, Matej, AMON, Slavko. The influence of target composition and thermal treatment on sputtered Al thin films on Si and SiO<sub>2</sub> substrates. *Microelectron. eng.*. [Print ed.], Aug. 2012, vol. 96, str. 29-35, ilustr. [COBISS.SI-ID 9074772], [JCR, WoS, Scopus]
36. ŽUMER, Slobodan, FUKUDA, Jun-ichi, RAVNIK, Miha. Confined colloidal blue phases with potential for photonics. *Mol. cryst. liq. cryst. (Phila. Pa. : 2003)*, 2012, vol. 561, iss. 1, str. 107-114. <http://www.tandfonline.com/doi/full/10.1080/15421406.2012.687143>. [COBISS.SI-ID 2500452], [JCR, WoS, Scopus]
37. JELENC, Janez, REMŠKAR, Maja. Friction on a single MoS<sub>2</sub> nanotube. *Nanoscale research letters*. [Print ed.], 2012, vol. 7, str. 208-1-208-17, doi: [10.1186/1556-276X-7-208](https://doi.org/10.1186/1556-276X-7-208). [COBISS.SI-ID 25737255], [JCR, WoS, Scopus]
38. ZUPANČIČ, Blaž, DIEZ-BERART, S., FINOTELLO, Daniele, LAVRETOVICH, Oleg D., ZALAR, Boštjan. Photoisomerization-controlled phase segregation in a submicron confined azonematic liquid crystal. *Phys. rev. lett.*, 2012, vol. 108, no. 25, str. 257801-1-257801-5, doi: [10.1103/PhysRevLett.108.257801](https://doi.org/10.1103/PhysRevLett.108.257801). [COBISS.SI-ID 25964071], [JCR, WoS, Scopus]
39. ČOPAR, Simon, ŽUMER, Slobodan. Topological and geometric decomposition of nematic textures. *Phys. rev., E Stat. nonlinear soft matter phys. (Print)*, 2012, vol. 85, issue 3, str. 031701-1-031701-7, doi: [10.1103/PhysRevE.85.031701](https://doi.org/10.1103/PhysRevE.85.031701). [COBISS.SI-ID 2412388], [JCR, WoS, Scopus]
40. SEČ, David, LOPEZ-LEON, Teresa, NOBILI, M., BLANC, C., FERNANDEZ-NIEVES, Alberto, RAVNIK, Miha, ŽUMER, Slobodan. Defect trajectories in nematic shells : role of elastic anisotropy and thickness heterogeneity. *Phys. rev., E Stat. nonlinear soft matter phys. (Print)*, 2012, vol. 86, iss. 2, str. 020705-1-020705-4. <http://link.aps.org/doi/10.1103/PhysRevE.86.020705>. [COBISS.SI-ID 2458468], [JCR,
41. SKAČEJ, Gregor, ZANNONI, Claudio. Molecular simulations elucidate electric field actuation in swollen liquid crystal elastomers. *Proc. Natl. Acad. Sci. U. S. A.*, 2012, vol. 109, no. 26, str. 10193-10198. <http://www.pnas.org/cgi/doi/10.1073/pnas.1121235109>. [COBISS.SI-ID 2439012], [JCR, WoS]

42. BELAVIČ, Darko, HROVAT, Marko, DOLANC, Gregor, SANTO-ZARNIK, Marina, HOLC, Janez, MAKAROVIČ, Kostja. Design of LTCC-based ceramic structure for chemical microreactor. *Radioengineering (Prague)*, 2012, vol. 21, issue 1, str. 195-200. [COBISS.SI-ID [25757479](#)], [JCR, WoS, Scopus]
43. SANTO-ZARNIK, Marina, BELAVIČ, Darko. An experimental and numerical study of the humidity effect on the stability of a capacitive ceramic pressure sensor. *Radioengineering (Prague)*, 2012, vol. 21, issue 1, str. 201-206. [COBISS.SI-ID [25757735](#)], [JCR, WoS, Scopus]
44. DONTABHAKTUNI, Jayasri, RAVNIK, Miha, ŽUMER, Slobodan. Shape-tuning the colloidal assemblies in nematic liquid crystals. *Soft matter*, 2012, vol. 8, issue 5, str. 1657-1663, doi: [10.1039/c2sm06577k](https://doi.org/10.1039/c2sm06577k). [COBISS.SI-ID [2400356](#)], [JCR, WoS, Scopus]
45. PORENTA, Tine, RAVNIK, Miha, ŽUMER, Slobodan. Complex field-stabilised nematic defect structures in Laguerre-Gaussian optical tweezers. *Soft matter*, 2012, vol. 8, issue 6, str. 1865-1870, doi: [10.1039/c1sm06511d](https://doi.org/10.1039/c1sm06511d). [COBISS.SI-ID [2400100](#)], [JCR, WoS]
46. ČOPAR, Simon, PORENTA, Tine, JAMPANI, Venkata Subba R., MUŠEVIČ, Igor, ŽUMER, Slobodan. Stability and rewiring of nematic braids in chiral nematic colloids. *Soft matter*, 2012, vol. 8, iss. 33, str. 8595-8600. <http://pubs.rsc.org/en/content/articlelanding/2012/sm/c2sm25952d>. [COBISS.SI-ID [2452068](#)], [JCR, WoS, Scopus]
47. SEČ, David, PORENTA, Tine, RAVNIK, Miha, ŽUMER, Slobodan. Geometrical frustration of chiral ordering in cholesteric droplets. *Soft matter*, 2012, vol. 8, no. 48, str. 11982-11988. <http://pubs.rsc.org/en/Content/ArticleLanding/2012/SM/c2sm27048j>. [COBISS.SI-ID [2508388](#)], [JCR, WoS, Scopus]
48. ROJAC, Tadej, MALIČ, Barbara, KOSEC, Marija, POŁOMSKA, Maria, HILCZER, Bożena, ZUPANČIČ, Blaž, ZALAR, Boštjan. Mechanochemical synthesis of NaNbO<sub>3</sub>: a complementary study of reaction mechanism using Raman spectroscopy and quadrupole perturbed <sup>23</sup>Na nuclear magnetic resonance. *Solid state ion.* [Print ed.], 2012, vol. 215, str. 1-6, doi: [10.1016/j.ssi.2012.02.060](https://doi.org/10.1016/j.ssi.2012.02.060). [COBISS.SI-ID [25720359](#)], [JCR, WoS, Scopus]
49. VRTAČNIK, Danilo, RESNIK, Drago, MOŽEK, Matej, PEČAR, Borut, DOLŽAN, Tine, AMON, Slavko. Reaktivno ionsko jedkanje (RIE) silicija na osnovi SF<sub>6</sub>/O<sub>2</sub>-kemije. *Vakuumist*, jul. 2012, letn. 32, št. 2, str. 4-7, ilustr. [COBISS.SI-ID [9312596](#)]
50. RESNIK, Drago, MOŽEK, Matej, DOLŽAN, Tine, AMON, Slavko, VRTAČNIK, Danilo. Spajanje podlag silicij-steklo z anodnim bondiranjem. *Vakuumist*, sep. 2012, letn. 32, št. 3, str. 4-11, ilustr. [COBISS.SI-ID [9435988](#)]
51. KALIN, Mitjan, KOGOVŠEK, Janez, REMŠKAR, Maja. Mechanisms and improvements in the friction and wear behavior using MoS<sub>2</sub> nanotubes as potential oil additives. *Wear*. [Print ed.], 2012, vol. 280/281, iss. [4], str. 36-45, ilustr., doi: [10.1016/j.wear.2012.01.011](https://doi.org/10.1016/j.wear.2012.01.011). [COBISS.SI-ID [12245787](#)], [JCR, WoS, Scopus]

## 1.02 Pregledni znanstveni članek | *Scientific paper*

1. VALANT, Janez, IAVICOLI, Ivo, DROBNE, Damjana. The importance of a validated standard methodology to define in vitro toxicity of nano-TiO<sub>2</sub>. *Protoplasma*, 2012, vol. 249, issue 3, str. 493-502. <http://dx.doi.org/10.1007/s00709-011-0320-3>, doi: [10.1007/s00709-011-0320-3](https://doi.org/10.1007/s00709-011-0320-3). [COBISS.SI-ID [6839161](#)], [JCR, WoS, Scopus]

#### 1.04 Strokovni članek | *A professional article*

1. PLETERŠEK, Anton, TRONTELJ, Janez. Chemical sensors and their applications in traceability and safety systems. *Quark (Engl. ed.)*. [English ed.], Summer 2012, str. 117, ilustr. [COBISS.SI-ID [9245780](#)]

#### 1.05 Poljudni članek | *A popular article*

1. ROŽIČ, Brigita. Raziskave pojavov z ogromno pretvorbo energij v mehkih in trdnih naprednih materialih. *Novice - IJS (Tisk. izd.)*. [Tiskana izd.], jun. 2012, št. 160, str. 10-12. [COBISS.SI-ID [25898023](#)]
2. URŠIČ, Hana. Electrocaloric materials/advanced materials and technologies for the future. *Quark (Engl. ed.)*. [English ed.], summer 2012, str. 118. [COBISS.SI-ID [26552103](#)]

#### 1.06 Objavljeni znanstveni prispevek na konferenci (vabljeni predavanji) | *Invited lecture*

1. FUKUDA, Jun-ichi, ŽUMER, Slobodan. Simulation of a cholesteric blue phase in a thin cell : exotic defect structures and their response to an electric field : invited paper. V: CHIEN, Liang-Chy (ur.). *Emerging liquid crystal technologies VII : 22-25 January 2012, San Francisco, California, United States*, (Proceedings of SPIE, the International Society for Optical Engineering, vol. 8279). Bellingham: SPIE, cop. 2012, str. 82790V-1-82790V-6. <http://dx.doi.org/10.1117/12.912825>. [COBISS.SI-ID [2420580](#)], [Scopus]
2. ŽUMER, Slobodan, PORENTA, Tine, RAVNIK, Miha. Complex field-induced nematic defect structures in Laguerre-Gaussian optical tweezers : invited paper. V: KHOO, lam-Choon (ur.). *Liquid crystals XVI, San Diego, California, USA, 12-13 and 15 August 2012*. *Liquid Crystals XVI*, (Proceedings of SPIE, the international society for optical engineering, vol. 8475). [Bellingham]: SPIE, 2012, 7 str. [http://spie.org/x648.html?product\\_id=930450](http://spie.org/x648.html?product_id=930450), doi: [10.1117/12.930450](http://dx.doi.org/10.1117/12.930450). [COBISS.SI-ID [2506084](#)], [Scopus]

#### 1.08 Objavljeni znanstveni prispevek na konferenci | *Published scientific paper*

1. STRLE, Drago, TRONTELJ, Janez. Integrated impedance spectroscopy chip for bio-sensors array : a system perspective. V: GARIMELLA, Annajirao (ur.), PURDY, Carla C. (ur.). *2012 IEEE 55th International Midwest Symposium on Circuits and Systems (MWSCAS) : August 5-8, 2012, Boise, Idaho*. Piscataway: IEEE, cop. 2012, str. 358-361, ilustr. [COBISS.SI-ID [9322068](#)], [Scopus]
2. RESNIK, Drago, ALJANČIČ, Uroš, VRTAČNIK, Danilo, MOŽEK, Matej, PEČAR, Borut, AMON, Slavko. Microfluidic platforms realized by micromachining and anodic bonding of Si and glass substrates. V: 8th International Caribbean Conference on Devices, Circuits and Systems, Playa del Carmen, Mexico, March 14-17, 2012. *ICDCS*. [Piscataway]: Institute of Electrical and Electronics Engineers: = IEEE, cop. 2012, str. 1-4, ilustr. [COBISS.SI-ID [9018708](#)]
3. STRLE, Drago, ŠTEFANE, Bogdan, MUŠEVIČ, Igor. Detecting vapor traces of explosives using a self-assembled mono layer on a surface-modified MEMS capacitor and CMOS electronics. V: 7th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, Kyoto, Japan, 5-8 March 2012. *IEEE-NEMS 2012*. [Piscataway]: Institute of Electrical and Electronics Engineers: = IEEE, cop. 2012, str. 86-89, ilustr. [COBISS.SI-ID [9003092](#)]
4. TRONTELJ, Janez, SEŠEK, Aleksander, ŠMID, Blaž. Self-calibration of magnetic microsystem ASIC. V: 3rd IEEE Latin American Symposium on Circuits and Systems, LASCAS, Playa del Carmen, Mexico, February 29 - March 2, 2012. *LASCAS 2012*. [Piscataway]: Institute of

- Electrical and Electronics Engineers: = IEEE, 2012, str. 1-4, ilustr. [COBISS.SI-ID [9005652](#)], [Scopus]
5. PODRŽAJ, Jurij, [SEŠEK, Aleksander](#), [TRONTELJ, Janez](#). Intelligent power MOSFET driver ASIC. V: [BILJANOVIĆ, Petar](#) (ur.). MIPRO 2012, 35th International Convention, May 21-25, 2012, Opatija - Adriatic Coast, Croatia. *MIPRO 2012 : 35th International Convention, May 21-25, 2012, Opatija - Adriatic Coast, Croatia : mipro proceedings*, (MIPRO ... (CD-ROM)). Rijeka: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, cop. 2012, str. 113-117, ilustr. [COBISS.SI-ID [9249620](#)], [Scopus]
  6. [HROVAT, Marko](#), [BELAVIČ, Darko](#), [MAKAROVIČ, Kostja](#), [HOLC, Janez](#). Thick-film piezoresistors - benchmarking of LTCC substrates. V: [FRANZ, Manuela](#) (ur.), [NICOLICS, Johann](#) (ur.). ISSE 2012, 35th International Spring Seminar on Electronics Technology, May 9-13, 2012, Bad Aussee, Austria. *Power electronics : conference programme and extended abstracts*. Vienna: Department of Applied Electronic Materials, Institute of Sensor and Actuator Systems, University of Technology, 2012, 5 str. [COBISS.SI-ID [25807911](#)], [Scopus]
  7. [PRESEČNIK, Mojca](#), [BERNIK, Slavko](#). The thermoelectric compound  $\text{Ca}_{30}\text{Co}_{40}\text{Sb}_{30}$  - synthesis and characteristics. V: *Proceedings of the 9th European Conference on Thermoelectrics, 9th ECT, September 28-30, 2011, Thessaloniki, Greece*, (AIP conference proceedings, vol. 1449, 2012). New York: American Institute of Physics, 2012, 2012, vol. 1449, str. 331-334, doi: [10.1063/1.4731564](#). [COBISS.SI-ID [25136167](#)], [Scopus]
  8. [BELAVIČ, Darko](#), [HROVAT, Marko](#), [MAKAROVIČ, Kostja](#), [SANTO-ZARNIK, Marina](#), [HODNIK, Marjan](#), [PAVLOVIĆ, Milenko](#). Benchmarking of some thick-film resistors for strain-gauge applications. V: 36th International Microelectronics and Packaging IMAPS - IEEE CPMT Poland Conference, September 26-29, Kołobrzeg, Poland. *Proceedings*. [S. l.]: IMAPS-CPMT, 2012, 11 str. [COBISS.SI-ID [26140199](#)]
  9. [SANTO-ZARNIK, Marina](#), [BELAVIČ, Darko](#), [HROVAT, Marko](#), [SEDLAKOVA, Vlasta](#), [SIKULA, Josef](#), [SEDLAK, Petr](#), [MAJZNER, Jiri](#). Low frequency noise measurements as a tool for indication of the stability of thick-film piezoresistive ceramic pressure sensors. V: 36th International Microelectronics and Packaging IMAPS - IEEE CPMT Poland Conference, September 26-29, Kołobrzeg, Poland. *Proceedings*. [S. l.]: IMAPS-CPMT, 2012, 13 str. [COBISS.SI-ID [26140455](#)]
  10. [PAVLIČ, Jernej](#), [KOSEC, Marija](#), [HOLC, Janez](#), [ROJAC, Tadej](#).  $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$  thick films : preparation and properties. V: [BELAVIČ, Darko](#) (ur.), [ŠORLI, Iztok](#) (ur.). 48th International Conference on Microelectronics, Devices and Materials & theWorkshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 133-138. [COBISS.SI-ID [26115879](#)]
  11. [ABELLARD, Andre-Pierre](#), [LEVASSORT, Franck](#), [KUŠČER, Danjela](#), [GRÉGOIRE, J. -M.](#), [HOLC, Janez](#), [LETHIECQ, Marc](#), [KOSEC, Marija](#). Electrophoretically deposited PZT thick film for high-frequency ultrasound applications. V: [BELAVIČ, Darko](#) (ur.), [ŠORLI, Iztok](#) (ur.). 48th International Conference on Microelectronics, Devices and Materials & theWorkshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 139-144. [COBISS.SI-ID [26111271](#)]
  12. [BERNIK, Slavko](#), [CHENG, Lihong](#), [PODLOGAR, Matejka](#), [LI, Guorong](#). Development of ZnO-based varistor ceramics sintering at temperatures below 1000°C. V: [BELAVIČ, Darko](#) (ur.), [ŠORLI, Iztok](#) (ur.). 48th International Conference on Microelectronics, Devices and Materials & theWorkshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 169-174. [COBISS.SI-ID [26137127](#)]

13. POLH, Katja, PLETERŠEK, Anton, MAČEK, Marijan, TRONTELI, Janez. Structural and functional properties of fabricated gas sensors based on tin metal-oxide microstructures. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 177-180, ilustr. [COBISS.SI-ID [9416788](#)]
14. RESNIK, Drago, ALJANČIČ, Uroš, VRTAČNIK, Danilo, MOŽEK, Matej, PEČAR, Borut, DOLŽAN, Tine, AMON, Slavko. Anodic bonding of glass-glass substrates for microfluidic devices. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 185-188, ilustr. [COBISS.SI-ID [9419348](#)]
15. PEČAR, Borut, KRIŽAJ, Dejan, VRTAČNIK, Danilo, RESNIK, Drago, MOŽEK, Matej, ALJANČIČ, Uroš, DOLŽAN, Tine, AMON, Slavko. Numerical simulation of SMTP piezoelectric micropump operation. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 189-192, ilustr. [COBISS.SI-ID [9419092](#)]
16. DOLŽAN, Tine, VRTAČNIK, Danilo, RESNIK, Drago, ALJANČIČ, Uroš, MOŽEK, Matej, PEČAR, Borut, JANEŽ, Andrej, URBANČIČ-ROVAN, Vilma, AMON, Slavko. Investigation of silicon microneedle transdermal drug delivery system. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 209-212, ilustr. [COBISS.SI-ID [9524820](#)]
17. TOMAŽIČ, Jure, ŽEMVA, Andrej. Battery management in all-electric powered ultralight aircraft. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 243-247, ilustr. [COBISS.SI-ID [9384532](#)]
18. ZUPANČIČ, Luka, MAHMOUDI, Ramzi, AKIL, Mohamed, ŽEMVA, Andrej. Optimization of beating ventricular segmenter programming tool. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 267-271, ilustr. [COBISS.SI-ID [9384020](#)]
19. MAKAROVIČ, Kostja, BERMEJO, Raúl, KRALEVA, Irina, HOLC, Janez, HROVAT, Marko, BENČAN, Andreja, SANTO-ZARNIK, Marina, BELAVIČ, Darko, KOSEC, Marija. Mechanical properties of low-temperature Co-fired ceramics fired at different temperatures. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 297-301. [COBISS.SI-ID [26116391](#)]
20. PIRIH, Andrej, CERGOLJ, Mirjam, BERNIK, Slavko, SODEC, Jože, TAVČAR, Alojz, HARIŠ, Mitja. A high-current surge generator 8/20 [ $\mu$ s] for testing ZnO varistors and SPDs to 100 kA. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September



- 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 303-308. [COBISS.SI-ID [26137383](#)]
21. TAVČAR, Rok, DEDIČ, Jože, ŽEMVA, Andrej. Design of neural networks for dedicated hardware implementation. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 309-314, ilustr. [COBISS.SI-ID [9384276](#)]
22. RAVNIK, Miha, HUMAR, Matjaž, PAJK, Stane, MUŠEVIČ, Igor. Nematic droplets as tuneable optical microresonators. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 315-317. [COBISS.SI-ID [2482276](#)]
23. BAN, Irena, STERGAR, Janja, DROFENIK, Mihael, FERK, Gregor, HAMLER, Anton. Novel syntheses of Cu<sub>(1-x)Ni<sub>x</sub></sub> nanoparticles for applications in biomedicine. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 333-337. [COBISS.SI-ID [16326166](#)]
24. PODLOGAR, Matejka, VENČUST, Damjan, DANEU, Nina, RICHARDSON, Jacob J., REČNIK, Aleksander, BERNIK, Slavko. Influence of seed layer on the properties of ZNO films prepared by low-temperature hydrothermal synthesis. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 345-350. [COBISS.SI-ID [26137639](#)]
25. ANTONIJEVIČ, Matej, DOLŽAN, Tine, PEČAR, Borut, ALJANČIČ, Uroš, MOŽEK, Matej, VRTAČNIK, Danilo, RESNIK, Drago, AMON, Slavko. Characterization system for piezoelectric micropumps. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 357-362, ilustr. [COBISS.SI-ID [9385300](#)]
26. SANTO-ZARNIK, Marina, BELAVIČ, Darko, HODNIK, Marjan, KOCJAN, Sandi. A differential fluid pressure sensor in LTCC. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 363-366. [COBISS.SI-ID [26116903](#)]
27. BELAVIČ, Darko, SANTO-ZARNIK, Marina, HODNIK, Marjan, KOCJAN, Sandi, STUŠEK, Marko, HROVAT, Marko, HOLC, Janez, MAKAROVIČ, Kostja, PAVLOVIČ, Milenko. Some examples of LTCC-based ceramic pressure sensors. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 367-371. [COBISS.SI-ID [26117159](#)]
28. HROVAT, Marko, BELAVIČ, Darko, MAKAROVIČ, Kostja, HOLC, Janez. Thick-film piezoresistors as pressure sensors on different LTCC structures. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.).

- 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 375-379. [COBISS.SI-ID [26117415](#)]
29. SEDLAKOVA, Vlasta, MAJZNER, Jiri, SEDLAK, Petr, SIKULA, Josef, SANTO-ZARNIK, Marina, BELAVIČ, Darko, HROVAT, Marko. Influence of functional resistors on offset voltage noise in thick-film pressure sensors. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 393-398. [COBISS.SI-ID [26139687](#)]
30. VRTOVEC, Rok, TRONTELJ, Janez, PODRŽAJ, Jurij. Magnetic field ferrite concentrator for differential current measurement. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 417-420, ilustr. [COBISS.SI-ID [9425236](#)]
31. PODHRAŠKI, Matija, ŠVIGELJ, Andrej, MAČEK, Marijan, TRONTELJ, Janez. Thermal analysis of THz microbolometer. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 421-426, ilustr. [COBISS.SI-ID [9418068](#)]
32. ŠVIGELJ, Andrej, SEŠEK, Aleksander, TRONTELJ, Janez. Portable system, capable of producing THz images of hidden objects at stand-off distance. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 431-433, ilustr. [COBISS.SI-ID [9420372](#)]
33. TRIFKOVIČ, Mario, RAIČ, Dušan, STRLE, Drago. Low noise post-synthesis of synchronous digital circuits with clock-serial processing. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 435-439, ilustr. [COBISS.SI-ID [9425492](#)]
34. NAHTIGAL, Uroš, STRLE, Drago. Single-ended folded cascade chopped amplifier. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 441-444, ilustr. [COBISS.SI-ID [9418580](#)]
35. ERGAYER, Gregor, TRONTELJ, Janez, PODRŽAJ, Jurij, ŠPACAPAN, Iztok. Prediction of maximum radiated emissions in semi-anechoic chamber by measuring common-mode current on attached cables. V: BELAVIČ, Darko (ur.), ŠORLI, Iztok (ur.). 48th International Conference on Microelectronics, Devices and Materials & the Workshop on Ceramic Microsystems, September 19 - September 21, 2012, Otočec, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2012, str. 445-450, ilustr. [COBISS.SI-ID [9418324](#)]
36. SANTO-ZARNIK, Marina, BELAVIČ, Darko, SEDLAKOVA, Vlasta, SIKULA, Josef, KOPECKY, Martin, SEDLAK, Petr, MAJZNER, Jiri. Intrinsic resolution of a piezoresistive ceramic pressure

- sensor. V: HEGR, Ondrej (ur.). EDS'12, Electronic Devices and Systems IMAPS CS International Conference 2012, June 28-29, 2012, Brno, Czech Republic. *Proceedings*. Brno: IMAPS, 2012, str. 251-256. [COBISS.SI-ID [25933095](#)]
37. BELAVIČ, Darko, HROVAT, Marko, SANTO-ZARNIK, Marina, HODNIK, Marjan, MAKAROVIČ, Kostja, SEDLAKOVA, Vlasta. Investigations of thick-film resistors for piezoresistive LTCC-based ceramic pressure sensor. V: HEGR, Ondrej (ur.). EDS'12, Electronic Devices and Systems IMAPS CS International Conference 2012, June 28-29, 2012, Brno, Czech Republic. *Proceedings*. Brno: IMAPS, 2012, str. 321-326. [COBISS.SI-ID [25933351](#)]
38. BELAVIČ, Darko, HROVAT, Marko, DOLANC, Gregor, MAKAROVIČ, Kostja, SANTO-ZARNIK, Marina, HOLC, Janez. Design of an LTCC structure for a micro-ceramic combustor. V: IMAPS/ACerS, 8th International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies (CICMT 2012), April 16-19, 2012, Erfurt, Germany. *Proceedings*. [S. l.]: International Microelectronics and Packaging Society, 2012, str. 288-293. [COBISS.SI-ID [25795111](#)]
39. SANTO-ZARNIK, Marina, BELAVIČ, Darko. Stability of a piezoresistive ceramic pressure sensor made with LTCC technology. V: IMAPS/ACerS, 8th International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies (CICMT 2012), April 16-19, 2012, Erfurt, Germany. *Proceedings*. [S. l.]: International Microelectronics and Packaging Society, 2012, str. 371-376. [COBISS.SI-ID [25795623](#)]
40. MAKAROVIČ, Kostja, MEDEN, Anton, HROVAT, Marko, HOLC, Janez, BENČAN, Andreja, DAKSKOBLER, Aleš, KOSEC, Marija. The effect of phase composition on the mechanical and thermal properties of LTCC material. V: IMAPS/ACerS, 8th International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies (CICMT 2012), April 16-19, 2012, Erfurt, Germany. *Proceedings*. [S. l.]: International Microelectronics and Packaging Society, 2012, str. 492-497. [COBISS.SI-ID [25795367](#)]
41. BAN, Irena, STERGAR, Janja, DROFENIK, Mihael, FERK, Gregor, HAMLER, Anton, MAKOVEC, Darko. Priprava magnetnih nanodelcev s kontrolirano Curiejevo temperaturo za uporabo v biomedicini = Preparation of magnetic nanoparticles with controlled Curie temperature for the application in biomedicine. V: KRAVANJA, Zdravko (ur.), BRODNJAK-VONČINA, Darinka (ur.), BOGATAJ, Miloš (ur.). *Slovenski kemijski dnevi 2012, Portorož, 12.-14. september 2012*. Maribor: FKKT, 2012, str. 1-8. [COBISS.SI-ID [16278038](#)]
42. STRLE, Drago, ŠTEFANE, Bogdan, MUŠEVIČ, Igor. Design of smart sensing system for vapour trace detection of explosives. V: GESSNER, T. (ur.). 6th International Conference & Exhibition on Integration Issues of Miniaturized Systems - MEMS, NEMS, ICs and Electronic Components, Zurich, Switzerland, 21-22 March 2012. *Smart systems integration*. Berlin; Offenbach: VDE Verlag, cop. 2012, str. 1-8, ilustr. [COBISS.SI-ID [9034324](#)]
43. JELENC, Janez, KRAJNIK, Peter, REMŠKAR, Maja. Rastlinska olja z dodanimi nanocevkami MoS [spodaj]2 kot učinkovita zelena maziva. V: VIŽINTIN, Jože (ur.), SEDLAČEK, Marko (ur.). Posvetovanje o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki = Conference on Tribology, Metal Working Fluids and Technical Diagnostics [tudi] SLOTRIB 2012, Ljubljana, Slovenija, 15. november 2012. *Zbornik predavanj Posvetovanja o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki*. Ljubljana: Slovensko društvo za tribologijo: = Slovenian Society for Tribology, 2012, str. 47-52. [COBISS.SI-ID [26299175](#)]
44. REMŠKAR, Maja, JELENC, Janez, PASKVALE, Srečko, ISKRA, Ivan. Samo-mazalni polimerni nanokompozit na osnovi polietilenov oksida-PEO z dodanimi nanocevkami MoS[spodaj]2. V: VIŽINTIN, Jože (ur.), SEDLAČEK, Marko (ur.). Posvetovanje o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki = Conference on Tribology, Metal Working Fluids and Technical Diagnostics [tudi] SLOTRIB 2012, Ljubljana, Slovenija, 15. november 2012. *Zbornik predavanj Posvetovanja o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki*.

Ljubljana: Slovensko društvo za tribologijo: = Slovenian Society for Tribology, 2012, str. 193-197. [COBISS.SI-ID [26299431](#)]

45. PUŠAVEC, Franci, JELENC, Janez, KRAJNIK, Peter, REMŠKAR, Maja. Nano hladilno mazalna sredstva in analiza tornih razmer pri obrezovalnih procesih. V: VIŽINTIN, Jože (ur.), SEDLAČEK, Marko (ur.). Posvetovanje o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki = Conference on Tribology, Metal Working Fluids and Technical Diagnostics [tudi] SLOTRIB 2012, Ljubljana, Slovenija, 15. november 2012. *Zbornik predavanj Posvetovanja o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki*. Ljubljana: Slovensko društvo za tribologijo: = Slovenian Society for Tribology, 2012, str. 199-210. [COBISS.SI-ID [26299687](#)]
46. KOGOVSĚEK, Janez, REMŠKAR, Maja, KALIN, Mitjan. Vpliv hrapavosti in utekanja jeklenih površin pri mazanju z MoS[spodaj]<sub>2</sub> nanocevkami. V: VIŽINTIN, Jože (ur.), SEDLAČEK, Marko (ur.). Posvetovanje o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki = Conference on Tribology, Metal Working Fluids and Technical Diagnostics [tudi] SLOTRIB 2012, Ljubljana, Slovenija, 15. november 2012. *Zbornik predavanj Posvetovanja o tribologiji, hladilno mazalnih sredstvih in tehnični diagnostiki*. Ljubljana: Slovensko društvo za tribologijo: = Slovenian Society for Tribology, 2012, str. 233-246. [COBISS.SI-ID [26299943](#)]
47. MAKAROVICĚ, Kostja, MEDEN, Anton, HROVAT, Marko, HOLC, Janez, BENČAN, Andreja, DAKSKOBLER, Aleš, BELAVIČ, Darko, KOSEC, Marija. The effect of the firing temperature on the properties of LTCC. V: PETELIN, Dejan (ur.), TAVČAR, Aleš (ur.), KALUŽA, Boštjan (ur.). 4. študentska konferenca Mednarodne podiplomske šole Jožefa Stefana = 4th Jožef Stefan International Postgraduate School Students Conference, 25. maj 2012, Ljubljana, Slovenija. *Zbornik*. Ljubljana: Mednarodna podiplomska šola Jožefa Stefana, 2012, str. 261-267. [COBISS.SI-ID [26258983](#)]

#### 1.09 Objavljeni strokovni prispevek na konferenci | *Published Professional Conference Contribution*

1. KOSEC, Marija, HOLC, Janez, URŠIČ, Hana, BELAVIČ, Darko. Keramični senzorji tlaka in hladilni sistemi Ceramic sensors and cooling devices. V: MARČIČ, Tine (ur.), WEINGERL, Sabina (ur.), STERGAR, Bojan (ur.), KOROŠEC, Lucijan (ur.), GAJZER, Matej (ur.). SPOT 2012, sredo, 13. in četrtek, 14. junij 2012, Nova Gorica. *Inovativni pretvorniki električne energije : zbornik prispevkov dvodnevne strokovne posveta, sredo, 13. in četrtek, 14. junij 2012, Hotel Perla, Nova Gorica*. Maribor: TECES - Tehnološki center za električne stroje, 2012, str. 60-61. [COBISS.SI-ID [25898791](#)]

#### 1.10 Objavljeni povzetek znanstvenega prispevka na konferenci (vabljen predavanje) | *Invited lecture*

1. ŽUMER, Slobodan, PORENTA, Tine, RAVNIK, Miha. Imprinting of defect superstructures in chiral nematics by complex laser tweezers : modeling and simulations. V: *4th Workshop on Liquid Crystals for Photonics, 9-11 December 2012, The Hong Kong University of Science and Technology*. Hong Kong: The Hong Kong University of Science and Technology, 2012, str. 22. [COBISS.SI-ID [2522980](#)]
2. KOSEC, Marija, MALIČ, Barbara, ROŽIČ, Brigita, KUTNJAK, Zdravko, URŠIČ, Hana, HOLC, Janez. A large electrocaloric response of ceramic materials. V: ISAF ECAPD PFM 2012, 21st International Symposium on Applications of Ferroelectrics, 11th European Conference on Applications of Polar Dielectrics, 4th Conference Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, 9-13 July, Aveiro, Portugal. *Abstract book*. [S. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2012, str. 224. [COBISS.SI-ID [25976359](#)]

3. KOSEC, Marija, MALIČ, Barbara, ROŽIČ, Brigita, KUTNJAK, Zdravko, URŠIČ, Hana, HOLC, Janez. Electrocaloric response of relaxor ferroelectrics. V: AMEC-2012, 8th Asian Meeting on Electroceramics, 1-5 July 2012, Penang, Malasia. *Abstracts book*. [S. l.]: s. n., 2012, str. 43. [COBISS.SI-ID [25974823](#)]
4. BERNIK, Slavko, PODLOGAR, Matejka, RICHARDSON, Jacob J., VENGUST, Damjan, DANEU, Nina, REČNIK, Aleksander. Low-temperature hydrothermal growth of transparent-conductive ZnO films on a glass substrate. V: IUMRS-ICEM 2012, International Conference on Electronic Materials, September 23-28, Yokohama, Japan. *Abstracts*. [S. l.]: The Materials Research Society of Japan, 2012, 1 str. [COBISS.SI-ID [26140967](#)]
5. PODLIPEC, Rok, JURAŠIN, Darija, GORGIEVA, Selestina, KOKOL, Vanja, ŠTRANCAR, Janez. Can we tune biopolymer-scaffold's properties by correlating macro and molecular studies?. V: *E-MRS 2012 fall meeting, September 17-21, Warsaw University of Technology*. Strasbourg: European Materials Research Society, 2012, [1] str. [http://www.emrs-strasbourg.com/index.php?option=com\\_abstract&task=view&id=183&day=2012-09-20&year=2012&Itemid=99999999&id\\_season=8](http://www.emrs-strasbourg.com/index.php?option=com_abstract&task=view&id=183&day=2012-09-20&year=2012&Itemid=99999999&id_season=8). [COBISS.SI-ID [16271638](#)]
6. KUTNJAK, Zdravko, ROŽIČ, Brigita, MALIČ, Barbara, URŠIČ, Hana, HOLC, Janez, KOSEC, Marija, PIRC, Raša, LU, Sheng-Guo, ZHANG, Q. M. Enhancement of the electromechanical and electrocaloric effects near the critical point in ferroelectric relaxor materials. V: *Electronic materials and applications 2012, January 18-20, 2012, Orlando, FL, : meeting guide*. [S. l.]: s. n., 2012, str. 39. [COBISS.SI-ID [25563175](#)]
7. ŽUMER, Slobodan. Topological soft matter : nematic braids stabilized by geometry and chirality : [invited talk]. V: *Frontiers of soft matter : a symposium honoring professor Noel A. Clark on the occasion of his 70th birthday, The University of Colorado, Boulder, May 16-18, 2012*. Boulder: University of Colorado, 2012, str. 21. [COBISS.SI-ID [2428516](#)]
8. ŽUMER, Slobodan. Geometry and topology of chiral nematic colloids : links, knots, and braids : [invited talk]. V: *International Conference Phase Transition Dynamics in Soft Matter : Bridging Microscale and Mesoscale, February 2012, Kyoto, Japan : [abstracts]*. Kyoto: University, 2012, str. 25. [COBISS.SI-ID [2433380](#)]
9. PIRC, Raša, ROŽIČ, Brigita, NOVAK, Nikola, KUTNJAK, Zdravko. Field-induced phase transitions in relaxor ferroelectrics : theory and experiment. V: *International Workshop on Relaxor Ferroelectrics : October 7th-11th, 2012, Edesheim, Germany*. Darmstadt: Technische Universität, 2012, str. 26. [COBISS.SI-ID [26176295](#)]
10. RAVNIK, Miha. Energetics of entangled nematic colloids : [invited talk]. V: *KITP Miniprogram: Knotted fields, June 18 - July 13, 2012, University of California, Santa Barbara*. Santa Barbara: The Kavli Institute for Theoretical Physics, 2012, 31 str. [http://online.kitp.ucsb.edu/online/knots\\_m12/ravnik/](http://online.kitp.ucsb.edu/online/knots_m12/ravnik/). [COBISS.SI-ID [2450788](#)]
11. ŽUMER, Slobodan. Defect structures in colloidal and chiral nematics : from braids to knots : [invited talk]. V: *KITP Miniprogram: Knotted fields, June 18 - July 13, 2012, University of California, Santa Barbara*. Santa Barbara: The Kavli Institute for Theoretical Physics, 2012, 40 str. <http://online.kitp.ucsb.edu/online/knots-m12/zumer/>. [COBISS.SI-ID [2450532](#)]
12. TKALEC, Uroš. Topology-assisted assembly of colloidal structures in thin nematic layers. V: 24th International Liquid Crystal Conference, Mainz, August 19th - 24th 2012. *Scientific program*. Mainz: German Chemical Society, 2012. [COBISS.SI-ID [26056743](#)]
13. BERNIK, Slavko, PODLOGAR, Matejka, RICHARDSON, Jacob J., VENGUST, Damjan, DANEU, Nina, REČNIK, Aleksander. Synthesis of transparent ZnO films by low-temperature hydrothermal growth on a glass substrate. V: CRFFOMA-2012, China-Russia Forum on Ferroelectric/Optical Materials and Applications, April 23-28, 2012, Shanghai, China. *Technical program*. [S. l.]: s. n., 2012, str. 18. [COBISS.SI-ID [25775399](#)]

14. ROŽIČ, Brigita, KUTNJAK, Zdravko, MALIČ, Barbara, URŠIČ, Hana, KORUZA, Jurij, KOSEC, Marija, PIRC, Raša, LU, S. -G., ZHANG, Qiming M. Elektrokaleriki : materiali za aplikacijo v hladilnih in grelnih napravah nove generacije = Electrocalorics : materials for application in cooling and heating new generation devices. V: ROBNIK, Marko (ur.), KOROŠAK, Dean (ur.). 11. simpozij fizikov Univerze v Mariboru, 6., 7. in 8. december 2012, Maribor. *Zbornik povzetkov*. Maribor: CAMTP, 2012. [COBISS.SI-ID [26338087](#)]
15. SKAČEJ, Gregor. Molekularno modeliranje tekočokristalnih elastomerov = Molecular modeling of liquid crystal elastomers. V: ROBNIK, Marko (ur.), KOROŠAK, Dean (ur.). 11. simpozij fizikov Univerze v Mariboru, 6., 7. in 8. december 2012, Maribor. *Zbornik povzetkov*. Maribor: CAMTP, 2012, str. [78-79]. [COBISS.SI-ID [2516836](#)]
16. TKALEC, Uroš. Vozlanje defektov v nematskih koloidih. V: HUMAR, Matjaž (ur.), ŠKARABOT, Miha (ur.). 8. konferenca fizikov v osnovnih raziskavah, Rimske Toplice, 19. oktober 2012. *Zbornik povzetkov*. Ljubljana: DMFA - založništvo, 2012, str. 25. [COBISS.SI-ID [26287399](#)]

### 1.12 Objavljeni povzetek znanstvenega prispevka na konferenci | *Published Scientific Conference Contribution*

1. KUTNJAK, Zdravko, ROŽIČ, Brigita, MALIČ, Barbara, URŠIČ, Hana, HOLC, Janez, KOSEC, Marija. Giant electrocaloric effect in relaxor ceramic materials for dielectric refrigeration. V: *Electronic materials and applications 2012, January 23-25, 2013 Orlando, FL, : conference program*. [S. l.]: The American Ceramic Society, 2013, str. 69. [COBISS.SI-ID [26527783](#)]
2. URŠIČ, Hana, TELLIER, Jenny, ROJAC, Tadej, HOLC, Janez, TREFALT, Gregor, BOBNAR, Vid, KOSEC, Marija. Low temperature processing of  $\text{Pb}(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$  ceramics. V: ISAF ECAPD PFM 2012, 21st International Symposium on Applications of Ferroelectrics, 11th European Conference on Applications of Polar Dielectrics, 4th Conference Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, 9-13 July, Aveiro, Portugal. *Abstract book*. [S. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2012, str. 55. [COBISS.SI-ID [25976615](#)]
3. ROŽIČ, Brigita, KUTNJAK, Zdravko, MALIČ, Barbara, URŠIČ, Hana, KORUZA, Jurij, HOLC, Janez, KOSEC, Marija, LU, Sheng-Guo, PIRC, Raša, NEESE, Bret, ZHANG, Q. M. Giant electrocaloric effect in organic and inorganic ferroelectric and relaxor ferroelectric materials. V: ISAF ECAPD PFM 2012, 21st International Symposium on Applications of Ferroelectrics, 11th European Conference on Applications of Polar Dielectrics, 4th Conference Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, 9-13 July, Aveiro, Portugal. *Abstract book*. [S. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2012, str. 227. [COBISS.SI-ID [25983527](#)]
4. PAVLIČ, Jernej, KOSEC, Marija, HOLC, Janez, ROJAC, Tadej. Crystallographically oriented  $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$  thick films prepared by screen-printing. V: ISAF ECAPD PFM 2012, 21st International Symposium on Applications of Ferroelectrics, 11th European Conference on Applications of Polar Dielectrics, 4th Conference Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, 9-13 July, Aveiro, Portugal. *Abstract book*. [S. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2012, str. 541. [COBISS.SI-ID [25977383](#)]
5. PODLOGAR, Matejka, RICHARDSON, Jacob J., VENGUST, Damjan, DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Synthesis and characterization of transparent and conductive ZnO films. V: The 7th International Workshop on Zinc Oxide and Related Materials, IWZNO 2012, 11-14th September 2012, Nice, France. *Abstracts book*. [S. l.: s. n.], 2012, str. 166. [COBISS.SI-ID [26122279](#)]

6. ARSOV, Zoran, ŠVAJGER, Urban, MRAVLJAK, Janez, PAJK, Stane, KOKLIČ, Tilen, ŠTRANCAR, Janez, ANDERLUH, Gregor. Monitoring receptor-mediated dendritic cell internalization by pH-sensitive fluorescent probe. V: 7th Christmas Biophysics Workshop, XBW 2012, 17.-18.12.2012, Riegersburg, Austria. *Book of abstracts*. [S. l.: s. n.], 2012, str. 15. [COBISS.SI-ID [26362919](#)]
7. **343.** KOKLIČ, Tilen, PODLIPEC, Rok, GARVAS, Maja, ORTHMANN, Andrea, ŠENTJURC, Marjeta, ZEISIG, Reiner, ŠTRANCAR, Janez. Perifosine containing liposomal nanocarriers - yet another drug delivery system across barrier forming cells. V: 7th Christmas Biophysics Workshop, XBW 2012, 17.-18.12.2012, Riegersburg, Austria. *Book of abstracts*. [S. l.: s. n.], 2012, str. 18. [COBISS.SI-ID [26363175](#)]
8. ARSOV, Zoran, URBANČIČ, Iztok, GARVAS, Maja, BIGLINO, Daniele, LJUBETIČ, Ajasja, PODLIPEC, Rok, KOKLIČ, Tilen, ŠTRANCAR, Janez. Confocal fluorescence microspectroscopy : powerful biophysical tool to resolve molecular environment. V: ZAKRZEWSKA, Joanna (ur.), ŽIVIĆ, Miroslav (ur.), ANDJUS, Pavle (ur.). Regional Biophysics Conference 2012, Kladovo-Beograd, Serbia, September 03-07, 2012. *Book of abstracts*. Beograd: Društvo biofizičara Srbije, 2012, str. 41. [COBISS.SI-ID [26065191](#)]
9. KOKLIČ, Tilen, ORTHMANN, Andrea, PODLIPEC, Rok, ŠENTJURC, Marjeta, ŠTRANCAR, Janez, ZEISIG, Reiner. Effect of perifosine on liposome membrane characteristics, transcytosis and liposome contents leakage. V: ZAKRZEWSKA, Joanna (ur.), ŽIVIĆ, Miroslav (ur.), ANDJUS, Pavle (ur.). Regional Biophysics Conference 2012, Kladovo-Beograd, Serbia, September 03-07, 2012. *Book of abstracts*. Beograd: Društvo biofizičara Srbije, 2012, str. 45. [COBISS.SI-ID [26065447](#)]
10. PODLIPEC, Rok, KOKLIČ, Tilen, ŠTRANCAR, Janez, ŠENTJURC, Marjeta. Influence of cancerostatic perifosine on membrane fluidity of different cell lines. V: ZAKRZEWSKA, Joanna (ur.), ŽIVIĆ, Miroslav (ur.), ANDJUS, Pavle (ur.). Regional Biophysics Conference 2012, Kladovo-Beograd, Serbia, September 03-07, 2012. *Book of abstracts*. Beograd: Društvo biofizičara Srbije, 2012, str. 91. [COBISS.SI-ID [26065703](#)]
11. GARVAS, Maja, TESTEN, Anže, KOKLIČ, Tilen, ŠTRANCAR, Janez. Albumin attenuates phototoxicity of titanium oxide based nanotubes by intercepting photoinduced hydroxyl radicals. V: MIHAILOVIĆ, Dragan (ur.), KOBE, Spomenka (ur.), KAUČIČ, Venčeslav (ur.), OSTERMAN, Natan (ur.), NOVAK TUŠAR, Nataša (ur.), ŽUŽEK ROŽMAN, Kristina (ur.), ŠTURM, Sašo (ur.). SLONANO 2012, 24-26 October 2012, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Institut Jožef Stefan, 2012, str. 27. [COBISS.SI-ID [26410535](#)]
12. **353.** PODLOGAR, Matejka, VENGUST, Damjan, STROJNIK, Martin, RICHARDSON, Jacob J., DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Optimization of seed-layer for the preparation of transparent conductive ZnO films from aqueous solution at 90 °. V: MIHAILOVIĆ, Dragan (ur.), KOBE, Spomenka (ur.), KAUČIČ, Venčeslav (ur.), OSTERMAN, Natan (ur.), NOVAK TUŠAR, Nataša (ur.), ŽUŽEK ROŽMAN, Kristina (ur.), ŠTURM, Sašo (ur.). SLONANO 2012, 24-26 October 2012, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Institut Jožef Stefan, 2012, str. 27. [COBISS.SI-ID [26410279](#)]
13. TKALEC, Uroš, RAVNIK, Miha, ČOPAR, Simon, ŽUMER, Slobodan, MUŠEVIČ, Igor. Laser light-induced knotting of disclination lines in nematic liquid crystal colloids. V: MIHAILOVIĆ, Dragan (ur.), KOBE, Spomenka (ur.), KAUČIČ, Venčeslav (ur.), OSTERMAN, Natan (ur.), NOVAK TUŠAR, Nataša (ur.), ŽUŽEK ROŽMAN, Kristina (ur.), ŠTURM, Sašo (ur.). SLONANO 2012, 24-26 October 2012, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Institut Jožef Stefan, 2012, str. 59. [COBISS.SI-ID [26288679](#)]
14. ROŽIČ, Brigita, KUTNJAK, Zdravko, URŠIČ, Hana, MALIČ, Barbara, MALIČ, Barbara, KORUZA, Jurij, KOSEC, Marija, PIRC, Raša, LU, S. -G., NEESE, Bret, ZHANG, Qiming M. Nano-electrocalorics : nanomaterials for application in cooling and heating new generation devices.

V: MIHAILOVIĆ, Dragan (ur.), KOBE, Spomenka (ur.), KAUČIČ, Venčeslav (ur.), OSTERMAN, Natan (ur.), NOVAK TUŠAR, Nataša (ur.), ŽUŽEK ROŽMAN, Kristina (ur.), ŠTURM, Sašo (ur.). SLONANO 2012, 24-26 October 2012, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Institut Jožef Stefan, 2012, str. 66. [COBISS.SI-ID [26220583](#)]

15. VIŠIĆ, Bojana, KRŽAN, Andrej, ISKRA, Jernej, JELENC, Janez, REMŠKAR, Maja. Structural and mechanical properties of PVDF-MoS[spodaj]2 nanotubes composites. V: MIHAILOVIĆ, Dragan (ur.), KOBE, Spomenka (ur.), KAUČIČ, Venčeslav (ur.), OSTERMAN, Natan (ur.), NOVAK TUŠAR, Nataša (ur.), ŽUŽEK ROŽMAN, Kristina (ur.), ŠTURM, Sašo (ur.). SLONANO 2012, 24-26 October 2012, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Institut Jožef Stefan, 2012, str. 102. [COBISS.SI-ID [26237735](#)]
16. KOGOVSĚEK, Janez, REMŠKAR, Maja, MRZEL, Aleš, KALIN, Mitjan. The effect of surface roughness and running-in on the lubrication of steel surfaces with MoS<sub>2</sub> nanotubes in oil. V: MIHAILOVIĆ, Dragan (ur.), KOBE, Spomenka (ur.), KAUČIČ, Venčeslav (ur.), OSTERMAN, Natan (ur.), NOVAK TUŠAR, Nataša (ur.), ŽUŽEK ROŽMAN, Kristina (ur.), ŠTURM, Sašo (ur.). SLONANO 2012, 24-26 October 2012, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Institut Jožef Stefan, 2012, str. 108. [COBISS.SI-ID [12516891](#)]
17. PORENTA, Tine, RAVNIK, Miha, ŽUMER, Slobodan. Complex field-stabilised nematic defect structures in Laguerre-Gaussian optical tweezers. V: HUMAR, Matjaž (ur.), RAVNIK, Miha (ur.). Workshop on assembling of superstructures in soft matter, October 11-13 2012, Ljubljana, Slovenia. *Book of abstracts*. [S. l.: s. n.], 2012, str. 5. [COBISS.SI-ID [2494820](#)]
18. RAVNIK, Miha, DONTABHAKTUNI, Jayasri, ŽUMER, Slobodan. Tilings of nematic colloidal platelets. V: HUMAR, Matjaž (ur.), RAVNIK, Miha (ur.). Workshop on assembling of superstructures in soft matter, October 11-13 2012, Ljubljana, Slovenia. *Book of abstracts*. [S. l.: s. n.], 2012, str. 27. [COBISS.SI-ID [2495332](#)]
19. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, CORDOYIANNIS, George, JAGLIČIĆ, Zvonko, KRALJ, Samo, TZITZIOS, Vassilios, KUTNJAK, Zdravko. Mixture of magnetic nanoparticles and the ferroelectric liquid crystals : new soft magnetoelectrics. V: HUMAR, Matjaž (ur.), RAVNIK, Miha (ur.). Workshop on assembling of superstructures in soft matter, October 11-13 2012, Ljubljana, Slovenia. *Book of abstracts*. [S. l.: s. n.], 2012, str. 38. [COBISS.SI-ID [26175527](#)]
20. SEČ, David, RAVNIK, Miha, ŽUMER, Slobodan. Defect trajectories in nematic shells. V: HUMAR, Matjaž (ur.), RAVNIK, Miha (ur.). Workshop on assembling of superstructures in soft matter, October 11-13 2012, Ljubljana, Slovenia. *Book of abstracts*. [S. l.: s. n.], 2012, str. 39. [COBISS.SI-ID [2495844](#)], [Scopus]
21. ŽUMER, Slobodan, ČOPAR, Simon, MUŠEVIČ, Igor, RAVNIK, Miha, TKALEC, Uroš. Topology of knots and links in chiral nematic colloids : [presented at APS March Meeting, February 27-March 2 2012, Boston, Massachusetts]. *Bull. Am. Phys. Soc.*, 2012, vol. 57, no. 1, 1 str. [COBISS.SI-ID [26287655](#)]
22. PODLIPEC, Rok, JURAŠIN, Darija, GORGIEVA, Selestina, KOKOL, Vanja, ŠTRANCAR, Janez. The study and experimental approaches of cell-scaffold contact. V: *E-MRS 2012 fall meeting, September 17-21, Warsaw University of Technology*. Strasbourg: European Materials Research Society, 2012, [1] str. [http://www.emrs-strasbourg.com/index.php?option=com\\_abstract&task=view&id=183&day=2012-09-20&year=2012&Itemid=99999999&id\\_season=8](http://www.emrs-strasbourg.com/index.php?option=com_abstract&task=view&id=183&day=2012-09-20&year=2012&Itemid=99999999&id_season=8). [COBISS.SI-ID [16271894](#)]
23. KORUZA, Jurij, MALIČ, Barbara, KOSEC, Marija. Microstructure design of sodium niobate ceramics. V: *Electroceramics XIII, June 24th - 27th 2012, Enschede, The Netherlands*. Enschede: University of Twente, 2012, str. 50. [COBISS.SI-ID [25924391](#)]
24. NOSHCHENKO, Oleksandr, KUŠČER, Danijela, KOSEC, Marija. Preparation of lead-zirconate titanate water-based suspensions and patterning of thick-film structures by piezoelectric ink-



jet printing. V: *Electroceramics XIII, June 24th - 27th 2012, Enschede, The Netherlands*. Enschede: University of Twente, 2012, str. 125. [COBISS.SI-ID [25925415](#)]

25. BERNIK, Slavko, PODLOGAR, Matejka, RICHARDSON, Jacob J., VENGUST, Damjan, DANEU, Nina, REČNIK, Aleksander. Transparent ZnO films on a glass substrate prepared by low-temperature hydrothermal growth. V: *Electroceramics XIII, June 24th - 27th 2012, Enschede, The Netherlands*. Enschede: University of Twente, 2012, str. 156. [COBISS.SI-ID [26726951](#)]
26. NOVAK, Nikola, PIRC, Raša, WENCKA, Magdalena, KUTNJAK, Zdravko. The ground state and the enhancement of the electromechanical effect in ferroelectric relaxor materials. V: MS&T'12, Materials Science & Technology 2012, Conference and Exhibition, October 7-11 2012, Pittsburgh, Pennsylvania, USA. *Final program*. [S. l.: s. n.], 2012. [COBISS.SI-ID [26218535](#)]
27. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, DROFENIK, Mihael, ARČON, Denis, KUTNJAK, Zdravko. New soft composite and spin amplitude modulation driven solid multilayers. V: MS&T'12, Materials Science & Technology 2012, Conference and Exhibition, October 7-11 2012, Pittsburgh, Pennsylvania, USA. *Final program*. [S. l.: s. n.], 2012. [COBISS.SI-ID [26219047](#)]
28. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, DROFENIK, Mihael, ARČON, Denis, KUTNJAK, Zdravko. New soft composite and spin amplitude modulation driven solid multiferroics. V: MS&T'12, Materials Science & Technology 2012, Conference and Exhibition, October 7-11 2012, Pittsburgh, Pennsylvania, USA. *Final program*. [S. l.: s. n.], 2012. [COBISS.SI-ID [26212903](#)]
29. MALIČ, Barbara, KMET, Brigita, TCHERNYCHOVA, Elena, KOSEC, Marija, ROŽIČ, Brigita, KUTNJAK, Zdravko. Solution-based processing for ceramic materials. V: MS&T'12, Materials Science & Technology 2012, Conference and Exhibition, October 7-11 2012, Pittsburgh, Pennsylvania, USA. *Final program*. [S. l.: s. n.], 2012. [COBISS.SI-ID [26213415](#)]
30. URŠIČ, Hana, HOLC, Janez, TREFALT, Gregor, ROJAC, Tadej, BOBNAR, Vid, TELLIER, Jenny, KOSEC, Marija. Low temperature processing and high performing of  $\text{Pb}(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$  and  $0.57\text{Pb}(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3\text{-}0.43\text{PbTiO}_3$ . V: *International Workshop on Relaxor Ferroelectrics : October 7th-11th, 2012, Edesheim, Germany*. Darmstadt: Technische Universität, 2012, str. 46. [COBISS.SI-ID [26176039](#)]
31. KUTNJAK, Zdravko, ROŽIČ, Brigita, MALIČ, Barbara, URŠIČ, Hana, HOLC, Janez, KOSEC, Marija, PIRC, Raša, LU, Sheng-Guo, ZHANG, Q. M. Ceramic oxide relaxor ferroelectrics with giant electrocaloric effect for dielectric refrigeration. V: International Symposium on Integrated Functionalities, June 18-21, 2012, Hong Kong, China. *ISIF 2012*. Hong Kong: The Hong Kong Polytechnic University, 2012, str. 136. [COBISS.SI-ID [25910567](#)]
32. URŠIČ, Hana, HOLC, Janez, ROJAC, Tadej, DAMJANOVIĆ, Dragan, ALGUERÓ, Miguel, RICOTE, Jesús, KOSEC, Marija. Processing and properties of PMN-PT, PZT and PSN-PT thick films on alumina substrates. V: *Joint Conference COST SIMUFER MP0904 action "Single-and multiphase ferroics and multiferroics with restricted geometries" and the 9th Edition IEEE-ROMSC 2012 : 2012, 24-26th September 2012, Iasi, Romania*. Iasi: "Alexandru Ioan Cuza", University of Iasi, 2012, str. 51. [COBISS.SI-ID [26138407](#)]
33. PODLOGAR, Matejka, RICHARDSON, Jacob J., VENGUST, Damjan, STROJNIK, Martin, DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Low-temperature growth of transparent an conductive ZnO films on glass substrates from aqueous solution. V: ŽAGAR, Kristina (ur.), LENART, Alenka (ur.), PEČKO, Darja (ur.). 6th Young Researchers' Day 2012, 27 and 28 Febraury, 2012, Ljubljana. [Program and abstract book]. Ljubljana: Jožef Stefan Institute, Department of Nanostructured Materials, 2012, str. 36. [COBISS.SI-ID [25627431](#)]

34. KOŠIR, Mateja, DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Microstructural and structural studies of compounds in the  $(\text{ZnO})_{\text{k}}\text{In}_{\text{20}}_{\text{3}}$  system for thermoelectric applications. V: LISJAK, Darja (ur.), DUŠAK, Peter (ur.), KRALJ, Slavko (ur.). 7th Young Researchers' Day, 19 February, 2013, Ljubljana, Slovenia. [Program and abstract book]. Ljubljana: Institut Jožef Stefan, 2013, str. 36. [COBISS.SI-ID [26616103](#)]
35. UMEK, Polona, GLOTER, Alexandre, BITTENCOURT, Carla, HITCHOCK, A. P., NAFI, Ebrahim, DOMINKO, Robert, JAGLIČIČ, Zvonko, ARČON, Denis. Determination of the local coordination and valence states of cobalt in sodium titanate nanoribbons. V: NanoSea2012, 4th International Conference on Nano-Structures Self-Assembly, 25-29 June 2012, S. Margherita di Pula, Sardinia, Italy. Program and book of abstracts. [S. l.: s. n.], 2012, str. 82. [COBISS.SI-ID [25956135](#)]
36. KORUZA, Jurij, MALIČ, Barbara, NOSHCHENKO, Oleksandr, KOSEC, Marija. A top-down approach for preparation of sodium niobate nanopowder. V: GODEC, Matjaž (ur.), DONIK, Črtomir (ur.), PAULIN, Irena (ur.), KOCIJAN, Aleksandra (ur.). 20. jubilejna konferenca o materialih in tehnologijah, 17.-19. oktober 2012, Portorož, Slovenija. Program in knjiga povzetkov. Ljubljana: Inštitut za kovinske materiale in tehnologije, 2012, str. 82. [COBISS.SI-ID [26187303](#)]
37. KOŠIR, Mateja, DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Microstructural and structural studies of the  $(\text{ZnO})_{\text{x}}\text{In}_{\text{20}}_{\text{3}}$  system for thermoelectric applications. V: GODEC, Matjaž (ur.), DONIK, Črtomir (ur.), PAULIN, Irena (ur.), KOCIJAN, Aleksandra (ur.). 20. jubilejna konferenca o materialih in tehnologijah, 17.-19. oktober 2012, Portorož, Slovenija. Program in knjiga povzetkov. Ljubljana: Inštitut za kovinske materiale in tehnologije, 2012, str. 84. [COBISS.SI-ID [26195751](#)]
38. MAKAROVIČ, Kostja, MEDEN, Anton, HROVAT, Marko, HOLC, Janez, BENČAN, Andreja, DAKSKOBLER, Aleš, KOSEC, Marija. The crystallization of anorthite and its effect to the properties of the LTCC material. V: GODEC, Matjaž (ur.), DONIK, Črtomir (ur.), PAULIN, Irena (ur.), KOCIJAN, Aleksandra (ur.). 20. jubilejna konferenca o materialih in tehnologijah, 17.-19. oktober 2012, Portorož, Slovenija. Program in knjiga povzetkov. Ljubljana: Inštitut za kovinske materiale in tehnologije, 2012, str. 94. [COBISS.SI-ID [26187815](#)]
39. SODERŽNIK, Marko, MCGUINNESS, Paul J., KOBÉ, Spomenka. Microstructural engineering of Nd-Fe-B magnets. V: GODEC, Matjaž (ur.), DONIK, Črtomir (ur.), PAULIN, Irena (ur.), KOCIJAN, Aleksandra (ur.). 20. jubilejna konferenca o materialih in tehnologijah, 17.-19. oktober 2012, Portorož, Slovenija. Program in knjiga povzetkov. Ljubljana: Inštitut za kovinske materiale in tehnologije, 2012, str. 112. [COBISS.SI-ID [26204455](#)]
40. DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Growth of ZnO grains under the influence of inversion boundaries with different crystallographic configurations. V: GODEC, Matjaž (ur.), DONIK, Črtomir (ur.), PAULIN, Irena (ur.), KOCIJAN, Aleksandra (ur.). 20. jubilejna konferenca o materialih in tehnologijah, 17.-19. oktober 2012, Portorož, Slovenija. Program in knjiga povzetkov. Ljubljana: Inštitut za kovinske materiale in tehnologije, 2012, str. 157. [COBISS.SI-ID [26194983](#)]
41. KUTNJAK, Zdravko, ROŽIČ, Brigita, LU, Sheng-Guo, ZHANG, Qiming M. Giant electrical to thermal energy conversion in P(VDF-TrFe)-based polymer ferroelectric films. V: 18th Symposium on Thermophysical Properties, June 24-29, 2012, Boulder, Colorado, USA. Program. [S. l.: s. n.], 2012. [COBISS.SI-ID [26221863](#)]
42. KUTNJAK, Zdravko, ROŽIČ, Brigita, MALIČ, Barbara, URŠIČ, Hana, HOLC, Janez, KOSEC, Marija. Giant electrocaloric effect in relaxor ferroelectrics for dielectric refrigeration. V: 18th Symposium on Thermophysical Properties, June 24-29, 2012, Boulder, Colorado, USA. Program. [S. l.: s. n.], 2012. [COBISS.SI-ID [26221351](#)]

43. PORENTA, Tine, RAVNIK, Miha, ŽUMER, Slobodan. Complex field-stabilised nematic defect structures in Laguerre-Gaussian optical tweezers. V: 24th International Liquid Crystal Conference, Mainz, August 19th - 24th 2012. *Scientific program*. Mainz: German Chemical Society, 2012, 1 str. [COBISS.SI-ID 2470500]
44. ISKRA, Ivan, ČEŠAREK, Maja, VIŠIĆ, Bojana, REMŠKAR, Maja. Size selective measurement of ultrafine particles in air laboratory for production MoS<sub>2</sub> nanotubes and MoSi nanowires. V: *TMCN'12 : Transition Metal Chalcogenide and Halide Nanostructures Meeting, July 2th - 4th 2012, Mainz, Germany*. Mainz: Johannes Gutenberg Universität, 2012, str. 30. [COBISS.SI-ID 25956903]
45. DERGAN, Ana, VIŠIĆ, Bojana, DOMINKO, Robert, REMŠKAR, Maja, ARČON, Denis. Oxidation of exfoliated MoS<sub>2</sub> coaxial nanotubes : EPR and Raman study. V: *TMCN'12 : Transition Metal Chalcogenide and Halide Nanostructures Meeting, July 2th - 4th 2012, Mainz, Germany*. Mainz: Johannes Gutenberg Universität, 2012, str. 44. [COBISS.SI-ID 25957415]
46. RAVNIK, Miha, ŽUMER, Slobodan. Koloidi, fluidika, topologija in fotonika v kompleksnih nematskih tekočinah. V: HUMAR, Matjaž (ur.), ŠKARABOT, Miha (ur.). 8. konferenca fizikov v osnovnih raziskavah, Rimske Toplice, 19. oktober 2012. *Zbornik povzetkov*. Ljubljana: DMFA - založništvo, 2012, str. 69. [COBISS.SI-ID 2502756]
47. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, CORDOYIANNIS, George, JAGLIČIĆ, Zvonko, KRALJ, Samo. Nov mehki magnetoelektrični material : mešanica feroelektričnega tekočega kristala in feromagnetnih nanodelcev. V: HUMAR, Matjaž (ur.), ŠKARABOT, Miha (ur.). 8. konferenca fizikov v osnovnih raziskavah, Rimske Toplice, 19. oktober 2012. *Zbornik povzetkov*. Ljubljana: DMFA - založništvo, 2012, str. 71. [COBISS.SI-ID 26198567]
48. SEČ, David, RAVNIK, Miha, ŽUMER, Slobodan. Trajektorije defektnih linij v nematskih lupinah. V: HUMAR, Matjaž (ur.), ŠKARABOT, Miha (ur.). 8. konferenca fizikov v osnovnih raziskavah, Rimske Toplice, 19. oktober 2012. *Zbornik povzetkov*. Ljubljana: DMFA - založništvo, 2012, str. 72. [COBISS.SI-ID 2503012]

#### 1.16 Samostojni znanstveni sestavek ali poglavje v monografski publikaciji | *Independent scientific article or chapter in a monograph*

1. DRMOTA, Ana, DROFENIK, Mihael, KOSELJ, Jure, ŽNIDARŠIČ, Andrej. Microemulsion method for synthesis of magnetic oxide nanoparticles. V: NAJJAR, Reza (ur.). *Microemulsions : an introduction to properties and applications*. Rijeka: InTech, 2012, str. 191-214. [http://cdn.intechopen.com/pdfs/32557/InTech-Microemulsion method for synthesis of magnetic oxide nanoparticles.pdf](http://cdn.intechopen.com/pdfs/32557/InTech-Microemulsion%20method%20for%20synthesis%20of%20magnetic%20oxide%20nanoparticles.pdf). [COBISS.SI-ID 35903493]
2. HROVAT, Marko, BELAVIČ, Darko, SANTO-ZARNIK, Marina, PAVLIN, Marko, HOLC, Janez, CILENŠEK, Jena. Compatibility of thick-film piezo-resistors with different LTCC materials. V: PANZINI, Michael I. (ur.). *Thick films : properties, technology and applications*, (Materials science and technologies), (Electrical engineering developments). New York: Nova Science Publishers, cop. 2012, str. 283-299. [COBISS.SI-ID 25943847]

#### 1.25 Drugi sestavni deli | *Other publications*

1. URŠIČ, Hana. Two- and three-dimensional ceramic structures. V: ŠTRANCAR, Janez (ur.). *NAMASTE center odličnosti : centre of excellence*. Ljubljana: Center odličnosti NAMASTE, zavod za raziskave in razvoj naprednih nekovinskih materialov s tehnologijami prihodnosti, 2012, str. 20-21. [COBISS.SI-ID 26532903]

2. URŠIČ, Hana. Functional materials. V: ŠTRANCAR, Janez (ur.). *NAMASTE center odličnosti : centre of excellence*. Ljubljana: Center odličnosti NAMASTE, zavod za raziskave in razvoj naprednih nekovinskih materialov s tehnologijami prihodnosti, 2012, str. 24-25. [COBISS.SI-ID [26533159](#)]
3. URŠIČ, Hana. Electrocaloric materials. V: ŠTRANCAR, Janez (ur.). *NAMASTE center odličnosti : centre of excellence*. Ljubljana: Center odličnosti NAMASTE, zavod za raziskave in razvoj naprednih nekovinskih materialov s tehnologijami prihodnosti, 2012, str. 102-103. [COBISS.SI-ID [26533415](#)]
4. ROŽIČ, Brigita. Mehki magnetoelektrik : mešanica feroelektričnega tekočega kristala in feromagnetnih nanodelcev. *Novice - IJS (Tisk. izd.)*. [Tiskana izd.], dec. 2012, št. 162, str. 5-7. [COBISS.SI-ID [26342439](#)]
5. KOSEC, Marija. Advanced materials and technologies for the future, the Centre of Excellence NAMASTE. *Quark (Engl. ed.)*. [English ed.], summer 2012, str. 110. [COBISS.SI-ID [26141735](#)]
6. BAN, Irena. Nanofluids for applications in magnetic hyperthermia. *Quark (Engl. ed.)*. [English ed.], summer 2012, str. 111. [COBISS.SI-ID [26141479](#)]
7. BERNIK, Slavko. R & D breakthrough in the field of ZnO-based varistor ceramics. *Quark (Engl. ed.)*. [English ed.], summer 2012, str. 112. [COBISS.SI-ID [26141223](#)]
8. ŽNIDARŠIČ, Andrej, MUŠIČ, Branka, VENTURINI, Peter. An electromagnetic absorption materials for use in architectural coatings. *Quark (Engl. ed.)*. [English ed.], summer 2012, str. 114. [COBISS.SI-ID [26141991](#)]

## 2.08 Doktorska disertacija | Ph.D.

1. ISKRA, Ivan. *Detekcija nanodelcev v aerosolih s kapacitivnim senzorjem : doktorska disertacija*. Ljubljana: [I. Iskra], 2012. 157 str., ilustr. [COBISS.SI-ID [9272660](#)]
2. ROŽIČ, Brigita. *Giant energy-conversion effects in soft and solid advanced materials : doctoral dissertation = Raziskave pojavov z ogromno pretvorbo energij v mehkih in trdnih naprednih materialih : doktorska disertacija*. Ljubljana: [B. Rožič], 2012. XII, 161 str., ilustr. [COBISS.SI-ID [261067008](#)]
3. TREFALT, Gregor. *A new synthesis route to Pb(Mg 1/3 [sub] Nb 2/3 [sub])O 3 [sub] -based materials by the controlled agglomeration of reagent particles : doctoral dissertation = Nova sintezna pot za pripravo materialov na osnovi Pb(Mg 1/3 [spodaj] Nb 2/3 [spodaj]) O 3 [spodaj] s kontrolirano aglomeracijo delcev reagentov : doktorska disertacija*. Ljubljana: [G. Trefalt], 2012. XII, 118 str., ilustr., tabele. [COBISS.SI-ID [261305088](#)]
4. MUŠIČ, Branka. *Novi funkcionalni premazi z magnetnimi delci : doktorska disertacija*. Ljubljana: [B. Mušič], 2012. 130 str., ilustr., tabele. [COBISS.SI-ID [35856645](#)]

## 2.11 Diplomsko delo | B.Sc.

1. ĐORIĆ, Marko. *Avtomatizacija laboratorijskih inštrumentov v programskem jeziku C++ : diplomsko delo*. Ljubljana: [M. Đorić], 2012. III, 52 str., ilustr. [COBISS.SI-ID [9178196](#)]
2. BANTAN, Ines. *Fazna sestava goste kordieritne keramike : diplomsko delo = Phase composition of dense cordierite ceramics*. Ljubljana: [I. Ramšak], jan. 2012. XV, 85 f., ilustr., priloge. [COBISS.SI-ID [952926](#)]

### 2.19 Radijska ali televizijska oddaja | **Radio or TV Broadcast**

1. DROBNE, Damjana, REMŠKAR, Maja, ISKRA, Ivan, KRISTL, Julijana. *(Ne)varnost nanodelcev : oddaja Ugriznimo znanost, RTV SLO 1, 13. mar. 2012.* Ljubljana: RTV Slovenija 1, 13. mar. 2012. <http://tvslo.si/predvajaj/ne-varnost-nanodelcev-oddaja-o-znanosti/ava2.131408627/>. [COBISS.SI-ID [2569039](#)]

### 3.14 Predavanje na tuji univerzi | **Invited lectures**

1. **609.** ŽUMER, Slobodan. *Colloidal and confined blue phases : [lecture given at Institute of Industrial Science, The University of Tokyo, February 17, 2012].* 2012. [COBISS.SI-ID [2410852](#)]
2. ŽUMER, Slobodan. *Defect structures in colloidal and chiral nematics : from braids to knots : [invited lecture at KITP Mini-program: Knotted Fields, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, 18 June - 13 July 2012].* 2012. [COBISS.SI-ID [2442340](#)]
3. REMŠKAR, Maja. *Nanodelci v delovnem okolju : Strokovno usposabljanje in dodatno izpostavljanje javnih uslužbencev inšpektorata RS za delo.* Ljubljana: Republika Slovenija, Ministrstvo za delo, družino in socialne zadeve, Inšpektorat Republike Slovenije za delo, 13. dec. 2012. [COBISS.SI-ID [26364967](#)]
4. URŠIČ, Hana. *Properties of relaxor-ferroelectric PMN-PT and PSN-PT thick films and bulk ceramics : invited talk.* Iasi: "Alexandru Ioan Cuza", University of Iasi, 27. sep. 2012. [COBISS.SI-ID [26138919](#)]
5. MUŠEVIČ, Igor. *Self assembly of nematic colloids : invited talk.* Nijmegen: Institute of Molecules and Materials, Radboud University, 24i jan. 2012. [COBISS.SI-ID [25685287](#)]
6. ŽUMER, Slobodan. *Topological structures in colloidal and chiral nematics : from knots to skyrmions : [invited lecture at Leiden University, Institut-Lorenz for theoretical physics, Leiden, 26. 4. 2012].* 2012. [COBISS.SI-ID [2426980](#)]
7. PODLIPEC, Rok, JURAŠIN, Darija, GORGIEVA, Selestina, KOKOL, Vanja, ŠTRANCAR, Janez. Can we tune biopolymer-scaffold's properties by correlating macro and molecular studies? V: E-MRS 2012 fall meeting, September 17-21, Warsaw University of Technology
8. PODLIPEC, Rok, JURAŠIN, Darija, GORGIEVA, Selestina, KOKOL, Vanja, ŠTRANCAR, Janez. Cell-scaffold contact: how can we understand more? Gordon Research Conference, Biointerface Science, 20. – 25. maj 2012
9. ROŽIČ, Brigita. *Značaj znanosti : vabljeno predavanje : predstavitev L'Orealovih štipendistk.* Ljubljana: Hiša eksperimentov, 8. mar. 2012. [COBISS.SI-ID [25801511](#)]

### 3.15 Prispevek na konferenci brez natisa | **Conference contribution without proceedings**

1. TKALEC, Uroš. *Hidrodinamični tokovni profili nematskega tekočega kristala v mikrofluidnem kanalčku : 3. strateška konferenca Centra odličnosti NAMASTE, 15. 3. 2012, Ljubljana, Slovenija.* 2012. [COBISS.SI-ID [25678631](#)]
2. REMŠKAR, Maja. *Nanomaziva na osnovi nanocevk MoS[spodaj]2 : 3. strateška konferenca Centra odličnosti NAMASTE, 15. 3. 2012, Ljubljana, Slovenija.* 2012. [COBISS.SI-ID [25756967](#)]
3. ROJAC, Tadej, KOSEC, Marija, JONES, Jacob L., SETTER, Nava, DAMJANOVIĆ, Dragan. *Pinning of ferroelectric domain walls in BiFeO[sub]3 ceramics and its influence on the polarization and*

strain response : presented at MSE 2012, Materials Science Engineering Conference, 25-27, September 2012, Darmstadt, Germany. 2012. [COBISS.SI-ID [26134823](#)]

4. ISKRA, Ivan. Meritve onesnaženja zraka z ultra - finimi prahovi : 3. strateška konferenca Centra odličnosti NAMASTE, 15. 3. 2012, Ljubljana, Slovenija. 2012. [COBISS.SI-ID [25756711](#)]

### 3.16 Vabljen predavanje na konferenci brez natisa | *Invited lectures*

1. PIRŠ, Janez, KOSEC, Marija. *Entrepreneurial success of Balder Ltd. - electrooptic light shutters for eye-protection : presented at 4th International Congress on Ceramics including 3rd Ceramic Leadership Summit Track, July 15-19, 2012, Chicago, Illinois.* 2012. [http://ceramics.org/wp-content/uploads/2012/06/icc4\\_final.pdf](http://ceramics.org/wp-content/uploads/2012/06/icc4_final.pdf). [COBISS.SI-ID [26506023](#)]
2. KOSEC, Marija. *Ferroelectric thick and thin films with large piezoelectric and electrocaloric effect : 36th International Conference and Exposition on Advanced Ceramics and Composites, January 22-27, 2012, Daytona, Florida, USA.* 2012. [COBISS.SI-ID [25608999](#)]
3. ŽUMER, Slobodan. *Quasi-two-dimensional Skyrmion lattices and other exotic structures in confined chiral nematic liquid crystals : [invited talk at APS March Meeting 2012, February 27 - March 2 2012, Boston].* 2012. [COBISS.SI-ID [2410084](#)]
4. REMŠKAR, Maja. *Obravnava stanovske teme : nanotehnologije in nanovarnost, tudi v medicini in stomatologiji : 62. redna seja skupščine Zdravniške zbornice Slovenije, 18. januar, 2012, Ljubljana, Slovenija.* 2012. [COBISS.SI-ID [25551143](#)]
5. KUŠČER, Danijela, ABELLARD, Andre-Pierre, HOLC, Janez, LEVASSORT, Franck, KOSEC, Marija. *Piezoelectric thick-film structures for high-frequency transducer applications prepared by electrophoretic deposition : presented at Materials Science and Technology 2012, MS&T'12, 7-11 October 2012, Pittsburg, USA.* 2012. [COBISS.SI-ID [26179623](#)]
6. KOSMAČ, Tomaž. *Sandblasting of dental zirconia : an engineering perspective. presented at AADR/CADR Annual Meeting & Exhibition, 21-24 March, 2012, Tampa, Florida.* 2012. [COBISS.SI-ID [26508071](#)]

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### Mentor pri magistrskih delih | *Mentor for M.Sc.*

1. DOBRIĆ, Milan. *Center vodenja distribucijskega elektroenergetskega omrežja na osnovi industrijske platforme iFix HMI/SCADA : magistrsko delo.* Ljubljana: [M. Dobrić], 2012. VII, 147 str., ilustr. [COBISS.SI-ID [9274196](#)]
2. LAVRINEC, Janez. *Večnivojska avtomatizacija v postopku verifikacije delovanja komunikacijskega sistema : magistrsko delo.* Ljubljana: [J. Lavrinec], 2012. X, 116 str., ilustr. [COBISS.SI-ID [9277524](#)]
3. KONCILJA, Matej. *Zasnova in izvedba telemetrijskega sistema : magistrsko delo.* Ljubljana: [M. Koncilja], 2012. XI, 82 f., ilustr. [COBISS.SI-ID [9284180](#)]

### Mentor pri diplomskih delih | *Mentor for B.Sc.*

1. KLAVORA, Jure. *Avtomatizacija naprave za vtiskanje diod v tuljavnike : diplomsko delo.* Ljubljana: [J. Klavora], 2012. 47 str., ilustr. [COBISS.SI-ID [9548884](#)]
2. VRTOVEC, Rok. *Diferencialno merjenje tokov v trifaznem sistemu : diplomsko delo.* Ljubljana: [R. Vrtovec], 2012. XVIII, 98 str., ilustr. [COBISS.SI-ID [9370196](#)]



3. NOVAK, Jure. *Dinamična delna rekonfiguracija sistema osnovanega na vezjih FPGA : diplomsko delo*. Ljubljana: [J. Novak], 2012. VI, 51 str., ilustr. [COBISS.SI-ID [9536084](#)]
4. GRČMAN, Franci. *Določevanje kristaliničnosti zdravilnih učinkovin z rentgensko difrakcijo : diplomsko delo*. Ljubljana: [F. Grčman], 2012. IV, 39 f., ilustr. [COBISS.SI-ID [36025861](#)]
5. LAZAR, Ana. *Električno prevodna inženirska keramika na osnovi cirkonijevega oksida = Zirconia based electrically conductive engineering ceramics : diplomsko delo*. Ljubljana: [A. Lazar], 2012. 51 f., ilustr., graf. prikazi. [COBISS.SI-ID [1236319](#)]
6. ERGAVER, Gregor. *Elektromagnetna združljivost krmilnikov za pogon električnih vozil : diplomsko delo*. Ljubljana: [G. Ergaver], 2012. X, 102 str., ilustr. [COBISS.SI-ID [9014356](#)]
7. BENEDIK, Polde. *Elektronski sistem za inkubator : diplomsko delo*. Ljubljana: [P. Benedik], 2012. VI, 53 str., ilustr. [COBISS.SI-ID [9060948](#)]
8. ZALETELJ, Tadej. *ESD zaščita v servisu elektronskih naprav : diplomsko delo*. Ljubljana: [T. Zaletelj], 2012. 34 str., ilustr. [COBISS.SI-ID [9183316](#)]
9. HOČEVAR, Jože. *Impulzni generator za krmiljenje svetlečih diod : diplomsko delo*. Ljubljana: [J. Hočevar], 2012. 45 str., ilustr. [COBISS.SI-ID [9091156](#)]
10. LEVIČNIK, Marko. *Nadzorna enota in vitro diagnostičnega inštrumenta : diplomsko delo*. Ljubljana: [M. Levičnik], 2012. II, 43 str., ilustr. [COBISS.SI-ID [9080660](#)]
11. ARH, Jure. *Napredno mikroprocesorsko vezje za nadzor napajanja in detekcijo nepooblaščenih posegov z ekstremno nizko porabo : diplomsko delo*. Ljubljana: [J. Arh], 2012. 101 str., ilustr. [COBISS.SI-ID [9177172](#)]
12. KOTNIK, Melita. *Nove varnostne zahteve na področju preskušanja elektronskih naprav po mednarodnem standardu IEC 62368-1 : diplomsko delo*. Ljubljana: [M. Kotnik], 2012. VII f., 79 str., ilustr. [COBISS.SI-ID [9537108](#)]
13. SLEJKO, David. *Optimizacija proizvodnega procesa izdelave močnostnega modula : diplomsko delo*. Ljubljana: [D. Slejko], 2012. VII, 78 str., ilustr. [COBISS.SI-ID [9023572](#)]
14. ZUPANČIČ, Luka. *Optimization of software for simulation of hearth [!] operation : thesis of university study*. Ljubljana: [L. Zupančič], 2012. 51 str., ilustr. [COBISS.SI-ID [9175380](#)]
15. VUČKOVIČ, Luka. *Pomembnost napredne merilne infrastrukture v pametnih omrežjih : diplomsko delo visokošolskega strokovnega študija*. Ljubljana: [L. Vučković], 2012. VI, 46 str., ilustr. [COBISS.SI-ID [9616212](#)]
16. GRABUŠNIK, Loesana. *Popularizacija koncepta pasivnih in ničenergijskih objektov : diplomsko delo*. Maribor: [L. Grabušnik], 2012. 79 f., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=48055>. [COBISS.SI-ID [19293448](#)]
17. PLOHL, Olivija. *Priprava in karakterizacija CuNi nanodelcev s silikatno prevleko : diplomsko delo univerzitetnega študijskega programa*. Maribor: [O. Plohl], 2012. XV, 72 f., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=49113>. [COBISS.SI-ID [16606998](#)]
18. KAUFMAN, Goran. *Proizvodna linija za avtomatizirano nalaganje papirne embalaže na paleto : diplomsko delo*. Ljubljana: [G. Kaufman], 2012. V, 41 str., ilustr. [COBISS.SI-ID [9367124](#)]
19. HALEC, Nataša. *S steklom infiltrirana dentalna korundna keramika : diplomsko delo*. Ljubljana: [N. Halec], 2012. VIII, 50 f., ilustr., graf. prikazi. [COBISS.SI-ID [1227103](#)]
20. BRAVHAR, Klemen. *Shranjevanje paketov Ethernet v pomnilnik DDR2 SDRAM z vezjem FPGA : diplomsko delo*. Ljubljana: [K. Bravhar], 2012. 75 str., ilustr. [COBISS.SI-ID [9367380](#)]
21. KLAKOČER, Janja. *Sinteza CuNi nanodelcev s sol gel metodo : diplomsko delo visokošolskega študijskega programa*. Maribor: [J. Klakočar], 2012. XII, 43 f., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=51486>. [COBISS.SI-ID [16607510](#)]

22. PODHRAŠKI, Matija. *Termoelektrična analiza teraherčnega mikrobolometra : diplomsko delo*. Ljubljana: [M. Podhraški], 2012. X, 64 str., ilustr. [COBISS.SI-ID [9468500](#)]
23. STRAHIJA, Roman. *Vpliv oblik prehodov ovojnice amplitudne modulacije na frekvenčni spekter v UHF RFID komunikacijah : diplomsko delo*. Ljubljana: [R. Strahija], 2012. XX, 45 str., ilustr. [COBISS.SI-ID [9614164](#)]
24. MIVŠEK, Igor. *Zasnova in izvedba mostičnega vezja : diplomsko delo*. Ljubljana: [I. Mivšek], 2012. 45 str., ilustr. [COBISS.SI-ID [9179220](#)]
25. KONESKI, Denis. *Zasnova in izvedba opozorilnika za razkuževanje rok : diplomsko delo*. Ljubljana: [D. Koneski], 2012. V, 60 f., ilustr. [COBISS.SI-ID [9545556](#)]

#### **Mentor pri diplomskih delih (bolonjski študij 1. stopnje) | *Mentor for B.Sc. (Bologna)***

1. MIRIČ, Tajda. *Mikrovezikulacija kot posledica izpostavitve nanodelcem : diplomski seminar = Microvesiculation as a result of exposure to nanoparticles : B. Sc. thesis*, (Biotehniška fakulteta, Študij biotehnologije, Diplomski seminar univerzitetni študij - 1. stopnja, 90). Ljubljana: [T. Mirič], 2012. VI, 16 f., ilustr. [COBISS.SI-ID [7173753](#)]
2. MARKUŠ, Sabina. *Sinteza nanodelcev CrNi z mikroemulzijsko metodo : diplomsko delo univerzitetnega študijskega programa*. Maribor: [S. Markuš], 2012. XI, 38 str., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=50021>. [COBISS.SI-ID [16607254](#)]
3. GRDJAN, Aleš. *Sinteza nanodelcev pod vplivom mikrovalov : diplomsko delo univerzitetnega študijskega programa*. Maribor: [A. Grdjan], 2012. IX, 39 f., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=49845>. [COBISS.SI-ID [16606742](#)]
4. STROJAN, Klemen. *Testiranje učinka nanodelcev ZnO in vitro : diplomski seminar = Testing the impact of ZnO nanoparticles in vitro : B. Sc. thesis*, (Biotehniška fakulteta, Študij biotehnologije, Diplomski seminar univerzitetni študij - 1. stopnja, 100). Ljubljana: [K. Strojjan], 2012. VII, 21 f., preglednice. [COBISS.SI-ID [7234937](#)]

#### **Komentor pri doktorskih disertacijah | *Co-mentor for Ph.D.***

1. ISKRA, Ivan. *Detekcija nanodelcev v aerosolih s kapacitivnim senzorjem : doktorska disertacija*. Ljubljana: [I. Iskra], 2012. 157 str., ilustr. [COBISS.SI-ID [9272660](#)]
2. PERKO, Sebastjan. *Moderately porous zirconia ceramics for dental applications : doctoral dissertation = Zmerno porozna cirkonijeva oksidna keramika za dentalne namene : doktorska disertacija*. Ljubljana: [S. Perko], 2012. XII, 73 str., ilustr. [COBISS.SI-ID [261783552](#)]
3. BERNARD, Janez. *Nizkotemperaturno sintranje piezoelektrične keramike K [spodaj] 0,5 Na [spodaj] 0,5 NbO [spodaj] 3 : doktorska disertacija = Low-temperature sintering of piezoelectric K [sub] 0,6 Na [sub] 0,5 NbO [sub] 3 : doctoral dissertation*. Ljubljana: [J. Bernard], 2012. XII, 120 str., ilustr., tabele. [COBISS.SI-ID [263312640](#)]
4. MUŠIČ, Branka. *Novi funkcionalni premazi z magnetnimi delci : doktorska disertacija*. Ljubljana: [B. Mušič], 2012. 130 str., ilustr., tabele. [COBISS.SI-ID [35856645](#)]
5. GLINŠEK, Sebastjan. *Processing-dependent broadband dielectric properties of KTaO [sub] 3 ceramics, films and KTa [sub] 0.6 Nb [sub] 0.4 O [sub] 3 films : doctoral dissertation = Dielektrične lastnosti keramike in plasti KTaO [spodaj] 3 ter plasti KTa [spodaj] 0.6 Nb [spodaj] 0.4 O [spodaj] 3, merjene v širokem frekvenčnem območju : doktorska disertacija*. Ljubljana: [S. Glinšek], 2012. 169 str., ilustr. [COBISS.SI-ID [261614336](#)]



6. PIRC, Gordana. *Študij strukture in dinamike kristaliničnih materialov s periodičnimi kvantno kemijskimi metodami : doktorska disertacija*. Ljubljana: [G. Pirc], 2012. 128 str., ilustr., tabele. [COBISS.SI-ID [35848965](#)]
7. KENDA, Edvard. *Verjetnost kontaminacije rdečega mesa iz zraka z bakterijami vrste Listeria monocytogenes v klavnični industriji : doktorska disertacija = Likelihood of contamination of red meat from the air by Listeria monocytogenes in meat industry : doctoral thesis*. Ljubljana: [E. Kenda], 2012. 111 f., ilustr. <http://www3.vf.uni-lj.si/PortalGenerator/document.aspx?ID=89&Action=2&UserID=0&SessionID=48826&NavigationID=614>. [COBISS.SI-ID [3522170](#)]

#### **Komentor pri diplomskih delih | *Co-mentor for B.Sc.***

1. VRABELJ, Marko. *Priprava in karakterizacija kompozita steklo-keramika za uporabo v LTCC tehnologiji : diplomsko delo*. Maribor: [M. Vrabelj], 2012. XIII, 66 str., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=48520>. [COBISS.SI-ID [26082343](#)]
2. PAJIĆ, Milena. *Priprava kompozita piezoelektrik-akrilatni polimer z brizgalnim tiskanjem : diplomska naloga*. Ljubljana: [M. Pajić], 2012. 43 f., ilustr. [COBISS.SI-ID [35976197](#)]
3. HALEC, Nataša. *S steklom infiltrirana dentalna korundna keramika : diplomsko delo*. Ljubljana: [N. Halec], 2012. VIII, 50 f., ilustr., graf. prikazi. [COBISS.SI-ID [1227103](#)]
4. LORBER, Aleš. *Sinteza boehmita s termično obdelavo aluminijevega trihidroksida : diplomsko delo visokošolskega študijskega programa*. Maribor: [A. Lorber], 2012. XIV, 67 str., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=47952>. [COBISS.SI-ID [16696854](#)]
5. TRČEK, Maja. *Vpliv nanodelcev na tekočerkristalno urejanje : diplomsko delo*. Ljubljana: [M. Trček], 2012. II, 33 f., ilustr. <http://pefprints.pef.uni-lj.si/id/eprint/1036>. [COBISS.SI-ID [9368649](#)]

#### **Komentor pri diplomskih delih (bolonjski študij 1. stopnje) | *Co-mentor for B.Sc.(Bologna)***

1. VIRANT, Natalija. *Določevanje monosaharidov s kapilarno elektroforezo : diplomsko delo univerzitetnega študijskega programa*. Maribor: [N. Virant], 2012. IX, 43 str., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=51601>. [COBISS.SI-ID [16710678](#)]