

## LISTA COMPLETA A PUBLICATIILOR

### ARTICOLE PUBLICATE IN REVISTE INDEXATE IN WEB OF SCIENCE

(in cazul articolelor publicate in rol de autor principal numele este evidentiata prin subliniere)

1. Hybrid Machine Learning for Scanning Near-field Optical Spectroscopy, X. Chen, Z. Yao, S. Xu, A.S. McLeod, S.N.G. Corder, Y. Zhao, M. Tsuneto, H.A. Bechtel, M.C. Martin, G. L. Carr, M.M. Fogler, **S.G. Stanciu**, D.N. Basov, M. Liu, *ACS Photonics*, 8(10), 2987–2996 (2021)
2. Rapid Simulations of Hyperspectral Near-field Images of Three-dimensional Heterogeneous Surfaces, X. Chen, Z. Yao, **S.G. Stanciu**, D. N. Basov, R. Hillenbrand, M. Liu, *Optics Express*, 29(24), 39648-39668 (2021)
3. The influence of hematoxylin and eosin staining on the quantitative analysis of second harmonic generation imaging of fixed tissue sections, *Biomedical Optics Express*, R. Hristu, **S.G. Stanciu**, B. Paun, I. Floroiu, A. Dumitru, M. Costache, G.A. Stanciu, *Biomedical Optics Express*, 12, 5829-5843 (2021)
4. Characterization of *Acinetobacter baumannii* filamentous cells by Re-scan confocal microscopy and complementary fluorometric approaches, M. Lucidi, R. Hristu, L. Nichele, G.A. Stanciu, P. Visca, C.K. Banica, G. Cincotti, **S.G. Stanciu**, *IEEE Journal of Selected Topics in Quantum Electronics*, 27(5), 6801207 (2021)
5. Multiphoton microscopy of the dermoepidermal junction and automated identification of dysplastic tissues with deep learning, M.J. Huttunen, R. Hristu, A. Dumitru, I. Floroiu, M. Costache, **S.G. Stanciu**, *Biomedical Optics Express* **11**, 186-199 (2020)
6. HISTOBREAST, A Collection of Brightfield Microscopy Images of Haematoxylin – Eosin Stained Breast Tissue, R.M. Buga, T. Totu, A. Dumitru, M. Costache, I. Floroiu, N. Sladoje, **S.G. Stanciu**, *Scientific Data*, 7, 169 (2020)
7. Characterization of Nanostructured Materials by Locally Determining their Complex Permittivity with scattering-type Scanning Near Field Optical Microscopy, **S.G. Stanciu**, D.E. Tranca, L. Pastorino, S. Boi, Y.M. Song, Y.J. Yoo, S. Ishii, R. Hristu, F. Yang, G. Buseti, G.A. Stanciu, *ACS Applied Nano Materials*, 3, 2, 1250-1262 (2020)
8. Multiphoton Microscopy of Oral Tissues: Review, R.M Martínez-Ojeda, M.D Pérez-Cárceles, L.C Ardelean, **S.G. Stanciu**, J.M Bueno, *Frontiers in Physics*, 8, 128 (2020)
9. STED nanoscopy of KK114-stained pathogenic bacteria, M. Lucidi, R. Hristu, L. Nichele, G.A. Stanciu, P. Visca, A.M Holban, **S.G. Stanciu**, G. Cincotti, *Journal of Biophotonics*, 13(9), e202000097, (2020)
10. SSNOMBACTER: A collection of scattering-type Scanning Near-Field Optical Microscopy and Atomic Force Microscopy images of bacterial cells, M. Lucidi, D.E. Tranca; L. Nichele; D. Unay; G.A. Stanciu; P. Visca; A. M. Holban; R. Hristu; G. Cincotti; **S.G. Stanciu**, *GigaScience*, 9(11), 1-12 (2020)
11. Editorial: Advances in Label Free Tissue Imaging with Laser Scanning Microscopy Techniques, **S.G. Stanciu**, C. Silien, P. Bianchini, *Frontiers in Physics*, <https://doi.org/10.3389/fphy.2020.00017>, (2020)
12. Editorial: Recent Trends in Optical and Mechanical Characterization of Nanomaterials, **S.G. Stanciu**, L. Latterini, C.A. Charitidis, *Frontiers in Chemistry*, 2020

13. Large-Area Virus Coated Ultra-Thin Colorimetric Sensors with a Highly Lossy Resonant Promoter for Enhanced Chromaticity, Y.J. Yoo, W-G. Kim, J.H. Ko, Y.J. Kim, Y. Lee, J.-M. Lee, **S.G. Stanciu**, J-W. Oh, Y.M. Song, *Advanced Science*, 7(18), 2000978, (2020)
14. Magnetically switchable mechano-chemotherapy for enhancing the death of tumour cells by overcoming drug-resistance, C. Yao, F. Yang, L. Sun, Y. Ma, **S.G. Stanciu**, Z. Li, C. Liu, O. U. Akakuru, L. Xu, N. Hampp, Huanming Lu, A. Wu, *Nano Today*, 35, 100967 (2020)
15. Surface optical characterization at nanoscale using phasor representation of data acquired by scattering scanning near-field optical microscopy, D.E. Tranca, R. Hristu, **S.G. Stanciu**, L. Latterini, G.A. Stanciu, *Applied Surface Science*, 509, 145347 (2020)
16. The effect of elasticity on the phagocytosis of micro/nanoparticles, A. Wu, C. Yao, O. Akakuru, **S. G. Stanciu**, N. Hampp; Y. Jin, J. Zheng, G. Chen, F. Yang, *Journal of Materials Chemistry B*, 8, 2381-2392 (2020)
17. Objective analysis on collagen organization in thyroid nodule capsules using second harmonic generation microscopy, J.M. Bueno, F.J. Ávila, R. Hristu, **S.G. Stanciu**, L. Eftimie, G.A. Stanciu, *Applied Optics*, 59(23), 6925-6931, (2020)
18. Pixel-level angular quantification of capsular collagen in second harmonic generation microscopy images of encapsulated thyroid nodules, R. Hristu, L. Eftimie, **S.G. Stanciu**, B. Paun, G.A. Stanciu, *Journal of Biophotonics*, e202000262 (2020)
19. BIAFLOWS: A collaborative framework to benchmark and deploy bioimage analysis workflows, U. Rubens, R. Mormont, V. Baecker, G. Michiels, L. Paavolainen, G. Ball, D. Ünay, B. Pavie, A. Chessel, L. A. Scholz, M. Maška, R. Hoyoux, R. Vandaele, **S.G. Stanciu**, O. Golani, N. Sladoje, P. Paul-Gilloteaux, R. Marée, S. Tosi, *Patterns*, 1, 100040 (2020)
20. Precisely tuning the contrast properties of Zn<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub> nanoparticles in magnetic resonance imaging by controlling their doping contents and sizes, Y. Ma, J. Xia, C. Yao, **S.G. Stanciu**, P. Li, Y. Jin, G. Chen, H. Yang, T. Chen, L. Luo, F. Yang, A. Wu, *Chemistry of Materials*, 31(18), 7255-7264 (2019)
21. Growth Mechanisms and the Effects of Deposition Parameters on the Structure and Properties of High Entropy Film by Magnetron Sputtering, Y. Liang, P. Wang, Y. Wang, Y. Dai, Z. Hu, D.E. Tranca, R. Hristu, **S.G. Stanciu**, A. Toma, G.A. Stanciu, X. Wang, E. Fu, *Materials* 12(18), 3008 (2019)
22. Strategies for optimizing the determination of second order nonlinear susceptibility tensor coefficients for collagen in histological samples, B. Paun, R. Hristu, **S.G. Stanciu**, A. Dumitru, M. Costache, G.A. Stanciu, *IEEE Access*, 7, 135210-135219 (2019).
23. An objective scoring framework for histology slide image mosaics applicable for the reliable benchmarking of image quality assessment algorithms, T. Totu, R.M. Buga, A. Dumitru, M. Costache, N. Sladoje, **S.G. Stanciu**, *IEEE Access*, 6, 53080-53091 (2018)
24. An evaluation on the robustness of five popular keypoint descriptors to image modifications specific to laser scanning microscopy, D. Ünay, **S.G. Stanciu**, *IEEE Access*, 6, 40154-40164 (2018)
25. Investigations on the elasticity of functional gold nanoparticles using single-molecule force spectroscopy, L. Sun, R. Riedel, **S.G. Stanciu**, F. Yang, N. Hampp, L. Xu and A. Wu, *Journal of Materials Chemistry B*, 6(19), 2960-2971 (2018)
26. Nanoscale mapping of refractive index by using scattering-type Scanning Near-Field Optical Microscopy, D.E. Tranca, **S.G. Stanciu**, R. Hristu, B.M. Witgen, and G.A. Stanciu, *Nanomedicine: Nanotechnology, Biology, and Medicine*, 14(1). 47-50 (2018)

27. Modern methods to differentiate benign thyroid nodules from malignant ones, L Eftimie, R Hristu, M Dumitrescu, M Costache, **SG Stanciu**, M Sajin, GA Stanciu, *Romanian Journal of Military Medicine*, 121(1), 40-45 (2018)
28. Quantitative second harmonic generation microscopy for the structural characterization of capsular collagen in thyroid neoplasms, R. Hristu, L. Eftimie, **S.G. Stanciu**, D.E. Tranca, B. Paun, M. Sajin, G.A. Stanciu, *Biomedical Optics Express*, 9(8), 3923-3936 (2018)
29. A Study on Image Quality in Polarization Resolved Second Harmonic Generation Microscopy, **S.G. Stanciu**, R. Hristu, F.J. Avila, J.M. Bueno, *Scientific Reports*, 15476, 2017
30. Correlative Imaging of Biological Tissues with Apertureless Scanning Near-field Optical Microscopy and Confocal Laser Scanning Microscopy, **S.G. Stanciu**, Denis E. Tranca, Radu Hristu, George A. Stanciu, *Biomedical Optics Express*, 8 (12), 5374-5383 (2017)
31. Identification of Stacking Faults in Silicon Carbide by Polarization-Resolved Second Harmonic Generation Microscopy, R. Hristu, **S.G. Stanciu**, D.E. Tranca, E.K. Polychroniadis, G.A. Stanciu, *Scientific Reports*, 7, 4870 (2017)
32. Improved quantification of collagen anisotropy with polarization-resolved second harmonic generation microscopy, R. Hristu, **S.G. Stanciu**, D.E. Tranca, G.A. Stanciu, *Journal of Biophotonics*, 10(9), 1171-1179 (2017)
33. Combined Far-field, Near-field and Topographic Imaging of Nano-Engineered Polyelectrolyte Capsules, **S.G. Stanciu**, D.E. Tranca, C. Ruggiero, G.A. Stanciu, A. Antipov, R. Hristu, L. Pastorino, *Materials Letters*, 183, 105-108 (2016)
34. Perspectives on Combining Nonlinear Laser Scanning Microscopy and Bag-Of-Features Data Classification Strategies for Automated Disease Diagnostics, **S.G. Stanciu**, D.E. Tranca, G.A. Stanciu, R. Hristu, J.M. Bueno, *Optical and Quantum Electronics*, 48(6), 1-13 (2016)
35. Towards Imaging Skin Cancer by Apertureless Scanning Near-Field Optical Microscopy, **S.G. Stanciu**, M. Costache, D.E. Tranca, R. Hristu, M. Popescu, G.A. Stanciu, *UPB Scientific Bulletin: Series A – Applied Mathematics and Physics*, 78(2), 235-244 (2016)
36. Embedding Complementary Imaging Data in Laser Scanning Microscopy Micrographs by Reversible Watermarking, I.-C. Dragoi, **S.G. Stanciu**, R. Hristu, H.-G. Coanda, D.E. Tranca, M. Popescu and Dinu Coltuc, *Biomedical Optics Express*, 7, 1127-1137 (2016)
37. A comparative study of corrosion inhibitors on hot-dip galvanized steel, I.A. Kartsonakis, **S.G. Stanciu**, A. A. Matei, R. Hristu, A. Karantonis, C.A. Charitidis, *Corrosion Science*, 112, 289-307 (2016)
38. Mapping Electron Beam Injected Trapped Charge with Scattering Scanning Near-field Optical Microscopy, D.E. Tranca, E. Ortiga, G. Saavedra, M. Martínez-Corral, S. A. M. Tofail, **S.G. Stanciu**, R. Hristu, G. A. Stanciu, *Optics Letters*, 41, 1046-1049 (2016)
39. Amplitude and Phase Reconstruction Issues in Scattering Scanning Near-Field Optical Microscopy, D. Tranca, **S.G. Stanciu**, R. Hristu, C. Stoichita, G.A. Stanciu, *University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics*, 78 (3), 253-262 (2016)
40. Contrast Enhancement Influences the Detection of Gradient Based Local Invariant Features and the Matching of Their Descriptors, **S.G. Stanciu**, D.E. Tranca, D. Coltuc, *Journal of Visual Communication and Image Representation*, 32, pp. 246-256 (2015)

41. High-resolution quantitative determination of dielectric function by using scattering scanning near-field optical microscopy, D.E. Tranca, **S.G. Stanciu**, R. Hristu, C. Stoichita, S.A.M. Tofail, G.A. Stanciu, *Scientific Reports*, 5, 11876, (2015)
42. Evaluation of the protective ability of typical corrosion inhibitors for magnesium alloys towards the Mg ZK30 variant, I.A. Kartsonakis, **S.G. Stanciu**, A. Matei, E.K. Karaxi, R. Hristu, A. Karantonis, C.A. Charitidis, *Corrosion Science*, 100, pp. 194-208, (2015)
43. Electron beam influence on the carbon contamination of electron irradiated hydroxyapatite thin films, R. Hristu, **S.G. Stanciu**, D.E. Tranca, G.A. Stanciu, *Applied Surface Science*, 346, pp. 342-347, (2015).
44. Structural characterization and adhesion appraisal of TiN and TiCN coatings deposited by CAE-PVD technique on a new carbide composite cutting tool, A.A. Matei, I. Pencea, **S.G. Stanciu**, R. Hristu, I. Antoniac, E. Ciovica, C.E. Sfat, G.A. Stanciu, *Journal of Adhesion Science and Technology*, 29 (23), 2576-2589, (2015)
45. Experimenting Liver Fibrosis Diagnostic by Two Photon Excitation Microscopy and Bag-of-Features Image Classification, **S.G. Stanciu**, S. Xu, Q. Peng, J. Yan, G. A. Stanciu, R. E. Welsch, P.T.C. So, G. Csucs, H. Yu, *Scientific Reports*, 4, 4636, (2014).
46. Nonlinear optical imaging of defects in cubic silicon carbide epilayers, R. Hristu, **S. G. Stanciu**, D. E. Tranca, A. Matei, G. A. Stanciu, *Scientific Reports*, 4, 5258, (2014).
47. A study on the image contrast of pseudo-heterodyned scattering scanning near-field optical microscopy, D.E. Tranca, C. Stoichita, R. Hristu, **S.G. Stanciu** and G.A. Stanciu, *Optics Express* 22, pp. 1687-1696, (2014).
48. Surface charge and carbon contamination on an electron beam irradiated hydroxyapatite thin film investigated by photoluminescence and phase imaging in atomic force microscopy, R. Hristu, D. E. Tranca, **S. G. Stanciu**, M. Gregor, T. Plecenik, M. Truchly, T. Roch, S. A. M. Tofail and G. A. Stanciu, *Microscopy and Microanalysis*, 20 (2), pp. 586-595, (2014)
49. Gas Sensing Properties of Porphyrin Thin Films Influenced by Their Surface Morphologies, I. Capan, M. Erdogan, B. Güner, B. İlhan, **S.G. Stanciu**, R. Hristu, G.A. Stanciu, *Sensor Letters*, 12 (8), pp. 1218-1227, (2014)
50. Influence of atomic force microscopy acquisition parameters on thin film roughness analysis, R. Hristu, **S. G. Stanciu**, İ. Çapan, B. Güner, M. Erdoğan, G. A. Stanciu, *Microscopy Research and Technique*, 75 (7), pp. 921-927, (2012)
51. The interaction between the gas sensing and surface morphology properties of LB thin films of porphyrins in terms of the adsorption kinetics, İ. Capan, M. Erdoğan, G.A. Stanciu, **S.G. Stanciu**, R. Hristu, M. Göktepe, *Materials Chemistry and Physics*, 136 (2-3), pp. 1130-1136, (2012)
52. Influence of Confocal Scanning Laser Microscopy specific acquisition parameters to the detection and matching of Speeded-Up Robust Features, **S.G. Stanciu**, R. Hristu and G.A. Stanciu, *Ultramicroscopy*, 111 (5), pp. 364-374, (2011)
53. Digital image inpainting and microscopy imaging, **S.G. Stanciu**, R. Hristu, and G.A. Stanciu, *Microscopy Research and Technique*, 74 (11), pp. 1049-1057, (2011).

54. Sum-modified-Laplacian Fusion Methods Experimented on Image Stacks of Photonic Quantum Ring Laser Devices Collected by Confocal Scanning Laser Microscopy, **S.G. Stanciu**, M. Dragulinescu and GA Stanciu, *UPB Scientific Bulletin – Series A*, 73 (2), (2011)
55. Optical beam induced current microscopy of photonic quantum ring lasers, R. Hristu, S.J. Wu, O'D Kwon, **S.G. Stanciu**, FJ Kao, and GA Stanciu, *Applied Physics B: Lasers and Optics*, 103 (3), 653-657, (2011).
56. The influence of the surface morphologies of Langmuir Blodgett (LB) thin films of porphyrins on their gas sensing properties, D. Cayci, **S. G. Stanciu**, I.Capan, M. Erdogan, B. Guner, R.Hristu, G.A. Stanciu, , *Sensors and Actuators B: Chemical*, 158 (1), pp. 62-68, (2011)
57. Two-photon excited photoluminescence of photonic quantum ring laser structures, R.Hristu, **S.G. Stanciu**, Fu-Jen Kao, and G.A. Stanciu, *Applied Physics B: Lasers and Optics*, 107 (1), pp. 97-101, (2011)
58. On the Suitability of SIFT Technique to Deal with Image Modifications Specific to Confocal Scanning Laser Microscopy, **S.G. Stanciu**, R. Hristu, R. Boriga, and G.A. Stanciu, *Microscopy and Microanalysis*, 16 (5), pp. 515-530, (2010)
59. Automated Compensation of Light Attenuation in Confocal Microscopy by Exact Histogram Specification, **S.G. Stanciu**, G.A. Stanciu, and D. Coltuc, *Microscopy Research and Technique*, 73 (3), pp. 165-175, (2010)
60. Two photon emission and nonlinear optical imaging of acetonitrile treated quasi-spherical nanoscale PbS systems, Dutta, N; Mohanta, D; Ahmed, GA; Choudhury, A; Hristu, R; **Stanciu, SG**; Stanciu, GA, (2010), *IEEE Photonics Journal*, 2 (6), pp. 1060-1068, (2010)
61. Electrochemical stability and surface analysis in evaluation fluoride effect on new bioalloy Ti7Al3V2Mo2Fe used in dentistry, D. Ionita, M. Prodana, I. Demetrescu, **S. G. Stanciu**, G. A. Stanciu, *Materials and Corrossion*, 62, pp. 1111-, (2010),
62. Silicon carbide thin films as nuclear ceramics grown by laser ablation, M. Filipescu, G. Velisa, V. Ion, A. Andrei, N. Scintee, P. Ionescu, **S.G. Stanciu**, D. Pantelica, M. Dinescu, *Journal of Nuclear Materials*, 416 (1-2), pp. 18-21, (2010)
63. Investigations on the variable large bandgap semiconductor compound HgBrI, G. A. Stanciu, **S.G. Stanciu**, M. Daviti, E.K. Polychroniadis, *Journal of Physics D: Applied Physics*, 36, pp. 2714-2718, (2003).

#### ARTICOLE PUBLICATE IN REVISTE INDEXATE BDI

1. Quantitative Multiphoton Microscopy in Cancer Research: Characterization of Nodule Capsule in Thyroid Pathology, R. Hristu, L.G. Eftimie, B. Paun, **S.G. Stanciu**, D.E. Tranca, G.A. Stanciu, *Imaging & Microscopy*, 21(11), 18-19 (2019)
2. Nanoscale Mapping of Dielectric Function by scattering Scanning Near-Field Optical Microscopy, D.E. Tranca, **S.G. Stanciu**, R.Hristu, C. Stoichita, S. A. M. Tofail and G.A. Stanciu, *Imaging and Microscopy*, 18 (1), 40-42 (2016)

3. Stanciu, G. A., Sandulescu, I., Savu, B., **Stanciu, S. G.**, Paraskevopoulos, K. M., Chatzistavrou, X., ... & Koidis, P. (2007). Investigation of the hydroxyapatite growth on bioactive glass surface. *Journal of Biomedical & Pharmaceutical Engineering*, 1(1), 34-39.

#### ARTICOLE PUBLICATE IN VOLUMELE UNOR CONFERINTE INTERNATIONALE INDEXATE IN WEB OF SCIENCE

1. **Stanciu, S. G.**, Tranca, D. E., Pastorino, L., Boi, S., Song, Y. M., Yoo, Y. J., Ishii, S., Yang, F., Hristu, R., Stanciu, G. A. (2019, October). Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy. In *Fourth International Conference on Applications of Optics and Photonics* (Vol. 11207, p. 112071K). International Society for Optics and Photonics.
2. Hristu, R., Paun, B., Eftimie, L., **Stanciu, S. G.**, Tranca, D. E., & Stanciu, G. A. (2018, July). Changes in the collagen structure of thyroid nodule capsules determined by polarization-resolved second harmonic generation microscopy. In *2018 20th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
3. Stanciu, G. A., Tranca, D. E., Hristu, R., **Stanciu, S. G.**, Holban, A. M., Toma, A., & Stoichita, C. (2018, July). A new technique in scanning near field optical microscopy used for investigations on the biological samples. In *2018 20th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-3). IEEE.
4. **Stanciu, S. G.**, Hristu, R., Dumitru, A., Buga, R. M., Totu, T., Popescu, M., & Costache, M. (2018, July). Towards automated tissue characterization using parallel bag-of-features experts dealing with two-photon excitation fluorescence and second harmonic generation microscopy datasets. In *2018 20th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
5. Tranca, D. E., Stoichita, C., Hristu, R., **Stanciu, S. G.**, Sammut, C. V., & Stanciu, G. A. (2018, July). Nanoscale Investigations of Optical Fiber by Using Scattering Scanning Near-Field Optical Microscopy. In *2018 20th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-3). IEEE.
6. Ünay, Devrim, and **Stefan G. Stanciu**. "Robustness of sift feature descriptors to imaging parameters in laser scanning microscopy." *2018 26th Signal Processing and Communications Applications Conference (SIU)*. IEEE, 2018.
7. Ávila, F. J., **Stanciu, S. G.**, Costache, M., & Bueno, J. M. (2017, June). Local enhancement of multiphoton images of skin cancer tissues using polarimetry. In *The European Conference on Lasers and Electro-Optics* (p. CL\_P\_3). Optical Society of America.
8. Stanciu, G. A., Tranca, D. E., **Stanciu, S. G.**, Stoichita, C., & Hristu, R. (2017, July). Nanoscale imaging by using label free microscopy techniques. In *2017 19th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
9. **Stanciu, S. G.**, Bueno, J. M., Tranca, D. E., Ávila, F. J., Hristu, R., & Stanciu, G. A. (2017, June). Correlative investigations of biological specimens using label free far-field and near-field microscopy

- techniques. In *The European Conference on Lasers and Electro-Optics* (p. CL\_5\_4). Optical Society of America.
10. Stanciu, G. A., Tranca, D. E., Hristu, R., **Stanciu, S. G.**, Stoichita, C., & Toma, A. (2016, July). Nonlinear optical effects used for investigations on biological samples at micro and nanoscale. In *2016 18th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-3). IEEE.
  11. **Stanciu, S. G.**, Boriga, R., Dascalescu, A. C., Hristu, R., & Stanciu, G. A. (2016, June). Bag-of-features approaches for combined classification of laser scanning microscopy and spectroscopy data sets. In *2016 International Conference Laser Optics (LO)* (pp. S2-13). IEEE.
  12. Dragoi, I. C., Stanciu, S. G., Coltuc, D., Tranca, D. E., Hristu, R., & Stanciu, G. A. (2015). On packing laser scanning microscopy images by reversible watermarking: A case study. In *2015 23rd European Signal Processing Conference (EUSIPCO)* (pp. 66-70). IEEE.
  13. Ionita, G. M., Coltuc, D., **Stanciu, S. G.**, & Tranca, D. E. (2015, October). Automatic moiré pattern removal in microscopic images. In *2015 19th International Conference on System Theory, Control and Computing (ICSTCC)* (pp. 776-779). IEEE.
  14. **Stanciu, S. G.**, Hristu, R., Tranca, D. E., & Stanciu, G. A. (2015, July). Bags of features for classification of Laser Scanning Microscopy data. In *2015 17th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
  15. Hristu, R., Tofail, S. A., **Stanciu, S. G.**, Tranca, D. E., & Stanciu, G. A. (2014, July). Hydroxyapatite surface charge investigated by scanning probe microscopy. In *2014 16th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
  16. **Stanciu, S. G.**, Tranca, D. E., Tarpani, L., Stanciu, G. A., Hristu, R., & Latterini, L. (2014, July). Investigations on organic fluorophore doped silica nanoparticles by apertureless scanning near-field optical microscopy. In *2014 16th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
  17. Stanciu, G. A., Tranca, D. E., Hristu, R., Stoichita, C., & **Stanciu, S. G.** (2013, June). Investigations at nanoscale by using fluorescence in apertureless scanning near field microscopy. In *2013 15th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-3). IEEE.
  18. Stanciu, G. A., Stoichita, C., Hristu, R., **Stanciu, S. G.**, & Tranca, D. E. (2012, July). Metallic samples investigated by using a scattering near field optical microscope. In *2012 14th International Conference on Transparent Optical Networks (ICTON)* (pp. 1-3). IEEE.
  19. Hristu, R., Polychroniadis, E. K., **Stanciu, S. G.**, & Stanciu, G. A. (2011, June). Investigations on SiC by using nonlinear effects in scanning laser microscopy. In *2011 13th International Conference on Transparent Optical Networks* (pp. 1-4). IEEE.
  20. Stanciu, G. A., Hristu, R., **Stanciu, S. G.**, Kwon, O. D., & Kim, D. K. (2010, June). Optical induced current technique used to investigate the photonic quantum ring laser. In *2010 12th International Conference on Transparent Optical Networks* (pp. 1-3). IEEE.
  21. **Stanciu, S. G.**, Coltuc, D., Stanciu, G. A., Andreadou, A., Mantzari, A., & Polychroniadis, E. K. (2011, June). Automatic estimation of stacking fault density in SiC specimens imaged by transmission electron microscopy. In *2011 13th International Conference on Transparent Optical Networks* (pp. 1-4). IEEE.

22. Stanciu, G. A., Stoichita, C., & **Stanciu, S. G.** (2009, June). Scanning laser microscopy: From far field to near field. In *2009 11th International Conference on Transparent Optical Networks* (pp. 1-5). IEEE.
23. **Stanciu, S. G.**, Hristu, R., Boriga, R., & Stanciu, G. (2009, June). Feature based recognition of photonic devices in images obtained by confocal scanning laser microscopy. In *2009 11th International Conference on Transparent Optical Networks* (pp. 1-4). IEEE.
24. Sachelarie, D., Predusca, G., Stanciu, G. A., & **Stanciu, S. G.** (2008, May). Tunneling at emitter periphery in silicon nitride passivated InP/InGaAs HBTs. In *2008 20th International Conference on Indium Phosphide and Related Materials* (pp. 1-4). IEEE.
25. Stanciu, G. A., **Stanciu, S. G.**, Hristu, R., Kim, D. K., & Kwon, O. D. (2008, December). Photonic-corrall-mode quantum ring lasers investigated by laser scanning microscopy and near field microscopy. In *2008 2nd ICTON Mediterranean Winter* (pp. 1-4). IEEE.
26. Stanciu, G. A., **Stanciu, S. G.**, Hristu, R., Kwon, O. D., & Kim, D. K. (2008, June). Investigation on photonic-corrall-mode quantum ring lasers by laser scanning microscopy. In *2008 10th Anniversary International Conference on Transparent Optical Networks* (Vol. 4, pp. 40-42). IEEE.
27. **Stanciu, S. G.**, & Friedmann, J. (2008, December). Compensating the effects of light attenuation in confocal microscopy by histogram modelling techniques. In *2008 2nd ICTON Mediterranean Winter* (pp. 1-5). IEEE.
28. Sachelarie, D., **Stanciu, S. G.**, & Stanciu, G. A. (2007, December). Atomic force microscopy analysis of orientation effect on InP-based heterojunction bipolar transistors. In *2007 ICTON Mediterranean Winter Conference* (pp. 1-2). IEEE.
29. **STANCIU, S. G.**, et al. Investigation on CdS: Mn quantum dots using scanning laser microscopy. In: *2007 ICTON Mediterranean Winter Conference*. IEEE, 2007. p. 1-4.
30. Stanciu, G., **Stanciu, S. G.**, Dan, C., Paraskevopoulos, K. M., Chatzistavrou, X., Kontonasaki, E., & Koidis, P. (2006). Surface Topography Characterization of Apatite Formation on Bioactive Glass Modified Dental Ceramics Using Confocal Laser Scanning CLSM) and Environmental Scanning Electron Microscopy (ESEM). In *Key Engineering Materials* (Vol. 309, pp. 689-692). Trans Tech Publications Ltd.

## CAPITOLE DE CARTE

1. Scattering-type scanning near-field optical microscopy, G. A. Stanciu, D.E. Tranca, **S.G. Stanciu**, R. Hristu, C. Stoichita, in *“Imaging Modalities for Biological and Preclinical Research: A Compendium: Volume 1”*, Eds. A. Walter, J.G Mannheim and C.J. Caruana, Online ISBN: 978-0-7503-3059-6, Print ISBN: 978-0-7503-3057-2, IOP Publishing Ltd. (2021)
2. Yang, Fang, Yuanyuan Ma, **S.G. Stanciu**, and Aiguo Wu. *Transduction Process-Based Classification of Biosensors*. in *Nanobiosensors: From Design to Applications* (2020): 23-44, 978-3-527-34510-6, Wiley.
3. **Stanciu, S.G.**, Stanciu, G.A and Coltuc, D., *Compensating Light Intensity Attenuation in Confocal Scanning Laser Microscopy by Histogram Modeling Methods*, in “Digital Image Processing” Ed. Stefan G. Stanciu, 2012, ISBN 979-953-307-223-3, INTECH Open Access Publisher



4. Lang, S.B., Stanciu, G.A. and **Stanciu S.G.**, *Non-linear Characterizations of Surface Charge and Interfacial Morphology*, in “Biological Interactions with Surface Charge in Biomaterials”, ed. Syed A. M. Tofail, ISBN: 978-1-84973-185-0, 2011, RSC Nanoscience & Nanotechnology series, RSC Publishing
5. **Stanciu, S.G.**, *Image Fusion Methods for Confocal Scanning Laser Microscopy experimented on Images of Photonic Quantum Ring Laser Devices*, in “Image Fusion” Ed. Osamu Ukimura, ISBN 978-953-7619-X-X, (2011) INTECH Open Access Publisher

#### **CARTI EDITATE**

1. Microscopy and Analysis (2016), **Ed. S.G. Stanciu**, ISBN 978-953-51-2579-2, Print ISBN 978-953-51-2578-5, InTech Open Access Publisher
2. Micro and Nanotechnologies for Biotechnologies (2016), **Ed. S.G. Stanciu**, ISBN 978-953-51-2531-0, InTech Open Access Publisher
3. Digital Image Processing, (2012), **Ed. S.G. Stanciu**, ISBN 978-953-307-801-4 , InTech Open Access Publisher