

Ķīmiskās fizikas institūta 2015. gada publikācijas

1. **Kunakova, Gunta.** Lādiņnesēju transports bismuta halkogenīdu nanovadu virsmas slānī un tilpumā : promocijas darba kopsavilkums doktora grāda iegūšanai ķīmijā, apakšnozare: analītiskā ķīmija / Gunta Kunakova ; zinātniskie vad.: Donāts Erts, Floriana Lombardi (Zviedrija) ; rec.: Sigitas Tamulevičius (Lietuva), Andris Šternbergs, Māris Kļaviņš ; Latvijas Universitāte. Ķīmijas fakultātē. Ķīmiskās fizikas institūts. – Rīga : Latvijas Universitāte, 2015. - 41 lpp. : il., sh. - Bibliogrāfija: 8.-10. un 35.-40. lpp.

2. Advanced method of formation of heteropoly oxometalate nanocoating on electrodes for direct biomass conversion to energy / J. Kleperis, J. Gravitis, G. Vaivars, A. Gruduls, G. Bajars, A. Lūsis // EuroNanoForum 2015, 10-12 June 2015, Riga, Latvia : abstract. - Rīga, 2015. - Poster.: 1A-26. - URL: <http://euronanoforum2015.eu/poster-sessions/>
3. Alkylresorcinol metabolites in urine and plasma as potential biomarkers of rye and wheat fiber consumption in prostate cancer patients and controls / Laila Meija, Indriķis Krams, Vinita Cauce, Adile Samaletdin, Paivi Söderholm, Raimonds Meija, Līga Lārmane, Aivars Lejnieks, Vilnis Lietuvietis, Herman Adlercreutz // Nutrition and Cancer. - ISSN 0163-5581. - Vol.67, N 2 (2015), p.258-265. DOI:10.1080/01635581.2015.989371. - URL: http://www.tandfonline.com/doi/abs/10.1080/01635581.2015.989371#.VQwb5Y5mM_o
4. Angular resolved spectroscopic ellipsometric measurements of nano-composite and nano-porous thin films / Tomas Tamulevičius, Raimonds Poplausks, Juris Prikulis, Donats Erts, Aušrine Jurkevičiūte, Šarūnas Meškiniš, Sigitas Tamulevičius // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Rīga, 2015. - Poster: 1B-101. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Tamulevicius.pdf
5. Application of electrochemical impedance for characterising arrays of Bi₂S₃ nanowires / Gunta Kunakova, Juris Katkevics, Arturs Viksna, Zanda Gertnere, Justin Varghese, J.D. Holmes, Donats Erts // Electrochimica Acta. - ISSN 0013-4686. - Vol.170 (July, 2015), p.33-38 : il. doi:10.1016/j.electacta.2015.04.021. - URL: <http://www.sciencedirect.com/science/article/pii/S0013468615008993>
6. Application of a nanoelectromechanical mass sensor for the manipulation and characterisation of graphene and graphite flake / J. Kosmaca, J. Andzane, J. Prikulis, S. Biswas, J. Holmes, D. Erts // Science of Advanced Materials. - ISSN

- 1947-2935. - Vol.7, N 3 (2015), p.552-557. DOI: 10.1166/sam.2015.2139. DOI: <http://dx.doi.org/10.1166/sam.2015.2139>. - URL: <http://www.ingentaconnect.com/content/asp/sam/2015/00000007/00000003/art00020?token=00481143b7e2a46762c6b355d76666c702c3a44467c673f7b2f267738703375686f49154>
7. Behaviour of neutron irradiated beryllium during temperature excursions up to and beyond its melting temperature / Pajuste, E., Kizane, G., Avotiņa, L., Zariņš, A. // Journal of Nuclear Materials. - ISSN 0022-3115. - Vol. 465 (2015), p.293-300. DOI: 10.1016/j.jnucmat.2015.05.049. - URL: <http://www.sciencedirect.com/science/journal/00223115/465>
 8. Bi₂Te₃ and Bi₂Se₃ nanostructures: synthesis, topological insulator and thermoelectric properties / J. Andzane, G. Kunakova, M. Baitimirova, C. Sophie, F. Lombardi, D. Erts // FM&NT-2015: Functional Materials and Nanotechnologies, October 5th-8th, 2015 : Abstract book. - Vilnius, 2015. - ISBN 9786094595905. - P.40.
 9. Carbon nanocomposite films synthesis by sputtering technology / D. Jevdokimovs, P. Nazarov, V. Kovalenko, U. Kandars, J. Maniks, V. Mitin, D. Erts // Advanced Materials and Technologies : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga : Kauno Technologijos Universitetas, 2015. - ISSN 1822-7759. - P.45. - URL: <http://advancedmaterials.ktu.edu/2015/>
 10. Catalyst-free vapour-solid technique for deposition of Bi₂Te₃ and Bi₂Se₃ nanowires/nanobelts with topological insulator properties / J. Andzane, G. Kunakova, S. Charpientier, V. Hrkac, L. Kienle, M. Baitimirova, T. Bauch, F. Lombardi, D. Erts // Nanoscale. - ISSN 2040-3364. - Vol.7, N 38 (2015), p.15935-15944. DOI: 10.1039/C5NR04574F. - URL: <http://pubs.rsc.org/en/Content/ArticleLanding/2015/NR/C5NR04574F#!divAbstract>
 11. Comprehensive study on different crystal field environments in highly efficient NaLaF₄:Er³⁺ upconversion phosphor / A. Sarakovskis, G. Krieke, G. Doke, J. Grube, L. Grinberga, M. Springis. - References: p.96 // Optical Materials. - ISSN 0925-3467. - Vol.39 (2015), p.90-96. DOI: 10.1016/j.optmat.2014.11.004. - URL: <http://www.sciencedirect.com/science/article/pii/S0925346714005291>
 12. Deformation behavior and interfacial sliding in carbon/copper nanocomposite films deposited by high power DC magnetron sputtering / J. Maniks, V. Mitin, U. Kandars, V. Kovalenko, P. Nazarovs, M. Baitimirova, R. Meija, R. Zabels, K. Kundzins, D. Erts // Surface and Coatings Technology. - ISSN 0257-8972. -

- Vol.276 (2015), p.279-285. DOI: 10.1016/j.surfcoat.2015.07.004. - URL: <http://www.sciencedirect.com/science/article/pii/S0257897215301171>
13. Development and application of novel photonic materials / R. Viter, M. Bechelany, U. Riekstina, N. Starodub, D. Erts, V. Smyntyna, I. Yatsunskiy, A. Ubelis // The project "Fotonika-LV-FP7-Regpot-CT-2011-285912" the third year scientific outcomes : 73rd Annual Scientific Conference of the University of Latvia, 6th February, 2015, Riga, Latvia : book of abstracts. - [Rīga] : Latvijas Universitāte, 2015. - ISBN 9789984459363. - P.23 : il. - URL: http://www.lu.lv/fileadmin/user_upload/lu_portal/projekti/fotonika-lv/book_of_abstracts_lu73.pdf
 14. Electric current induced modification of germanium nanowire NEM switch contact / R. Meija, J. Kosmaca, L. Jasulaneca, K. Petersons, S. Biswas, J.D. Holmes, D. Erts // Nanotechnology. - (IOP Conference Series). - ISSN 0957-4484 - Vol.26, N 19 (May, 2015), doi:10.1088/0957-4484/26/19/195503. - URL: <http://www.scopus.com/record/display.url?eid=2-s2.0-84928643812&origin=resultslist>
 15. Electrochemical impedance spectroscopy for characterisation of templated / A. Viksna, J. Katkevics, G. Kunakova, J.D. Holmes, D. Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - 1 p. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Viksna.pdf
 16. **Erts, Donāts.** Nanoelectromechanical Systems (NEMS) / Donāts Erts // Advanced Materials and Technologies : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga : Kauno Technologijos Universitetas, 2015. - ISSN 1822-7759. - P.14. - URL: <http://advancedmaterials.ktu.edu/2015/>
 17. Evaluation of Current Induced Modification in Contacts of Ge Nanowire Based NEM Switches / Raimonds Meija, Jelena Kosmaca, Jana Andzane, Liga Jasulaneca, Holmes Justin D., Donats Erts // The International Conference on Understanding and Controlling Nano and Mesoscale Friction, 22nd-26nd June, 2015, Istanbul, Turkey : Book of abstracts. - Istanbul, 2015. - P.85, poster N 17. - URL: http://costnanotribo.org/sites/all/themes/bootstrap/2015_files/booklet.pdf
 18. Fabrication and characterization of ZnO/Graphene layered structures / Margarita Baitimirova, Roman Viter, Jana Andzane, Donats Erts, Mikhael Bechelany // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 2E-145. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Baitimirova.pdf>
 19. Graphene/bismuth chalcogenide composites for thermoelectric applications / Jana Andzane, Margarita Baitimirova, Raimonds Poplausks, Donats Erts //

- EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. -
Poster: 2E-144. - URL:
http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Andzane.pdf
20. Hydrothermally synthesized strontium peroxyapatite / Agnese Osite, Karlis Agris Gross, Arturs Viksna, Raimonds Poplauks // Advanced Materials Research. - ISSN 1662-8985. - Vol. 1117 (2015), p.209-212. DOI: 10.4028/www.scientific.net/AMR.1117.209. - URL: <http://www.scientific.net/AMR.1117.209>
21. Impact of Copper Substrate Pre-treatment on Hall Mobility of Graphene Grown by CVD Method / G. Pētersons, E. Mamis, M. Baitimirova, J. Andzane, M. Zubkins, J. Purans, A. Tamulevičiene, D. Erts // Advanced Materials and Technologies : Book of Abstracts of the 17-th International Conference-School, August 27-31, 2015, Palanga, Lithuania. - Palanga : Kauno Technologijas Universitetas, 2015. - ISSN 1822-7759. - P.56. - URL: <http://advancedmaterials.ktu.edu/2015/>
22. Influence of copper substrate pre-treatment on CVD graphene electrical transport properties / Gvido Pētersons, Edgars Mamis, Margarita Baitimirova, Jana Andžāne, Mārtiņš Zubkins, Juris Purāns, Tamulevičiene Asta, Donāts Erts. // EuroNanoForum 2015, 10-12 June 2015, Riga, Latvia. - Rīga, 2015. - Poster: 1B-108. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Petersons.pdf>
23. The influence of localized plasmons on the optical properties of Au/ZnO nanostructures / R. Viter, Z. Gertnere, D. Erts, Z. Balevicius, A. Abou Chaaya, I. Baleviciute, S. Tumenas, L. Mikoliunaite, A. Ramanavicius, A. Zalesska, V. Vataman // Journal of Materials Chemistry C. - ISSN 20507534. - Vol. 3, N 26 (2015), p. 6815-6821. DOI: 10.1039/c5tc00964b. - URL: <http://pubs.rsc.org/en/content/articlelanding/2015/tc/c5tc00964b#!divAbstract>
24. Jevdokimovs, Daniels. Carbon Nanocompositie Synthesis by Sputtering Technology / D. Jevdokimovs, P. Nazarov, V. Kovalenko, U. Kanders, V. Mitin, D. Erts // Advanced Materials and Technologies : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga : Kauno Technologijas Universitetas, 2015. - ISSN 1822-7759. - P.45.
25. Longitudinal spin-relaxation in nitrogen-vacancy centers in electron irradiated diamond / Andrejs Jarmola, Andris Berzins, Janis Smits, Krisjanis Smits, Juris Prikulis, Florian Helmuth Gahbauer, Ruvins Ferbers, Donats Erts, Marcis Auzins, D. Budker // Applied Physics Letters. - ISSN 0003-6951. - Vol.107, N 24 (2015), Article nr.: 242403. DOI: 10.1063/1.4937489. - URL: <http://scitation.aip.org/content/aip/journal/apl/107/24/10.1063/1.4937489>

26. Magnetic micro-convection in continuous microfluidics / Guntars Kitenbergs, Kaspars Ērglis, Juris Prikulis, Donāts Erts, Perzynski Regine, Andrejs Cēbers // Advances in 2015 : Microfluids & Nanofluidics, 18-21 August, 2015, Beijing, China - N 120; Poster list 148. - Tiešsaistes pakalpojums. - Nosaukums no sākumlapas. - Resurss aprakstīts 2015. gada 12. oktobrī. - URL: <http://amn2015.org/program/AMN2015FinalProgram.pdf>
27. Magnetotransport Characterisation of the Bismuth Selenide Nanowires / Gunta Kunakova, Charpentier Sophie, Jana Andzane, Bauch Thilo, Lombardi Floriana, Donats Erts // Advanced Materials and Technologies 2015 : Book of Abstracts of the 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga : Kauno technologijas universitetas, 2015. - ISSN 1822-7759. - P.51.
28. Mechanical characterization of a-C/Cu nanocomposite films obtained by high-power DC magnetron sputtering / J. Maniks, V. Mitins, U. Kandars, V. Kovalenko, P. Nazarovs, D. Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 2E-149. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Maniks.pdf
29. Mechanical properties of semiconductor nanowires / Līga Jasulaneca, Raimonds Meija, Justin D. Holmes, Donāts Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015 - Poster: 1B-90. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Jasulaneca.pdf>
30. Microfluidics for investigation of nanoparticle properties / Guntars Kitenbergs, Kaspars Ērglis, Juris Prikulis, Donāts Erts, Régine Perzynski, Andrejs Cēbers // EuroNanoForum 2015, Riga, Latvia : abstract. - Riga, 2015. - 1 p. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Kitenbergs.pdf
31. Nanoindentation response analysis of Cu-rich carbon-copper composite films deposited by PVD technique / U. Kandars, K. Kandars, J. Maniks, V. Mitin, V. Kovalenko, P. Nazarovs, D. Erts // Surface and Coatings Technology. - ISSN 0257-8972. - Vol.280 (October, 2015), p.308-316. DOI:10.1016/j.surfcoat.2015.08.045. - URL: <http://www.sciencedirect.com/science/article/pii/S025789721530219X>
32. Nanooptics of self-organized plasmonic layers for sensor applications / Juris Prikulis, Uldis Maļinovskis, Raimonds Popļausks, Gatis Bergs, Indra Apsīte, Donāts Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 1A-33. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Prikulis.pdf

33. Nanowire-based nanoelectromechanical (NEM) systems: principles of control of operating parameters / Donāts Erts, Raimonds Meija, Līga Jasulaneca, Jana Andzane, D. Justin Holmes // 17th International Workshop on Nanoscience & Nanotechnology, November 27-28, 2015, Sofia, Bulgaria / National Coordination Council on Nanotechnology, University of Chemical Technology and Metallurgy. - Sofia, 2015. - P.18 : Session F. - URL: <http://e-university.tu-sofia.bg/e-conf/?r=147>
34. Nanowire based sensor for manipulating of graphite flakes. / Jeļena Kosmaca, Jana Andzane, Justin D. Holmes, Donats Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 1B-107. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Kosmaca.pdf>
35. Natural radioactivity in clay and building materials used in Latvia / Riekstina, D., Berzins, J., Krasta, T., Svinka, R., Skrypnik, O. // Latvian Journal of Physics and Technical Sciences. - ISSN 0868-8257. - Vol.52, N 3 (2015), p.58-66. DOI: 10.1515/lpts-2015-0018. - URL: <http://www.degruyter.com/view/j/lpts.2015.52.issue-3/lpts-2015-0018/lpts-2015-0018.xml?format=INT> URL:
36. Operation conditions of bistable nanoelectromechanical switches / Raimonds Meija, Jana Andzane, Jelena Kosmaca, Liga Jasulaneca, Donats Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 1B-105. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Meija.pdf>
37. Optical properties and applications of multilayer systems of thin metal films with nanometer hole arrays on porous alumina - aluminum substrate / Prikulis, J., Tamulevičius, T., Poplauskis, R., Bergs, G., Apsīte, I., Maļinovskis, U., Erts, D. // RSC Advances. - Vol. 5, N 83 (2015), p. 68143-68150. DOI: 10.1039/C5RA12880C. - URL: <http://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra12880c/unauth#!divAbstract>
38. Optical properties of thin metal films with nanohole arrays on porous alumina-aluminum structures / Juris Prikulis, Tomas Tamulevičius, Raimonds Poplauskis, Gatis Bergs, Indra Apsite, Uldis Malinovskis, Andris Actins, Donats Erts // RSC Advances. - ISSN 2046-2069. - Vol.5, N 83 (2015), p.68143-68150 : tab. DOI: 10.1039/C5RA12880C. - URL: <http://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra12880c/unauth#!divAbstract>
39. Overview of the JET results / F. Romanelli, L. Avotina, M. Abhangi, P. Abreu, M. Aftanas, M. Afzal, K. M. Aggarwal, L. Aho-Mantila, E. Ahonen, M. Aints, M. Airila ... [et al.] // Nuclear Fusion. - (JOP Conference Series). - ISSN 0029-5515.

- Vol. 55 (10) (2015), Article nr. 104001. DOI: 10.1088/0029-5515/55/10/104001.
40. **Pajuste, Elīna.** Growth of beryllium oxide nano-structures during thermal treatment of neutron irradiated beryllium / Pajuste, E., Kizane, G., Avotiņa, L. // Medziagotyra. - ISSN 1392-1320. - Vol. 21, N 2 (July, 2015), p.215-219. DOI: 10.5755/j01.mm.21.2.6822. - URL: <https://doaj.org/article/d919ebffa5d544a2b742cfdc798a8573>
41. Photoconductive properties of Bi₂S₃ nanowires / J. Andzane, G. Kunakova, J. Varghese, J. D. Holmes, D. Ertz // Journal of Applied Physics. - ISSN 0021-8979. - Vol.117, N 6 (2015). DOI: <http://dx.doi.org/10.1063/1.4907867>. - URL: <http://scitation.aip.org/content/aip/journal/jap/117/6/10.1063/1.4907867>
42. Photoconductive properties of compound semiconductor nanowire arrays / J. Andzane, G. Kunakova, A. Kiselovs, J.D. Holmes, D. Ertz // 17th International Conference-School "Advanced materials and technologies 2015", August 27-31, 2015, Palanga, Lithuania : book of abstracts. - Palanga, 2015. - ISSN 1822-7759. - P.72 : P51.
43. Polarized interference imaging of dense disordered plasmonic nanoparticle arrays for biosensor applications / Gatis Bergs, Uldis Malinovskis, Raimonds Poplausks, Indra Apsite, Donats Ertz, Juris Prikulis // Physica Scripta. - ISSN 0031-8949. - Vol.90, N 9 (2015), Article nr.: 094002. DOI:10.1088/0031-8949/90/9/094002. - URL: <http://iopscience.iop.org/article/10.1088/0031-8949/90/9/094002>
44. Physicochemical processes in modified Li₄SiO₄ pebbles under action of accelerated electron irradiation / A. Zarins, O. Valtensbergs, G. Kizane, A. Supe, R. Knitter, L. Baumanė // Functional Materials and Nanotechnologies conference (FM&NT2015), October 5th-8th, 2015, Vilnius, Lithuania : book of abstracts. - Vilnius, 2015. - P.174.
45. **Prikulis, Juris.** Elastic light scattering by plasmonic nanostructure systems for sensor applications / Juris Prikulis // Advanced Materials and Technologies : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga : Kauno Technologijos Universitetas, 2015.. - ISSN 1822-7759. - P.21. - URL: http://advancedmaterials.ktu.edu/2015/doc/amt_2015_programme_v3.pdf
46. Production of carbon-based nanocomposite films by high-power DC magnetron sputtering / U. Kandars, V. Mitin, D. Jevdokimovs, V. Kovalenko, P. Nazarov // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 1B-59. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Jevdokimovs.pdf

47. Production, Characterization of Fluorographene – Fluorographite Coatings and Their Applications for Biological Cell Adhesion and Proliferation Stimulation / I. Andersons, A. Ramata-Stunda, M. Baitimirova, G. Pētersons, U. Malinovskis, I. Muiznieks, J. Andzane, D. Erts // Advanced Materials and Technologies 2015 : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga, Lietuva : Kauno Technologijas Universitetas, 2015.- ISSN 1822-7759. - P.33. - URL: <http://advancedmaterials.ktu.edu/2015/>
48. Radiolysis of Lithium Orthosilicate Pebbles under Action of Accelerated electron Flux / O. Valtenbergs, A. Zarins, G. Kizane, A. Supe, L. Baumane, R. Knitter, A. Zolotarjovs // Advanced Materials and Technologies : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga, 2015. - ISSN 1822-7759. - P.99 : P79.
49. Regulation of NO. biosynthesis by natural compounds in cerebellum and cortex / Evita Rostoka, Sergejs Isajevs, Larisa Baumane, Jelena Sharipova, Maija Dzintare, Nikolajs Sjakste // International conference in neuroscience and pharmacology "Neurodegenerative diseases and new trends in pharmacotherapeutic strategies", April, 23-24, 2015 : abstract book. - Riga, 2015. - P.9.
50. Resonant frequency study for characterization of nanocontact in a NEM switch / Jelena Kosmaca, Liga Jasulaneca, Raimonds Meija, Alexander I. Livshits, Justin D. Holmes, Donats Erts // 6th International Conference on Advanced Nanomaterials, 20-22 July, 2015, Aveiro, Portugal : abstracts. - Aveiro, 2015. - P.131. - URL: <http://www.anm2015.com/wp-content/uploads/2015/07/ANM2015-Abstract-Book-final-1.pdf>
51. Resonant frequency study for evaluation of changes in a nanoelectomechanical switch contact / J. Kosmaca, R. Meija, L. Jasulaneca, J. D. Holmes, J. Andzane, D. Erts // International Symposium on Nanoscale Transport and Technology (NTT), November 17-20, 2015, Kanagawa, Japan : Program & Abstract. - Kanagawa, 2015. - P.139 : PTu33/S10. - URL: http://www.brl.ntt.co.jp/event/isntt2015/download/Complete_Program_oral_and_poster_r7.pdf
52. Sensing properties of assembled Bi₂S₃ nanowire arrays / Kunakova, G. , Meija, R., Bite, I., Prikulis, J., Kosmaca, J., Varghese, J., Holmes, J.D., Erts, D. // Physica Scripta. - ISSN 1402-4896. - Vol. 90, N 9 (2015), Article Nr.: 094017. DOI: 10.1088/0031-8949/90/9/094017. - URL: <http://iopscience.iop.org/article/10.1088/0031-8949/90/9/094017/pdf;jsessionid=753A457BFDF38C582D6A50C2D9CA0EB1.c4.iopscience.cld.iop.org>

53. Spatially resolved nanostructural transformation in graphite under femtosecond laser irradiation / A. Marcu, L. Avotina, C. Porosnicu, A. Marin, C.E.A. Grigorescu, D. Ursescu, M. Lungu, N. Demitri, C. P. Lungu // Applied Surface Science. - ISSN 0169-4332. - Nr. 355 (2015), p. 477-483. DOI:10.1016/j.apsusc.2015.06.194. - URL: <http://www.sciencedirect.com/science/article/pii/S0169433215015421>
54. Study of the charge transport properties in bismuth sulphide nanowires / Gunta Kunakova, Raimonds Meija, Juris Prikulis, Holmes D Justin, Floriana Lombardi, Donāts Erts // 17th International Workshop on Nanoscience & Nanotechnology, November 27-28, 2015, Sofia, Bulgaria / National Coordination Council on Nanotechnology, University of Chemical Technology and Metallurgy. - Sofia, 2015. - P.57 : Session C. - URL: <http://e-university.tu-sofia.bg/e-conf/?r=140>
55. Synthesis of Ag and Ni nanowire networks for application in multifunctional, programmable materials / Indra Apsīte, Brenda Long, Donāts Erts, Justin D. Holmes // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 2E-167. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Apsite.pdf>
56. Thermally-Induced Tritium Release from the Inner Divertor Carbon Tiles of the JET Tokamak / Līga Avotiņa, Dāvis Čonka, Aigars Vītiņš, Mihails Haļitovs, Gunta Ķizāne, Jari Likonen, Anna Widdowson // Advanced Materials and Technologies : Book of Abstracts 17-th International Conference-School, 27-31 August, 2015, Palanga, Lithuania. - Palanga, 2015. - ISSN 1822-7759. - P.144 : P125.
57. Thin oxide layer formation for optically active coatings / Raimonds Poplauskis, Uldis Malinovskis, Indra Apsite, Donats Erts, Juris Prikulis // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 1B-42. - URL: http://euronanoforum2015.eu/wp-content/uploads/2015/03/Abstract_Poplauskis.pdf
58. Transport properties of the Bi₂S₃ nanowires for realisation in humidity sensors / Ivita Bite, Raimonds Meija, Gunta Kunakova, Juris Prikulis, Justin D Holmes, Donāts Erts // EuroNanoForum 2015, 10-12 June, 2015, Riga, Latvia : abstract. - Riga, 2015. - Poster: 1B-100. - URL: <http://euronanoforum2015.eu/wp-content/uploads/2015/03/Bite.pdf>
59. Tuning Germanium nanowire resonant frequency with clamping, mechanical deformation and mass deposition / Raimonds Meija, Jeļena Kosmača, Līga Jasulaņeca, Jana Andžāne, Holmes Justin D, Donāts Erts. - Ietver bibliogrāfiju // Openreadings 2015 : 58th Scientific Conference for students of physics and natural science : programme and abstracts. - Viļņa : Faculty of Physics Vilnius

University, 2015. - ISSN 2029-4425 - P.61. - URL:
http://www.openreadings.eu/wp-content/uploads/2015/03/OR_2015_abstracts.pdf

60. Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications / Roman Viter, Adib Abou Chaaya, Igor Iatsunskyi, Grzegorz Nowaczyk, Kristaps Kovalevskis, Donats Erts, Philippe Miele, Valentyn Smyntyna, Mikhael Bechelany // Nanotechnology. - ISSN 0957-4484. - Vol.26, N 10 (2015), p.416-423. DOI:10.1088/0957-4484/26/10/105501. - URL:
<http://iopscience.iop.org/0957-4484/26/10/105501/>