

Dr. Renata Karpicz

LIST OF PUBLICATIONS

In *Clarivate Analytics (Thomson Reuters)* database „Web of Science Core Collection“ refereed journals

1. Lena Golubewa, Igor Timoshchenko, Oleg Romanov, Renata Karpicz, Tatjana Kulahava, Danielis Rutkauskas, Michail Shuba, Andrej Dementjev, Yuriy Sirko and Polina Kuzhir “Single-walled carbon nanotubes as a photo-thermo-acoustic cancer theranostic agent: theory and proof of the concept experiment” *Scientific Reports* **10** (2020) 22174. <https://doi.org/10.1038/s41598-020-79238-6>.
2. Lena Golubewa, Renata Karpicz, Ieva Matulaitienė, Algirdas Selskis, Danielis Rutkauskas, Aliaksandr Pushkarchuk, Tatsiana Khlopina, Dominik Michels, Dmitry Lyakhov, Tatsiana Kulahava, Ali Shah, Yuri Svirko, Polina Kuzhir „Surface-Enhanced Raman Spectroscopy of Organic Molecules and Living Cells with Gold Plated Black Silicon“ *ACS Applied Materials and Interfaces* **12**, **45** (2020) 50971–50984. <https://dx.doi.org/10.1021/acsami.0c13570>.
3. Lena Golubewa, Hamza Rehman, Tatsiana Kulahava, Renata Karpicz, Marian Baah, Tommy Kaplas, Ali Shah, Sergei Malykhin, Alexander Obratsov, Danielis Rutkauskas, Marija Jankunec, Ieva Matulaitienė, Algirdas Selskis, Andrei Denisov, Yuri Svirko and Polina Kuzhir „Macro-, Micro- and Nano-Roughness of Carbon-Based Interface with the Living Cells: Towards a Versatile Bio-Sensing Platform“ *Sensors* **20** (2020) 5028. <https://www.mdpi.com/1424-8220/20/18/5028>.
4. Urte Samukaite-Bubniene, Raminta Mazetyte-Stasinskiene, Katsiaryna Chernyakova, Renata Karpicz, Arunas Ramanavicius „Time-resolved fluorescence spectroscopy based evaluation of stability of glucose oxidase“ *International Journal of Biological Macromolecules* **163** (2020) 676–682; <https://doi.org/10.1016/j.ijbiomac.2020.06.284>
5. Lena Golubewa, Tatsiana Kulahava, Yuliya Kunitskaya, Pavel Bulai, Mikhail Shuba, Renata Karpicz „Enhancement of single-walled carbon nanotube accumulation in glioma cells exposed to low-strength electric field: Promising approach in cancer nanotherapy“ *Biochemical and Biophysical Research Communications* **529** (2020) pp. 647-651; <https://doi.org/10.1016/j.bbrc.2020.06.100>
6. Alesia Paddubskaya, Danielis Rutkauskas, Renata Karpicz, Galina Dovbeshko, Nadezhda Nebogatikova, Irina Antonova and Andrej Dementjev „Recognition of Spatial Distribution of CNT and Graphene in Hybrid Structure by Mapping with Coherent Anti-Stokes Raman Microscopy“ *Nanoscale Research Letters* **15** (2020) 15:37; <https://doi.org/10.1186/s11671-020-3264-8>
7. Simonas Ramanavicius, Alla Tereshchenko, Renata Karpicz, Vilma Ratautaite, Urte Bubniene, Audrius Maneikis, Arunas Jagminas and Arunas Ramanavicius „TiO₂-x/TiO₂-Structure Based ‘Self-Heated’ Sensor for the Determination of Some Reducing Gases“ *Sensors* **20** (2020), pp. 74; <https://doi:10.3390/s20010074>
8. K. Chernyakova, A. Ispas, R. Karpicz, G. Ecke, I. Vrublevsky, A. Bund „Formation of ordered anodic alumina nanofibers during aluminum anodizing in oxalic acid at high voltage and

- electrical power" *Surface and Coatings Technology* **394** (2020) pp. 125813; <https://doi.org/10.1016/j.surfcoat.2020.125813>
9. Milda Petruleviciene, Jurga Juodkazyte, Maliha Parvin, Alla Tereshchenko, Simonas Ramanavicius, Renata Karpicz, Urte Samukaite-Bubniene and Arunas Ramanavicius „Tuning the Photo-Luminescence Properties of WO₃ Layers by the Adjustment of Layer Formation Conditions" *Materials* **13** (2020) pp. 2814; <https://doi:10.3390/ma13122814>
 10. A.Dementjev, R.Rudys, R.Karpicz, D.Rutkauskas „Opimization of wide-field second-harmonic generation microscopy for fast imaging of large sample areas in biological tissues" *Lithuanian Journal of Physics*, **60** (2020) pp. 145-153; <https://doi.org/10.3952/physics.v60i3.4301>
 11. Ivan Gnatyuk, Andrey Dementjev, Renata Karpicz, Natalia Shcherban, Tetiana Gavrilko, and Jan Baran „CARS imaging of nematic liquid crystal confined to mesoporous silica-based particles" *Molecular Crystals and Liquid Crystals* **697** (2020) pp. 1-10; <https://doi.org/10.1080/15421406.2020.1731097> .
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 13. I.Vrublevsky, K.Chernyakova, R.Karpicz, A.Jagminas „Stored charge and its influence on properties of anodic alumina films" *Current Nanoscience* **15** (2019) pp. 100-109. <https://doi.org/10.2174/1573413714666180430140039> .
 14. Urte Bubniene, Raminta Mazetyte, Almira Ramanaviciene, Vidmantas Gulbinas, Arunas Ramanavicius and Renata Karpicz „Fluorescence Quenching-Based Evaluation of Glucose Oxidase Composite with Conducting Polymer, Polypyrrole" *J. Phys. Chem. C* **122** (2018) pp. 9491-9498. <https://doi.org/10.1021/acs.jpcc.8b01610> .
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 16. Alesia Paddubskaya, Andrej Dementjev, Andrius Devižis, Renata Karpicz, Sergey Maksimenko, Gintaras Valušis. „Coherent anti-Stokes Raman scattering as an effective tool for visualization of single-wall carbon nanotubes" *Optics Express* **26** (2018) pp. 10527-10534. <https://doi.org/10.1364/OE.26.010527>.
 17. K. Chernyakova, R. Karpicz, D. Rutkauskas, I. Vrublevsky, A.W. Hassel. „Structural and Fluorescence Studies of Polycrystalline α-Al₂O₃ Obtained From Sulfuric Acid Anodic Alumina" *Physica Status Solidi (A)* **215** (2018) pp. 1700892 <https://doi.org/10.1002/pssa.201700892> .
 18. K.Chernyakova, R.Karpicz, S.Zavadski, O.Poklonskaya, A.Jagminas, I.Vrublevsky. "Structural and fluorescence characterization of anodic alumina/carbon composites formed in tartaric acid solution" *J. Lumin.* **182** (2017) pp. 233-239. <https://doi.org/10.1016/j.jlumin.2016.10.026>
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22. Agnė Mikalauskaitė, Vitalijus Karabanovas, Renata Karpicz, Ričardas Rotomskis and Arūnas Jagminas „Green synthesis of red-fluorescent gold nanoclusters. Characterization and application for breast cancer detection“ *Biointerface Research in Applied Chemistry* **6** (2016) pp. 1702-1709. https://biointerfaceresearch.com/?page_id=1657
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