

2017. gada atdeves rādītāji LU CFI.

Lūdzu aizpildīt par Jūsu vadīto struktūrvienību un nosūtīt Līgai (ISSP@cfi.lu.lv) līdz
29. decembrim

Dati tiks izmantoti:

- bāzes finansējuma aprēķināšanai atbilstoši 13. decembrī akceptētajam ZP nolikumam, tai skaitā snieguma koeficienta aprēķināšanai visiem LU CFI zinātniskajiem un tehniskajiem darbiniekiem
- datu ievadīšanai Nacionālās zinātniskās darbības datu bāzē (NZDIS);
- pieprasījuma sagatavošanai IZM par bāzes finansējumu 2019. gadam

1. PUBLIKĀCIJAS un KONFERENCES

Autoru vidū ar "bold" izcelt laboratorijas darbiniekus;

Korespondējošo autoru pasvītrot;

Noteikti pievienot SNIP indeksu (2016);

Norādīt zinātniskās darbības projektu, kura ietvaros radīta publikācija (piemēram, VPP IMIS, LZP sadarbības projekts, ERAF projekts, H2020, vai cits starptautiskais projekts.)

1.1. Publikācijas, kas ir indeksētas SCOPUS datu bāzē par 2017. gadu

1. **L.L. Rusevich, G. Zvejnieks**, A. Erba, R. Dovesi, and **E.A. Kotomin**, Electromechanical properties of $\text{Ba}_{(1-x)}\text{Sr}_x\text{TiO}_3$ perovskite solid solutions from first-principles calculations. – *Journal of Physical Chemistry A*, 2017, **121**, pp. 9409–9414.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85038430910&origin=resultslist&sort=plf-f&src=s&st1=10.1021%2facsc.jpca.7b08473&st2=&sid=fd2bd7df1c6bc11afb271308663a7946&sot=b&sdt=b&sl=29&s=DOI%2810.1021%2facsc.jpca.7b08473%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1021/acs.jpca.7b08473

SNIP 2016: 0.980

Projekts: ERA.NET HarvEnPiez

2. **E.M. Khutoryan**, T. Idehara, M.M. Melnikova, N.M. Ryskin, and **O. Dumbrajs**, Influence of reflections on frequency tunability and mode competition in the second-harmonic THz gyrotron. – *Journal of Infrared Millimeter Terahertz*

Waves, 2017, **38**, p. 824-837.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85015055587&origin=resultslist&sort=plf-f&src=s&st1=10.1007%2fs10762-017-0378-x&st2=&sid=3b318c641d4e9dbe8d3ac22e187f3b60&sot=b&sdt=b&sl=30&s=DOI%2810.1007%2fs10762-017-0378-x%29&relpos=0&citeCnt=0&searchTerm=DOI: 10.1007/s10762-017-0378-x>
SNIP 2016: 1.489

Projekts: Russian Foundation for Basic Research grant no 15-02-01798a, European Regional Development Funding of the Project No. 1.1.1.1/16/A/004

3. **D. Bocharov, S. Piskunov, Yu.F. Zhukovskii**, E. Spohr, and P.N. Dyachkov, First principles modeling of 3d-metal doped three-layer fluorite-structured TiO₂ (4,4) nanotube to be used for photocatalytic hydrogen production. - *Vacuum*, 2017, **146**, p. 562-569.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85019628996&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.vacuum.2017.05.002&st2=&sid=b88331fbee8423a85434321c9618b71c&sot=b&sdt=b&sl=33&s=DOI%2810.1016%2fj.vacuum.2017.05.002%29&relpos=0&citeCnt=0&searchTerm=DOI: 10.1016/j.vacuum.2017.05.002>
SNIP 2016: 1.053

Projekti: EC ERA.Net RUS Plus project No. 237
WATERSPLIT, Russian Basic Research Foundation No. 16-53-76019, Latvian National Research Program IMIS2

4. **O. Dumbrajs** and H. Kalis, Multimode time-dependent gyrotron equations for different time scales. – *Physics of Plasmas*, 2017, **24**, 093111 (p. 1-6).

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85028621917&origin=resultslist&sort=plf-f&src=s&st1=10.1063%2f1.5000388&st2=&sid=a739dee4f8ee2af1fe319a482af7fd84&sot=b&sdt=b&sl=22&s=DOI%2810.1063%2f1.5000388%29&relpos=0&citeCnt=0&searchTerm=DOI: 10.1063/1.5000388>
SNIP 2016: 0.685

Projekts: European Regional Development Funding of the Project No. 1.1.1.1/16/A/004.

5. **R.A. Evarestov, A. Platonenko, D. Gryaznov, Yu.F. Zhukovskii**, and **E.A. Kotomin**, First-principles

calculations of oxygen interstitials in corundum: a site symmetry approach. - *Physical Chemistry and Chemical Physics*, 2017, **19**, p. 25245-25251.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85030697491&origin=resultslist&sort=plf-f&src=s&st1=10.1039%2fc7cp04045h&st2=&sid=7b4a3eaeede2d982c7c4c2ef4da2af5d&sot=b&sdt=b&sl=23&s=DOI%2810.1039%2fc7cp04045h%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1039/c7cp04045h

SNIP 2016: 1.117

Projekti: European Union's Horizon 2020 Research and Innovation Programme (EUROfusion Consortium) under grant agreement 633053, Latvian National Research Program IMIS2.

6. **A. Platonenko, S. Piskunov, D. Bocharov, Yu.F. Zhukovskii**, R.A. Evarestov, and S. Bellucci, First-principles calculations on Fe-Pt nanoclusters of various morphologies. - *Scientific Reports*, 2017, **7**, 10579 (p. 1-8).

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85028870569&origin=resultslist&sort=plf-f&src=s&st1=10.1038%2fs41598-017-11236-7&st2=&sid=76ffe163e97ef2d1368957590d0e9026&sot=b&sdt=b&sl=31&s=DOI%2810.1038%2fs41598-017-11236-7%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1038/s41598-017-11236-7

SNIP 2016: 1.401

Projekts: Scientific Research Project for Students and Young Researchers No. SJZ/2016/17 implemented at the Institute of Solid State Physics, University of Latvia.

7. P. Fu, J. Wang, R. Jia, S. Bibi, **R.I. Eglitis**, and H.-X. Zhang, Theoretical study on hydrogen storage capacity of expanded h-BN systems. - *Computational Materials Science*, 2017, **139**, p. 335-340.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85027857338&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.commatsci.2017.08.015&st2=&sid=3ed1a51ce329f959a0766e6221bfc462&sot=b&sdt=b&sl=36&s=DOI%2810.1016%2fj.commatsci.2017.08.015%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1016/j.commatsci.2017.08.015

SNIP 2016: 1.259

Projekti: Latvia-Ukraine Bilateral project

8. **M. Sokolov, R.I. Eglitis, S. Piskunov, and Yu.F. Zhukovskii**, *Ab initio* hybrid DFT calculations of BaTiO₃ bulk and BaO-terminated (001) surface F-centers. - *International Journal of Modern Physics B*, 2017, **31**, 1750251 (p. 1-15).

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85025172656&origin=resultslist&sort=plf-f&src=s&st1=10.1142%2fS0217979217502514&st2=&sid=c605ffe166dc7c3dc2b2a4255d51c67a&sot=b&sdt=b&sl=30&s=DOI%2810.1142%2fS0217979217502514%29&relpos=0&citeCnt=0&searchTerm=DOI: 10.1142/S0217979217502514>
SNIP 2016: 0.364
Projekti: Latvian Council of Science Grant No. 374/2012, Latvian National Research Program IMIS2.

9. **S. Bellucci, Yu.N. Shunin, V.I. Gopeyenko, T. Lobanova-Shunina, N. Burlutskaya, and Yu.F. Zhukovskii**, Real time polymer nanocomposites-based physical nanosensors: theory and modeling. - *Nanotechnology*, 2017, **28**, 355502 (p. 1-9).

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85027341923&origin=resultslist&sort=plf-f&src=s&st1=10.1088%2f1361-6528%2faa7baa&st2=&sid=c3533c56490f609c67c12e5699f4c92e&sot=b&sdt=b&sl=29&s=DOI%2810.1088%2f1361-6528%2faa7baa%29&relpos=0&citeCnt=0&searchTerm=DOI: 10.1088/1361-6528/aa7baa>
SNIP 2016: 0.814
Projekti: Belarus-Latvia Bilateral Project ‘Correlation of electromagnetic, mechanical and heat properties of aerogels and polymer composites with nanocarbon inclusions’, grant ‘Nanostructures for bacteria detection and study’ (NANOBAC), Ministry of Education and Science of the Republic of Kazakhstan.

10. **A.V. Bandura, R.A. Evarestov, S.I. Lukyanov, S. Piskunov, and Yu.F. Zhukovskii**, Simulation of Young's moduli for hexagonal ZnO [0001]-oriented nanowires: first principles and molecular mechanical calculations. - *Materials Research Express*, 2017, **4**, 085014 (p. 1-10).

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85029174417&origin=resultslist&sort=plf-f&src=s&st1=10.1088%2f2053-1591%2faa7732&st2=&sid=d566422a08cbefd5c7b10e2882fd0c86&sot=b&sdt=b&sl=29&s=DOI%2810.1088%2f2053-1591%2faa7732%29&relpos=0&citeCnt=0&searchTerm=DOI: 10.1088/2053-1591/aa7732>

1591%2faa7732%29&relpos=0&citeCnt=0&searchTerm=
DOI: 10.1088/2053-1591/aa7732
SNIP 2016: 0.508
Projekti: ERA.Net RUS Plus project No. 237 WATERSPLIT,
Russian Foundation for Basic Research (Grant No. 17-03-
00130-a).

11. D.-C. Yang, R. Jia, Y. Wang, C.-P. Kong, J. Wang, Y. Ma, **R.I. Eglitis**, and H.-X. Zhang, Novel carbon nanotubes rolled from 6,6,12-graphyne: Double Dirac points in 1D material. – *Journal of Physical Chemistry C*, 2017, **121**, p. 14835-14844.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85024926118&origin=resultslist&sort=plf-f&src=s&st1=10.1021%2facsc.7b01687&st2=&sid=8e397b4ac254d08b11d06bc109cbe6c5&sot=b&sdt=b&sl=29&s=DOI%2810.1021%2facsc.7b01687%29&relpos=0&citeCnt=0&searchTerm=>
DOI: 10.1021/acs.jpcc.7b01687
SNIP 2016: 1.181
Projekts: National Natural Science Foundation of China (Grant No. 21173096), Latvia-Ukraine Bilateral project

12. R.A. Evarestov, **S. Piskunov**, and **Yu.F. Zhukovskii**, Site symmetry approach in the supercell model of carbon-doped ZnO bulk. - *Chemical Physics Letters*, 2017, **682**, p. 91-95.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85020676337&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.cplett.2017.06.013&st2=&sid=f5e671007e31afdf3ad296c7914aa3d7&sot=b&sdt=b&sl=33&s=DOI%2810.1016%2fj.cplett.2017.06.013%29&relpos=0&citeCnt=2&searchTerm=>
DOI: 10.1016/j.cplett.2017.06.013
SNIP 2016: 0.721
Projekts: Latvian National Research Program IMIS2

13. M. Arrigoni, **E.A. Kotomin**, and J. Maier, First-principles study of perovskite ultrathin films: Stability and confinement effects. - *Israel Journal of Chemistry*, 2017, **57**, p. 509-521.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85002675196&origin=resultslist&sort=plf-f&src=s&st1=10.1002%2fijch.201600056&st2=&sid=8debaa1eb4edeeb483a05fb66c6071be&sot=b&sdt=b&sl=27&s=DOI%2810.1002%2fijch.201600056%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1002/ijch.201600056

SNIP 2016: 0.613

Projekti: Russian Science Foundation, project 14-43-00052,
H2020 GREEN-CC project

14. **Yu.F. Zhukovskii, S. Piskunov, O. Lisovski, D. Bocharov,** and R.A. Evarestov, Doped 1D nanostructures of transition-metal oxides: first-principles evaluation of photocatalytic suitability (Review). - *Israel Journal of Chemistry*, 2017, **57**, p. 461-476.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85007614020&origin=resultslist&sort=plf-f&src=s&st1=10.1002%2fijch.201600099&st2=&sid=e7e9fc7dfc6a44ec047e9eca37429530&sot=b&sdt=b&sl=27&s=DOI%2810.1002%2fijch.201600099%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1002/ijch.201600099

SNIP 2016: 0.613

Projekts: ERA.Net RUS Plus project No. 237 WATERSPLIT.

15. **E.A. Kotomin,** R. Merkle, **Yu.A. Mastrikov,** M.M. Kuklja, and J. Maier, The effect of (La,Sr)MnO₃ cathode surface termination on its electronic structure. – *Electrochemical Society Transactions*, 2017, **77**, p. 67-73.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85021956085&origin=resultslist&sort=plf-f&src=s&st1=10.1149%2f07710.0067ecst&st2=&sid=19518005cfe1c4a5994868f89df09d3&sot=b&sdt=b&sl=27&s=DOI%2810.1149%2f07710.0067ecst%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1149/07710.0067ecst

SNIP 2016: 0.246

Projekti: Latvian National Research Program IMIS2, H2020
GREEN-CC project

16. **G. Bonny,** A. Bakaev, D. Terentyev, and **Yu.A. Mastrikov,** Interatomic potential to study plastic deformation in tungsten-rhenium alloys. - *Journal of Applied Physics*, 2017, **121**, 165107 (p. 1-13).

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85018335482&origin=resultslist&sort=plf-f&src=s&st1=10.1063%2f1.4982361&st2=&sid=25e98a575b29a593e04b7246d8ead284&sot=b&sdt=b&sl=22&s=DOI%2810.1063%2f1.4982361%29&relpos=0&citeCnt=1&searchTerm=>

DOI: 10.1063/1.4982361

SNIP 2016: 0.815

Projekts: Euratom research and training programme under Grant Agreement No. 633053.

17. R.A. Evarestov, **D. Gryaznov**, M. Arrigoni, **E.A. Kotomin**, **A. Chesnokov** and J. Maier, Use of site symmetry in supercell models of defective crystals: polarons in CeO₂. – *Physical Chemistry and Chemical Physics*, 2017, **19**, p. 8340-8348.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85019048235&origin=resultslist&sort=plf-f&src=s&st1=10.1039%2fc6cp08582b&st2=&sid=c3344dc8ac790def38a656ef8838da6e&sot=b&sdt=b&sl=23&s=DOI%2810.1039%2fc6cp08582b%29&relpos=0&citeCnt=3&searchTerm=>

DOI: 10.1039/c6cp08582b

SNIP 2016: 1.117

Projekti: University of Latvia Foundation (Arnis Riekstins' "MikroTik" donation), Russian Science Foundation project 14-43-00052.

18. **A. Gopejenko**, **S. Piskunov**, and **Yu.F. Zhukovskii**, Ab initio modelling of the effects of varying Zr (Ti) concentrations on the atomic and electronic properties of stoichiometric PZT solid solutions. – *Computational and Theoretical Chemistry*, 2017, **1104**, p. 56-60.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85013173365&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.comptc.2017.02.006&st2=&sid=1fefe1e438d4941510274670fc41e89b&sot=b&sdt=b&sl=33&s=DOI%2810.1016%2fj.comptc.2017.02.006%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1016/j.comptc.2017.02.006

SNIP 2016: 0.593

Projekts: Scientific Research Project for Students and Young Researchers No. SJZ/2016/17 implemented at the Institute of Solid State Physics, University of Latvia.

19. **A.I. Popov**, **E.A. Kotomin**, and J. Maier, Analysis of self-trapped hole mobility in alkali halides and metal halides. – *Solid State Ionics*, 2017, **302**, p. 3-6.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85009230340&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.ssi.2016.12.004&st2=&sid=a2904427b94cbb8c138e5ae9324ab5c7&sot=b&sdt=b&sl=30&s=DOI%2810.1016%2fj.ssi.2016.12.004%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1016/j.ssi.2016.12.004

SNIP 2016: 0.880

Projekti: Latvian National Research Program IMIS2, LZP
Grant No. 237/2012.

20. **O. Lisovski, S. Piskunov, Yu.F. Zhukovskii, and D. Bocharov**, Quantum chemical simulations of titanium dioxide nanotubes used for photocatalytic water splitting. – *Journal of Surface Investigation*, 2017, **11**, p. 78–86.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85015427628&origin=resultslist&sort=plf-f&src=s&st1=10.1134%2fS1027451016050335&st2=&sid=f670c508e1a6f0124d8277e86f7b7fc5&sot=b&sdt=b&sl=30&s=DOI%2810.1134%2fS1027451016050335%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1134/S1027451016050335

SNIP 2016: 0.603

Projekts: ERA.Net RUS Plus project No. 237 WATERSPLIT.

21. **E. Heifets, E.A. Kotomin, A.A. Bagaturyants and J. Maier**, Thermodynamic stability of stoichiometric LaFeO₃ and BiFeO₃: a hybrid DFT study. – *Physical Chemistry and Chemical Physics*, 2017, **19**, p. 3738–3755.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85011805136&origin=resultslist&sort=plf-f&src=s&st1=10.1039%2fc6cp07986e&st2=&sid=840676d438c75d0b3c9a30f8fa60d775&sot=b&sdt=b&sl=23&s=DOI%2810.1039%2fc6cp07986e%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1039/c6cp07986e

SNIP 2016: 1.117

Projekti: H2020 GREEN-CC FP7 project No. 60852, Russian Science Foundation for provided financial support through funding the project No. 14-43-00052

22. L. Miao, R. Jia, Y. Wang, C.-P. Kong, J. Wang, **R.I. Eglitis**, and **H.-X. Zhang**, Certain doping concentrations caused half-metallic graphene. – *Journal of Saudi Chemical Society*, 2017, **21**, p. 111–117.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-84962184458&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.jscs.2016.03.007&st2=&sid=a2896e729cf4eef8a6317787b8fe74c9&sot=b&sdt=b&sl=31&s=DOI%2810.1016%2fj.jscs.2016.03.007%29&relpos=0&citeCnt=2&searchTerm=>

DOI: 10.1016/j.jscs.2016.03.007

SNIP 2016: 1.479

Projekts: National Natural Science Foundation of China
(Grant No. 21173096), Latvia-Ukraine Bilateral project

23. **D. Bocharov**, M. Chollet, M. Krack, J. Bertsch, D. Grolimund, M. Martin, A. Kuzmin, J. Purans, and **E.A. Kotomin**, Analysis of the U L₃-edge X-ray absorption spectra in UO₂ using molecular dynamics simulations. – *Progress in Nuclear Energy*, 2017, **94**, p. 187-193.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-84979669453&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.pnucene.2016.07.017&st2=&sid=2cf4da3783463d606956bf123e5dc5f3&sot=b&sdt=b&sl=34&s=DOI%2810.1016%2fj.pnucene.2016.07.017%29&relpos=0&citeCnt=0&searchTerm=>

DOI: 10.1016/j.pnucene.2016.07.017

SNIP 2016: 1.315

Projekti: Sciex-NMS national Programme (Swiss), Latvian Science Council grant 187/2012

24. V. Dimza, **A.I. Popov**, L. Lāce, M. Kundzins, K. Kundzins, M. Antonova, and M. Livins, Effects of Mn doping on dielectric properties of ferroelectric relaxor PLZT ceramics. – *Current Applied Physics*, 2017, **17**, p. 169-173.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-85000416232&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.cap.2016.11.010&st2=&sid=cd91d2c68e7bda4a4bcab6ea407bd4cc&sot=b&sdt=b&sl=30&s=DOI%2810.1016%2fj.cap.2016.11.010%29&relpos=0&citeCnt=1&searchTerm=>

DOI: 10.1016/j.cap.2016.11.010

SNIP 2016: 0.937

Projekts: Latvian National Research Program IMIS2.

25. **G. Bonny**, A. Bakaev, D. Terentyev, and **Yu.A. Mastrikov**, Elastic properties of the sigma W-Re phase: A first principles investigation. – *Scripta Materialia*, 2017, **128**, p. 45-48.

WWW: <https://www.scopus.com/record/display.uri?eid=2-s2.0-84991715074&origin=resultslist&sort=plf-f&src=s&st1=10.1016%2fj.scriptamat.2016.09.039&st2=&sid=cdc16ecffbdad230d899dec0506d929c&sot=b&sdt=b&sl=37&s=DOI%2810.1016%2fj.scriptamat.2016.09.039%29&relpos=0&citeCnt=2&searchTerm=>

DOI: 10.1016/j.scriptamat.2016.09.039

SNIP 2016: 1.696

Projekts: funding from the Euratom research and training programme under grant agreement No 633053 (EUROfusion Consortium).

1.2. Publikācijas, kas ir indeksētas WS datu bāzē un nav SCOPUS datu bāzē.

Atsauce līdzīga kā sadaļā 1.1.

SNIP indeksa vietā uzdot **Impact factor**

1.3. Citas zinātniskas publikācijas, kas nav iekļautas WS un SCOPUS datu bāzēs

1. **Yu.N. Shunin**, D. Fink, A.E. Kiv, A. Mansharipova, R. Muhamediyev, **Yu.F. Zhukovskii**, T. Lobanova-Shunina, N. Burlutskaya, V.I. Gopeyenko, and S. Bellucci.
Modelling of real-time physical and bio-nanosensors for medical applications and ecological monitoring. *Proceedings of International Conference "Physics, Chemistry and Application of Nanostructures (Nanomeeting-2017, Minsk, Belarus)"* (Eds. V.E. Borisenko, S.V. Gaponenko, V.S. Gurin, and C.H. Kam; World Scientific, New Jersey, London, Singapore, Beijing, Shanghai, Hong Kong, Taipei, Chennai), 2017, p. 220-223.
http://teor.cfi.lu.lv/publications/2017/Non-SCI_2017_1.pdf

1.4. Pārskata raksti kolektīvās monogrāfijās ar norādi vai monogrāfija ir iekļauta Web of Science Book Citation index datu bāzē

1.5. Populārzinātniskas publikācijas

1. **D. Bočarovs**, J. Timošenko, D. Docenko, A. Cēbers, A. Katkevičs.
Latvijas 41. atklātā fizikas olimpiāde.
Zvaigžņotā Debess, 2016/17. gada ziema (234), lpp. 41.-49.
2. K. Surovovs, V. Valle, A. Sorokins, J. Timošenko, D. Docenko, A. Cēbers, **D. Bočarovs**.
Latvijas 42. atklātā fizikas olimpiāde.
Zvaigžņotā Debess, 2017/18. gada ziema (238), lpp. 53.-60.
3. **O. Dumbrājs**.
Energiewende — Quo vadis.
Energija un Pasaule 2017 Nr. 4/105, lpp. 72-73.

1.6. Uzstāšanās TV un radio

Nr.	Autors (i)	TV1, LNT, TV7, LR1...	Datums	Sižeta tēma
1.	D. Bočarovs (Programmas autors: K. Ranks)	Radio "Baltcom"	15.02.17.	Apālais galds "Kas ir mīlestība". Mīlestības ķīmija. https://www.youtube.com/watch?v=-VLdDRJm-Co
2.	D. Bočarovs (Programmas autori: K. Ranks un V. Radionovs)	Radio "Baltcom"	22.02.17.	Online-komentāri NASA konferencei par citplanētu atklāšanu Zemes tuvumā. https://www.facebook.com/mixnews/videos/1529149170445985/
3.	D. Bočarovs (Programmas autori: K. Ranks un V. Radionovs)	Radio "Baltcom"	12.04.17.	Apālais galds "Lidojums uz Veneru". https://www.youtube.com/watch?v=-V_aUuS2Zps
4.	D. Bočarovs (Programmas autors: A. Gusevs)	LR4	16.05.17.	Kvantu fizika: sākumā bija daļiņas un viļņi. http://lr4.lsm.lv/lv/raksts/teorija-vsego/kvantovaja-fizika-vnachale-bili-chastici-i-volni.a86335/
5.	D. Bočarovs (Programmas autori: K. Ranks un V. Radionovs)	Radio "Baltcom"	07.06.17.	Raidījums par Saules izcelsmi un dabu: "Zvaigzne ar nosaukumu Saule". https://www.youtube.com/watch?v=vnPnE5TMGEU
6.	D. Bočarovs (Programmas autori: K. Ranks un V. Radionovs)	Radio "Baltcom"	09.08.17.	Raidījums "Kas ir elektrība". http://www.mixnews.lv/mixtv/gosti/8314

1.7. Piedalīšanās izstādēs ar eksponātu

Nr.	Izstādes nosaukums, vieta un laiks	Autori un to ieguldījums	Eksponāta nosaukums

1.8. Referāts citos zinātnes popularizēšanas pasākumos

Nr.	Pasākuma nosaukums, vieta, laiks	Referāta autors	Referāta tēma

1.9. Ielūgtais pārskata vai plenārais referāts Starptautiskā konferencē

Nr.	Konferences nosaukums, vieta, laiks	Autors	Ielūgtā referāta nosaukums
1.	ESS Science Workshop in Latvia. Riga, Latvia, 23 May 2017.	A. Popov	Overview of recent Latvian neutron activities and perspectives. http://www.izm.gov.lv/images/aktualitates/2017/ESS_workshop_programme.pdf
2.	ESS Science Workshop in Latvia. Riga, Latvia, 23 May 2017.	L. Rusevich	Overview of recent activities with Institut Laue Langevin & University of Tartu in neutron scattering of proteins. http://www.izm.gov.lv/images/aktualitates/2017/ESS_workshop_programme.pdf
3.	231 st Electrochemical Society Meeting. New Orleans, USA, May 28 – June 1, 2017.	E. Kotomin	The effect of (La,Sr)MnO ₃ cathode surface termination on its electronic structure. https://issuu.com/ecs1902/docs/2017-ecs-nola-mp?e=15319453/47140789
4.	International Conference on Oxide Materials for Electronic Engineering — fabrication, properties and application (OMEE-2017). Lviv, Ukraine, May 29 – June 2, 2017.	A. Popov	Basic properties of point defects in wide-band gap metal halides and oxides and perovskites. http://science.lpnu.ua/omee-2017/keynote-lectures
5.	21 st International Conference on Solid State Ionics. Padua, Italy, 18–23 June 2017.	E. Kotomin	First Principles Calculations of Oxygen Vacancies in Perovskites: Key Role of Phonon Contribution in Defect Thermodynamics. http://www.chimica.unipd.it/ssi21/Invited_IV_4.html
6.	19 th International Conference on Radiation Effects in	A. Popov	Upconversion luminescence in rare earth doped transparent oxyfluoride glass ceramics.

	Insulators (REI 19). Versailles, France, 2–7 July 2017.		https://rei2017.sciencesconf.org/resource/page/id/11
7.	68 th CCC general meeting. CERN, Geneva, Switzerland, 16 November 2017.	A. Popov	Past, present and future research on luminescence materials for radiation detection in the Institute of Solid State Physics, Riga, Latvia. https://indico.cern.ch/event/673441

Lūdzu pievienot konferences programmu un ielūgumu.

1.10. LU CFI organizēta starptautiska konference vai seminārs

Nr.	Konferences/semināra nosaukums, vieta, laiks	Ārzemju dal. skaits	Organizatori un to ieguldījums pasākuma organizēšanā
1.	ESS Science Workshop in Latvia. Riga, Latvia, 23.05.2017.	8	CFI (A. Popov), ESS
2.	Monitoring meeting of European HarvEnPiez project in Latvia, Riga, 21.03.2017	5	CFI (E. Kotomin) ERA.Net
3.	Monitoring meeting of European Watersplit project in Latvia, Riga, 19.12.2017	4	CFI (Yu. Zhukovskii) ERA.Net RUS Plus

2. Zinātniskie projekti, kas sagatavoti un iesniegti 2017.gadā

2.1. Starptautiskie projekti

Nr.	Projekta nosaukums Kord./partneris; vadīt. no LUCFI; 1. vai 2. pakāpe	Projekta veids, pieteikuma identifikators; iesniegšanas laiks	Darbinieku ieguldījums projekta tapšanā Vai izmantots CAMART finansējums?	Novērtējums (akceptēts, virs sliekšņa, noraidīts, vai atrodas izskatīšanā)
1.	Computer modeling of highly efficient nanocomposite electrocatalyst for ultrahigh capacity and long life rechargeable Li-O ₂ batteries, NANOLIBAT, LUCFI koordinators.	ERA.Net RUS Plus Call 2017 - S&T, RUS_ST2017-168, 25.07.2017.g.	Jā	Noraidīts
2.	Large scale computer simulations and Experimental characterization of COMposite Nanomaterials, LECON, LUCFI koordinators.	H2020; Proposal number: 810623; Type of action: CSA (Coordination and support action); Topic: WIDESPREAD-05-2017 Call: H2020-WIDESPREAD-2016-2017 (WIDESPREAD) 14.11.2017.g.	Jā	Atrodas izskatīšanā
3.	PROton and oxygen co-ionic	Call for proposals:	Jā	Noraidīts

	conductors for CO ₂ /H ₂ O co-electrolysis and intermittent RES conversion to METHanol and other chemicals towards EU Sustainability, PROMETEUS LU CFI partnēris.	H2020-NMBP-2016-2017 (H2020-NMBP-2017-two-stage) Proposal: 761032 — PROMETHEUS		
4.	Advanced experimental and theoretical analysis of defect evolution and structural disordering in optical and dielectric materials for fusion applications (AETA)	EUROFUSION--CfP-AWP19-ENR-01 Enabling Research project	Nē	Atrodas izskatīšanā

2.2. Iekšējie LU CFI projekti

Nr.	Autors	Projekta nosaukums	Projekta veids (jaunais zinātn., doktorants, maģistrants)	Novērtējums (akceptēts, noraidīts)
1.	Aleksandrs Platonenko	<i>Ab initio</i> F-centru modelēšana tīrā un ar Ce ³⁺ aktivētā β-NaYF ₄ kristālā	Doktorants	akceptēts

3.Kvalifikācijas darbu vadība un atbalsts jaunajiem

3.1. Promocijas darbu aizstāvēšana 2017. gadā

Nr.	Autors	Darba nosaukums	Vadītājs	Iegūtā kvalifikācija
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1.				
2.				
3.				

Lūdzu papildināt!

3.2. Fizikas maģistra studiju programmas studentu maģistra darba aizstāvēšana LU 2017. gada pavasarī.

Nr.p.k.	Vārds, uzvārds	Atzīme	Tēmas nosaukums	Darba vadītājs
1.	Maksims Sokolovs	17.3 (no 20.0)	Photonics and optoelectronic devices (maģistra grāds tika piešķirts pēc MSc kursu pabeigšanas divas Skotijas universitātēs: Sent Andrews un Heriot Watt)	Dr. Mattieu Rayer

Lūdzu papildināt ar studentiem no citām studiju programmām (materialzinātne un ķīmija RTU, ķīmija un optometrija LU u.c.)

3.3. LU Fizikas bakalaura studiju programmas studentu bakalaura darbu aizstāvēšana 2016./2017. akad. gada pavasara sesijā.

Nr.p.k.	Vārds, uzvārds	Atzīme	Tēmas nosaukums	Darba vadītājs
1.				

2.				
3.				

Lūdzu papildināt ar studentiem no citām studiju programmām (materialzinātne un ķīmija RTU, ķīmija un optometrija LU uc)

3.4. Skolēnu zinātniski pētnieciskie darbi, kas izstrādāti LU CFI 2017. gadā

Nr.	Vārds Uzvārds	Skola, klase	Vadītājs(i) no LU CFI	Darba nosaukums	Novērtējums
1.					
2.					
3.					

4. Inovācijas un pētījumu rezultātu komercializācija

4.1. Komercializēta objekta, jaunuzņēmuma nodibināšana uz LU CFI iestrāžu bāzes

Izklāsts brīvā formā

4.2. LU CFI izstrādāta un ražošanā ieviesta tehnoloģija

Izsmēlošs apraksts, kam pievienots apliecinājums no saimnieciskā partnera

4.3. LU CFI vārdā iesniegti un registrēti starptautiskie patenti

Nr.	Patenta nosaukums	Autori	Iesniegšanas termiņš	Reģistrēšanas termiņš
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4.4. Iesniegti un reģistrēti Latvijas patenti

Nr.	Patenta nosaukums	Autori	Iesniegšanas termiņš	Reģistrēšanas termiņš

4.5. 2017. gadā noslēgtie saimnieciskie līgumi

Nr.	Līguma nosaukums un izpildes laiks	Pasūtītājs	Līguma vad. no LUCFI	Līguma apjoms, EUR	Darbinieku ieguldījums līguma noslēgšanā

4.6. LIAA finansēts divpakāpju tehnoloģiskais projekts (1. pakāpe)

Nr.	Projekta nosaukums un iesniegšanas termiņš	Projekta apjoms (EUR)	Projekta vad. no LU CFI	Projekta akceptēšanas termiņš	Darbinieku ieguldījums projekta sagatavošanā
