

1.01 Izvirni znanstveni članek | *Original scientific paper*

1. AMORÍN, Harvey, URŠIČ, Hana, RAMOS, Pablo, HOLC, Janez, MORENO, Rodrigo, CHATEIGNER, Daniel, RICOTE, Jesús, ALGUERÓ, Miguel. Pb(Mg_(1/3)Nb_(2/3))O₃PbTiO₃ textured ceramics with high piezoelectric response by a novel templated grain growth approach. *Journal of the American Ceramic Society*, ISSN 0002-7820, [in press] 2013, 7 str., doi: [10.1111/jace.12721](https://doi.org/10.1111/jace.12721). [COBISS.SI-ID [27373095](#)]
2. SANTO-ZARNIK, Marina, BELAVIČ, Darko, SEDLAKOVA, Vlasta, SIKULA, Josef, KOPECKY, Martin, SEDLAK, Petr, MAJZNER, Jiri. Comparison of the intrinsic characteristics of LTCC and silicon pressure sensors by means of 1/f noise measurements. *Radioengineering*, ISSN 1210-2512, 2013, vol. 22, no. 1, str. 227-232. [COBISS.SI-ID [26687271](#)], IF (2012) 0.687
3. MAMORU, Senna, PAVLIČ, Jernej, ROJAC, Tadej, MALIČ, Barbara, KOSEC, Marija. Preparation of phase-pure K_(0.5)Na_(0.5)NbO₃ fine powders by a solid-state reaction at 625°C from a precursor comprising Nb₂O₅ and K, Na acetates. *Journal of the American Ceramic Society*, ISSN 0002-7820, [in press] 2013, 7 str., doi: [10.1111/jace.12727](https://doi.org/10.1111/jace.12727). [COBISS.SI-ID [27355175](#)], IF (2012) 2.107
4. PAVLIČ, Jernej, MALIČ, Barbara, ROJAC, Tadej. Microstructural, structural, dielectric and piezoelectric properties of potassium sodium niobate thick films. *J. Eur. Ceram. Soc.* [Print ed.], 2013, vol. 34, no. 2, str. 285-295, doi: [10.1016/j.jeurceramsoc.2013.09.001](https://doi.org/10.1016/j.jeurceramsoc.2013.09.001). [COBISS.SI-ID [27204135](#)], IF (2012) 2,36
5. TREFALT, Gregor, BENČAN, Andreja, KAMPLET, Mitja, MALIČ, Barbara, SEO, Yohan, WEBBER, Kyle. Evaluation of the homogeneity in Pb(Zr,Ti)O₃-zirconia composites prepared by the hetero-agglomeration of precursors using the Voronoi-diagram approach. *J. Eur. Ceram. Soc.* [Print ed.], [in press] 2013, 7 str., doi: [10.1016/j.jeurceramsoc.2013.09.014](https://doi.org/10.1016/j.jeurceramsoc.2013.09.014). [COBISS.SI-ID [27155239](#)], IF (2012) 2,36
6. LU, Wei, RUAN, Gedeng, GENORIO, Boštjan, ZHU, Yu, NOVOSEL, Barbara, PENG, Zhiwei, TOUR, James M. Functionalized graphene nanoribbons via anionic polymerization initiated by alkali metal-intercalated carbon nanotubes. *ACS nano*, 2013, vol. 7, no. 3, str. 2669-2675, ilustr., doi: [10.1021/nn400054t](https://doi.org/10.1021/nn400054t). [COBISS.SI-ID [36526597](#)], IF (2012) 12,062
7. DIMIEV, Ayrat M., ZAKHIDOV, Dante, GENORIO, Boštjan, OLADIMEJI, Korede, CROWGEY, Benjamin, KEMPEL, Leo, ROTHWELL, Edward J., TOUR, James M. Permittivity of dielectric composite materials comprising graphene. The effect of nanostructure. *ACS appl. mater. interfaces (Print)*. [Print ed.], 2013, vol. 5, no. 15, str. 7567-7573, ilustr. <http://pubs.acs.org/doi/ipdf/10.1021/am401859j>, doi: [10.1021/am401859j](https://doi.org/10.1021/am401859j). [COBISS.SI-ID [1605935](#)], IF (2012) 5,008
8. URŠIČ, Hana, DAMJANOVIĆ, Dragan. Anelastic relaxor behavior of Pb(Mg_(1/3)Nb_(2/3))O₃. *Appl. phys. lett.*, 2013, vol. 103, no. 7, str. 072904-1-072904-4, doi: [10.1063/1.4818665](https://doi.org/10.1063/1.4818665). [COBISS.SI-ID [26938151](#)], IF (2012) 3,794
9. SANTO-ZARNIK, Marina, SEDLAKOVA, Vlasta, BELAVIČ, Darko, SIKULA, Josef, MAJZNER, Jiri, SEDLAK, Petr. Estimation of the long-term stability of piezoresistive LTCC pressure sensors by means of low-frequency noise measurements. *Sens. actuators, A, Phys. (Print)*, 2013, vol. 199, str. 334-343, doi: [10.1016/j.sna.2013.05.030](https://doi.org/10.1016/j.sna.2013.05.030). [COBISS.SI-ID [26799911](#)], IF (2011) 1,841
10. URŠIČ, Hana, LEVASSORT, Franck, HOLC, Janez, LETHIECQ, Marc, KOSEC, Marija. 0.65Pb(Mg₍₁₋₃₎Nb₍₂₋₃₎)O₃.35PbTiO₃ thick films for high-frequency piezoelectric transducer applications. *Jpn. j. appl. phys.*, 2013, vol. 52, no. 5, str. 055502-1-055502-6, doi: [10.7567/JJAP.52.055502](https://doi.org/10.7567/JJAP.52.055502). [COBISS.SI-ID [26701607](#)], IF (2012) 1,067

11. MAKAROVIČ, Kostja, MEDEN, Anton, HROVAT, Marko, BELAVIČ, Darko, HOLC, Janez, KOSEC, Marija. Non-destructive quantitative phase analysis of an LTCC material. *Microelectron. int.*, 2013, vol. 30, no. 2, str. 73-76, doi: [10.1108/13565361311314458](https://doi.org/10.1108/13565361311314458). [COBISS.SI-ID [26700583](#)], IF (2012) 0,731
12. URŠIČ, Hana, MALIČ, Barbara, CILENŠEK, Jena, ROJAC, Tadej, KMET, Brigita, KOSEC, Marija. Linear thermal expansion coefficients of relaxor-ferroelectric $0.57\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3-0.43\text{PbTiO}_3$ ceramics in a wide temperature range. *J. Eur. Ceram. Soc.* [Print ed.], 2013, vol. 33, no. 11, str. 2167-2171, doi: [10.1016/j.jeurceramsoc.2013.03.023](https://doi.org/10.1016/j.jeurceramsoc.2013.03.023). [COBISS.SI-ID [26695463](#)], IF (2012) 2,36
13. MAKAROVIČ, Kostja, BENČAN, Andreja, HROVAT, Marko, HOLC, Janez, MALIČ, Barbara, KOSEC, Marija, BERMEJO, Raúl, KRALEVA, Irina. The effect of phase composition on the mechanical properties of LTCC material. *International journal of applied ceramic technology*, 2013, vol. 10, issue 3, str. 449-457, doi: [10.1111/ijac.12030](https://doi.org/10.1111/ijac.12030). [COBISS.SI-ID [26548263](#)], IF (2012) 1,153
14. URŠIČ, Hana, HOLC, Janez, KOSEC, Marija. Influence of the sintering conditions on the properties of $0.57\text{PSN}0.43\text{PT}$ ceramics prepared from mechanochemically activated powder. *J. Eur. Ceram. Soc.* [Print ed.], 2013, vol. 33, no. 4, str. 795-803, doi: [10.1016/j.jeurceramsoc.2012.09.031](https://doi.org/10.1016/j.jeurceramsoc.2012.09.031). [COBISS.SI-ID [26309927](#)], IF (2012) 2,36
15. KRISTL, Matjaž, BAN, Irena, GYERGYEK, Sašo. Preparation of nanosized copper and cadmium chalcogenides by mechanochemical synthesis. *Mater. manif. process.*, 2013, vol. 28, iss. 9, str. 1009-1013, ilustr., doi: [10.1080/10426914.2013.811736](https://doi.org/10.1080/10426914.2013.811736). [COBISS.SI-ID [17184278](#)], IF (2012) 1,297
16. STERGAR, Janja, FERK, Gregor, BAN, Irena, DROFENIK, Mihael, HAMLER, Anton, JAGODIČ, Marko, MAKOVEC, Darko. The synthesis and characterization of coppernickel alloy nanoparticles with a therapeutic Curie point using the microemulsion method. *J. alloys compd.* [Print ed.], 2013, vol. 576, str. 220-226, doi: [10.1016/j.jallcom.2013.04.130](https://doi.org/10.1016/j.jallcom.2013.04.130). [COBISS.SI-ID [27134759](#)], IF (2012) 2,39
17. KAHRAMAN, S., ÇETINKAYA, S., PODLOGAR, Matejka, BERNIK, Slavko, ÇETINKAYA, H. A., H. S. GÜDER. Effects of the sulfurization temperature on sol gel-processed $\text{Cu}_2\text{ZnSnS}_4$ thin films. *Ceram. int.* [Print ed.], 2013, vol. 39, no. 8, str. 9285-9292, doi: [10.1016/j.ceramint.2013.05.039](https://doi.org/10.1016/j.ceramint.2013.05.039). [COBISS.SI-ID [27146023](#)], IF (2012) 1,789
18. STERGAR, Janja, FERK, Gregor, BAN, Irena, DROFENIK, Mihael, HAMLER, Anton, JAGODIČ, Marko, MAKOVEC, Darko. The synthesis and characterization of copper-nickel alloy nanoparticles with a therapeutic Curie point using the microemulsion method. *J. alloys compd.* [Print ed.], 5. nov. 2013, vol. 576, str. 220-226, ilustr., doi: [10.1016/j.jallcom.2013.04.130](https://doi.org/10.1016/j.jallcom.2013.04.130). [COBISS.SI-ID [16893718](#)], IF (2011) 2,289
19. PODLOGAR, Matejka, VENGUST, Damjan, RICHARDSON, Jacob J., STROJNIK, Martin, MAZAJ, Matjaž, TREFALT, Gregor, DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Parametric study of seed-layer formation for low-temperature hydrothermal growth of highly oriented ZnO films on glass substrates. *Phys. status solidi, A Appl. mater. sci. (Print)*. [Tiskana izd.], 2013, vol. 210, issue 6, str. 1083-1092, doi: [10.1002/pssa.201228757](https://doi.org/10.1002/pssa.201228757). [COBISS.SI-ID [26554407](#)], IF (2012) 1,469
20. DANEU, Nina, NOVAK GRAMC, Nives, REČNIK, Aleksander, MAČEK, Marjeta, BERNIK, Slavko. Shock-sintering of low-voltage ZnO-based varistor ceramics with $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ additions. *J. Eur. Ceram. Soc.* [Print ed.], 2013, vol. 33, issue 2, str. 335-344, doi: [10.1016/j.jeurceramsoc.2012.08.023](https://doi.org/10.1016/j.jeurceramsoc.2012.08.023). [COBISS.SI-ID [26106151](#)], IF (2012) 2,36
21. TAVČAR, Rok, DEDIČ, Jože, BOKAL, Drago, ŽEMVA, Andrej. Transforming the LSTM training algorithm for efficient FPGA-based adaptive control of nonlinear dynamic systems = Prilagoditev učenja nevronske mreže LSTM za učinkovito realizacijo adaptivne regulacije nelinearnih dinamičnih sistemov v vezjih FPGA. *Inf. MIDEEM*, jun. 2013, letn. 43, št. 2, str. 131-138, ilustr. [http://www.midem-drustvo.si/Journal%20papers/MIDEEM_43\(2013\)2p131.pdf](http://www.midem-drustvo.si/Journal%20papers/MIDEEM_43(2013)2p131.pdf). [COBISS.SI-ID [10036564](#)], IF (2012) 0,277

22. PEČAR, Borut, RESNIK, Drago, MOŽEK, Matej, ALJANČIČ, Uroš, DOLŽAN, Tine, AMON, Slavko, VRTAČNIK, Danilo. Triton X-100 as an effective surfactant for micropump bubble tolerance enhancement = Triton X-100 za izboljšanje zanesljivosti mikročrpalke pri črpanju dvofaznega medija. *Inf. MIDEM*, 2013, letn. 43, št. 2, str. 103-110, ilustr. [http://www.midem-drustvo.si/Journal%20papers/MIDEM_43\(2013\)2p103.pdf](http://www.midem-drustvo.si/Journal%20papers/MIDEM_43(2013)2p103.pdf). [COBISS.SI-ID 9933140], IF (2012) 0,277
23. PEČAR, Borut, VRTAČNIK, Danilo, RESNIK, Drago, MOŽEK, Matej, ALJANČIČ, Uroš, DOLŽAN, Tine, AMON, Slavko, KRIŽAJ, Dejan. A strip-type microthrottle pump : modeling, design and fabrication. *Sensors*, 2013, vol. 13, no. 3, str. 3092-3108, ilustr., doi: [10.3390/s130303092](https://doi.org/10.3390/s130303092). [COBISS.SI-ID 9729620], IF (2012) 1,953
24. PEDDIREDDY, Karthik, JAMPANI, Venkata Subba R., THUTUPALLI, Shashi, HERMINGHAUS, Stephan, BAHAR, Christian, MUŠEVIČ, Igor. Lasing and waveguiding in smectic A liquid crystal optical fibers. *Optics express*, ISSN 1094-4087, 2013, vol. 21, no. 25, str. 30233-30242, doi: [10.1364/OE.21.030233](https://doi.org/10.1364/OE.21.030233). [COBISS.SI-ID 27532583] IF (2012) 3.546
25. VARLEC, Ana, MANSOUR, Shehab A., DI LUCCIO, Tiziana, BORRIELLO, Carmela, BRUNO, Annalisa, JELENC, Janez, VIŠIČ, Bojana, REMŠKAR, Maja. Microscopic and spectroscopic investigation of MoS₂ nanotubes/P3HT nanocomposites. *Physica status solidi. A, Applications and materials science*, ISSN 1862-6300. [Tiskana izd.], 2013, vol. 210, issue 11, str. 2335-2340, doi: [10.1002/pssa.201329357](https://doi.org/10.1002/pssa.201329357). [COBISS.SI-ID 27223335], IF (2012) 1.469
26. REMŠKAR, Maja, JELENC, Janez, VIŠIČ, Bojana, VARLEC, Ana, ČEŠAREK, Maja, KRŽAN, Andrej. Friction properties of polyvinylidene fluoride with added MoS₂ nanotubes. *Physica status solidi. A, Applications and materials science*, ISSN 1862-6300. [Tiskana izd.], 2013, vol. 210, no. 11, str. 2314-2319, doi: [10.1002/pssa.201329325](https://doi.org/10.1002/pssa.201329325). [COBISS.SI-ID 27121703], IF (2012) 1.469
27. JAMPANI, Venkata Subba R., HUMAR, Matjaž, MUŠEVIČ, Igor. Resonant transport of light from planar polymer waveguide into liquid-crystal microcavity. *Opt. express*, 2013, vol. 21, iss. 18, str. 20506-20516. <http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-21-18-20506>, doi: [10.1364/OE.21.020506](https://doi.org/10.1364/OE.21.020506). [COBISS.SI-ID 2577252], IF (2012) 3,546
28. ČOPAR, Simon, ŽUMER, Slobodan. Quaternions and hybrid nematic disclinations. *Proc. - Royal Soc., Math. phys. eng. sci.* [Print ed.], 2013, vol. 469, no. 2156, 10 str. <http://rspa.royalsocietypublishing.org/content/469/2156/20130204.abstract>, doi: [10.1098/rspa.2013.0204](https://doi.org/10.1098/rspa.2013.0204). [COBISS.SI-ID 2569828], IF (2012) 2,378
29. ČOPAR, Simon, DENNIS, Mark R., KAMIEN, Randall D., ŽUMER, Slobodan. Singular values, nematic disclinations, and emergent biaxiality. *Phys. rev., E Stat. nonlinear soft matter phys. (Print)*, 2013, vol. 87, iss. 5, str. 050504-1-050504-5. <http://pre.aps.org/abstract/PRE/v87/i5/e050504>. [COBISS.SI-ID 2560100], IF (2012) 2,313
30. REMŠKAR, Maja, ISKRA, Ivan, JELENC, Janez, ŠKAPIN, Srečo D., VIŠIČ, Bojana, VARLEC, Ana, KRŽAN, Andrej. A novel structure of polyvinylidene fluoride (PVDF) stabilized by MoS₂ nanotubes. *Soft matter*, 2013, vol. 9, no. 36, str. 8647-8653, doi: [10.1039/c3sm51279g](https://doi.org/10.1039/c3sm51279g). [COBISS.SI-ID 26952487], IF (2012) 3,909
31. KALIN, Mitjan, KOGOVIŠEK, Janez, REMŠKAR, Maja. Nanoparticles as novel lubricating additives in a green, physically based lubrication technology for DLC coatings. *Wear.* [Print ed.], 2013, vol. 303, iss. 1/2, str. 480-485, ilustr., doi: [10.1016/j.wear.2013.03.009](https://doi.org/10.1016/j.wear.2013.03.009). [COBISS.SI-ID 12908571], IF (2011) 1,872
32. KOGOVIŠEK, Janez, REMŠKAR, Maja, KALIN, Mitjan. Lubrication of DLC-coated surfaces with MoS₂ nanotubes in all lubrication regimes : surface roughness and running-in effects. *Wear.* [Print ed.], 2013, vol. 303, iss. 1/2, str. 361-370, ilustr., doi: [10.1016/j.wear.2013.03.033](https://doi.org/10.1016/j.wear.2013.03.033). [COBISS.SI-ID 12908315], IF (2011) 1,872
33. GENG, Yong, SEČ, David, ALMEIDA, Pedro L., LAVRETOVICH, Oleg D., ŽUMER, Slobodan, GODINHO, M. H. Liquid crystal necklaces : cholesteric drops threaded by thin cellulose fibres. *Soft matter*, 7 str. <http://pubs.rsc.org/en/content/articlelanding/2013/sm/c3sm50900a>, doi: [10.1039/C3SM50900A](https://doi.org/10.1039/C3SM50900A). [COBISS.SI-ID 2559844], IF (2011) 4,39

34. RAVNIK, Miha. Topology with liquid crystals : a viewpoint on: Generating the Hopf fibration experimentally in nematic liquid crystals, Bryan Gin-ge Chen, Paul J. Ackerman, Gareth P. Alexander, Randall D. Kamien, and Ivan I. Smalyukh, *Phys. Rev. Lett.* 110, 2013. *Physics*, 2013, vol. 6, 3 str. <http://physics.aps.org/articles/pdf/10.1103/Physics.6.65>, doi: [10.1103/Physics.6.65](https://doi.org/10.1103/Physics.6.65). [COBISS.SI-ID [2560868](https://www.cobiss.si/record/2560868)]
35. CHICCOLI, Cesare, PASINI, Paolo, SKAČEJ, Gregor, ZANNONI, Claudio, ŽUMER, Slobodan. Chirality transfer from helical nanostructures to nematics : a Monte Carlo study. *Mol. Cryst. Liq. Cryst. (Phila. Pa. : 2003)*, 2013, vol. 576, iss. 1, str. 151-156. <http://www.tandfonline.com/doi/abs/10.1080/15421406.2013.789720#UdE32fmnr0c>, doi: [10.1080/15421406.2013.789720](https://doi.org/10.1080/15421406.2013.789720). [COBISS.SI-ID [2567524](https://www.cobiss.si/record/2567524)], IF (2011) 0,58
36. GRECO, Francesco, DOMENICI, Valentina, ROMITI, Stefano, ASSAF, Tareq, ZUPANČIČ, Blaž, MILAVEC, Jerneja, ZALAR, Boštjan, MAZZOLAI, Barbara, MATTOLI, Virgilio. Reversible heat-induced microwrinkling of PEDOT:PSS nanofilm surface over a monodomain liquid crystal elastomer. *Mol. Cryst. Liq. Cryst. (Phila. Pa. : 2003)*, 2013, vol. 572, no. 1, str. 40-49, doi: [10.1080/15421406.2012.763208](https://doi.org/10.1080/15421406.2012.763208). [COBISS.SI-ID [26708519](https://www.cobiss.si/record/26708519)], IF (2011) 0,58
37. JAMPANI, Venkata Subba R., ŠKARABOT, Miha, ČOPAR, Simon, ŽUMER, Slobodan, MUŠEVIČ, Igor. Chirality screening and metastable states in chiral nematic colloids. *Phys. rev. lett.*, 2013, vol. 110, no. 17, str. 177801-1-177801-5, doi: [10.1103/PhysRevLett.110.177801](https://doi.org/10.1103/PhysRevLett.110.177801). [COBISS.SI-ID [26714151](https://www.cobiss.si/record/26714151)], IF (2012) 7,943
38. FUKUDA, Jun-ichi, ŽUMER, Slobodan. Field-induced dynamics and structures in a cholesteric-blue-phase cell. *Phys. rev., E Stat. nonlinear soft matter phys. (Print)*, 2013, vol. 87, iss. 4, str. 042506-1-042506-12. <http://link.aps.org/doi/10.1103/PhysRevE.87.042506>. [COBISS.SI-ID [2550628](https://www.cobiss.si/record/2550628)], IF (2012) 2,313
39. KOGOVIŠEK, Janez, REMŠKAR, Maja, MRZEL, Aleš, KALIN, Mitjan. Influence of surface roughness and running-in on the lubrication of steel surfaces with oil containing MoS [sub] 2 nanotubes in all lubrication regimes. *Tribol. int.*. [Print ed.], 2013, vol. 61, str. 40-47, ilustr., doi: [10.1016/j.triboint.2012.12.003](https://doi.org/10.1016/j.triboint.2012.12.003). [COBISS.SI-ID [12730139](https://www.cobiss.si/record/12730139)], IF (2012) 1,536
40. GHARBI, Mohamed Amine, SEČ, David, LOPEZ-LEON, T., NOBILI, M., RAVNIK, Miha, ŽUMER, Slobodan, BLANC, C. Microparticles confined to a nematic liquid crystal shell. *Soft matter*, 10 str., doi: [10.1039/C3SM00126A](https://doi.org/10.1039/C3SM00126A). [COBISS.SI-ID [2545764](https://www.cobiss.si/record/2545764)], IF (2012) 3,909
41. ČOPAR, Simon, CLARK, Noel Anthony, RAVNIK, Miha, ŽUMER, Slobodan. Elementary building blocks of nematic disclination networks in densely packed 3D colloidal lattices. *Soft matter*, 7 str. <http://pubs.rsc.org/en/content/articlelanding/2013/sm/c3sm50475a>, doi: [10.1039/C3SM50475A](https://doi.org/10.1039/C3SM50475A). [COBISS.SI-ID [2548580](https://www.cobiss.si/record/2548580)], IF (2012) 3,909
42. NYCH, Andriy, OGNYSTA, Ulyana, ŠKARABOT, Miha, RAVNIK, Miha, ŽUMER, Slobodan, MUŠEVIČ, Igor. Assembly and control of 3D nematic dipolar colloidal crystals. *Nature communications*, 2013, vol. 4, str. 1489-1-1489-8. <http://www.nature.com/ncomms/journal/v4/n2/full/ncomms2486.html>, doi: [10.1038/ncomms2486](https://doi.org/10.1038/ncomms2486). [COBISS.SI-ID [26543143](https://www.cobiss.si/record/26543143)], IF (2012) 10,015
43. ZUPANČIČ, Blaž, ZALAR, Boštjan, REMŠKAR, Maja, DOMENICI, Valentina. Actuation of gold-coated liquid crystal elastomers. *Appl. Phys. Express*, 2013, vol. 6, no. 2, str. 021701-1-021701-4, doi: [10.7567/APEX.6.021701](https://doi.org/10.7567/APEX.6.021701). [COBISS.SI-ID [26510631](https://www.cobiss.si/record/26510631)], IF (2012) 2,731
44. SENGUPTA, Anupam, TKALEC, Uroš, RAVNIK, Miha, YEOMANS, Julia M., BAHR, Christian, HERMINGHAUS, Stephan. Liquid crystal microfluidics for tunable flow shaping. *Phys. Rev. Lett.*, 2013, vol. 110, iss. 4, str. 048303-1-048303-5. <http://prl.aps.org/abstract/PRL/v110/i4/e048303>. [COBISS.SI-ID [2528868](https://www.cobiss.si/record/2528868)], IF (2012) 7,943
45. URBANČIČ, Iztok, ARSOV, Zoran, LJUBETIČ, Ajasja, BIGLINO, Daniele, ŠTRANCAR, Janez. Bleaching-corrected fluorescence microspectroscopy with nanometer peak position resolution. *Optics Express*, ISSN 1094-4087, 2013, vol. 21, no. 21, str. 25291-25306, doi: [10.1364/OE.21.025291](https://doi.org/10.1364/OE.21.025291). [COBISS.SI-ID [27156007](https://www.cobiss.si/record/27156007)], IF (2012) 3,546
46. BRNARDIĆ, Ivan, HUSKIĆ, Miroslav, UMEK, Polona, FINA, Alberto, HOLJEVAC-GRGURIĆ, Tamera. Synthesis of silane functionalized sodium titanate nanotubes and their influence on ther-

- mal and mechanical properties of epoxy nanocomposite. *Phys. status solidi, A Appl. mater. sci. (Print)*. [Tiskana izd.], [in press] 2013, 8 str., doi: [10.1002/pssa.201329281](https://doi.org/10.1002/pssa.201329281). [COBISS.SI-ID [27152423](https://www.cobiss.si/id/27152423)], IF (2012) 1,469
47. NOVAK, Sara, DROBNE, Damjana, VACCARI, Lisa, KISKINOVA, Maya Petrova, FERRARIS, Paolo, BIRARDA, Giovanni, REMŠKAR, Maja, HOČEVAR, Matej. Effect of ingested tungsten oxide (WOX) nanofibers on digestive gland tissue of *Porcellio scaber* (Isopoda, Crustacea) : fourier transform infrared (FTIR) imaging. *Environ. sci. technol.*. [Print ed.], 2013, vol. , no. , 30 str., [in press], doi: [10.1021/es402364w](https://doi.org/10.1021/es402364w). [COBISS.SI-ID [2855759](https://www.cobiss.si/id/2855759)], IF (2012) 5,257
48. ŠTEFANIČ, Martin, KRNEL, Kristoffer, KOSMAČ, Tomaž. Novel method for the synthesis of a [beta]-tricalcium phosphate coating on a zirconia implant. *J. Eur. Ceram. Soc.*. [Print ed.], 2013, vol. 33, 15/16, str. 3455-3465, doi: [10.1016/j.jeurceramsoc.2013.05.015](https://doi.org/10.1016/j.jeurceramsoc.2013.05.015). [COBISS.SI-ID [26983975](https://www.cobiss.si/id/26983975)], IF (2012) 2,36
49. URBANČIČ, Iztok, LJUBETIČ, Ajasja, ARSOV, Zoran, ŠTRANCAR, Janez. Coexistence of probe conformations in lipid phases : a polarized fluorescence microspectroscopy study. *Biophys. j.*, 2013, vol. 105, no. 4, str. 919-927, doi: [10.1016/j.bpj.2013.07.005](https://doi.org/10.1016/j.bpj.2013.07.005). [COBISS.SI-ID [26970919](https://www.cobiss.si/id/26970919)], IF (2012) 3,668
50. HUSKIČ, Miroslav, HOLJEVAC-GRGURIĆ, Tamara, UMEK, Polona, BRNARDIĆ, Ivan. Functionalization of sodium titanate nanoribbons with silanes and their use in the reinforcement of epoxy nanocomposites. *Polym. compos.*, 2013, vol. 34, no. 8, str. 1382-1388, doi: [10.1002/pc.22555](https://doi.org/10.1002/pc.22555). [COBISS.SI-ID [26926119](https://www.cobiss.si/id/26926119)], IF (2012) 1,482
51. MESARIČ, Tina, SEPČIČ, Kristina, PIAZZA, Veronica, GAMBARDILLA, Chiara, GARAVENTA, Francesca, DROBNE, Damjana, FAIMALI, Marco. Effects of nano carbon black and single-layer graphene oxide on settlement, survival and swimming behaviour of *Amphibalanus amphitrite* larvae. *Chem. ecol. (Print)*. [Print ed.], 2013, 10 str., [in press], doi: [10.1080/02757540.2013.817563](https://doi.org/10.1080/02757540.2013.817563). [COBISS.SI-ID [2836047](https://www.cobiss.si/id/2836047)], IF (2012) 1,069
52. MESARIČ, Tina, BAWEJA, Lokesh, DRAŠLER, Barbara, DROBNE, Damjana, MAKOVEC, Darko, DUŠAK, Peter, DHAWAN, Alok, SEPČIČ, Kristina. Effects of surface curvature and surface characteristics of carbon-based nanomaterials on the adsorption and activity of acetylcholinesterase. *Carbon (N. Y.)*. [Print ed.], 2013, vol. 62, str. 222-232, doi: [10.1016/j.carbon.2013.05.060](https://doi.org/10.1016/j.carbon.2013.05.060). [COBISS.SI-ID [2848591](https://www.cobiss.si/id/2848591)], IF (2012) 5,868
53. BAYAT, Narges, RAJAPAKSE, Katarina, MARINŠEK-LOGAR, Romana, DROBNE, Damjana, CRISTOBAL, Susana. The effects of engineered nanoparticles on the cellular structure and growth of *Saccharomyces cerevisiae*. *Nanotoxicology*, 2013, 34 str., [in press], doi: [10.3109/17435390.2013.788748](https://doi.org/10.3109/17435390.2013.788748). [COBISS.SI-ID [3220104](https://www.cobiss.si/id/3220104)], IF (2012) 7,844
54. MILLAKU, Agron, DROBNE, Damjana, TORKAR, Matjaž, NOVAK, Sara, REMŠKAR, Maja, PIPAN TKALEC, Živa. Use of scanning electron microscopy to monitor nanofibre/cell interaction in digestive epithelial cells. *J. hazard. mater.*. [Print ed.], 15. Sep. 2013, vol. 260, str. 47-52, ilustr. <http://dx.doi.org/10.1016/j.jhazmat.2013.04.041>, doi: [10.1016/j.jhazmat.2013.04.041](https://doi.org/10.1016/j.jhazmat.2013.04.041). [COBISS.SI-ID [7564409](https://www.cobiss.si/id/7564409)], IF (2011) 4,173
55. NOVAK, Sara, DROBNE, Damjana, GOLOBIČ, Miha, ZUPANC, Jernej, ROMIH, Tea, GIANONCELLI, Alessandra, KISKINOVA, Maya Petrova, KAULICH, Burkhard, PELICON, Primož, VAUPETIČ, Primož, JEROMEL, Luka, OGRINC, Nina, MAKOVEC, Darko. Cellular internalisation of dissolved cobalt ions from ingested CoFe₂O₄ nanoparticles : in vivo experimental evidence. *Environ. sci. technol.*. [Print ed.], 2013, vol. 47, no. 10, str. 5400-5408. <http://pubs.acs.org/doi/pdf/10.1021/es305132g>, doi: [10.1021/es305132g](https://doi.org/10.1021/es305132g). [COBISS.SI-ID [2768975](https://www.cobiss.si/id/2768975)], IF (2011) 5,228
56. RAJAPAKSE, Katarina, DROBNE, Damjana, KASTELEC, Damijana, MARINŠEK-LOGAR, Romana. Experimental evidence of false positive Comet test results due to TiO₂ particle - assay interactions. *Nanotoxicology*, 2013, vol. 7, no. 5, str. 1043-1051. <http://dx.doi.org/10.3109/17435390.2012.696735>, doi: [10.3109/17435390.2012.696735](https://doi.org/10.3109/17435390.2012.696735). [COBISS.SI-ID [2573903](https://www.cobiss.si/id/2573903)], IF (2012) 7,844

57. BRNARDIĆ, Ivan, HUSKIĆ, Miroslav, UMEK, Polona, HOLJEVAC-GRGURIĆ, Tamara. Sol-gel functionalization of sodium TiO₂ nanotubes and nanoribbons with aminosilane molecules. *Ceram. int.* [Print ed.], Dec. 2013, vol. 39, iss. 8, str. 9459-9464. <http://www.sciencedirect.com/science/article/pii/S0272884213005786>, doi: [10.1016/j.ceramint.2013.05.063](https://doi.org/10.1016/j.ceramint.2013.05.063). [COBISS.SI-ID [26755623](https://www.cobiss.si/record/26755623)], IF (2012) 1,789
58. KOCJAN, Andraž, DAKSKOBLER, Aleš, BUDIČ, Bojan, KOSMAČ, Tomaž. Suppressed reactivity of AlN powder in water at 5°C. *J. Am. Ceram. Soc.*, 2013, vol. 94, issue 4, str. 1032-1034, doi: [10.1111/jace.12237](https://doi.org/10.1111/jace.12237). [COBISS.SI-ID [26570023](https://www.cobiss.si/record/26570023)], IF (2012) 2,107
59. NOSHCHENKO, Oleksandr, KUŠČER, Danjela, MOCIOIUL, Oana Catalina, ZAHARESCU, Maria, BELE, Marjan, MALIČ, Barbara. Effect of milling time and pH on the dispersibility of lead zirconate titanate in aqueous media for inkjet printing. *J. Eur. Ceram. Soc.* [Print ed.], [in press] 2013, 9 str., doi: [10.1016/j.jeurceramsoc.2013.08.002](https://doi.org/10.1016/j.jeurceramsoc.2013.08.002). [COBISS.SI-ID [27002919](https://www.cobiss.si/record/27002919)], IF (2012) 2,36
60. THANASSOULAS, Angelos, KARATAIRI, Eva, CORDOYIANNIS, George, KUTNJAK, Zdravko, TZITZIOS, Vassilios, LELIDIS, Ioannis, NOUNESIS, George. CdSe nanoparticles dispersed in ferroelectric smectic liquid crystals: Effects upon the smectic order and the smectic-A to chiral smectic-C phase transition. *Phys. rev., E Stat. nonlinear soft matter phys. (Print)*, 2013, vol. 88, no. 3, str. 032504-1-032504-8, doi: [10.1103/PhysRevE.88.032504](https://doi.org/10.1103/PhysRevE.88.032504). [COBISS.SI-ID [27044647](https://www.cobiss.si/record/27044647)], IF (2012) 2,313
61. NOVAK, Nikola, KUTNJAK, Zdravko, PIRC, Raša. High-resolution electrocaloric and heat capacity measurements in barium titanate. *Europhys. Lett.*, 2013, vol. 103, no. 4, str. 47001-1-47001-5, doi: [10.1209/0295-5075/103/47001](https://doi.org/10.1209/0295-5075/103/47001). [COBISS.SI-ID [26977831](https://www.cobiss.si/record/26977831)], IF (2012) 2,26
62. NOVAK, Nikola, KUTNJAK, Zdravko. Hysteresis of field-induced ferroelectric transition in Pb(Mg_{1/3}Nb_{2/3})O₃ relaxor ferroelectrics. *Ferroelectrics*, 2013, vol. 447, no. 1, str. 40-45, doi: [10.1080/00150193.2013.821855](https://doi.org/10.1080/00150193.2013.821855). [COBISS.SI-ID [27058983](https://www.cobiss.si/record/27058983)], IF (2012) 0,415
63. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, JAGLIČIĆ, Zvonko, KRALJ, Samo, TZITZIOS, Vassilios, CORDOYIANNIS, George, KUTNJAK, Zdravko. Indirect magnetoelectric coupling in mixtures of magnetite and ferroelectric liquid crystal. *Ferroelectrics*, 2013, vol. 448, no. 1, str. 12-16, doi: [10.1080/00150193.2013.822263](https://doi.org/10.1080/00150193.2013.822263). [COBISS.SI-ID [27066151](https://www.cobiss.si/record/27066151)], IF (2012) 0,415
64. ROŽIČ, Brigita, KORUZA, Jurij, KUTNJAK, Zdravko, CORDOYIANNIS, George, MALIČ, Barbara, KOSEC, Marija. The electrocaloric effect in lead-free K_{0.5}Na_{0.5}NbO₃-SrTiO₃ ceramics. *Ferroelectrics*, 2013, vol. 446, no. 1, str. 39-35, doi: [10.1080/00150193.2013.820996](https://doi.org/10.1080/00150193.2013.820996). [COBISS.SI-ID [27066407](https://www.cobiss.si/record/27066407)], IF (2012) 0,415
65. BOBNAR, Vid, URŠIČ, Hana, CASAR, Goran, DRNOVŠEK, Silvo. Distinctive contributions to dielectric response of relaxor ferroelectric lead scandium niobate ceramic system. *Phys. status solidi, b Basic res.*, [in press] 2013, 5 str., doi: [10.1002/pssb.201349259](https://doi.org/10.1002/pssb.201349259). [COBISS.SI-ID [26952743](https://www.cobiss.si/record/26952743)], IF (2012) 1,489
66. KUŠČER, Danjela, NOSHCHENKO, Oleksandr, URŠIČ, Hana, MALIČ, Barbara. Piezoelectric properties of ink-jetprinted lead zirconate titanate thick films confirmed by piezoresponse force microscopy. *J. Am. Ceram. Soc.*, 2013, vol. 96, no. 9, str. 2714-2717, doi: [10.1111/jace.12532](https://doi.org/10.1111/jace.12532). [COBISS.SI-ID [27023911](https://www.cobiss.si/record/27023911)], IF (2012) 2,017
67. KUPEC, Alja, GEMEINER, Pascale, DKHIL, Brahim, MALIČ, Barbara. Phase transitional behavior of potassium sodium niobate thin films. *Thin solid films*. [Print ed.], 2013, vol. 539, str.317-322, doi: [10.1016/j.tsf.2013.05.098](https://doi.org/10.1016/j.tsf.2013.05.098). [COBISS.SI-ID [26935079](https://www.cobiss.si/record/26935079)], IF (2012) 1,604
68. LAVRIČ, Marta, CORDOYIANNIS, George, KRALJ, Samo, TZITZIOS, Vassilios, NOUNESIS, George, KUTNJAK, Zdravko. Effect of anisotropic MoS₂ nanoparticles on the blue phase range of a chiral liquid crystal. *Applied optics*. Tiskana izd., 2013, vol. 52, no. 22, str. E47-E52. [COBISS.SI-ID [26785319](https://www.cobiss.si/record/26785319)], IF (2012) 1,698
69. KUŠČER, Danjela, BAKARIČ, Tina, KOZLEVČAR, Bojan, KOSEC, Marija. Interactions between lead-zirconate titanate, polyacrylic acid, and polyvinyl butyral in ethanol and their influence on electrophoretic deposition behavior. *J. phys. chem., B Condens. mater. surf. interfaces bi-*

- ophys.*, 2013, vol. 117, no. 6, str. 1651-1659, doi: [10.1021/jp305289u](https://doi.org/10.1021/jp305289u). [COBISS.SI-ID [26145319](https://www.cobiss.si/id/26145319)], IF (2012) 3,607
70. NOVAK, Nikola, PIRC, Raša, KUTNJAK, Zdravko. Diffuse critical point in PLZT ceramics. *Europhys. Lett.*, 2013, vol. 102, no. 1, str. 17003-1-17003-5, doi: [10.1209/0295-5075/102/17003](https://doi.org/10.1209/0295-5075/102/17003). [COBISS.SI-ID [26682407](https://www.cobiss.si/id/26682407)], IF (2012) 2,26
71. NOVAK, Nikola, PIRC, Raša, KUTNJAK, Zdravko. Impact of critical point on piezoelectric and electrocaloric response in barium titanate. *Phys. Rev., B, Condens. Matter Mater. Phys.*, 2013, vol. 87, str. 104102-1-104102-5, doi: [10.1103/PhysRevB.87.104102](https://doi.org/10.1103/PhysRevB.87.104102). [COBISS.SI-ID [26585127](https://www.cobiss.si/id/26585127)], IF (2012) 3,767
72. CORDOYIANNIS, George, KRALJ, Samo, KUTNJAK, Zdravko, JESENEK, Dalija, MUŠEVIČ, Igor, ZIDANŠEK, Aleksander. Different modulated structures of topological defects stabilized by adaptive targeting nanoparticles. *Soft Matter*, 2013, vol. 9, no. 15, str. 3956-3964, doi: [10.1039/C3SM27644A](https://doi.org/10.1039/C3SM27644A). [COBISS.SI-ID [26557223](https://www.cobiss.si/id/26557223)], IF (2012) 3,909

1.02 Pregledni znanstveni članek | *Scientific paper*

1. TKALEC, Uroš, MUŠEVIČ, Igor. Topology of nematic liquid crystal colloids confined to two dimensions. *Soft Matter*, 2013, vol. 9, issue 34, str. 8140-8150, doi: [10.1039/C3SM50713K](https://doi.org/10.1039/C3SM50713K). [COBISS.SI-ID [26755367](https://www.cobiss.si/id/26755367)], IF (2012) 3,909

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

1. KUŠČER, Danijela, ABELLARD, Andre-Pierre, KOSEC, Marija, LEVASSORT, Franck. Piezoelectric thick-film structures for high-frequency transducer applications prepared by electrophoretic deposition. V: *Processing and properties of advanced ceramics and composites V*, (Ceramic transactions, vol. 240). [S. l.]: Wiley, 2013, str. 131-141. [COBISS.SI-ID [26830887](https://www.cobiss.si/id/26830887)]

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

1. PAVLOVIĆ, Milenko, SANTO-ZARNIK, Marina, KOCJAN, Sandi, STUŠEK, Marko, BELAVIČ, Darko. Preliminary media-compatibility tests for LTCC-based pressure sensors. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 173-179. [COBISS.SI-ID [27097127](https://www.cobiss.si/id/27097127)]
2. FRUNZA, Raluca C., KMET, Brigita, RACHUT, Karsten, JANKOVEC, Marko, TOPIČ, Marko, KLEIN, Andreas, MALIČ, Barbara. Solution-derived Ta₂O₅-based dielectric thin films for transparent electronic devices. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 239-244. [COBISS.SI-ID [27169831](https://www.cobiss.si/id/27169831)]
3. HROVAT, Marko, BELAVIČ, Darko, MAKAROVIČ, Kostja. "Green" thick film resistors on various substrates. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 257-261. [COBISS.SI-ID [27096871](https://www.cobiss.si/id/27096871)]

4. DOLANC, Gregor, HROVAT, Marko, FAJDIGA, Primož, HOČEVAR, Stanko, POHAR, Andrej, MAKAROVIČ, Kostja, BELAVIČ, Darko. System with ceramic LTCC micro-reactor for steam reforming. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 251-256. [COBISS.SI-ID [27097383](#)]
5. BELAVIČ, Darko, HROVAT, Marko, MAKAROVIČ, Kostja, SEDLAKOVA, Vlasta, SIKULA, Josef, SANTO-ZARNIK, Marina. Investigations of thick K-film piezoresistors terminated with silver-based thick-film conductors. V: HEGR, Ondrej (ur.). EDS'13, Electronic Devices and Systems IMAPS CS International Conference 2012, June 26-27, 2013, Brno, Czech Republic. *Proceedings*. Brno: Vysoké učení Technické v Brně, 2013, str. 218-223. [COBISS.SI-ID [26848039](#)]
6. RUDEŽ, Rok, BERNIK, Slavko. Studies of concentrated inks for the screen printing of thick-film varistors. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 245-250. [COBISS.SI-ID [27103783](#)]
7. BERNIK, Slavko, PRIBOŠEK, Marko. Construction and characteristics of a Z-meter setup for thermoelectric measurements of materials. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 121-126. [COBISS.SI-ID [27103527](#)]
8. DOLŽAN, Tine, VRTAČNIK, Danilo, RESNIK, Drago, ALJANČIČ, Uroš, MOŽEK, Matej, PEČAR, Borut, AMON, Slavko. Automated characterization of micropumps. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 151-154, ilustr. [COBISS.SI-ID [10287444](#)]
9. ŠMID, Blaž, TRONTELJ, Janez. Extended design of integrated micro-coil for onboard magnetic field generation. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 273-276, ilustr. [COBISS.SI-ID [10163284](#)]
10. PODHRAŠKI, Matija, PODRŽAJ, Jurij, TRONTELJ, Janez. The impact of solder voids on thermal performance of a power module : a numerical evaluation. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 225-228, ilustr. [COBISS.SI-ID [10162772](#)]
11. ERGAVER, Gregor, TRONTELJ, Janez. Conducted and radiated emissions characterization and mitigation of direct current brush-commutation motor. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 219-224, ilustr. [COBISS.SI-ID [10162516](#)]
12. SEŠEK, Aleksander, TRONTELJ, Janez. Measurement system for sea wave monitoring. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, Sep-

- tember 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 189-193, ilustr. [COBISS.SI-ID [10164052](#)]
13. ALJANČIČ, Uroš, BOŠNJAK, Roman, BENEDIČIČ, Mitja, RESNIK, Drago, VRTAČNIK, Danilo, DOLŽAN, Tine, PEČAR, Borut, MOŽEK, Matej, AMON, Slavko. Photoplethysmograph prototype for clinical use. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 161-165, ilustr. [COBISS.SI-ID [10146132](#)]
 14. PEČAR, Borut, KRIŽAJ, Dejan, VRTAČNIK, Danilo, RESNIK, Drago, MOŽEK, Matej, ALJANČIČ, Uroš, DOLŽAN, Tine, AMON, Slavko. Influence of an excitation signal waveform on micro-pump operation - numerical simulation analysis. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 145-150, ilustr. [COBISS.SI-ID [10184020](#)]
 15. JUVAN, Erik K., DOLŽAN, Tine, PEČAR, Borut, ALJANČIČ, Uroš, MOŽEK, Matej, VRTAČNIK, Danilo, RESNIK, Drago, AMON, Slavko. Development of a dry etching system using xenon difluoride. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 141-144, ilustr. [COBISS.SI-ID [10146900](#)]
 16. VRTAČNIK, Danilo, RESNIK, Drago, ALJANČIČ, Uroš, MOŽEK, Matej, PEČAR, Borut, DOLŽAN, Tine, AMON, Slavko. Fabrication of silicon microneedles for transdermal drug delivery. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 135-140, ilustr. [COBISS.SI-ID [10147156](#)]
 17. RESNIK, Drago, VRTAČNIK, Danilo, ALJANČIČ, Uroš, MOŽEK, Matej, DOLŽAN, Tine, PEČAR, Borut, JANEŽ, Andrej, URBANČIČ-ROVAN, Vilma, AMON, Slavko. Microfabricated Si microneedle array for in vitro skin penetration. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 129-134, ilustr. [COBISS.SI-ID [10145876](#)]
 18. STRLE, Drago, TRONTELJ, Janez. Signal processing for integrated, high performance, low noise chemical/biological sensor interface. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 39-44, ilustr. [COBISS.SI-ID [10163540](#)]
 19. TRONTELJ, Janez, SEŠEK, Aleksander, ŠVIGELJ, Andrej. THz focal plane array for high resolution 3D imaging. V: LEITNER, Raimund (ur.), ARNOLD, Thomas (ur.). *International THz Conference 2013 : September 9-10, 2013, Villach, Austria*. [Wien]: Österreichische Computer Gesellschaft, cop. 2013, str. 37-41, ilustr. [COBISS.SI-ID [10105428](#)]
 20. ŠVIGELJ, Andrej, PAVLOVIČ, Leon, TRONTELJ, Janez. THz focal plane array with improved fill factor. V: LEITNER, Raimund (ur.), ARNOLD, Thomas (ur.). *International THz Conference 2013 : September 9-10, 2013, Villach, Austria*. [Wien]: Österreichische Computer Gesellschaft, cop. 2013, str. 63-65, ilustr. [COBISS.SI-ID [10106196](#)]

21. TRONTELJ, Janez, SEŠEK, Aleksander, ŠVIGELJ, Andrej. THz-vision system with extended functionality. V: ANWAR, Mehdi F. (ur.), CROWE, Thomas W. (ur.), MANZUR, Tariq (ur.). *Terahertz physics, devices, and systems VII : advanced applications in industry and defence*, (Proceedings of SPIE, vol. 8716). Bellingham: Society of Photo-Optical Instrumentation Engineers: = SPIE, cop. 2013, str. 1-9, ilustr. http://spie.org/x648.html?product_id=2015217. [COBISS.SI-ID [9966164](#)]
22. ČANČULA, Miha, RAVNIK, Miha, ŽUMER, Slobodan. Modelling light propagation through optically non-uniform anisotropic materials. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Izток (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 67-68, ilustr.
23. JENUŠ, Petra, LISJAK, Darja, KUŠČER, Danjela, MAKOVEC, Darko, DROFENIK, Mihael. Co-sintering of magnetoelectric composites of Co-ferrite and selected ferroelectrics. V: TRDIN, Nejc (ur.), REŠETIČ, Andraž (ur.), PAVLIN, Majda (ur.), CVETKOVIČ, Božidara (ur.). 5. študentska konferenca Mednarodne podiplomske šole Jožefa Stefana = 5th Jožef Stefan International Postgraduate School Students Conference, 23. maj 2013, Ljubljana, Slovenija. *Zbornik*. Ljubljana: Mednarodna podiplomska šola Jožefa Stefana, 2013, str. 278-287. [COBISS.SI-ID [26779687](#)]
24. JENUŠ, Petra, LISJAK, Darja, KUŠČER, Danjela, MAKOVEC, Darko, DROFENIK, Mihael. Co-sintering of magnetoelectric composites of Co-ferrite and selected ferroelectrics. V: TRDIN, Nejc (ur.), REŠETIČ, Andraž (ur.), PAVLIN, Majda (ur.), CVETKOVIČ, Božidara (ur.). 5. študentska konferenca Mednarodne podiplomske šole Jožefa Stefana = 5th Jožef Stefan International Postgraduate School Students Conference, 23. maj 2013, Ljubljana, Slovenija. *Zbornik*. Ljubljana: Mednarodna podiplomska šola Jožefa Stefana, 2013, str. 278-287. [COBISS.SI-ID [26779687](#)]

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

1. ROJAC, Tadej, BENČAN, Andreja, WALKER, Julian, DAMJANOVIČ, Dragan, MALIČ, Barbara. Mechanochemistry as an efficient way to chemically homogeneous ferroelectric ceramics : case studies of (K,Na)NbO₃- and BiFeO₃-based materials. V: International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic. *2013 Joint UFFC, EFTF and PFM Symposium*. [Sl. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2013. [COBISS.SI-ID [26924071](#)]
2. RAVNIK, Miha. Liquid crystal colloidal structures for photonics. V: *University-Industry Cooperative Reseach Program of JSPS, 8 November 2013*. Tokyo: Tokyo University of Science (Iida-bashi, Tokyo), 2013 [COBISS.SI-ID.....]
3. ŽUMER, Slobodan. Topological soft matter. V: 9th Ibero-American Workshop on Complex Fluids and 2nd Italian-Brazilian Workshop on Liquid Crystals, October 14th-18th, 2013, Macieó, Brazil. *Scientific program*. [s. l.: s. n.], 2013, str. 34-35. [COBISS.SI-ID [2606180](#)]

4. TKALEC, Uroš, SENGUPTA, Anupam, HERMINGHAUS, Stephan, BAHR, Christian. Tunable nematic flow in microfluidic environment. V: 12th European Conference on Liquid Crystals, ECLC 2013, 22-27 September 2013, Rhodes, Greece. *Conference programme*. [S. l.: s. n.], 2013. [COBISS.SI-ID [27090471](#)]
5. ČOPAR, Simon, RAVNIK, Miha, ŽUMER, Slobodan. Shapeable particles : controllable topology of nematic colloids. V: The 7th International Liquid Crystal Elastomer Conference, September 10th - 12th, 2013, Shanghai, China. *ILCE7*. [s. l.: s. n.], 2013, str. 3. [COBISS.SI-ID [2587492](#)]
6. ŽUMER, Slobodan. Nematic braids: effects of chirality and confinement. V: *Liquid Crystal Defects and their Geometry, Active and Solid Liquid Crystals, and Related Systems, 24 - 28 June 2013*. Cambridge: Isaac Newton Institute for Mathematical Sciences, 2013. <http://www.newton.ac.uk/programmes/MLC/seminars/2013062414454.html>. [COBISS.SI-ID [2575204](#)]
7. ŽUMER, Slobodan. Geometry and topology of complex soft matter. V: *Differential Geometry and Continuum Mechanics, Jun 17, 2013 - Jun 21, 2013, ICMS, Edinburgh*. Edinburgh: International Centre for Mathematical Sciences, 2013. <http://www.icms.org.uk/workshops/differentialgeometry#presentations>. [COBISS.SI-ID [2576740](#)]
8. RAVNIK, Miha. Three-dimensional liquid crystalline superstructures for photonics (joint talk with I-CAMP). V: *Liquid Crystal Defects and their Geometry, Active and Solid Liquid Crystals, and Related Systems, 24 - 28 June 2013*. Cambridge: Isaac Newton Institute for Mathematical Sciences, 2013. <http://www.newton.ac.uk/programmes/MLC/seminars/2013062809004.html>, <http://sms.cam.ac.uk/media/1511006>. [COBISS.SI-ID [2575460](#)]
9. ŽUMER, Slobodan. Optical imprinting of defects in chiral nematics: modeling and simulations. V: *I-CAMP Summer School on Liquid Crystals : from mathematics and physical underpinnings to opto-mechanics, photonics, and electro-optic applications, Cambridge, United Kingdom, June 26 - July 6, 2013*. Boulder: University of Colorado, 2013. http://spot.colorado.edu/~smalyukh/icamp2013/ICAMP2013_Program.html. [COBISS.SI-ID [2574436](#)]
10. ŽUMER, Slobodan, RAVNIK, Miha. Shapeable particles in nematic colloids. V: 245th ACS National Meeting & Exposition, April 7-11, 2013, New Orleans, Louisiana. *Chemistry of energy & food*. Washington: American chemical society, 2013. http://abstracts.acs.org/chem/245nm/program/view.php?pub_num=84&par=POLY. [COBISS.SI-ID [2553700](#)]
11. RAVNIK, Miha. Design of liquid crystal superstructures: geometry, topology, flow, and mesophase. V: *Analytical and Computational Paths from Molecular Foundations to Continuum Descriptions*, Isaac Newton Institute for Mathematical Sciences, Cambridge, 18 - 22 March 2013. *Analytical and Computational Paths from Molecular Foundations to Continuum Descriptions, 18 - 22 March 2013*. Cambridge: Isaac Newton Institute for Mathematical Sciences, 2013. <http://www.newton.ac.uk/programmes/MLC/seminars/2013032109001.html>. [COBISS.SI-ID [2547044](#)]
12. SKAČEJ, Gregor. Molecular modeling of liquid crystal elastomers. V: *Analytical and Computational Paths from Molecular Foundations to Continuum Descriptions*, Isaac Newton Institute for Mathematical Sciences, Cambridge, 18 - 22 March 2013. *Analytical and Computational Paths from Molecular Foundations to Continuum Descriptions, 18 - 22 March 2013*. Cambridge: Isaac Newton Institute for Mathematical Sciences, 2013. <http://www.newton.ac.uk/programmes/MLC/seminars/2013032114001.html>. [COBISS.SI-ID [2546788](#)]
13. ŽUMER, Slobodan. Topology and geometry of complex colloidal nematic structures. V: *Conference on Condensed Matter and Biological Systems, CCMB13, Banaras, India, January 11-14, 2013*. *Conference programmes and abstracts*. [s. l.: s. n.], 2013, str. 50. [COBISS.SI-ID [2526820](#)]

14. KOSMAČ, Tomaž. *Survival-rate Analysis of Surface Treated Dental Zirconia (Y-TZP) Ceramics, 8 - 11 October 2013, Faenza, Italy*. 2013. [COBISS.SI-ID]
15. KUTNJAK, Zdravko. Electrocaloric effect in ferroelectrics and relaxor materials. V: The 6th International Meeting on Materials for Electronic Applications - IMMEA 2013, 14-17 November 2013, Sousse, Tunisia. *Abstracts book*. [S. l.: s. n.], 2013, str. 5. [COBISS.SI-ID [27244327](#)]
16. KUTNJAK, Zdravko. Electrocaloric materials and dielectric refrigeration : novel developments and future perspectives : [plenary, keynote lecture]. V: ROLEDER, Krystian (ur.). 13th International Meeting on Ferroelectricity, IMF-13, [September 2-6, 2013], Kraków, Poland. *Abstracts*. [The Organizing Committee of the IMF-13]: s. n., 2013, str. 16. [COBISS.SI-ID [27033383](#)]
17. MALIČ, Barbara, URŠIČ, Hana, KORUZA, Jurij, VRABELJ, Marko, ROŽIČ, Brigita, KUTNJAK, Zdravko. Processing and microstructure of lead-based and lead-free complex perovskites in bulk, thick and thin film form for electrocaloric applications. V: VALANT, Matjaž (ur.), FANETTI, Mattia (ur.), MARTIN-SAMOS, Layla (ur.), OVTAR, Simona (ur.), GARDONIO, Sandra (ur.). *Book of abstracts*. Nova Gorica: University, 2013. [COBISS.SI-ID [27067943](#)]

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

1. BENČAN, Andreja, TREFALT, Gregor, KAMPLET, Mitja, MALIČ, Barbara, SEO, Yohan, WEBBER, Kyle. Lead zirconate titanate zirconia composites : microstructural evaluation of the homogeneity using the Voronoi-diagram approach : [presented at 71st Annual Meeting of the Microscopy Society of America, 47th Annual Meeting of the Microanalysis Society, 46th Annual Meeting of the International Metallographic Society, August 4-8, 2013, Indiana, USA]. *Microsc. microanal. (Print)*. [Print ed.], 2 str. [COBISS.SI-ID [26964007](#)], [JCR]
2. VRABELJ, Marko, URŠIČ, Hana, KUTNJAK, Zdravko, DRNOVŠEK, Silvo, MALIČ, Barbara, MALIČ, Barbara. Multifunctional 0.65PMN-0.35PT/Pt thick-film actuators. V: *Workshop of all working groups: "Advances in Ferroelectric and Multiferroics" of the MP0904 COST action: Single- and multiphase ferroelectrics and multiferroics with restricted geometries : July 20-21, 2013, Prague, Czech Republic*. Prague: Institut of Physics, Academy of Sciences of the Czech Republic, 2013, str. 51. [COBISS.SI-ID [26930215](#)]
3. MAKAROVIČ, Kostja, BENČAN, Andreja, HROVAT, Marko, HOLC, Janez, MALIČ, Barbara, KOSEC, Marija, BERMEJO, Raúl, KRALEVA, Irina. The evolution of the mechanical properties of low temperature co-fired ceramics fired at different temperatures. V: 13th Conference of the European Ceramic Society, ECERS XIII, June 23-27, 2013, Limoges, France. *Book of abstracts*. [S. l.]: ECERS, 2013, str. 80. [COBISS.SI-ID [26846247](#)]
4. PAVLIČ, Jernej, KOSEC, Marija, MALIČ, Barbara, ROJAC, Tadej. Are potassium sodium niobate based materials suitable for thick film technology?. V: 13th Conference of the European Ceramic Society, ECERS XIII, June 23-27, 2013, Limoges, France. *Book of abstracts*. [S. l.]: ECERS, 2013, str. 564. [COBISS.SI-ID [26847015](#)]
5. MEDEN, Anton. X-ray powder diffraction as a basic tool for characterization of materials. V: URŠIČ, Hana (ur.), BENČAN, Andreja (ur.), MALIČ, Barbara (ur.). *Characterization of materials : [program and lecture notes] : COST Winter School, Ljubljana, Slovenia, 28th and 29th January 2013*. Ljubljana: Institut Jožef Stefan, 2013. 1 zv. prosojnic, barve.
6. PAVLIČ, Jernej, KOSEC, Marija, MALIČ, Barbara, ROJAC, Tadej. K_{0.5}Na_{0.5}NbO₃ thick films with potassium-sodium germanate sintering aid. V: *Electroceramics for End-Users VII, 17th March to 20th March 2013, Les Arcs, France*. *Piezo 2013 : book of abstracts*. [S. l.: s. n.], 2013, str. 41. [COBISS.SI-ID [26629671](#)]
7. BERNIK, Slavko, KOŠIR, Mateja, DANEU, Nina, REČNIK, Aleksander. Tailoring the microstructural and structural characteristics of the (ZnO)_xIn₂O₃ ceramics toward enhanced thermoelectric characteristics. V: 10th Pacific Rim Conference on Ceramic and Glass Technol-

ogy, includes the 2013 Annual Meeting of the Glass & Optical Materials Division (GOMD), June 2-7, 2013, San Diego, California. *Abstract book*. [S. l.]: The American Ceramic Society, 2013, str. 14. [COBISS.SI-ID [26810151](#)]

8. KOŠIR, Mateja, DANEU, Nina, REČNIK, Aleksander, BERNIK, Slavko. Microstructural and structural studies of compounds in the $(\text{ZnO})_k \text{In}_{20}\text{O}_{30}$ 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](#)]
9. SKAČEJ, Gregor, ZANNONI, Claudio. Molecular modeling of liquid crystal elastomers. V: *2013 MRS Fall Meeting & Exhibit, December 1-6, 2013, Boston, Massachusetts*. Warrendale: Materials Research Society, 2013. <http://www.mrs.org/fall-2013-program-a/>. [COBISS.SI-ID [2624356](#)]
10. ĐORIĆ, Marko, ISKRA, Ivan, ŠKAPIN, Davor, TAVČAR, Gašper, REMŠKAR, Maja. Nanoparticles released during explosions of pirotechniques. V: MIHAILOVIĆ, Dragan (ur.), PINTAR, Albin (ur.), ARČON, Denis (ur.), HASSANIEN, Abdou (ur.). SLONANO 2013, 23-25 October 2013, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Jožef Stefan Institute, 2013, str. 99.
11. ERŠTE, Andreja, VIŠIČ, Bojana, REMŠKAR, Maja, BOBNAR, Vid. Dielectric investigations of PVDF-MoS₂ nanotube composite thin films. V: MIHAILOVIĆ, Dragan (ur.), PINTAR, Albin (ur.), ARČON, Denis (ur.), HASSANIEN, Abdou (ur.). SLONANO 2013, 23-25 October 2013, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Jožef Stefan Institute, 2013, str. 66
12. JELENC, Janez, ČEŠAREK, Maja, VARLEC, Ana, VIŠIČ, Bojana, KRŽAN, Andrej, REMŠKAR, Maja. Friction properties of polyvinylidene fluoride with added MoS₂ nanotubes. V: MIHAILOVIĆ, Dragan (ur.), PINTAR, Albin (ur.), ARČON, Denis (ur.), HASSANIEN, Abdou (ur.). SLONANO 2013, 23-25 October 2013, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Jožef Stefan Institute, 2013, str. 98, ilustr. http://www.slonano.si/db_images/files/abstract_book-22-10-2013.pdf. [COBISS.SI-ID [5369626](#)]
13. VARLEC, Ana, MANSOUR, Shehab A., DILUCCIO, Tiziana, REMŠKAR, Maja. Microscopic and spectroscopic investigation of MoS₂ nanotubes/P3HT nanocomposites. V: *Flatlands : beyond graphene : program : June 17-21, 2013, Bremen*. Bremen: Jacobs University, 2013, str. 35. http://www.jacobs-university.de/sites/default/files/uploaded_files/SES/CONFERENCES/Flatlands/PosterAbstracts.pdf. [COBISS.SI-ID [26836263](#)]
14. MUŠEVIČ, Igor. Atomic force microscope and laser tweezers. V: URŠIČ, Hana (ur.), BENČAN, Andreja (ur.), MALIČ, Barbara (ur.). *Characterization of materials : [program and lecture notes] : COST Winter School, Ljubljana, Slovenia, 28th and 29th January 2013*. Ljubljana: Institut Jožef Stefan, 2013, 24 str. (prosojnice). [COBISS.SI-ID [26518055](#)]
15. LAVRIČ, Marta, TZITZIOS, Vassilios, TRČEK, Maja, KRALJ, Samo, CORDOYIANNIS, George, NOUNESIS, George, LELIDIS, Ioannis, KUTNJAK, Zdravko. The influence of anisotropic nanoparticles on blue phase stabilization. V: MIHAILOVIĆ, Dragan (ur.), PINTAR, Albin (ur.), ARČON, Denis (ur.), HASSANIEN, Abdou (ur.). SLONANO 2013, 23-25 October 2013, Ljubljana, Slovenia. *Book of abstracts*. Ljubljana: Jožef Stefan Institute, 2013, str. 86. [COBISS.SI-ID [27266599](#)]
16. ABELLARD, Andre-Pierre, KUŠČER, Danjela, LETHIECQ, Marc, MALIČ, Barbara, LEVASSORT, Franck, GRÉGOIRE, Jean Marc, BELAVIČ, Darko. Lead zirconate titanate multi-element structure by electrophoretic deposition. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013, str. 107-108. [COBISS.SI-ID [27166759](#)]

17. LAVRIČ, Marta, KRAMER, Dominic, TRČEK, Maja, CORDOYIANNIS, George, LELIDIS, Ioannis, FINKELMANN, Heino, KUTNJAK, Zdravko. The N-SmA phase transition of liquid-crystalline elastomers. V: 12th European Conference on Liquid Crystals, ECLC 2013, 22-27 September 2013, Rhodes, Greece. *Conference programme*. [S. l.: s. n.], 2013. [COBISS.SI-ID [27105319](#)], [COBISS.SI-ID [27125543](#)]
18. LAVRIČ, Marta, TZITZIOS, Vassilios, TRČEK, Maja, KRALJ, Samo, NOUNESIS, George, LELIDIS, Ioannis, CORDOYIANNIS, George, KUTNJAK, Zdravko. The influence of anisotropic nanoparticles on blue phase stabilization. V: 12th European Conference on Liquid Crystals, ECLC 2013, 22-27 September 2013, Rhodes, Greece. *Conference programme*. [S. l.: s. n.], 2013. [COBISS.SI-ID [27105575](#)]
19. TRČEK, Maja, TZITZIOS, Vassilios, CORDOYIANNIS, George, KRALJ, Samo, NOUNESIS, George, JAMPANI, Venkata Subba R., DHARA, Surajit, THOEN, Jan, KUTNJAK, Zdravko. Nanoparticle-induced twist grain boundary phases. V: 12th European Conference on Liquid Crystals, ECLC 2013, 22-27 September 2013, Rhodes, Greece. *Conference programme*. [S. l.: s. n.], 2013. [COBISS.SI-ID [27104807](#)]
20. ROŽIČ, Brigita, KORUZA, Jurij, CORDOYIANNIS, George, MALIČ, Barbara, KUTNJAK, Zdravko. The electrocaloric effect in lead-free $K_{0.5}Na_{0.5}NbO_3-SrTiO_3$ ceramics. V: VALANT, Matjaž (ur.), FANETTI, Mattia (ur.), MARTIN-SAMOS, Layla (ur.), OVTAR, Simona (ur.), GARDONIO, Sandra (ur.). European Conference on Materials and Technologies for Sustainable Growth, Bled, 19. -21, September 201. *Book of abstracts*. Nova Gorica: University, 2013. [COBISS.SI-ID [27068199](#)]
21. VRABELJ, Marko, URŠIČ, Hana, ROŽIČ, Brigita, KUTNJAK, Zdravko, DRNOVŠEK, Silvo, MALIČ, Barbara. Electrocaloric properties of $0.7Pb(Mg_{1/3}Nb_{2/3})O_3-0.3PbTiO_3$ ceramics prepared from mechanochemically activated powder. V: ŽEMVA, Andrej (ur.), ŠORLI, Polona (ur.), ŠORLI, Iztok (ur.). 49th International Conference on Microelectronics, Devices and Materials & the Workshop on Digital Electronic Systems, September 25 - September 27, 2013, Kranjska Gora, Slovenia. *Proceedings*. Ljubljana: MIDEM - Society for Microelectronics, Electronic Components and Materials, 2013. [COBISS.SI-ID [27128871](#)]
22. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, CORDOYIANNIS, George, DROFENIK, Mihael, JAGLIČIČ, Zvonko, KRALJ, Samo, TZITZIOS, Vassilios, KUTNJAK, Zdravko. Mixtures of the ferroelectric liquid crystal and magnetic nanoparticles : new soft magnetoelectrics. V: International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic. *2013 Joint UFFC, EFTF and PFM Symposium*. [S. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2013. [COBISS.SI-ID [26938919](#)]
23. ROŽIČ, Brigita, KUTNJAK, Zdravko, CORDOYIANNIS, George, TRČEK, Maja, URŠIČ, Hana, KORUZA, Jurij, VRABELJ, Marko, MALIČ, Barbara, PIRC, Raša, LU, S. -G., ZHANG, Qiming M. New cooling technologies based on the electrocalorics. V: International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic. *IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic*. [S. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2013. [COBISS.SI-ID [26938919](#)]

- Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic. *2013 Joint UFFC, EFTF and PFM Symposium*. [Sl. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2013. [COBISS.SI-ID [26924327](#)]
24. ROŽIČ, Brigita, JAGODIČ, Marko, GYERGYEK, Sašo, CORDOYIANNIS, George, DROFENIK, Mihael, JAGLIČIĆ, Zvonko, KRALJ, Samo, TZITZIOS, Vassilios, KUTNJAK, Zdravko. New soft magnetoelectrics. V: *Workshop of all working groups: "Advances in Ferroelectric and Multiferroics" of the MP0904 COST action: Single-and multiphase ferroics and multiferroics with restricted geometries : July 20-21, 2013, Prague, Czech Republic*. Prague: Institut of Physics, Academy of Sciences of the Czech Republic, 2013, str. 24. [COBISS.SI-ID [26928935](#)]
25. VRABELJ, Marko, URŠIČ, Hana, ROŽIČ, Brigita, KUTNJAK, Zdravko, DRNOVŠEK, Silvo, MALIČ, Barbara. Electrocaloric properties of $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.3\text{PbTiO}_3$ ceramics. V: *International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic* IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic. *2013 Joint UFFC, EFTF and PFM Symposium*. [Sl. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2013. [COBISS.SI-ID [26924839](#)]
26. URŠIČ, Hana, ROJAC, Tadej, JIN, Li, DAMJANOVIĆ, Dragan. Elastic anomalies in ferroelectric ceramics : $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ as elastic relaxor, octahedral tilts in tetragonal $\text{Pb}(\text{Zr,Ti})\text{O}_3$ and magneto-elastic coupling in BiFeO_3 . V: *International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic* IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society International Ultrasonics Symposium (IUS), Joint IEEE International Symposium on the Applications of Ferroelectrics (ISAF) and Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (PMF), Joint International Frequency Control Symposium (IFCS), and European Frequency and Time Forum (EFTF), 21-25 July 2013, Prague, Czech Republic. *2013 Joint UFFC, EFTF and PFM Symposium*. [Sl. l.]: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 2013. [COBISS.SI-ID [26923815](#)]
27. BAKARIČ, Tina, KUŠČER, Danjela, MALIČ, Barbara. Porous piezoelectric lead zirconate titanate ceramics processed by hetero coagulation of ceramic powder and an organic template. V: *13th Conference of the European Ceramic Society, ECERS XIII, June 23-27, 2013, Limoges, France. Book of abstracts*. [S. l.]: ECERS, 2013, str. 56. [COBISS.SI-ID [26845735](#)]
28. KORUZA, Jurij, JOUIN, Jenny, MALIČ, Barbara, KOSEC, Marija. Grain size-induced transitions between antiferroelectric and ferroelectric phases in NaNbO_3 ceramics. V: *13th Conference of the European Ceramic Society, ECERS XIII, June 23-27, 2013, Limoges, France. Book of abstracts*. [S. l.]: ECERS, 2013, str. 559. [COBISS.SI-ID [26846759](#)]
29. KUTNJAK, Zdravko, ROŽIČ, Brigita, MALIČ, Barbara, URŠIČ, Hana, HOLC, Janez, KOSEC, Marija, ZHANG, Qiming M. Giant electrocaloric effect in organic and inorganic relaxor materials for dielectric refrigeration. V: *E-MRS 2013 spring meeting and exhibit*. Warrendale: Materials Research Society, 2013. [COBISS.SI-ID [26690343](#)]
30. VRABELJ, Marko, URŠIČ, Hana, ROŽIČ, Brigita, KUTNJAK, Zdravko, MALIČ, Barbara. Study of electrocaloric properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-\text{PbTiO}_3$. 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. 25. [COBISS.SI-ID [26551847](#)]

31. 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](#)]

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

1. FUKUDA, Jun-ichi, ŽUMER, Slobodan. Cholesteric blue phases under confinement : Skyrmion lattices and other exotic defect structures. V: KWOK, Hoi-Sing (ur.), NAEMURA, Shohei (ur.), ONG, Hiap Liew (ur.). *Progress in liquid crystal science and technology : in honor of Shunsuke Kobayashi's 80th birthday*, (Series on liquid crystals, vol. 4). New Jersey ... [et al.]: World Scientific, cop. 2013, str. 113-131. [COBISS.SI-ID [2568804](#)]

2.08 Doktorska disertacija | **Ph.D.**

1. MAKAROVIČ, Kostja. *The effect of processing conditions on the phase composition, structure and properties of low temperature co-fired ceramics : doctoral dissertation = Vpliv pogojev priprave na fazno sestavo, strukturo in lastnosti keramike z nizko temperaturo žganja : doktorska disertacija*. Ljubljana: [K. Makarovič], 2013. XVI, 111 str., ilustr. [COBISS.SI-ID [269059584](#)], mentor doc. Dr. Andreja Benčan Golob, somentor prof. dr. Barbara Malič
2. KORUZA, Jurij. *Sintering and phase transition behaviour of sodium niobate : doctoral dissertation = Sintranje in fazne premene natrijevega niobata : doktorska disertacija*. Ljubljana: [J. Koruza], 2013. XX, 111 str., ilustr. Mentor prof. dr. Barbara Malič, somentor dr. Tadej Rojac [COBISS.SI-ID [267161600](#)]

3.14 Predavanja na tuji univerzi | *Invited lectures*

1. RAVNIK, Miha. *Nematic liquid crystal colloids : topology and structures : [invited lecture at Waseda University, Pure & Applied Physics Graduate School of Advanced Science and Engineering, Tokyo, 26.11. 2013]*. 2013. [COBISS.SI-ID [2620004](#)]
2. RAVNIK, Miha. *Complex nematic fluids : entangled colloids and material flow : [invited lecture at University of Tokyo, Department of Physics, Graduate School of Science, Tokyo, 25.11. 2013]*. 2013. [COBISS.SI-ID [2619748](#)]
3. RAVNIK, Miha. *Designing colloidal superstructures in nematic liquid crystal colloids : [invited lecture at AIST Institute for Advanced industrial science and Technology, Tsukuba, Japonska, 22.11. 2013]*. 2013. [COBISS.SI-ID [2619492](#)]
4. RAVNIK, Miha. *Topological superstructures in nematic liquid crystal colloids : [invited lecture at Kyoto University, Department of Physics, Kyoto, Japonska, 15.11. 2013]*. 2013. [COBISS.SI-ID [2619236](#)]
5. RAVNIK, Miha. *Complex nematic fluids : functionalization by colloidal particles and material flow : [invited lecture at Kyoto University, Department of Chemical Engineering, Kyoto, Japonska, 14.11. 2013]*. 2013. [COBISS.SI-ID [2618980](#)]
6. RAVNIK, Miha. *Liquid crystal colloids : structures for photonics : [invited lecture at Osaka University, Graduate School of Engineering, Osaka, Japonska, 13.11. 2013]*. 2013. [COBISS.SI-ID [2618724](#)]
7. RAVNIK, Miha. *Nematic liquid crystal colloids as topological soft matter : [invited lecture at Kyushu University, Department of Physics, Faculty of Sciences, Fukuoka, Japonska, 12.11. 2013]*. 2013. [COBISS.SI-ID [2618468](#)]

8. RAVNIK, Miha. *Crystals and quasi-crystals of nematic and blue phase colloids : [invited lecture at Kyushu University, Department of Integrated Materials, Institute for Materials Chemistry and Engineering, Fukuoka, Japonska, 11. 11. 2013]*. 2013. [COBISS.SI-ID [2618212](#)]
9. ŽUMER, Slobodan. *Topological soft matter : [Lecture given at University College of London, EE Dept., Computer Modelling group, July 8, 2013, London]*. 2013. [COBISS.SI-ID [2576996](#)]
10. ŽUMER, Slobodan. *Topological soft matter : [lecture at the University of Southern Mississippi, College of science and technology, April 11, 2013]*. 2013. [COBISS.SI-ID [2551140](#)]
11. ŽUMER, Slobodan. *Topological soft matter : knotted fields in constrained nematics : [lecture at the Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, September 8, 2013]*. 2013. [COBISS.SI-ID [2588260](#)]
12. TKALEC, Uroš. *Topological aspects of knotted nematic colloids : lecture at the Max-Planck-Institut für Dynamik und Selbstorganisation, Abteilung Dynamik komplexer Fluide, Göttingen, 13th September 2013*. [COBISS.SI-ID [20060424](#)]
13. KOSMAČ, Tomaž. *Dental zirconia ceramics : an engineering perspective : invited talk*. Houston: University of Texas, Houston Center for Biomaterials and Biomimetics, 19 mar. 2013. [COBISS.SI-ID [26663975](#)]

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

1. URŠIČ, Hana, HROVAT, Marko, BELAVIČ, Darko. *Keramične 2D in 3D strukture : 2. planska konferenca Centra odličnosti NAMASTE, 31. 1. 2013, Institut Jožef Stefan, Ljubljana*. 2013. [COBISS.SI-ID [26532391](#)]
2. RESNIK, Drago, KOVAČ, Janez, GODEC, Matjaž, VRTAČNIK, Danilo, MOŽEK, Matej, AMON, Slavko. *Correlation between microstructural and electrical properties of heat treated Ti/Pt layers*. Paris: 19th International Vacuum Congress, Sep. 2013. [COBISS.SI-ID [10148436](#)]
3. ZDOVC, Irena, DOBEIC, Martin, PINTARIČ, Štefan, GOLOB, Majda. *RRP5 - bioaktivni, biokompatibilni in bioinertni materiali : [predavanje na: 2. planski konferenci Centra odličnosti NAMASTE, četrtek, 31. 1. 2013, Institut "Jožef Stefan", Ljubljana]*. Ljubljana: Ministrstvo za izobraževanje, znanost, kulturo in šport Republike Slovenije, 2013. [COBISS.SI-ID [3636090](#)]

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

1. REMŠKAR, Maja. *MoS₂ nanotubes as efficient additives to lubricants for friction reduction at steel and DLC contacts : Marktsondierugsreise Eisen- und Metallbe- und verarbeitung, 12. November 2013, Ljubljana, Dienstag*. 2013. [COBISS.SI-ID [27260967](#)]
2. ŽUMER, Slobodan. *Topological soft matter for optics and photonics : [plenary talk at 15th Topical Meeting on Optics of Liquid Crystals, OLC 2013, September 29 - October 4, 2013, Honolulu, Hawaii, USA]*. 2013. [COBISS.SI-ID [2602852](#)]
3. REMŠKAR, Maja. *The MoS₂ nanomaterials and their polymer nanocomposites for applications in electronics : presented at International CECAM-Workshop "Novel 2D materials: tuning electronic properties on the atomic scale", June 10th - 14th 2013, Bremen, Germany*. 2013. [COBISS.SI-ID [26977319](#)]
4. REMŠKAR, Maja. *Nanotehnologija v stroki VZD : Simpozij "Varno in zdravo delovno okolje", 21 in 22. november 2013, Rogaška Slatina, Slovenija*. 2013. [COBISS.SI-ID [27260711](#)]

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

1. ČUK, Miha. *Zasnova in izvedba izmeničnega presmernika visoko učinkovitih obtočnih črpalk : magistrsko delo*. Ljubljana: [M. Čuk], 2013. X, 95 str., ilustr., mentor prof. dr. Andrej Žemva, [COBISS.SI-ID [9925716](#)]

2. ČANČULA, Miha. *Modeliranje širjenja svetlobe vzdolž ograjenih tekočerkristalnih defektnih linij : magistrsko delo*. Ljubljana: [M. Čančula], 2013. 57 str., ilustr. [COBISS.SI-ID [2579812](#)]
3. BRLOŽNIK, Maja. *Pregled obolenj psov z znaki bolezni sečil : magistrsko delo = Review of canine diseases with signs of urinary tract disease*. Ljubljana: [Maja Brložnik], 2013. 191 str., 8 pril., ilustr. [COBISS.SI-ID [3769466](#)]
4. STAJNKO, Anja. *Speciacija arzena v tkivih izbranih hrustančnic severnega Jadranskega morja : magistrsko delo : magistrski študij - 2. stopnja = Speciation of arsenic in tissue of selected cartilaginous fish from the Northern Adriatic : M. Sc. Thesis : Master Study Programmes*. Ljubljana: [A. Stajnko], 2013. XI, 100 f., [5] f. pril., ilustr. [COBISS.SI-ID [2948943](#)]

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

1. GORENC, Lidija. *Fizikalno-kemijska stabilnost formulacij z zdravilno učinkovino v obliki soli s preprostimi protioniom : diplomsko delo*. Ljubljana: [L. Gorenc], 2013. 62 f., ilustr. [COBISS.SI-ID [37051141](#)]
2. NOVAK GRAMC, Nives. *Vpliv dodatka predreagiranih bizmut-titanatnih faz na razvoj mikrostrukture in lastnosti varistorske keramike na osnovi ZnO : diplomsko delo*. Ljubljana: [N. Novak Gramc], 2013. 59 f., ilustr. [COBISS.SI-ID [37018117](#)]
3. MATAVŽ, Aleksander. *Sintranje in stereološka analiza mikrostrukture elektrokalorične keramike na osnovi $Pb(Mg_{\text{spodaj}}(1/3)Nb_{\text{spodaj}}(2/3))O_{\text{spodaj}}3-PbTiO_{\text{spodaj}}3$ = Sintering and stereological analysis of electrocaloric ceramics based on $Pb(Mg_{\text{sub}}(1/3)Nb_{\text{sub}}2/3))O_{\text{sub}}3-PbTiO_{\text{sub}}3$: diplomsko delo*. Maribor: [Al. Matavž], 2013. X, 53 str., ilustr. [COBISS.SI-ID [27064871](#)]
4. KOPAČ, Jure. *Zasnova in izvedba ogrevalne avtomatike : diplomsko delo visokošolskega strokovnega študija*. Ljubljana: [J. Kopač], 2013. II, 58 str., ilustr., mentor prof. dr. Andrej Žemva, [COBISS.SI-ID [9943892](#)]
5. ANTONIJEVIČ, Matej. *Sistem za karakterizacijo piezoelektričnih mikročrpalk : diplomsko delo univerzitetnega študija*. Ljubljana: [M. Antonijević], 2013. V, 70 str., [7] f. pril., ilustr., mentor doc. dr. Matej Možek [COBISS.SI-ID [9676372](#)]
6. PERUŠKO, Dominik. *Načrtovanje, izdelava in karakterizacija mikrosistema za kontrolo temperature v mikroprocesorju vodika : diplomsko delo univerzitetnega študija*. Ljubljana: [D. Peruško], 2013. II, 63 str., [9] str. pril., ilustr., mentor doc. dr. Matej Možek [COBISS.SI-ID [9681492](#)]
7. DEBELJAK, Stanislav. *Mikrokrmilniški sistem za krmiljenje avtomatiziranih sistemov : diplomsko delo visokošolskega strokovnega študija*. Ljubljana: [S. Debeljak], 2013. IV, 57 str., ilustr., mentor prof. dr. Andrej Žemva, [COBISS.SI-ID [9991252](#)]
8. JOVIĆ, Aleksander. *Dajalnik pozicije z vodilom CAN : diplomsko delo visokošolskega strokovnega študija*. Ljubljana: [A. Jović], 2013. VI, 53 str., ilustr., mentor prof. dr. Andrej Žemva, [COBISS.SI-ID [9989460](#)]
9. PERKON, Martin. *Razvoj LED svetila za snemanje podvodnega videa : diplomsko delo visokošolskega strokovnega študija*. Ljubljana: [M. Perkon], 2013. XII, 53 str., ilustr. [COBISS.SI-ID [10210644](#)]
10. BERČIČ, Matjaž. *Dislokacijski topološki defekti v tekočerkristalnih modrih fazah : diplomsko delo*. Ljubljana: [M. Berčič], 2013. VIII, 60 str., ilustr., mentor doc. dr. Miha Ravnik, [COBISS.SI-ID [2562916](#)]
11. ŠTIMULAK, Mitja. *Fotonski pasovi v modrofaznih koloidnih kristalih : diplomsko delo*. Ljubljana: [M. Štimulak], 2013. 38 f., ilustr., mentor doc. dr. Miha Ravnik [COBISS.SI-ID [2544996](#)]
12. PRESEČNIK, Klara. *Določanje porazdelitvenega koeficienta amfifilnih molekul pri prehanjanju med membrano in vodo s simulacijami molekularne dinamike : diplomsko delo*. Ljubljana: [K. Presečnik], 2013. IV, 39 f., ilustr. [COBISS.SI-ID [2605156](#)]

13. BRADEŠKO, Andraž. *Modeliranje, izdelava in karakterizacija piezoelektričnega aktualnega sistema = Modeling, design and characterization of a piezoelectric actuator system : diplomsko delo*. Ljubljana: [A. Bradeško], 2013. VI, 37 f., ilustr. [COBISS.SI-ID [27062823](#)]
14. TEKAVČIČ, Anže. *Razvoj mikrostrukture med sintranjem keramike KNN = Microstructure development during sintering of KNN ceramics : diplomsko delo*. Ljubljana: [A. Tekavčič], 2013. IV, 35 f., ilustr., graf. prikazi. [COBISS.SI-ID [1306719](#)]
15. KAMPLET, Mitja. *Mikrostrukturna analiza kompozitov iz svinčevega cirkonata titanata in cirkonijevega dioksida = Microstructure analysis of lead zirconate titanate and zirconium dioxide composites : diplomsko delo*. Ljubljana: [M. Kamplet], 2013. 47 f., ilustr., graf. prikazi. [COBISS.SI-ID [1287519](#)]

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

1. MALOVRH, Alenka. *Optimizacija meritve lipidne peroksidacije v prebavnih žlezah kopenskega raka enakonožca : diplomski seminar*, (Biotehniška fakulteta, Študij biotehnologije, Diplomski seminar univerzitetni študij - 1. stopnja, 149). Ljubljana: [A. Malovrh], 2013. IX, 24 f., [8] f. pril., ilustr. [COBISS.SI-ID [7705977](#)]
2. MICESKA, Simona. *Prilagoditev testa MTT za testiranje citotoksičnosti izbranih nanodelcev s pasjimi ledvičnimi celicami (MDCK) : diplomski seminar = MTT assay optimization for cytotoxicity testing on canine kidney cells (MDCK) with selected nanoparticles : B. Sc. thesis*, (Biotehniška fakulteta, Študij biotehnologije, Diplomski seminar univerzitetni študij - 1. stopnja, 150). Ljubljana: [S. Miceska], 2013. IX, 25 f., [4] f. pril., ilustr. [COBISS.SI-ID [7708025](#)]

Komentor pri doktorskih disertacijah | [Co-mentor for Ph.D.](#)

1. MAKAROVIC, Kostja. *The effect of processing conditions on the phase composition, structure and properties of low temperature co-fired ceramics : doctoral dissertation = Vpliv pogojev priprave na fazno sestavo, strukturo in lastnosti keramike z nizko temperaturo žganja : doktorska disertacija*. Ljubljana: [K. Makarovič], 2013. XVI, 111 str., ilustr. [COBISS.SI-ID [269059584](#)], mentor doc. Dr. Andreja Benčan Golob, somentor prof. dr. Barbara Malič
2. SODERŽNIK, Marko. *The development of an optimum core-shell microstructure for high-coercivity Nd-Fe-B magnets with minimum heavy-rare-earth content : doctoral dissertation = Razvoj optimalne mikrostrukture tipa "jedro-ovoj" za visoko koercitivne magnetne Nd-Fe-B z minimalno vsebnostjo težkih redkih zemelj : doktorska disertacija*. Ljubljana: [M. Soderžnik], 2013. XII, 110 str., ilustr., mentor doc. dr. Paul J. McGuinness, [COBISS.SI-ID [268167424](#)]
3. PEČAR, Borut. *Načrtovanje, izdelava in lastnosti silicijevih fluidnih mikrosistemov : doktorska disertacija*. Ljubljana: [B. Pečar], 2013. VIII, 278 str., [17] str. pril., ilustr. [COBISS.SI-ID [9982036](#)], mentor prof. dr. Slavko Amon, somentor doc. dr. Matej Možek
4. ŠMID, Blaž. *Zasnova naprednih magnetnih mikrosenzorskih sistemov : doktorska disertacija*. Ljubljana: [B. Šmid], 2013. XI, 85 f., ilustr. [COBISS.SI-ID [9749588](#)], mentor prof. dr. Janez Trontelj
5. PORENTA, Tine. *Flexo-electric and optic field effects on confined chiral and achiral nematic ordering : doctoral thesis*. Ljubljana: [T. Porenta], 2013. 83, XX str., ilustr., mentor prof. dr. Slobodan Žumer [COBISS.SI-ID [2557028](#)]
6. VIŠIČ, Bojana. *Physical properties of nanoflakes produced by exfoliation of MoS₂ nanotubes and their respective polymer nanocomposites : doctoral thesis*. Ljubljana: [B. Višič], 2013. 158 str., ilustr. [COBISS.SI-ID [2608484](#)]
7. JAMPANI, Venkata Subba R.. *Chiral nematic colloidal interactions and photonic properties of nematic colloids*. Ljubljana: [V. S. R. Jampani], 2013. XIV, 127 str., ilustr., mentor prof. dr. Igor Muševič, [COBISS.SI-ID [2571620](#)]

8. KOGOVŠEK, Janez. *Tribological effects of nanoparticles in lubricants : doctoral thesis*. Ljubljana: [J. Kogovšek], 2013. XXIV, 188 str., ilustr. [COBISS.SI-ID [13136155](#)]
9. ŠTEFANIČ, Martin. *Bioactive calcium phosphate coatings on zirconia ceramics : doctoral dissertation = Bioaktivne kalcijeve fosfatne prevleke na keramiki iz cirkonijevega oksida : doktorska disertacija*. Ljubljana: [M. Štefanič], 2013. XIV, 139 str., ilustr., mentor prof. Tomaž Kosmač, somentor dr. Kristoffer Krnel [COBISS.SI-ID [268018944](#)]
10. FILIPIČ, Jasmina. *Vpliv magnetnega polja na bakterije v bioloških čistilnih napravah in na pretvorbo dušika : doktorska disertacija*. [Maribor: J. Filipič], 2013. XVI, 123 str., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=55441>. Mentor prof. dr. Vanja Kokol, somentor dr. Ines Mandić-Mulec [COBISS.SI-ID [267399936](#)]
11. URBANČIČ, Iztok. *Odziv biomembranskih domen na zunanje dražljaje : doktorska disertacija*. [Maribor: I. Urbančič], 2013. 131 str., ilustr., graf. prikazi. [COBISS.SI-ID [271289088](#)]
12. LUKMAN, David. *Prijemalo za objekte v mikro in nanometrskem področju : doktorska disertacija*. [Maribor: D. Lukman], 2013. XV, 99 f., ilustr. <http://dkum.uni-mb.si/Dokument.php?id=54800>. [COBISS.SI-ID [266599168](#)]
13. PIPAN TKALEC, Živa. *Privzem, razporeditev in učinki nanodelcev kovin in kovinskih oksidov na prehranjevanje in zgradbo prebavila kopenskega raka enakonožca Porcellio scaber (Isopoda; Crustacea) : doktorska disertacija = Internalization, location and effect of nanoparticles of metals and metal oxides on feeding and structure of digestive system of terrestrial isopod Porcellio scaber (Isopoda; Crustacea) : doctoral dissertation*. Ljubljana: [Ž. Pipan Tkalec], 2013. XIV f., 100 str., ilustr. [COBISS.SI-ID [786807](#)]
14. NOVAK, Sara. *Bioaktivnost zaužitih nanomaterialov na modelni nevretenčarski organizem (Porcellio scaber, Isopoda, Crustacea) : doktorska disertacija = Bioactivity of ingested nanomaterials on a model invertebrate organism (Porcellio scaber, Isopoda, Crustacea) : doctoral dissertation*. Ljubljana: [S. Novak], 2013. IX f., 145 str., ilustr., tabele., mentor prof. dr. Damjana Drobne [COBISS.SI-ID [266916608](#)]
15. NOVAK, Nikola. *Study of polar ordering in ordered and partial disordered ferroelectric systems : doctoral dissertation = Študija polarnega urejanja v urejenih in delno neurejenih ferroelektričnih sistemih : doktorska disertacija*. Ljubljana: [N. Novak], 2013. XI, 93 str., ilustr., mentor prof. dr. Zdravko Kutnjak [COBISS.SI-ID [266275840](#)]
16. KORUZA, Jurij. *Sintering and phase transition behaviour of sodium niobate : doctoral dissertation = Sintranje in fazne premene natrijevega niobata : doktorska disertacija*. Ljubljana: [J. Koruza], 2013. XX, 111 str., ilustr. Mentor prof. dr. Barbara Malič, somentor dr. Tadej Rojac [COBISS.SI-ID [267161600](#)]