

**Date of report:** 2024-02-06  
**Period type:** By year of publication  
**Period:** 2023 - 2023  
**Institution:** Kaunas University of Technology (code: 111950581)  
**Departments:** Institute of Materials Science (70)  
**Object type:** PDB

## LIST OF SCIENTIFIC AND OTHER PUBLICATIONS

### All Sciences and Art

#### ARTICLES IN PEER-REVIEWED SCIENTIFIC PUBLICATIONS

##### Indexed in the Web of Science with Impact Factor

##### International (foreign) publishers

1. [S1; NL] **Tamulevičienė, Asta; Mardosaitė, Rasa; Ilickas, Mindaugas; Abakevičienė, Brigita; Tamulevičius, Tomas; Meškinis, Šarūnas; Račkauskas, Simas.** Highly-hydrophobic, transparent, and durable coatings based on ZnO tetrapods with diamond-like carbon nanocomposite // *Surface and coatings technology*. Lausanne : Elsevier. ISSN 0257-8972. eISSN 1879-3347. 2023, vol. 470, art. no. 129863, p. 1-10. DOI: 10.1016/j.surfcoat.2023.129863. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 5,400; AIF: 5,150; IF/AIF: 1,048; Q1 (2022, InCites JCR SCIE)] [CiteScore: 9,20; SNIP: 1,425; SJR: 0,946; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,642]
2. [S1; DE] **Guzauskas, Matas; Volyniuk, Dmytro; Kulszewicz-Bajer, Irena; Mahmoudi, Malek; Lazauskas, Algirdas; Jasinskas, Vidmantas; Gulbinas, Vidmantas; Pron, Adam; Grazulevicius, Juozas V.** Thermally controllable tuning of emission properties of phenoxazine-substituted acridones as one step forward to efficient organic light-emitting diodes based on crystalline emitters // *Advanced optical materials*. Weinheim : Wiley-VCH. ISSN 2195-1071. 2023, vol. 11, iss. 24, art. no. 2301059, p. 1-11. DOI: 10.1002/adom.202301059. [Science Citation Index Expanded (Web of Science); Scopus; Academic Search Ultimate] [IF: 9,000; AIF: 4,900; IF/AIF: 1,836; Q1 (2022, InCites JCR SCIE)] [CiteScore: 14,80; SNIP: 1,824; SJR: 2,524; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,111]
3. [S1; CH] **Khinevich, Nadzeya; Juodėnas, Mindaugas; Tamulevičienė, Asta; Tamulevičius, Tomas; Talaikis, Martynas; Niaura, Gediminas; Tamulevičius, Sigitas.** Wavelength-tailored enhancement of Raman scattering on a resonant plasmonic lattice // *Sensors and actuators B: Chemical*. Lausanne : Elsevier. ISSN 0925-4005. eISSN 1944-8201. 2023, vol. 394, art. no. 134418, p. 1-8. DOI: 10.1016/j.snb.2023.134418. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 5,000; AIF: 4,600; IF/AIF: 1,086; Q1 (2022, InCites JCR SCIE); IF: 8,400; AIF: 5,066; IF/AIF: 1,658; Q1 (2022, InCites JCR SCIE)] [CiteScore: 14,60; SNIP: 1,376; SJR: 1,482; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002, N 003] [Input: 0,409]
4. [S1; CH; OA] **Lazauskas, Algirdas; Gimžauskaitė, Dovilė; Ilickas, Mindaugas; Marcinauskas, Liutauras; Aikas, Mindaugas; Abakevičienė, Brigita; Volyniuk, Dmytro.** Laser ablation of silicon nanoparticles and their use in charge-coupled devices for UV light sensing via wavelength-shifting properties // *Nanomaterials*. Basel : MDPI. ISSN 2079-4991. 2023, vol. 13, iss. 22, art. no. 2915, p. 1-13. DOI: 10.3390/nano13222915. [Science Citation Index Expanded (Web of Science); Scopus; MEDLINE] [IF: 5,300; AIF: 6,825; IF/AIF: 0,776; Q1 (2022, InCites JCR SCIE)] [CiteScore: 7,40; SNIP: 1,065; SJR: 0,811; Q1 (2022, Scopus Sources)] [FoR: T 008, T 006, N 002, T 005] [Input: 0,432]
5. [S1; GB] **Žutautas, A.; Tamulevičius, S.; Tamulevičius, T.** From design to realization of high diffraction efficiency Littrow configuration diffraction gratings based on multilayer dielectric mirrors patterned with electron beam lithography // *Optics and laser technology*. Oxford : Elsevier. ISSN 0030-3992. eISSN 1879-2545. 2023, vol. 169, art. no. 110086, p. 1-7. DOI: 10.1016/j.optlastec.2023.110086. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 5,000; AIF: 4,450; IF/AIF: 1,123; Q1 (2022, InCites JCR SCIE)] [CiteScore: 8,30; SNIP: 1,577; SJR: 0,874; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,499]
6. [S1; CH] **Jurkevičiūtė, Aušrinė; Dolmantas, Paulius; Vasiliauskas, Andrius; Tamulevičienė, Asta; Meškinis, Šarūnas; Poplauskas, Raimonds; Prikulis, Juris; Tamulevičius, Sigitas; Tamulevičius, Tomas.** Magnetron sputtering process for deposition of multilayered thin diamond-like carbon films with silver nanoparticles for anti-reflective coatings and refractometric sensing // *Materials chemistry and physics*. Lausanne : Elsevier. ISSN 0254-0584. eISSN 1879-3312. 2023, vol. 309, art. no. 128425, p. 1-10. DOI: 10.1016/j.matchemphys.2023.128425. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 4,600; AIF: 6,200; IF/AIF: 0,741; Q2 (2022, InCites JCR SCIE)] [CiteScore: 7,70; SNIP: 1,039; SJR: 0,750; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,501]

7. [S1; CH; OA] **Meškiniš, Šarūnas; Gudaitis, Rimantas; Vasiliauskas, Andrius; Guobienė, Asta; Jankauskas, Šarūnas;** Stankevič, Voitech; Keršulis, Skirmantas; Stirkė, Arūnas; Andriukonis, Eivvydas; Melo, Wanessa; Vertelis, Vilius; Žurauskienė, Nerija. Biosensor based on graphene directly grown by MW-PECVD for detection of COVID-19 spike (S) protein and its entry receptor ACE2 // *Nanomaterials*. Basel : MDPI. ISSN 2079-4991. 2023, vol. 13, iss. 16, art. no. 2373, p. 1-18. DOI: 10.3390/nano13162373. [Science Citation Index Expanded (Web of Science); Scopus; MEDLINE] [IF: 5,300; AIF: 6,825; IF/AIF: 0,776; Q1 (2022, InCites JCR SCIE)] [CiteScore: 7,40; SNIP: 1,065; SJR: 0,811; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,419]
8. [S1; NL] Park, Hyeonghun; Park, Geumyong; Kumar, Santosh; Yoon, Hocheol; Baek, Juyeon; **Tamulevičius, Tomas; Tamulevičius, Sigitas;** Kim, Hyeong-Jin. Synergistic effect of electrolyte additives on the suppression of dendrite growth in a flowless membraneless Zn–Br<sub>2</sub> battery // *Journal of power sources*. Amsterdam : Elsevier. ISSN 0378-7753. eISSN 1873-2755. 2023, vol. 580, art. no. 233212, p. 1-8. DOI: 10.1016/j.jpowsour.2023.233212. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 9,200; AIF: 6,925; IF/AIF: 1,328; Q1 (2022, InCites JCR SCIE)] [CiteScore: 15,90; SNIP: 1,473; SJR: 1,854; Q1 (2022, Scopus Sources)] [FoR: T 008] [Input: 0,250]
9. [S1; US] Baek, Juyeon; Suh, Seokho; Kim, Hyunsu; Park, Hyeonghun; Kumar, Santosh; **Tamulevičius, Tomas; Tamulevičius, Sigitas;** Kim, Hyeong-Jin. Improving electrochemical performances of lithium-ion capacitors employing 3D structured Si anodes // *Journal of industrial and engineering chemistry*. New York : Elsevier. ISSN 1226-086X. eISSN 1876-794X. 2023, vol. 126, p. 204-213. DOI: 10.1016/j.jiec.2023.06.010. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 6,100; AIF: 6,850; IF/AIF: 0,890; Q1 (2022, InCites JCR SCIE)] [CiteScore: 11,10; SNIP: 1,163; SJR: 1,005; Q1 (2022, Scopus Sources)] [FoR: T 008] [Input: 0,250]
10. [S1; NL] **Grigaliūnas, Viktoras; Meškiniš, Šarūnas; Jucius, Dalius; Lazauskas, Algirdas; Andrulevičius, Mindaugas; Guobienė, Asta; Abakevičienė, Brigita; Juodėnas, Mindaugas; Gudaitis, Rimantas; Kopustinskas, Vitoldas; Vasiliauskas, Andrius;** Kasparaitis, Albinas. Anti-fogging technique for protection of optical grating scales // *Optical materials*. Amsterdam : Elsevier. ISSN 0925-3467. eISSN 1873-1252. 2023, vol. 142, art. no. 113998, p. 1-8. DOI: 10.1016/j.optmat.2023.113998. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 3,900; AIF: 4,900; IF/AIF: 0,795; Q2 (2022, InCites JCR SCIE)] [CiteScore: 5,60; SNIP: 0,924; SJR: 0,611; Q2 (2022, Scopus Sources)] [FoR: T 008] [Input: 0,917]
11. [S1; NL] **Peckus, Domantas; Gudaitis, Rimantas; Rajackaitė, Erika; Monshi, Marjan; Meškiniš, Šarūnas; Tamulevičius, Sigitas.** The quality studies of vertical graphene nanosheets catalyst-free microwave plasma-enhanced chemical vapor deposited on glass and fused silica // *Physica B: Condensed matter*. Amsterdam : Elsevier. ISSN 0921-4526. eISSN 1873-2135. 2023, vol. 662, art. no. 414957, p. 1-11. DOI: 10.1016/j.physb.2023.414957. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 2,800; AIF: 6,700; IF/AIF: 0,417; Q3 (2022, InCites JCR SCIE)] [CiteScore: 5,00; SNIP: 0,801; SJR: 0,473; Q2 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,917]
12. [S1; CH; OA] **Lazauskas, Algirdas; Andrulevičius, Mindaugas; Abakevičienė, Brigita; Jucius, Dalius; Grigaliūnas, Viktoras; Guobienė, Asta; Meškiniš, Šarūnas.** Hydrophilic surface modification of amorphous hydrogenated carbon nanocomposite films via atmospheric oxygen plasma treatment // *Nanomaterials*. Basel : MDPI. ISSN 2079-4991. 2023, vol. 13, iss. 6, art. no. 1108, p. 1-9. DOI: 10.3390/nano13061108. [Science Citation Index Expanded (Web of Science); Scopus; MEDLINE] [IF: 5,300; AIF: 6,825; IF/AIF: 0,776; Q1 (2022, InCites JCR SCIE)] [CiteScore: 7,40; SNIP: 1,065; SJR: 0,811; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 1,000]
13. [S1; CH; OA] **Andrulevičius, Mindaugas;** Artiukh, Evgenii; Suchaneck, Gunnar; Wang, Sitao; Sobolev, Nikolai A.; Gerlach, Gerald; **Tamulevičienė, Asta; Abakevičienė, Brigita; Tamulevičius, Sigitas.** Multitarget reactive magnetron sputtering towards the production of strontium molybdate thin films // *Materials*. Basel : MDPI. ISSN 1996-1944. 2023, vol. 16, iss. 6, art. no. 2175, p. 1-10. DOI: 10.3390/ma16062175. [Science Citation Index Expanded (Web of Science); Scopus; MEDLINE] [IF: 3,400; AIF: 6,020; IF/AIF: 0,564; Q2 (2022, InCites JCR SCIE)] [CiteScore: 5,20; SNIP: 1,067; SJR: 0,563; Q2 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,445]
14. [S1; CH; OA] Terracciano, Monica; **Račkauskas, Simas;** Falanga, Andrea Patrizia; Martino, Sara; Chianese, Giovanna; Greco, Francesca; Piccialli, Gennaro; Viscardi, Guido; De Stefano, Luca; Oliviero, Giorgia; Borbone, Nicola; Rea, Ilaria. ZnO tetrapods for label-free optical biosensing: physicochemical characterization and functionalization strategies // *International journal of molecular sciences*. Basel : MDPI. ISSN 1422-0067. 2023, vol. 24, iss. 5, art. no. 4449, p. 1-15. DOI: 10.3390/ijms24054449. [Science Citation Index Expanded (Web of Science); Scopus; MEDLINE] [IF: 5,600; AIF: 6,400; IF/AIF: 0,875; Q1 (2022, InCites JCR SCIE)] [CiteScore: 7,80; SNIP: 1,263; SJR: 1,154; Q1 (2022, Scopus Sources)] [FoR: T 008] [Input: 0,083]
15. [S1; DE] **Tamulevičius, Tomas;** Laurikėnas, Paulius; **Juodėnas, Mindaugas; Mardosaitė, Rasa;** Abakevičienė, Brigita; Pereyra, Carlos Javier; **Račkauskas, Simas.** Antireflection coatings based on randomly oriented ZnO nanowires // *Solar RRL*. Weinheim : Wiley-VCH. ISSN 2367-198X. eISSN 2367-198X. 2023, vol. 7, iss. 6, art. no. 2201056, p. 1-13. DOI: 10.1002/solr.202201056. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 7,900; AIF: 6,800; IF/AIF: 1,161; Q1 (2022, InCites JCR SCIE)] [CiteScore: 11,70; SNIP: 1,035; SJR: 2,240; Q1 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 0,358]

- [S1; NL] **Jucius, Dalius; Grigaliūnas, Viktoras; Juodėnas, Mindaugas; Guobienė, Asta; Lazauskas, Algirdas.** CF4/O2 inductively coupled plasma etching of silicate glass for antifogging applications // Optical materials. Amsterdam : Elsevier. ISSN 0925-3467. eISSN 1873-1252. 2023, vol. 136, art. no. 113437, p. 1-9. DOI: 10.1016/j.optmat.2023.113437. [Science Citation Index Expanded (Web of Science); Scopus] [IF: 3,900; AIF: 4,900; IF/AIF: 0,795; Q2 (2022, InCites JCR SCIE)] [CiteScore: 5,60; SNIP: 0,924; SJR: 0,611; Q2 (2022, Scopus Sources)] [FoR: T 008, N 002] [Input: 1,000]

## Indexed in other Web of Science or Scopus publications

### International (foreign) publishers

- [S2; NL; OA] **Ilickas, Mindaugas; Marčinskas, Mantas; Peckus, Domantas; Mardosaitė, Rasa; Abakevičienė, Brigita; Tamulevičius, Tomas; Račkauskas, Simas.** ZnO UV sensor photoresponse enhancement by coating method optimization // Journal of photochemistry and photobiology. Amsterdam : Elsevier. ISSN 2666-4690. 2023, vol. 14, art. no. 100171, p. 720-729. DOI: 10.1016/j.jpap.2023.100171. [Scopus; Dimensions] [CiteScore: 2,20; SNIP: 0,668; SJR: 0,386; Q4 (2022, Scopus Sources)] [FoR: N 002, T 008] [Input: 0,645]
- [S1; DE] Horbenko, Yuliia Yu.; Aksimentyeva, Olena I.; **Starykov, Hryhorii O.**; Ivaniuk, Khrystyna B.; Konopelnyk, Oksana I.; Rabyi, Vitalii I. Features of electrochemical formation and optical properties of PEDOT/GO films on flexible ITO/PET substrates // Applied nanoscience. Heidelberg : Springer. ISSN 2190-5509. eISSN 2190-5517. 2023, vol. 13, iss. 7, p. 4997-5002. DOI: 10.1007/s13204-022-02661-w. [Science Citation Index Expanded (Web of Science); Scopus] [CiteScore: 6,20; SNIP: 0,832; SJR: 0,485; Q1 (2022, Scopus Sources)] [FoR: T 008] [Input: 0,083]

## In peer-reviewed conference proceedings (not indexed in the Web of Science or Scopus)

### National (Lithuanian) publishers

- [P1d; LT] **Ilickas, Mindaugas; Guobienė, Asta; Abakevičienė, Brigita.** Investigation of the surface morphology of photochemically synthesised AgNP-PVB nanocomposite coatings using atomic force microscopy // Medical physics in the Baltic states: proceedings of the 16th international conference on medical physics, Kaunas, Lithuania, 9-11 November 2023 / executive editor Diana Adlienė. Kaunas : Kaunas University of Technology. ISSN 1822-5721. 2023, p. 130-133. [FoR: N 002, T 008] [Input: 0,834]
- [P1d; LT] Merkis, Mantvydas; Laurikaitiene, Jurgita; **Ilickas, Mindaugas;** Adliene, Diana. On potential enhancement of dose gels sensitivity using various nanoparticle additives // Medical physics in the Baltic states: proceedings of the 16th international conference on medical physics, Kaunas, Lithuania, 9-11 November 2023 / executive editor Diana Adlienė. Kaunas : Kaunas University of Technology. ISSN 1822-5721. 2023, p. 42-45. [FoR: N 002] [Input: 0,250]

## PATENTS AND PATENT APPLICATIONS

### Patents registered in EPO, USPTO, JPO patent offices

- [N1b; US; OA] **Grigaliunas, Viktoras (autorius, išradimo); Tamulevicius, Sigintas (autorius, išradimo); Andrulevicius, Mindaugas (autorius, išradimo); Tamulevicius, Tomas (autorius, išradimo); Fataraitė-Urbonienė, Eglė (autorius, išradimo); Narmontas, Pranas (autorius, išradimo); Klinavicius, Tomas (autorius, išradimo); Jucius, Dalius (autorius, išradimo); Juodėnas, Mindaugas (autorius, išradimo).** Fabrication method of holographic security label / inventors: V. Grigaliunas, S. Tamulevicius, M. Andrulevicius, T. Tamulevicius, E. Fataraitė-Urbonienė, P. Narmontas, T. Klinavicius, D. Jucius, M. Juodėnas; assignee: Kaunas University of Technology. US 11846888 B2. 2023-12-19. [Espacenet] [FoR: T 008] [Input: 1,000]
- [N1c; JP; OA] **Tamulevicius, Tomas (autorius, išradimo); Juodėnas, Mindaugas (autorius, išradimo); Tamuleviciene, Asta (autorius, išradimo); Klinavicius, Tomas (autorius, išradimo); Tamulevicius, Sigintas (autorius, išradimo).** Optical device formed of aligned scatterer array for safety identification, and method for generating the same : Japan patent / inventors: T. Tamulevicius, M. Juodėnas, A. Tamuleviciene, T. Klinavicius, S. Tamulevicius; applicant: Kaunas university of technology. JP 7238226 B2. 2023-03-14. [Espacenet] [FoR: T 008] [Input: 1,000]

## PRESENTATION OF RESEARCH RESULTS AT CONFERENCES

### Conference presentation abstracts in the publications indexed in the international databases

- [T1; LT; OA] **Khinevich, Nadzeya; Peckus, Domantas; Tamulevičienė, Asta;** Klimaitė, Gerda; Henzie, Joel; **Tamulevičius, Tomas; Tamulevičius, Sigitas.** Crystallinity effect on the relaxation times of localized surface plasmon resonance of chemically synthesized silver nanoparticles = Kristališkumo įtaka cheminiu būdu susintetintų plazmoninių sidabro nanodalelių lokalizuoto paviršiaus plazmonų rezonanso relaksacijos trukmėms // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, O18. ISBN 9786090709818. p. 52. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: N 002, T 008]
- [T1; LT; OA] **Ilickas, Mindaugas; Guobienė, Asta; Abakevičienė, Brigita.** Fotocheminiu būdu susintetintų sidabro nanodalelių struktūriniai ir antivirusiniai tyrimai = Structural and antiviral investigations of photochemically synthesized silver nanoparticles // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, S2 - P38. ISBN 9786090709818. p. 213. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: N 002, T 008]
- [T1; LT; OA] **Jankauskas, Šarūnas; Gudaitis, Rimantas; Vasiliauskas, Andrius; Guobienė, Asta; Meškinis, Šarūnas.** Mikrobangų plazma aktyvuoto cheminio nusodinimo iš garų fazės būdu suformuotų grafeno/n-tipo Si(100) prietaisų fotovoltinės savybės = Photovoltaic properties of directly synthesized graphene/n-Si(100) devices using microwave plasma-enhanced chemical vapor deposition technique // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, S2 - P10. ISBN 9786090709818. p. 185. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: T 008]
- [T1; LT; OA] **Tamulevičienė, Asta; Khinevich, Nadzeya; Klinavičius, Tomas; Juodėnas, Mindaugas; Tamulevičius, Sigitas; Tamulevičius, Tomas.** Savirankiai metapaviršiai: nuo jutiklių iki taikymų fotokatalizei // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, O16. ISBN 9786090709818. p. 50. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: N 002, T 008]
- [T1; LT; OA] Žurauskienė, Nerija; **Gudaitis, Rimantas; Vasiliauskas, Andrius; Guobienė, Asta; Jankauskas, Šarūnas;** Stankevič, Voitech; Keršulis, Skirmantas; Stirkė, Arūnas; Andriukonis, Eivydas; Melo, Wanessa; Vertelis, Vilius; **Meškinis, Šarūnas.** Tiesiogiai susintetinto MW-PECVD grafeno biojutiklis SARS-CoV-2 spyglio (S) baltymo detekcijai = MW-PECVD synthesised graphene biosensor for detection of SARS-CoV-2 spike (S) protein // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, O9. ISBN 9786090709818. p. 43. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: T 008]
- [T1; LT; OA] **Meškinis, Šarūnas; Vasiliauskas, Andrius; Guobienė, Asta; Kamarauskas, Lukas; Jankauskas, Šarūnas; Gudaitis, Rimantas.** Tiesioginė grafeno sintezė ant SiO<sub>2</sub> mikrobange plazma aktyvuoto cheminio nusodinimo iš garų fazės būdu ir taikymas lauko tranzistoriams // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, O14. ISBN 9786090709818. p. 48. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: T 008]
- [T1; LT; OA] **Khinevich, Nadzeya;** Andrzejewska, Weronika; **Tamulevičienė, Asta; Tamulevičius, Tomas;** Lewandowski, Mikołaj; **Tamulevičius, Sigitas.** Wavelength-tailored SERS active substrates for biosensing applications = Žadinimo bangos ilgiui pritaikomi SERS padėklai biojutiklių taikymams // 45-oji Lietuvos nacionalinė fizikos konferencija, 2023 m. spalio 25-27 d., Vilnius: programa ir pranešimų tezės. Vilnius : Vilniaus universiteto leidykla, 2023, S1 - P79. ISBN 9786090709818. p. 160. (Vilnius University proceedings, ISSN 2669-0233 ; no. 38). [Dimensions] [FoR: N 002, T 008]
- [T1; FR; OA] **Tamulevičius, T.; Juodėnas, M.; Khinevich, N.; Peckus, D.; Tamulevičienė, A.;** Henzie, J.; **Tamulevičius, S.** Nanolasing in self-assembled metasurfaces // META 2023: the 13th international conference on metamaterials, photonic crystals and plasmonics, July 18-21, 2023, Paris, France: proceedings / edited by Philippe Lalanne, Said Zouhdi. [S.l.] : META conference. ISSN 2429-1390. 2023, p. 218. [Scopus] [FoR: T 008, N 002]

## Other conference presentation abstracts and non-peer reviewed conference papers

- [T3; LV; OA] Ratkus, Andris; **Abakevičienė, Brigita; Šeškauskaitė, Kristupa**; Sam, Rorison; Torims, Toms. Investigation of additively manufactured copper synchrotron radiation absorber for the future circular collider // 3rd CERN Baltic Conference (CBC 2023): 9-11 October 2023, Riga Technical University: book of abstracts. [Riga] : [RTU]. 2023, p. 14-15. [FoR: N 002, T 008]
- [T3; LV] **Ilickas, Mindaugas**; Gimžauskaitė, Dovilė; Marcinauskas, Liutauras; Alkas, Mindaugas; **Abakevičienė, Brigita; Lazauskas, Algirdas**. Laser ablation of silicon nanoparticles for enhanced UV photon sensing via wavelength-shifting properties // 3rd CERN Baltic conference (CBC 2023), 9-11 October 2023, Riga Technical University: book of abstracts. [Riga] : [Riga Technical University]. 2023, p. 2. [FoR: N 002, T 006, T 008]
- [T3; LV] Volyniuk, Lesia; Arsenyan, Pavel; Stanitska, Mariia; Bezvikonnyi, Oleksandr; **Lazauskas, Algirdas**; Volyniuk, Dmytro; Grazulevicius, Juozas Vidas. Mechanochromic luminescence, aggregation-induced emission enhancement and thermally activated delayed fluorescence of derivatives of phenothiazine and differently modified 3,5-dicyanopyridine // Baltic polymer symposium 2023, Jelgava, Latvia, September 20–22, 2023: book of abstracts. Jelgava : Latvian university of life sciences and technologies. 2023, p. 56. [FoR: T 005]
- [T3; LV] Singhal, Shubham; **Grigaliūnas, Viktoras; Narmontas, Pranas**; Donelienė, Jolanta; Ulbikas, Juras; Fataraitė-Urbonienė, Eglė. Scratch resistance of hot stamped multilayer structures vs adhesive nature and thickness // Baltic polymer symposium 2023, Jelgava, Latvia, September 20–22, 2023: book of abstracts. Jelgava : Latvian university of life sciences and technologies. 2023, p. 70. [FoR: T 008]
- [T3; FR] **Tamulevičius, Sigitas; Khinevich, Nadzeya; Juodenas, Mindaugas; Tamulevičienė, Asta; Tamulevičius, Tomas**. 2-D nanostructures of regularly arranged nanoparticles for sensor applications // E-MRS Fall meeting 2023: 18-21 September 2023, Warsaw, Poland. Strasbourg : European materials research society. 2023, 01026, p. 1. [FoR: T 008]
- [T2; BG] **Abakevičienė, Brigita; Guobienė, Asta; Vasiliauskas, Andrius; Jankauskas, Šarūnas; Gudaitis, Rimantas; Lazauskas, Algirdas; Juodėnas, Mindaugas; Jucius, Dalius; Grigaliūnas, Viktoras; Meškinis, Šarūnas**. Deposition and study of the superhydrophilic and hydrophobic nano-composite films by reactive magnetron sputtering of a graphite target // NANOMAT 2023: international conference on functional nanomaterials and nanodevices, 27-30 August 2023, Warsaw, Poland: abstract booklet. Sofia : European nanoscience and nanotechnology association. ISSN 2603-4239. 2023, p. 79. [FoR: T 008]
- [T3; PT] **Vasiliauskas, Andrius; Gudaitis, Rimantas; Guobienė, Asta; Jankauskas, Šarūnas; Andrulevičius, Mindaugas; Abakevičienė, Brigita; Meškinis, Šarūnas**. Anti-fogging properties of the plasma nanotextured and diamond-like carbon coated optical grating scales // Advanced nanomaterials 2023 (ANM 23), 26-28 July 2023, Reitoria, University of Aveiro, Portugal. [S.l.] : [s.n.]. 2023, 139, p. 1. [FoR: T 008]
- [T3; PT] **Vasiliauskas, Andrius; Gudaitis, Rimantas; Guobienė, Asta; Jankauskas, Šarūnas; Andrulevičius, Mindaugas; Abakevičienė, Brigita; Meškinis, Šarūnas**. Superhydrophilic diamond-like carbon nanocomposite films containing SiO<sub>x</sub> for non-fogging optical scales: deposition and study // Advanced nanomaterials 2023 (ANM 23), 26-28 July 2023, Reitoria, University of Aveiro, Portugal. [S.l.] : [s.n.]. 2023, 140, p. 1. [FoR: T 008]
- [T2; LT] **Elkhider, Shahd; Klinavičius, Tomas; Baba, Mohamed A.; Mardosaitė, Rasa; Tamulevičienė, Asta; Zienius, Dainius; Lelešius, Raimundas; Šalomska, Algirdas; Tamulevičius, Tomas**. Characterization of femtosecond laser ablated copper nanoparticles // Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania. Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P89, p. 129. [FoR: T 008, N 002]
- [T2; LT] **Klinavičius, Tomas; Khinevich, Nadzeya; Tamulevičius, Tomas**. Comparison of silver nanoparticle sizes obtained by fitting optical absorbance spectra with different optical constants // Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania. Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P60, p. 97. [FoR: T 008, N 002]
- [T2; LT] **Mikalkevičius, Mantas; Khinevich, Nadzeya; Tamulevičius, Tomas; Tamulevičienė, Asta**. Concentration effect on colloid stability under different storage conditions // Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania. Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P19, p. 55. [FoR: T 008, N 002]
- [T2; LT] **Khinevich, Nadzeya; Peckus, Domantas; Henzie, Joel; Tamulevičienė, Asta; Tamulevičius, Tomas; Tamulevičius, Sigitas**. Crystalline structure and size effect on dynamic optical properties of silver nanoparticles // Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania. Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P35, p. 72. [FoR: T 008]
- [T2; LT] **Klyvis, Gvidas; Khinevich, Nadzeya; Tamulevičius, Tomas**. Effect of mechanical elongation on silver nanoparticle plasmonic lattice optical properties // Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania. Kaunas : Kaunas university of technology

technology. ISSN 2669-1930. 2023, P13, p. 49. [FoR: T 008, N 002]

14. [T2; LT] **Jankauskas, Šarūnas; Gudaitis, Rimantas; Vasiliauskas, Andrius; Guobienė, Asta; Meškiniš, Šarūnas.** Impact of graphene structure on the electrical and photovoltaic performance of directly synthesized graphene/n-Si(100) diodes // *Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania.* Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P101, p. 142. [FoR: T 008]
15. [T2; LT] **Baba, Mohamed Ahmed; Rodowan, Gazy; Abakevičienė, Brigita; Tamulevičius, Sigitas; Molin, Sebastian; Tamulevičius, Tomas.** Laser drilling of micro-holes in fuel cell membranes // *Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania.* Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P20. p. 56. [FoR: T 008, N 002]
16. [T2; LT] **Ilickas, Mindaugas; Guobienė, Asta; Abakevičienė, Brigita.** Photochemical synthesis of AgNP-PVB nanocomposite coatings and investigation of their optical properties // *Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania.* Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P76, p. 115. [FoR: N 002, T 008]
17. [T2; LT] **Rajackaitė, Erika; Guobienė, Asta; Abakevičienė, Brigita; Lazauskas, Algirdas; Ilickas, Mindaugas; Žutautas, Andrius; Minialga, Virgilijus; Žostautienė, Rasa; Laurinaitis, Nerijus; Narmontas, Pranas.** The development of an active element of the heating ventilation air conditioning system that destroys pathogenic microorganisms // *Advanced materials and technologies: book of abstracts of 25th international conference-school, 21-25 August 2023, Palanga, Lithuania.* Kaunas : Kaunas university of technology. ISSN 2669-1930. 2023, P10. p. 46. [FoR: T 008, N 002]
18. [T3; GR] **Vasiliauskas, A.; Gudaitis, R.; Andrulevičius, M.; Guobienė, A.; Jankauskas, Š.; Abakevičienė, B.; Meškiniš, Š.** Deposition and study of the superhydrophilic and hydrophobic nanocomposite films containing amorphous carbon and silicon oxide // *20th international conference on nanosciences & technologies, 4-7 July 2023, Thessaloniki, Greece: book of abstracts.* Thessaloniki : [s.n.]. 2023, p. 53. [FoR: T 008]
19. [T3; ES; OA] **Guzauskas, Matas; Volyniuk, Dmytro; Kulszewicz-Bajer, Irena; Lazauskas, Algirdas; Pron, Adam; Grazulevičius, Juozas V.** Controllable crystallization of emissive layers in OLEDs: investigating the role of conformational stabilization and properties enhancement for higher efficiencies and colour tuning // *ICOE2023: 16th international conference on organic electronic, Madrid, 2023, July 3-7: book of abstracts.* [S.l.] : [s.n.]. 2023, p. 157. [FoR: T 005]
20. [T3; DK; OA] **Tamulevičius, Tomas; Juodėnas, Mindaugas; Khinevich, Nadzeya; Tamulevičienė, Asta; Tamulevičius, Sigitas.** Self-assembled metasurfaces, from nanoparticles to nanophotonics devices // *NIBS conference 2023: Nanotechnology and innovation in the Baltic Sea region, July 3-5, 2023, Sønderborg, Denmark.* [S.l.] : [s.n.]. 2023, p. 13. [FoR: T 008, N 002]
21. [T3; PL] **Ilickas, Mindaugas; Guobienė, Asta; Abakevičienė, Brigita.** UV-mediated photochemical synthesis and antiviral characteristics of AgNP-PVB nanocomposite coatings // *Multidisciplinary international school of nanobiomaterials engineering: workshop on bionanomaterial and nanomaterial engineering, 18-23 June 2023: poster session abstract book.* [Lodz] : [Lodz university of technology]. 2023, p. 23. [FoR: T 008]
22. [T3; PL; OA] **Elkhider, Shahd; Baba, Mohamed A.; Mardosaitė, Rasa; Tamulevičienė, Asta; Abakevičienė, Brigita;** Zienius, Dainius; Lelešius, Raimundas; Šalomskas, Algirdas; **Tamulevičius, Tomas.** Characterization of copper nanoparticles synthesized via metal target laser ablation in liquid // *Multidisciplinary international school of nanobiomaterials engineering of knowledge: workshop on bionanomaterial and nanomaterial engineering, 18-23 June 2023, [Lodz, Poland]: poster session abstract book.* Lodz : [Lodz university of technology]. 2023, p. 30. [FoR: T 008, N 002]
23. [T3; AT; OA] **Jankauskas, Š.; Jucius, D.; Grigaliūnas, V.; Juodėnas, M.; Guobienė, A.; Gudaitis, R.; Lazauskas, A.** Transparent superhydrophilic silicate glass surfaces for antifogging applications // *IMAMPC 2023: 12th International meeting on atomic and molecular physics and chemistry, June 11-14, 2023, Innsbruck, Austria: book of abstracts.* Innsbruck : Institut für Ionenphysik und Angewandte Physik Universität Innsbruck. 2023, p. 69. [FoR: T 008]
24. [T3; FR; OA] **Abakevičienė, B.; Ilickas, M.; Guobienė, A.** Exploring the size effect of silver nanoparticle on structural properties of coatings // *E-MRS Spring meeting 2023: 40th anniversary: May 29 - June 2, 2023, Strasbourg, France.* Strasbourg : European materials research society. 2023, 02668, p. 1. [FoR: T 008]
25. [T3; FR; OA] **Guobienė, A.; Koliada, M.; Keršulis, S.; Stankevič, V.; Vertelis, V.; Plaušinitienė, V.; Jankauskas, Š.; Meškiniš, Š.; Žurauskienė, N.** Graphene-manganite structures for magnetic sensors applications // *E-MRS Spring meeting 2023: 40th anniversary: May 29 - June 2, 2023, Strasbourg, France.* Strasbourg : European materials research society. 2023, 00693, p. 1. [FoR: T 008, N 002]
26. [T3; FR; OA] **Peckus, D.; Tamulevičienė, A.; Mougine, K.; Spangenberg, A.; Bauerlin, Q.; Keller, M.; Vidal, L.; Joel, H.; Tamulevičius, T.; Tamulevičius, S.** The influence of the shape and size of gold nanoparticles on their ultrafast plasmon relaxation dynamics // *E-MRS Spring meeting 2023: 40th anniversary: May 29 - June 2, 2023, Strasbourg, France.* Strasbourg : European materials research society. 2023, 01257, p. 1. [FoR: T 008, N 002]
27. [T3; FR; OA] **Monshi, M.; Moussavi, M.; Peckus, D.; Tamulevičius, S.** Transient absorption spectroscopy

quality study of graphene grown on a seeding layer of nickel // E-MRS Spring meeting 2023: 40th anniversary: May 29 - June 2, 2023, Strasbourg, France. Strasbourg : European materials research society. 2023, 01127, p. 1. [FoR: T 008, N 002]

28. [T3; HR] Lemieszek, Bartłomiej; **Ilickas, Mindaugas**; Jamroz, Jan; **Tamulevičienė, Asta**; Karczewski, Jakub; Błaszczak, Patryk; **Abakevičienė, Brigita**; Małys, Marcin; Tamulevičius, Sigitas; Jasiński, Piotr; Molin, Sebastian. Development and performance of La<sub>0.6</sub>Sr<sub>0.4</sub>CoO<sub>3-δ</sub> oxygen electrode for low-temperature (<500°C) solid oxide cells // ISSFIT-15: 15th international symposium on systems with fast ionic transport, 18 – 22 April 2023, Dubrovnik, Croatia: book of abstracts / editors: Ana Šantić, Zoran Štefanić. Zagreb : Croatian association of crystallographers. 2023, 020, p. 29. [FoR: T 008]
29. [T2; LT; OA] **Elkhider, Shahd; Baba, Mohamed A.; Vasiliauskas, Andrius; Meškinis, Šarūnas**; Zienius, Dainius; Lelešius, Raimundas; Šalomska, Algirdas; **Tamulevičius, Tomas**. DLC:CU thin film stability testing in cell culture medium // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 64. [FoR: T 008, A 002, N 002]
30. [T2; LT; OA] **Baba, Mohamed A.; Rodowan, Gazy; Abakevičienė, Brigita; Tamulevičius, Sigitas**; Molin, Sebastian; **Tamulevičius, Tomas**. Effect of micromachining parameters on geometrical characteristics of micro-holes in fuel cell membranes // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 61. [FoR: T 008, N 002]
31. [T2; LT; OA] **Mikalkevičius, Mantas; Khinevich, Nadzeya; Tamulevičius, Tomas; Tamulevičienė, Asta**. Investigation of stability of silver nanoparticles under different storage conditions // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 220. [FoR: T 008, N 002]
32. [T2; LT; OA] **Andrulevičius, Mindaugas**; Artiukh, Evgenii; Suchanek, Gunnar; Wang, Sitao; Sobolev, Nikolai A.; Gerlach, Gerald; **Tamulevičienė, Asta; Abakevičienė, Brigita; Tamulevičius, Sigitas**. Multitarget reactive magnetron sputtering towards the production of strontium molybdate thin films // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 273. [FoR: T 008]
33. [T2; LT; OA] **Ilickas, Mindaugas; Guobienė, Asta; Abakevičienė, Brigita**. Photochemical synthesis of silver nanoparticles and study of their structural properties // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 212. [FoR: T 008]
34. [T2; LT; OA] **Rajackaitė, Erika; Žutautas, Andrius; Žostautienė, Rasa; Narmontas, Pranas**. The development of technology of a new generation identification element // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 204. [FoR: T 008]
35. [T2; LT; OA] **Jankauskas, Šarūnas; Gudaitis, Rimantas; Meškinis, Šarūnas**. Thermal analysis of graphene/N-Si(100) diode, formed using transfer-less method // Open readings 2023: 66th international conference for students of physics and natural sciences, April 18-21, 2023, Vilnius, Lithuania: annual abstract book / editors: M. Keršys, Š. Mickus. Vilnius : Vilnius university press, 2023. ISBN 9786090708835. p. 224. [FoR: T 008]
36. [T3; US; OA] **Jurkevičiūtė, Aušrinė**; Prikulis, Juris. Feasibility of optical refractive index sensor based on porous anodized aluminum oxide and nanocomposite of diamond-like carbon with silver nanoparticles: simulations and experiments // SPP10: 10th international conference on surface plasmon photonics, May 21-26, 2023, Houston, Texas, USA. Houston : Rice university. 2023, C34.3, p. 1. [FoR: T 008]
37. [T3; IT; OA] **Račkauskas, Simas**. ZnO nanowire synthesis and biotechnological application // 5° workshop “I chimici per le biotecnologie”, Napoli, 27 febbraio 2023. Napoli : Università degli Studi di Napoli Federico II. 2023, IT5, p. 45. [FoR: T 008]

Summary table:

<b>Publications</b>	<b>No. of publ.</b>	<b>Auth. input</b>	<b>Auth. input auth. quire</b>	<b>Auth. quire</b>	<b>Number of publ. with IF/AIF or SNIP &gt; 0,25</b>	<b>No. of publ. Q1-Q3</b>	<b>Auth. input of publ. Q1-Q3</b>
<b>1. ARTICLES IN PEER-REVIEWED SCIENTIFIC PUBLICATIONS</b>	20	10,045				16	8,233
<b>1.1. Indexed in the Web of Science with Impact Factor</b>	16	8,233			16	16	8,233
1.1.1. International (foreign) publishers	16	8,233			16	16	8,233
<b>1.3. Indexed in other Web of Science or Scopus publications</b>	2	0,728					
1.3.1. International (foreign) publishers	2	0,728					
<b>1.5. In peer-reviewed conference proceedings (not indexed in the Web of Science and Scopus)</b>	2	1,084					
1.5.2. National (Lithuanian) publishers	2	1,084					
<b>9. PATENTS AND PATENT APPLICATIONS</b>	2	2,000					
9.1. Patents registered in EPO, USPTO, JPO patent offices	2	2,000					
<b>13. PRESENTATION OF RESEARCH RESULTS AT CONFERENCES</b>	45						
13.1. Conference presentation abstracts in the publications indexed in the international databases	8						
13.2. Other conference presentation abstracts and non-peer reviewed conference papers	37						