

Curriculum vitae – GHEORGHE A. STANCIU

1.Personal

Born: December 15, 1948

Address: Department of Physics, "Politehnica" University of Bucharest, str. Splaiul Independentei nr.313, sector 6, 060042, Bucharest.

Professor Emeritus, Department of Physics, "Politehnica" University of Bucharest.

Director of the Center for Microscopy-Microanalysis and Information Processing

2. Education

1981 PhD - Technical Physics, Polytechnic Institute of Bucharest

1971 Physical Engineers, Polytechnic Institute of Bucharest

3. Experienta

09/1971 – 10/1974	Engineer, R&D Institute for Electronic Components Bucharest
10/1974 – 03/1981	Assistant, Department of Physics, " Politehnica " University of Bucharest
03/1981 – 06/1990	Lecturer, Dept. of Physics, " Politehnica " University of Bucharest
06/1990 – 09/1994	Assoc. Prof. , Dept. of Physics, " Politehnica " University of Bucharest
10/1994 – 10/2023	Professor, Department of Physics, " Politehnica " University of Bucharest
10/2023 – present	Professor Emeritus, Department of Physics, " Politehnica " University of Bucharest
2000 – present	Scientific Adviser (Engineering Sciences: Electronics)

4. Research areas addressed

- Development of high capacity capacitors (with tantalum) (1971, CCPCE-Baneasa);
- Light emitting diodes (realization of the first light-emitting diodes (CCPCE-Baneasa);
- Photon-drag laser detectors (realization of the first germanium detector for CO laser pulses$_2$, (CAPCA-Baneasa);

- Realization of the first CO_2 laser (Romania) in Q-switch mode, at IFA Magurele (1971)
- Making a laser with He-Ne: CCPCE- Baneasa (1973),
- Making the first laser with (He-Zn; (UPB) 1975
- Determination of deep levels of gold introduced into silicon (UPB: 1975);
- Research on Ne (active laser medium) using Faraday rotation (UPB, 1976);
- Making a metal vapor laser: Zn, (UPB, 1976)

5. Research areas initiated

1. Digital scanning microscopy of the laser facsic (the world's first digital microscope)

2. Near field and far field multiomodal microscopy (first multiomodal system integrating 8 techniques of near field and near-field microscopy)

6. **Organization of research laboratories**

- Laser Application Laboratory (1971, CCPCE-Baneasa)
- Laser scanning microscopy laboratory: instrumentation and applications (UPB-1976)
- Laboratory of high resolution microscopy based on microprobes: atomic force microscopy, tunnel effect microscopy, near field optical microscopy (UPB, 2001)
- X-ray Diffraction Laboratory (UPB- 2003)
- Founder of the Center for Microscopy – Microanalysis and Information Processing, as a multi-user research base (2001)

7. **Research grants (coordinator or partner team leader)**

- *National projects as coordinator or responsible* (list attached): ... 29th

- *International projects as director or coordinator of the Romanian team (list attached)*

.....9

- Member of COST program committees

- CA 1205: Skin Laser Imaging
- CA 15214 - An integrative action for multidisciplinary studies on cellular structural networks

8. Publications

i. Books or book chapters

→ Chapters in books published in established publishing houses in strinatate..... 5
→ Problem books for students 3
→ Textbooks for students 3.....3
→ Sample books for students 4

ii. Articles

→ ISI indexed articles 119
→ Articles indexed in other databases 104

iii **Conferrer**

→ Papers presented at conferences 149
→ Papers invited to international conferences **..... 35**

9. Research grants (coordinator or partner team leader)

- *National projects as coordinator or responsible* (list attached): ... 29th
- *International projects as director or coordinator of the Romanian team (list attached) .. 9*

10. Brevete invention

11. International recognition

- **Member of scientific committees of international journals**

- Frontiers: Journal of Biotechnology and Nanotechnology;
- Scientific reports (Nature Groups);
- Optical and Quatum Electronics;
- Coatings
- International Journal of Nanomaterials, Nanotechnology and Nanomedicine, **Peertechz**
-GIT Imaging and Microscopy;
- Guangxi Sciences

- **Member of scientific committees of international conferences**

  - International conference for transparent optical networks (ICTON): 2016, 2017,2018,2019,2020, 2023
  - Gene Convention 2018, 2019, 2022
  - Analytix, 2018, 2019, 2022
  -

→ General Chair at ICTON 2023... (http://icton2018.upb.ro/)
→. General Chair at ICTON 2023 – (https://icton2023.upb.ro/)

- **Summer Schol Lecturer**

  - *Aristotle University of Thessaloniki: iulie, 2003*
  - *Aristotle University of Thessaloniki: iulie 2004*,
  - Venice, Venetian Institute of Sciences, Letters and Arts, July 2018
  - Trnava, Faculty of Natural Sciences, Ss. Cyril and Methodius University, septembrie2019, **.**
  - *University of Belgrade: july 2021*

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- **PhD thesis reviewer abroad:**

5 doctoral theses : Tezpur University (India) ;
2 theses :University of Valencia

- **Distinctii**

-Senior Member IEEE (1995)

- Fellow Member al International Association of Advanced Materials

- **Visits to prestigious universities as a Visiting Professor**

- Laboratory of Physical Optics (University of Sydney) - (February 1993, March 1999, February 2000, November 2001);

- Department of Biology (University of Amsterdam) - November 1996
- Department of Computer Engineering (University of Wisconsin - Madison) – May 1995, June, 1999.
- Department of Physics (Aristotle University) – 1994-2003 (visits took place every year)
- Centre for Biophotonics (Swinburne University- Melbourne: March, 2000, November 2001)
- Department of Physics (University of Balikesir-Turkey) - June, 2001, 2005;
- Laboratory of Physics of Matter (INSA-Lyon) - January, 2000.
- Department of Physics (University of Balikesir-Turkey) - June, 2001;

Key Centre of Excellence (University of Sydney) - February 1993, March 1999, February 2000, November 2001, November 2004);

- Department of Biology (University of Amsterdam) - November 199
- Department of Physics (Aristotle University) – 1994-2004 (every year)
- Centre for Biophotonics (Swinburne University- Melbourne: March, 2000, November 2001)
- Department of Physics (University of Balikesir-Turkey) - June, 2001;
- Laboratory of Applied Optics (ENSTA, L' Ecole Polytechnique): February 2005
- Department of Physics (Ankara University) – June 2005
- University of Valencia (Spain) – October 2010; July 2013, June 2015
- University of Catalonia of Barcelona, October 2010, University of Catalonia
- National University of Kaoshiung (Taiwan) September 2001, February 2003
- National Yang-Ming University, Taipei, Taiwan, January, 2009
- University of Istanbul, September, 2011,
- University of Murcia, July, 2013
- Department of Optics, University of Valencia. May 2014, September 2017
- Department of Physics, Peking University, May, 2017, November 2019
- Faculty of Applied Sciences – University of Malta, November 2018
- INAOE Puebla Mexic September 2019
- Peking University September 2016, November 2019

- **Visits of prestigious personalities at the invitation of prof. G. Stanciu**

- Prof. Colin Sheppard, Director of the School of Physics, University of Sydney
- Prof. Stefan Hell, Nobel Prize Laureate in Chemistry
- Prof Klaus von Klitzing, Nobel Prize Laureate in Physics
- Prof. Zeev Zalevski, Dean of the Faculty of Engineering, Bar Ilan University, Israel,
- Prof. Fu-Jen Kao, President of the Taiwan Physical Society;
- Prof. Charles Samutt, Dean of the Faculty of Fizica, Malta,
- Prof. Alberto Diaspro, Research Director of the Italian Institute of Technology
- Prof. Manuel Martinez Coral , Director of the Department of Physics, University of Valencia,
- Prof. Adrian Ionescu D, rector of the Nanoelectronic Devices Laboratory (EPFL)

- Prog Engang Fu- Director of Center of Excellence for Nuclear Physics and Technologies, Peking University

11. Researcher References:

Google Academic: **h = 22**, https://scholar.google.com/citations?hl=en&user=44Qx04IAAAAJ

Scopus: **h = 17**, https://www.scopus.com/authid/detail.uri?authorId=7003521222 S

Publon: **h = 25** https://publons.com/dashboard/summary

12. Brainmap : https://www.brainmap.ro/george-a-stanciu

13. Site-ul: http://cmmip.upb.org



George A. Stanciu

Professor of Physics,
University Politehnica of Bucharest

laser scanning microscopy
scanning probe microscopy
optoelectronics
photonics

	Toate	Din 2019
Referințe bibliografice	1891	889
h-index	22	16
i10-index	58	32

6 articole indisponibile

14 articole disponibile

Pe baza cerințelor privind finanțarea

TITLU	CITAT DE	ANUL
Enhanced imaging with binary circular Dammann Fresnel zone plate SR Anton, N Shabairou, SG Stanciu, GA Stanciu, Z Zalevsky Optics Express 32 (9), 16248-16259		2024
Differential Diagnosis of Thyroid Tumors through Information Fusion from Multiphoton Microscopy Images using Fusion Autoencoder HR Kethireddy, A Tejaswee, LG Eftimie, R Hristu, GA Stanciu, A Paul Medical Imaging with Deep Learning		2024
Generic arrays of surface-positioned and shallow-buried gold multi-shapes as reference samples to benchmark near-field microscopes. Part 1: Applications in s-SNOM depth imaging B Kusnetz, J Belhassen, DE Tranca, SG Stanciu, SR Anton, Z Zalevsky, ... Results in Physics 56, 107318	1	2024
Characterization of Nanoporous Copper Using Scanning Probe Techniques SR Anton, DE Tranca, SG Stanciu, R Hristu, CK Banica, E Vasile, Z Hu, ... Coatings 13 (11), 1908		2023
Investigations on the topography and micro-mechanical properties of polyvinyl alcohol thin-film composites reinforced with hardwood biocarbon particles M Zouari, SG Stanciu, J Jakes, L Marrot, E Fiorentis, GA Stanciu, ... Journal of Materials Research and Technology 27, 5533-5540	1	2023
Applications of Phasor Data Analysis on Scattering Scanning Near-field Optical Microscopy Investigations DE Tranca, A Sobetkii, R Hristu, SG Stanciu, C Stoichita, GA Stanciu 2023 23rd International Conference on Transparent Optical Networks (ICTON), 1-4		2023
Mechanical and Optical Investigations of Cr Thin Films Deposited on Si Substrate DE Tranca, A Sobetkii, R Hristu, SR Anton, SG Stanciu, E Fiorentis, ... 2023 23rd International Conference on Transparent Optical Networks (ICTON), 1-4		2023
Surface Roughness and Optical Characterization of Nanoporous Silver Films Synthesized by One-Step Dealloying SR Anton, E Fu, DE Tranca, SG Stanciu, A Toma, CV Sammut, Z Hu, ...	1	2023

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2023 23rd International Conference on Transparent Optical Networks (ICTON), 1-4		
Highlighting Cerebral Metastases Using Two-Photon Microscopy A Enache, LG Eftimie, R Hristu, AM Graur, RR Glogojeanu, M Sajin, ... 2023 23rd International Conference on Transparent Optical Networks (ICTON), 1-3		2023
Collagen Organization in Second Harmonic Generation Images for the Assessment of Thyroid Nodule Capsular Invasion R Hristu, SG Stanciu, DE Tranca, LG Eftimie, A Enache, GA Stanciu 2023 23rd International Conference on Transparent Optical Networks (ICTON), 1-4		2023
Super-Resolved Non-linear Optical Microscopy: Architectures, Advantages and Perspectives SG Stanciu, R Hristu, GA Stanciu, DE Tranca, L Eftimie, A Dumitru, ... 2023 23rd International Conference on Transparent Optical Networks (ICTON), 1-1		2023
Nanoscale local modification of PMMA refractive index by tip-enhanced femtosecond pulsed laser irradiation DE Tranca, SG Stanciu, R Hristu, AM Ionescu, GA Stanciu Applied Surface Science 623, 157014	3	2023
Imaging of colorectal adenomas with pseudoinvasion and malignant polyps using two-photon excitation microscopy MA Florea, LG Eftimie, RR Glogojeanu, R Hristu, GA Stanciu, M Costache		2023
Automated detection of corneal edema with deep learning-assisted second harmonic generation microscopy SR Anton, RM Martínez-Ojeda, R Hristu, GA Stanciu, A Toma, CK Banica, ... IEEE Journal of Selected Topics in Quantum Electronics 29 (6: Photonic …	5	2023
Toward augmenting tip-enhanced nanoscopy with optically resolved scanning probe tips J Belhassen, S Glass, E Teblum, GA Stanciu, DE Tranca, Z Zalevsky, ... Advanced Photonics Nexus 2 (2), 026002-026002	7	2023
Structural and mechanical properties of CrN thin films deposited on Si substrate by using magnetron techniques DE Tranca, A Sobetkii, R Hristu, SR Anton, E Vasile, SG Stanciu, ... Coatings 13 (2), 219	4	2023
Fighting bacterial pathogens with carbon nanotubes: focused review of recent progress M Asaftei, M Lucidi, C Cirtoaje, AM Holban, CA Charitidis, F Yang, A Wu, ... Rsc Advances 13 (29), 19682-19694	3	2023
Differential diagnosis of thyroid nodule capsules using random forest guided selection of image features LG Eftimie, RR Glogojeanu, A Tejaswee, P Gheorghita, SG Stanciu, ... Scientific Reports 12 (1), 21636	6	2022

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Super-resolution re-scan second harmonic generation microscopy SG Stanciu, R Hristu, GA Stanciu, DE Tranca, L Eftimie, A Dumitru, ... Proceedings of the National Academy of Sciences 119 (47), e2214662119	11	2022
On the Automated Detection of Corneal Edema with Second Harmonic Generation Microscopy and Deep Learning SR Anton, RM Martínez-Ojeda, R Hristu, GA Stanciu, A Toma, CK Banica, ... arXiv preprint arXiv:2210.00332		2022
Biological and Physico-Chemical Properties of Composite Layers Based on Magnesium-Doped Hydroxyapatite in Chitosan Matrix SL Iconaru, CS Ciobanu, G Predoi, K Rokosz, MC Chifiriuc, C Bleotu, ... Micromachines 13 (10), 1574	7	2022
Energy transfer and luminescent properties of Tb3+ and Tb3+, Yb3+ doped CNGG phosphors S Hau, G Stanciu, D Avram, L Gheorghe, C Gheorghe Journal of Rare Earths 40 (9), 1445-1453	13	2022
Local Refractive Index Change by Tip-Enhanced Femtosecond Laser for Surface Photonic Crystal Creation DE Tranca, R Hristu, SG Stanciu, GA Stanciu Nonlinear Photonics, NpTh2F. 4		2022
PSHG-TISS: A collection of polarization-resolved second harmonic generation microscopy images of fixed tissues R Hristu, SG Stanciu, A Dumitru, LG Eftimie, B Paun, DE Tranca, ... Scientific Data 9 (1), 376	12	2022
Combining Bright-field and Second Harmonic Generation Microscopy for the Characterization of Thyroid Nodules R Hristu, LG Eftimie, R Glogojeanu, SG Stanciu, GA Stanciu Optics, Photonics and Lasers, 26		2022
Scattering-type scanning near-field optical microscopy of polymer-coated gold nanoparticles SG Stanciu, DE Tranca, G Zampini, R Hristu, GA Stanciu, X Chen, M Liu, ... ACS omega 7 (13), 11353-11362	12	2022
Assessment of Extramammary Paget Disease by Two-Photon Microscopy R Hristu, LG Eftimie, SG Stanciu, RR Glogojeanu, P Gheorghita, ... Frontiers in Medicine 9, 839786	3	2022
Influence of hematoxylin and eosin staining on the quantitative analysis of second harmonic generation imaging of fixed tissue sections R Hristu, SG Stanciu, A Dumitru, B Paun, I Floroiu, M Costache, ... Biomedical Optics Express 12 (9), 5829-5843	20	2021
Scattering-type scanning near-field optical microscopy GA Stanciu, D Tranca, SG Stanciu, R Hristu, C Stoichita Imaging Modalities for Biological and Preclinical Research: A Compendium …		2021

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Multi-Level evaluation of UV action upon Vitamin D enhanced, silver doped hydroxyapatite thin films deposited on titanium substrate CC Negrila, D Predoi, RV Ghita, SL Iconaru, SC Ciobanu, M Manea, ... Coatings 11 (2), 120	3	2021
A macrocyclic tetra-undecyl calix [4] resorcinarene thin film receptor for chemical vapour sensor applications S Şen, F Davis, R Çapan, Z Özbek, ME Özel, GA Stanciu Journal of Inclusion Phenomena and Macrocyclic Chemistry 98, 237-247	11	2020
Pixel-level angular quantification of capsular collagen in second harmonic generation microscopy images of encapsulated thyroid nodules R Hristu, LG Eftimie, B Paun, SG Stanciu, GA Stanciu Journal of Biophotonics 13 (12), e202000262	10	2020
SSNOMBACTER: A collection of scattering-type scanning near-field optical microscopy and atomic force microscopy images of bacterial cells M Lucidi, DE Tranca, L Nichele, D Ünay, GA Stanciu, P Visca, AM Holban, ... GigaScience 9 (11), giaa129	14	2020
STED nanoscopy of KK114-stained pathogenic bacteria M Lucidi, R Hristu, L Nichele, GA Stanciu, DE Tranca, AM Holban, P Visca, ... Journal of Biophotonics 13 (9), e202000097	6	2020
Objective analysis of collagen organization in thyroid nodule capsules using second harmonic generation microscopy images and the Hough transform JM Bueno, FJ Ávila, R Hristu, SG Stanciu, L Eftimie, GA Stanciu Applied Optics 59 (23), 6925-6931	14	2020
Surface optical characterization at nanoscale using phasor representation of data acquired by scattering scanning near-field optical microscopy DE Tranca, SG Stanciu, R Hristu, L Latterini, GA Stanciu Applied Surface Science 509, 145347	4	2020
Characterization of nanomaterials by locally determining their complex permittivity with scattering-type scanning near-field optical microscopy SG Stanciu, DE Tranca, L Pastorino, S Boi, YM Song, YJ Yoo, S Ishii, ... ACS Applied Nano Materials 3 (2), 1250-1262	19	2020
A novel approach for near-field optical microscopy based on tip-enhanced fluorescence via plasmon resonance energy transfer (TEFPLASNOM) SG Stanciu, DE Tranca, G Zampini, G Quaglia, GA Stanciu, R Hristu, ... Proc. ATTRACT-Final Conf. Igniting Deep Tech Revol, 1-6	1	2020
Higher-harmonic generation microscopy beyond the diffraction barrier based on re-scan strategies for optical data acquisition (HARMOPLUS) SG Stanciu, R Hristu, DE Tranca, GA Stanciu, H Manders, A Cherian, ... Proc. ATTRACT-Final Conf.—Igniting Deep Tech Revol., 1-5	2	2020
Preparations of silver/montmorillonite biocomposite multilayers and their antifungal activity	14	2019

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SL Iconaru, A Groza, GE Stan, D Predoi, S Gaiaschi, R Trusca, ... Coatings 9 (12), 817		
Langmuir–Blodgett film properties of based on calix [4] resorcinarene and the detection of those against volatile organic compounds S Şen, R Çapan, Z Özbek, ME Özel, GA Stanciu, F Davis Applied Physics A 125 (11), 752	3	2019
Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy SG Stanciu, DE Tranca, L Pastorino, S Boi, YM Song, YJ Yoo, S Ishii, ... Fourth International Conference on Applications of Optics and Photonics …		2019
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, DE Tranca, R Hristu, SG Stanciu, ... Materials 12 (18), 3008	10	2019
Strategies for optimizing the determination of second-order nonlinear susceptibility tensor coefficients for collagen in histological samples B Paun, R Hristu, SG Stanciu, AV Dumitru, M Costache, GA Stanciu IEEE Access 7, 135210-135219	3	2019
Comparison of Vacancy Sink Efficiency of Cu/V and Cu/Nb Interfaces by the Shared Cu Layer H Chen, J Du, Y Liang, P Wang, J Huang, J Zhang, Y Zhao, X Wang, ... Materials 12 (16), 2628	2	2019
Correlative Multimodal Approach Based on Optical Near-Field and Topographic Imaging to Characterize the Morphology of ESKAPE Pathogen Bacteria at Nanoscale G Cincotti, M Lucidi, SG Stanciu, DE Tranca, AM Holban, L Nichele, ... 2019 21st International Conference on Transparent Optical Networks (ICTON), 1-1		2019
Correlative imaging using a multimodal microscopy system for investigations at micro and nano scales GA Stanciu, DE Tranca, SG Stanciu, R Hristu, C Stoichita, JM Bueno 2019 21st International Conference on Transparent Optical Networks (ICTON), 1-4	1	2019
Advances in Fractal Analysis of the Biological Tissues Images Obtained by Using Laser Scanning Microscopy A Toma, R Hristu, T Capraru, SG Stanciu, D Tranca, GA Stanciu 2019 21st International Conference on Transparent Optical Networks (ICTON), 1-4		2019
Calix [4] amine Langmuir-Blodgett thin film sensing properties against volatile organic compounds S Şen, R Çapan, Z Özbek, ME Özel, GA Stanciu, F Davis Journal of Physics: Conference Series 1186 (1), 012011	2	2019
Label-based and label-free optical nanoscopy of pathogenic bacterial species		2019

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M Lucidi, SG Stanciu, DE Tranca, R Hristu, AM Holban, L Nchele, ... Сборник трудов конференции «International Conference on Advanced Laser …		
Preliminary evaluation of the antifungal activity of samarium doped hydroxyapatite thin films CS Turculet, AM Prodan, I Negoi, G Teleanu, M Popa, E Andronescu, ... Rom. Biotechnol. Lett. 23, 13928-13932	15	2018
Modern methods for the structural characterisation of collagen in capsular invasion areas in papillary thyroid carcinoma L Eftimie, R Hristu, M Dumitrescu, M Costache, S Stanciu, M Sajin, ... VIRCHOWS ARCHIV 473, S249-S249		2018
Quantitative second harmonic generation microscopy for the structural characterization of capsular collagen in thyroid neoplasms R Hristu, LG Eftimie, SG Stanciu, DE Tranca, B Paun, M Sajin, GA Stanciu Biomedical optics express 9 (8), 3923-3936	38	2018
Imaging Biological Specimens and Advanced Materials with Correlative Far-field Near-field Microscopy SG Stanciu, DE Tranca, C Stoichita, R Hristu, GA Stanciu Conference on Lasers and Electro-Optics/Pacific Rim, Th3K. 4		2018
Nanoscale Investigations of Optical Fiber by Using Scattering Scanning Near-Field Optical Microscopy DE Tranca, C Stoichita, R Hristu, SG Stanciu, CV Sammut, GA Stanciu 2018 20th International Conference on Transparent Optical Networks (ICTON), 1-3	1	2018
Changes in the collagen structure of thyroid nodule capsules determined by polarization-resolved second harmonic generation microscopy R Hristu, B Paun, L Eftimie, SG Stanciu, DE Tranca, GA Stanciu 2018 20th International Conference on Transparent Optical Networks (ICTON), 1-4	3	2018
Modern methods to differentiate benign thyroid nodules from malignant ones L Eftimie, R Hristu, M Dumitrescu, M Costache, SG Stanciu, M Sajin, ... microscopy 121 (1)		2018
Multispectral detection of cutaneous lesions using spectroscopy and microscopy approaches E Borisova, T Genova-Hristova, P Troyanova, E Pavlova, I Terziev, ... Photonics in Dermatology and Plastic Surgery 2018 10467, 19-24	7	2018
PROGRESS IN BIOMEDICAL OPTICS AND IMAGING-PROCEEDINGS OF SPIE E Borisova, T Genova-Hristova, L Avramov, P Troyanova, E Pavlova, ...		2018
A New Technique in Scanning Near Field Optical Microscopy Used for Investigations on the Biological Samples GA Stanciu, DE Tranca, R Hristu, SG Stanciu, AM Holban, A Toma, ... 2018 20th International Conference on Transparent Optical Networks (ICTON …	3	2018

TITLU	CITAT DE	ANUL
Nanoscale mapping of refractive index by using scattering-type scanning near-field optical microscopy DE Tranca, SG Stanciu, R Hristu, BM Witgen, GA Stanciu Nanomedicine: Nanotechnology, Biology and Medicine 14 (1), 47-50	34	2018
Correlative imaging of biological tissues with apertureless scanning near-field optical microscopy and confocal laser scanning microscopy SG Stanciu, DE Tranca, R Hristu, GA Stanciu Biomedical optics express 8 (12), 5374-5383	22	2017
Confocal laser-scanning microscopy and conventional light microscopy targeting morphological changes in colorectal lesions AS Postolache, I Dumitru, SA Varban, M Sajin, G Stanciu, S Stanciu, ... VIRCHOWS ARCHIV 471, S179-S180		2017
Differential diagnosis between benign and malignant thyroid nodules using Second Harmonic Generation Microscopy LG Eftimie, R Hristu, OC Voinea, M Dumitrescu, G Stanciu, M Sajin VIRCHOWS ARCHIV 471, S69-S69		2017
Improved quantification of collagen anisotropy with polarization-resolved second harmonic generation microscopy R Hristu, SG Stanciu, DE Tranca, GA Stanciu Journal of Biophotonics 10 (9), 1171-1179	46	2017
Feasibility study of TPEF, SHG & CFM for soft tissue neoplasia analysis T Genova, E Borisova, G Stanciu, D Tranca, ... Book of abstracts, 105		2017
Identification of stacking faults in silicon carbide by polarization-resolved second harmonic generation microscopy R Hristu, SG Stanciu, DE Tranca, EK Polychroniadis, GA Stanciu Scientific Reports 7 (1), 4870	13	2017
Nanoscale imaging by using label free microscopy techniques GA Stanciu, DE Tranca, SG Stanciu, C Stoichita, R Hristu 2017 19th International Conference on Transparent Optical Networks (ICTON), 1-4		2017
Fractal analysis correlation of the images from scanning laser microscopy techniques and atomic force microscopy A Toma, DE Tranca, CV Sammut, GA Stanciu 2017 19th International Conference on Transparent Optical Networks (ICTON), 1-4	1	2017
Correlative investigations of biological specimens using label free far-field and near-field microscopy techniques SG Stanciu, JM Bueno, DE Tranca, FJ Ávila, R Hristu, GA Stanciu The European Conference on Lasers and Electro-Optics, CL_5_4	1	2017
Laser Gain Transparent Ceramics Media G Stanciu, CA Stanciu, CA Brandus, FM Voicu, T Dascalu Laser Ignition Conference, LWA5. 5	1	2017

TITLU	CITAT DE	ANUL
Nonlinear optical microscopy for investigation of gastrointestinal lesions T Genova, E Borisova, G Stanciu, D Tranca, I Terziev, N Penkov, ... 19th International Conference and School on Quantum Electronics: Laser …		2017
Properties of samarium doped hydroxyapatite thin films deposited by evaporation SL Iconaru, GA Stanciu, R Hristu, RV Ghita Rom. Rep. Phys 69, 508	10	2017
Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules SG Stanciu, DE Tranca, C Ruggiero, GA Stanciu, E Dellacasa, A Antipov, ... Materials Letters 183, 105-108	12	2016
Nonlinear optical effects used for investigations on biological samples at micro and nanoscale GA Stanciu, DE Tranca, R Hristu, SG Stanciu, C Stoichita, A Toma 2016 18th International Conference on Transparent Optical Networks (ICTON), 1-3	3	2016
Bag-of-features approaches for combined classification of laser scanning microscopy and spectroscopy data sets SG Stanciu, R Boriga, AC Dascalescu, R Hristu, GA Stanciu 2016 International Conference Laser Optics (LO), S2-13-S2-13		2016
Perspectives on combining Nonlinear Laser Scanning Microscopy and Bag-of-Features data classification strategies for automated disease diagnostics SG Stanciu, DE Tranca, GA Stanciu, R Hristu, JM Bueno Optical and Quantum Electronics 48, 1-13	5	2016
Mapping electron-beam-injected trapped charge with scattering scanning near-field optical microscopy DE Tranca, E Sánchez-Ortiga, G Saavedra, M Martínez-Corral, SAM Tofail, ... Optics Letters 41 (5), 1046-1049	7	2016
Enamel based composite layers deposited on titanium substrate with antifungal activity SL Iconaru, AM Prodan, CS Turculet, M Beuran, RV Ghita, A Costescu, ... Journal of Spectroscopy 2016	19	2016
STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF Sr0. 5Ba0. 5Nb2O6 THIN FILMS DEPOSITED BY RF-PLD TECHNIQUE ON Pt: Si AND MgO SUBSTRATES G Stanciu, ND Scarisoreanu, R Birjega, A Moldovan, E Andronescu, ... UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY …		2016
Amplitude and phase reconstruction issues in scattering scanning near-field optical microscopy D Tranca, SG Stanciu, R Hristu, C Stoichita, GA Stanciu Sci. Bull. Politeh. Univ. Bucharest Ser. A 78, 253-262	2	2016

TITLU	CITAT DE	ANUL
Towards imaging skin cancer by aperture less scanning near-field optical microscopy SG Stanciu, M Costache, DE Tranca, R Hristu, M Popescu, V Enache, ... University Politehnica of Bucharest Scientific Bulletin-Series A-Applied …	6	2016
TOWARDS IMAGING SKIN CANCER BY APERTURELESS SCANNING NEAR-FIELD OPTICAL MICROSCOPY G Stefan, M COSTACHE, DE TRANCA, R HRISTU, M POPESCU, ... U.P.B. Sci. Bull., Series A 78 (2)		2016
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