

Radu Hristu

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

909
citations

471509

17
h-index

526287

27
g-index

81
all docs

81
docs citations

81
times ranked

1076
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A comparative study of corrosion inhibitors on hot-dip galvanized steel. <i>Corrosion Science</i> , 2016, 112, 289-307. | 6.6 | 90 |
| 2 | Evaluation of the protective ability of typical corrosion inhibitors for magnesium alloys towards the Mg ZK30 variant. <i>Corrosion Science</i> , 2015, 100, 194-208. | 6.6 | 54 |
| 3 | Inhibitory Activity of Fe_3O_4 /Oleic Acid/Usnic Acid@Core/Shell/Extra-Shell Nanofluid on <i>S. aureus</i> Biofilm Development. <i>IEEE Transactions on Nanobioscience</i> , 2011, 10, 269-274. | 3.3 | 53 |
| 4 | Efficiency of Vanilla, Patchouli and Ylang Ylang Essential Oils Stabilized by Iron Oxide@C14 Nanostructures against Bacterial Adherence and Biofilms Formed by <i>Staphylococcus aureus</i> and <i>Klebsiella pneumoniae</i> Clinical Strains. <i>Molecules</i> , 2014, 19, 17943-17956. | 3.8 | 49 |
| 5 | Improved quantification of collagen anisotropy with polarization-resolved second harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2017, 10, 1171-1179. | 2.3 | 38 |
| 6 | Hybrid Nanomaterial for Stabilizing the Antibiofilm Activity of <i>Eugenia caryophyllata</i> Essential Oil. <i>IEEE Transactions on Nanobioscience</i> , 2012, 11, 360-365. | 3.3 | 36 |
| 7 | Antimicrobial Activity Evaluation on Silver Doped Hydroxyapatite/Polydimethylsiloxane Composite Layer. <i>BioMed Research International</i> , 2015, 2015, 1-13. | 1.9 | 36 |
| 8 | Quantitative second harmonic generation microscopy for the structural characterization of capsular collagen in thyroid neoplasms. <i>Biomedical Optics Express</i> , 2018, 9, 3923. | 2.9 | 31 |
| 9 | The influence of the surface morphologies of Langmuir Blodgett (LB) thin films of porphyrins on their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 62-68. | 7.8 | 30 |
| 10 | High-resolution quantitative determination of dielectric function by using scattering scanning near-field optical microscopy. <i>Scientific Reports</i> , 2015, 5, 11876. | 3.3 | 28 |
| 11 | Magnetic chitosan for drug targeting and in vitro drug delivery response. <i>Biointerface Research in Applied Chemistry</i> , 2011, 1, 160-165. | 1.0 | 27 |
| 12 | Nanoscale mapping of refractive index by using scattering-type scanning near-field optical microscopy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 47-50. | 3.3 | 26 |
| 13 | Structural characterization and adhesion appraisal of TiN and TiCN coatings deposited by CAE-PVD technique on a new carbide composite cutting tool. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2576-2589. | 2.6 | 25 |
| 14 | A Study on Image Quality in Polarization-Resolved Second Harmonic Generation Microscopy. <i>Scientific Reports</i> , 2017, 7, 15476. | 3.3 | 24 |
| 15 | Multiphoton microscopy of the dermoepidermal junction and automated identification of dysplastic tissues with deep learning. <i>Biomedical Optics Express</i> , 2020, 11, 186. | 2.9 | 21 |
| 16 | Correlative imaging of biological tissues with apertureless scanning near-field optical microscopy and confocal laser scanning microscopy. <i>Biomedical Optics Express</i> , 2017, 8, 5374. | 2.9 | 19 |
| 17 | A study on the image contrast of pseudo-heterodyned scattering scanning near-field optical microscopy. <i>Optics Express</i> , 2014, 22, 1687. | 3.4 | 17 |
| 18 | Nonlinear optical imaging of defects in cubic silicon carbide epilayers. <i>Scientific Reports</i> , 2014, 4, 5258. | 3.3 | 17 |

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|----|--|-----|-----------|
| 19 | Enamel Based Composite Layers Deposited on Titanium Substrate with Antifungal Activity. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-13. | 1.3 | 17 |
| 20 | On the Suitability of SIFT Technique to Deal with Image Modifications Specific to Confocal Scanning Laser Microscopy. <i>Microscopy and Microanalysis</i> , 2010, 16, 515-530. | 0.4 | 14 |
| 21 | Influence of Confocal Scanning Laser Microscopy specific acquisition parameters on the detection and matching of Speeded-Up Robust Features. <i>Ultramicroscopy</i> , 2011, 111, 364-374. | 1.9 | 14 |
| 22 | Preparations of Silver/Montmorillonite Biocomposite Multilayers and Their Antifungal Activity. <i>Coatings</i> , 2019, 9, 817. | 2.6 | 14 |
| 23 | Characterization of Nanomaterials by Locally Determining Their Complex Permittivity with Scattering-Type Scanning Near-Field Optical Microscopy. <i>ACS Applied Nano Materials</i> , 2020, 3, 1250-1262. | 5.0 | 14 |
| 24 | The interaction between the gas sensing and surface morphology properties of LB thin films of porphyrins in terms of the adsorption kinetics. <i>Materials Chemistry and Physics</i> , 2012, 136, 1130-1136. | 4.0 | 11 |
| 25 | Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules. <i>Materials Letters</i> , 2016, 183, 105-108. | 2.6 | 11 |
| 26 | SSNOMBACTER: A collection of scattering-type scanning near-field optical microscopy and atomic force microscopy images of bacterial cells. <i>GigaScience</i> , 2020, 9, . | 6.4 | 11 |
| 27 | Influence of atomic force microscopy acquisition parameters on thin film roughness analysis. <i>Microscopy Research and Technique</i> , 2012, 75, 921-927. | 2.2 | 10 |
| 28 | Identification of stacking faults in silicon carbide by polarization-resolved second harmonic generation microscopy. <i>Scientific Reports</i> , 2017, 7, 4870. | 3.3 | 10 |
| 29 | Objective analysis of collagen organization in thyroid nodule capsules using second harmonic generation microscopy images and the Hough transform. <i>Applied Optics</i> , 2020, 59, 6925. | 1.8 | 10 |
| 30 | Surface Charge and Carbon Contamination on an Electron-Beam-Irradiated Hydroxyapatite Thin Film Investigated by Photoluminescence and Phase Imaging in Atomic Force Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 586-595. | 0.4 | 9 |
| 31 | Influence of hematoxylin and eosin staining on the quantitative analysis of second harmonic generation imaging of fixed tissue sections. <i>Biomedical Optics Express</i> , 2021, 12, 5829. | 2.9 | 9 |
| 32 | Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms. <i>Current Organic Chemistry</i> , 2013, 17, 1023-1028. | 1.6 | 9 |
| 33 | Scattering-type Scanning Near-Field Optical Microscopy of Polymer-Coated Gold Nanoparticles. <i>ACS Omega</i> , 2022, 7, 11353-11362. | 3.5 | 9 |
| 34 | Electron beam influence on the carbon contamination of electron irradiated hydroxyapatite thin films. <i>Applied Surface Science</i> , 2015, 346, 342-347. | 6.1 | 8 |
| 35 | Mapping electron-beam-injected trapped charge with scattering scanning near-field optical microscopy. <i>Optics Letters</i> , 2016, 41, 1046. | 3.3 | 7 |
| 36 | Growth Mechanisms and the Effects of Deposition Parameters on the Structure and Properties of High Entropy Film by Magnetron Sputtering. <i>Materials</i> , 2019, 12, 3008. | 2.9 | 7 |

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|----|---|-----|-----------|
| 37 | Pixel-level angular quantification of capsular collagen in second harmonic generation microscopy images of encapsulated thyroid nodules. <i>Journal of Biophotonics</i> , 2020, 13, e202000262. | 2.3 | 7 |
| 38 | Investigation on Photonic-Corral-Mode Quantum Ring Lasers by Laser Scanning Microscopy. , 2008, , . | | 6 |
| 39 | Two Photon Emission and Nonlinear Optical Imaging of Acetonitrile-Treated Quasi-Spherical Nanoscale PbS Systems. <i>IEEE Photonics Journal</i> , 2010, 2, 1060-1068. | 2.0 | 6 |
| 40 | Perspectives on combining Nonlinear Laser Scanning Microscopy and Bag-of-Features data classification strategies for automated disease diagnostics. <i>Optical and Quantum Electronics</i> , 2016, 48, 1. | 3.3 | 5 |
| 41 | <sc>STED</sc> nanoscopy of <sc>KK114</sc>-stained pathogenic bacteria. <i>Journal of Biophotonics</i> , 2020, 13, e202000097. | 2.3 | 5 |
| 42 | PSHG-TISS: A collection of polarization-resolved second harmonic generation microscopy images of fixed tissues. <i>Scientific Data</i> , 2022, 9, . | 5.3 | 5 |
| 43 | Optical beam induced current microscopy of photonic quantum ring lasers. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 653-657. | 2.2 | 4 |
| 44 | Digital image inpainting and microscopy imaging. <i>Microscopy Research and Technique</i> , 2011, 74, 1049-1057. | 2.2 | 4 |
| 45 | Investigations on SiC by using nonlinear effects in scanning laser microscopy. , 2011, , . | | 4 |
| 46 | The inhibitory activity of pomelo essential oil on the bacterial biofilms development on soft contact lenses. <i>Roumanian Archives of Microbiology and Immunology</i> , 2010, 69, 145-52. | 0.3 | 4 |
| 47 | Near field investigation based on a novel apertureless near field optical microscope. , 2009, , . | | 3 |
| 48 | Nonlinear optical effects used for investigations on biological samples at micro and nanoscale. , 2016, , . | | 3 |
| 49 | Changes in the Collagen Structure of Thyroid Nodule Capsules Determined by Polarization-Resolved Second Harmonic Generation Microscopy. , 2018, , . | | 3 |
| 50 | Strategies for Optimizing the Determination of Second-Order Nonlinear Susceptibility Tensor Coefficients for Collagen in Histological Samples. <i>IEEE Access</i> , 2019, 7, 135210-135219. | 4.2 | 3 |
| 51 | Surface optical characterization at nanoscale using phasor representation of data acquired by scattering scanning near-field optical microscopy. <i>Applied Surface Science</i> , 2020, 509, 145347. | 6.1 | 3 |
| 52 | Multi-Level Evaluation of UV Action upon Vitamin D Enhanced, Silver Doped Hydroxyapatite Thin Films Deposited on Titanium Substrate. <i>Coatings</i> , 2021, 11, 120. | 2.6 | 3 |
| 53 | Characterization of <i>Acinetobacter baumannii</i> Filamentous Cells by Re-Scan Confocal Microscopy and Complementary Fluorometric Approaches. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-7. | 2.9 | 3 |
| 54 | Gas Sensing Properties of Porphyrin Thin Films Influenced by Their Surface Morphologies. <i>Sensor Letters</i> , 2014, 12, 1218-1227. | 0.4 | 3 |

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|----|--|-----|-----------|
| 55 | Photonic-Corral-Mode Quantum Ring Lasers investigated by Laser Scanning Microscopy and Near Field Microscopy. , 2008, , . | | 2 |
| 56 | Hydroxyapatite surface charge investigated by scanning probe microscopy. , 2014, , . | | 2 |
| 57 | Bags of features for classification of Laser Scanning Microscopy data. , 2015, , . | | 2 |
| 58 | Embedding complementary imaging data in laser scanning microscopy micrographs by reversible watermarking. Biomedical Optics Express, 2016, 7, 1127. | 2.9 | 2 |
| 59 | A New Technique in Scanning Near Field Optical Microscopy Used for Investigations on the Biological Samples. , 2018, , . | | 2 |
| 60 | Assessment of Extramammary Paget Disease by Two-Photon Microscopy. Frontiers in Medicine, 2022, 9, 839786. | 2.6 | 2 |
| 61 | Image fusion for photonic quantum ring laser structures investigated by confocal scanning laser microscopy. , 2009, , . | | 1 |
| 62 | Metallic samples investigated by using a scattering near field optical microscope. , 2012, , . | | 1 |
| 63 | Investigations at nanoscale by using fluorescence in apertureless scanning near field microscopy. , 2013, , . | | 1 |
| 64 | Investigations on organic fluorophore doped silica nanoparticles by apertureless scanning near-field optical microscopy. , 2014, , . | | 1 |
| 65 | Correlative investigations of biological specimens using label free far-field and near-field microscopy techniques. , 2017, , . | | 1 |
| 66 | Towards Automated Tissue Characterization Using Parallel Bag-of-Features Experts Dealing with Two-Photon Excitation Fluorescence and Second Harmonic Generation Microscopy Datasets. , 2018, , . | | 1 |
| 67 | Nanoscale Investigations of Optical Fiber by Using Scattering Scanning Near-Field Optical Microscopy. , 2018, , . | | 1 |
| 68 | Correlative Imaging Using a Multimodal Microscopy System for Investigations at Micro and Nano Scales. , 2019, , . | | 1 |
| 69 | Investigation on CdS: Mn quantum dots using scanning laser microscopy. , 2007, , . | | 0 |
| 70 | Feature based recognition of photonic devices in images obtained by confocal scanning laser microscopy. , 2009, , . | | 0 |
| 71 | Optical induced current technique used to investigate the photonic quantum ring laser. , 2010, , . | | 0 |
| 72 | Two-photon excited photoluminescence of photonic quantum ring laser structures. Applied Physics B: Lasers and Optics, 2012, 107, 97-101. | 2.2 | 0 |

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|----|--|----|-----------|
| 73 | On packing laser scanning microscopy images by reversible watermarking: A case study. , 2015, , . | | 0 |
| 74 | Bag-of-features approaches for combined classification of laser scanning microscopy and spectroscopy data sets. , 2016, , . | | 0 |
| 75 | Nanoscale imaging by using label free microscopy techniques. , 2017, , . | | 0 |
| 76 | Advances in Fractal Analysis of the Biological Tissues Images Obtained by Using Laser Scanning Microscopy. , 2019, , . | | 0 |
| 77 | Investigating Human Skin Using Deep Learning Enhanced Multiphoton Microscopy. , 2019, , . | | 0 |
| 78 | Imaging Biological Specimens and Advanced Materials with Correlative Far-field Near-field Microscopy. , 2018, , . | | 0 |
| 79 | Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy. , 2019, , . | | 0 |