

George A Stanciu

List of Publications by Year in descending order

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117
papers

1,059
citations

471509

17
h-index

526287

27
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118
all docs

118
docs citations

118
times ranked

1345
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimenting Liver Fibrosis Diagnostic by Two Photon Excitation Microscopy and Bag-of-Features Image Classification. <i>Scientific Reports</i> , 2014, 4, 4636.	3.3	55
2	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
3	Corrosion resistance appraisal of TiN, TiCN and TiAlN coatings deposited by CAE-PVD method on WC-Co cutting tools exposed to artificial sea water. <i>Applied Surface Science</i> , 2015, 358, 572-578.	6.1	52
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	Characterization of Langmuir-Blodgett films of a calix[8]arene and sensing properties towards volatile organic vapors. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 358-365.	7.8	48
6	Improved quantification of collagen anisotropy with polarization-resolved second harmonic generation microscopy. <i>Journal of Biophotonics</i> , 2017, 10, 1171-1179.	2.3	38
7	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
8	Antimicrobial Activity Evaluation on Silver Doped Hydroxyapatite/Polydimethylsiloxane Composite Layer. <i>BioMed Research International</i> , 2015, 2015, 1-13.	1.9	36
9	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
10	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
11	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
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	Pulsed laser deposition of lead-free $(\text{Na}_0.5\text{Bi}_{0.5})_{1-x}\text{Ba}_x\text{TiO}_3$ ferroelectric thin films with enhanced dielectric properties. <i>Applied Surface Science</i> , 2013, 278, 162-165.	6.1	24
15	Nanostructured bioglass thin films synthesized by pulsed laser deposition: CSLM, FTIR investigations and in vitro biotests. <i>Applied Surface Science</i> , 2008, 255, 3056-3062.	6.1	23
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	Automated compensation of light attenuation in confocal microscopy by exact histogram specification. <i>Microscopy Research and Technique</i> , 2010, 73, 165-175.	2.2	17
18	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

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19	Nonlinear optical imaging of defects in cubic silicon carbide epilayers. <i>Scientific Reports</i> , 2014, 4, 5258.	3.3	17
20	Optical properties of Sm ³⁺ doped strontium hexa-aluminate single crystals. <i>Journal of Alloys and Compounds</i> , 2015, 622, 296-302.	5.5	17
21	Enamel Based Composite Layers Deposited on Titanium Substrate with Antifungal Activity. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-13.	1.3	17
22	Highly transparent Yb:Y ₂ O ₃ ceramics obtained by solid-state reaction and combined sintering procedures. <i>Ceramics International</i> , 2019, 45, 3217-3222.	4.8	17
23	Structural and optical properties of Mn doped ZnS semiconductor nanostructures. <i>Indian Journal of Physics</i> , 2010, 84, 1361-1367.	1.8	15
24	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
25	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
26	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
27	Incongruent Melting La _x Y _y Sc _{4-x-y} (BO ₃) ₄ :LYSB Nonlinear Optical Crystal Grown by the Czochralski Method. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20987-20994.	8.0	13
28	Electrochemical stability and surface analysis in evaluation fluoride effect on new bioalloy Ti ₇ Al ₃ V ₂ Mo ₂ Fe used in dentistry. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 1111-1116.	1.5	11
29	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
30	Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules. <i>Materials Letters</i> , 2016, 183, 105-108.	2.6	11
31	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
32	Scanning probe microscopy, luminescence and third harmonic generation studies of elongated CdS:Mn nanostructures developed by energetic oxygen-ion-impact. <i>EPJ Applied Physics</i> , 2006, 35, 29-36.	0.7	10
33	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
34	Identification of stacking faults in silicon carbide by polarization-resolved second harmonic generation microscopy. <i>Scientific Reports</i> , 2017, 7, 4870.	3.3	10
35	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
36	Detector array incorporated optical scattering instrument for nephelometric measurements on small particles. <i>Measurement Science and Technology</i> , 2009, 20, 095901.	2.6	9

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37	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
38	Bifunctional $\text{La}_x\text{Nd}_y\text{Gd}_z\text{Sc}_{4-x-y-z}(\text{BO}_3)_4$ crystal: Czochralski growth, linear and nonlinear optical properties, and near-infrared laser emission performances. <i>Optics and Laser Technology</i> , 2020, 131, 106433.	4.6	9
39	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
40	Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms. <i>Current Organic Chemistry</i> , 2013, 17, 1023-1028.	1.6	9
41	Scattering-type Scanning Near-Field Optical Microscopy of Polymer-Coated Gold Nanoparticles. <i>ACS Omega</i> , 2022, 7, 11353-11362.	3.5	9
42	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
43	Pyramidal growth of ceria nanostructures by pulsed laser deposition. <i>Applied Surface Science</i> , 2016, 363, 245-251.	6.1	8
44	Spectroscopic investigations of Pr^{3+} ions doped CNGG and CLNGG single crystals. <i>Journal of Alloys and Compounds</i> , 2019, 799, 288-301.	5.5	8
45	Characterization of a Novel 1,3-Bis(<i>p</i> -iminobenzoic acid)indane Langmuir-Blodgett Film for Organic Vapor Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1108-1112.	0.9	7
46	Mapping electron-beam-injected trapped charge with scattering scanning near-field optical microscopy. <i>Optics Letters</i> , 2016, 41, 1046.	3.3	7
47	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
48	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
49	Formation of Langmuir-Blodgett thin film of a novel N-dodecylphthalimide. <i>Materials Letters</i> , 2006, 60, 2371-2374.	2.6	6
50	Investigation on Photonic-Corral-Mode Quantum Ring Lasers by Laser Scanning Microscopy. , 2008, , .		6
51	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
52	Improving the Properties of CdS Nanoparticles by Adding Polymers. <i>Particulate Science and Technology</i> , 2011, 29, 229-241.	2.1	5
53	Blue light production by type-I non-critical phase matching second-harmonic generation in $\text{La}(\text{Ca}_{1-x}\text{Sr}_x)_4\text{O}(\text{BO}_3)_3$ single crystals. <i>CrystEngComm</i> , 2015, 17, 4098-4101.	2.6	5
54	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

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55	PSHG-TISS: A collection of polarization-resolved second harmonic generation microscopy images of fixed tissues. Scientific Data, 2022, 9, .	5.3	5
56	Vapour growth and characterization of HgBr ₂ crystals using confocal laser scanning microscopy, optical spectroscopy and DC conductivity measurements. Journal Physics D: Applied Physics, 1999, 32, 1928-1933.	2.8	4
57	Optical beam induced current microscopy of photonic quantum ring lasers. Applied Physics B: Lasers and Optics, 2011, 103, 653-657.	2.2	4
58	Digital image inpainting and microscopy imaging. Microscopy Research and Technique, 2011, 74, 1049-1057.	2.2	4
59	Investigations on SiC by using nonlinear effects in scanning laser microscopy. , 2011, , .		4
60	Multispectral detection of cutaneous lesions using spectroscopy and microscopy approaches. , 2018, , .		4
61	Near field investigation based on a novel apertureless near field optical microscope. , 2009, , .		3
62	Construction of a multidetector array incorporated laser-based scattering system for ultrafine TiO ₂ characterization. Journal of Optics (India), 2009, 38, 67-74.	1.7	3
63	Automatic estimation of stacking fault density in SiC specimens imaged by transmission electron microscopy. , 2011, , .		3
64	Nonlinear optical effects used for investigations on biological samples at micro and nanoscale. , 2016, , .		3
65	Changes in the Collagen Structure of Thyroid Nodule Capsules Determined by Polarization-Resolved Second Harmonic Generation Microscopy. , 2018, , .		3
66	Comparison of Vacancy Sink Efficiency of Cu/V and Cu/Nb Interfaces by the Shared Cu Layer. Materials, 2019, 12, 2628.	2.9	3
67	Langmuir-Blodgett film properties of based on calix[4]resorcinarene and the detection of those against volatile organic compounds. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	3
68	Strategies for Optimizing the Determination of Second-Order Nonlinear Susceptibility Tensor Coefficients for Collagen in Histological Samples. IEEE Access, 2019, 7, 135210-135219.	4.2	3
69	Surface optical characterization at nanoscale using phasor representation of data acquired by scattering scanning near-field optical microscopy. Applied Surface Science, 2020, 509, 145347.	6.1	3
70	Multi-Level Evaluation of UV Action upon Vitamin D Enhanced, Silver Doped Hydroxyapatite Thin Films Deposited on Titanium Substrate. Coatings, 2021, 11, 120.	2.6	3
71	Gas Sensing Properties of Porphyrin Thin Films Influenced by Their Surface Morphologies. Sensor Letters, 2014, 12, 1218-1227.	0.4	3
72	Growth and characterization of 3.5 at.% Nd:LGSB bifunctional crystal. Optical Materials, 2022, 123, 111832.	3.6	3

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73	Investigation of HgBr x I 2-x using confocal laser scanning microscopy and x-ray diffraction. , 1998, 3405, 241.		2
74	Photonic-Corral-Mode Quantum Ring Lasers investigated by Laser Scanning Microscopy and Near Field Microscopy. , 2008, , .		2
75	Tunneling at emitter periphery in silicon nitride passivated InP/InGaAs HBTs. , 2008, , .		2
76	Hydroxyapatite surface charge investigated by scanning probe microscopy. , 2014, , .		2
77	Bags of features for classification of Laser Scanning Microscopy data. , 2015, , .		2
78	A New Technique in Scanning Near Field Optical Microscopy Used for Investigations on the Biological Samples. , 2018, , .		2
79	(INVITED) Czochralski-grown $\text{La}_x\text{Gd}_y\text{RzSc}_{4-x-y-z}(\text{BO}_3)_4$ (R = Yb, Nd) crystals - A review of recent developments. Optical Materials: X, 2020, 7, 100052.	0.8	2
80	Assessment of Extramammary Paget Disease by Two-Photon Microscopy. Frontiers in Medicine, 2022, 9, 839786.	2.6	2
81	<title>Nanometrology of microsystems: traceability problem in nanometrology</title>. , 2007, , .		1
82	Image fusion for photonic quantum ring laser structures investigated by confocal scanning laser microscopy. , 2009, , .		1
83	Metallic samples investigated by using a scattering near field optical microscope. , 2012, , .		1
84	Growth of CdS nanoparticles in Y- and Z-type Langmuir-Blodgett thin film using 1,3-bis-(p-iminobenzoic) Tj ETQq0.0 0 rgBT ₁ /Overlock	2.2	1
85	Investigations at nanoscale by using fluorescence in apertureless scanning near field microscopy. , 2013, , .		1
86	Investigations on organic fluorophore doped silica nanoparticles by apertureless scanning near-field optical microscopy. , 2014, , .		1
87	Fractal analysis correlation of the images from scanning laser microscopy techniques and atomic force microscopy. , 2017, , .		1
88	Correlative investigations of biological specimens using label free far-field and near-field microscopy techniques. , 2017, , .		1
89	Nanoscale Investigations of Optical Fiber by Using Scattering Scanning Near-Field Optical Microscopy. , 2018, , .		1
90	Calix[4]amine Langmuir-Blodgett thin film sensing properties against volatile organic compounds. Journal of Physics: Conference Series, 2019, 1186, 012011.	0.4	1

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91	Correlative Imaging Using a Multimodal Microscopy System for Investigations at Micro and Nano Scales. , 2019, , .		1
92	Matching DSIFT Descriptors Extracted from CSLM Images. Engineering, 2013, 05, 199-202.	0.8	1
93	Pr:LGSB as a new nonlinear optical crystal: Czochralski growth and optical characterization. Journal of Alloys and Compounds, 2022, 908, 164633.	5.5	1
94	<title>3D images used in the localization of the defects in semiconductor devices</title>. , 1994, 2184, 127.		0
95	<title>Display and analysis of 2D and 3D images obtained on semiconductor devices using a laser scanner</title>. , 1994, 2337, 78.		0
96	Nonlinear conduction in platinum nanoparticle films. , 0, , .		0
97	Investigations on the variable large bandgap semiconductor compound HgBrI. Journal Physics D: Applied Physics, 2003, 36, 2714-2718.	2.8	0
98	Surface investigations on HgBr₂ single crystals by using confocal scanning laser microscopy. Scanning, 2000, 22, 182-186.	1.5	0
99	Atomic force microscopy analysis of orientation effect on InP-based heterojunction bipolar transistors. , 2007, , .		0
100	Investigation on CdS: Mn quantum dots using scanning laser microscopy. , 2007, , .		0
101	<title>Study of hydroxyl carbonate apatite formation on bioactive glass coated dental ceramics by confocal laser scanning microscopy (CLSM)</title>. , 2007, , .		0
102	Chromium Doped ZnS Nanostructures: Structural and Optical Characteristics. , 2009, , .		0
103	Scanning laser microscopy: From far field to near field. , 2009, , .		0
104	Feature based recognition of photonic devices in images obtained by confocal scanning laser microscopy. , 2009, , .		0
105	Optical induced current technique used to investigate the photonic quantum ring laser. , 2010, , .		0
106	Two-photon excited photoluminescence of photonic quantum ring laser structures. Applied Physics B: Lasers and Optics, 2012, 107, 97-101.	2.2	0
107	On packing laser scanning microscopy images by reversible watermarking: A case study. , 2015, , .		0
108	Bag-of-features approaches for combined classification of laser scanning microscopy and spectroscopy data sets. , 2016, , .		0

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109	Transparent Nd doped YAG ceramics. Journal of Physics: Conference Series, 2016, 741, 012074.	0.4	0
110	Nonlinear optical microscopy for investigation of gastrointestinal lesions. Proceedings of SPIE, 2017, , .	0.8	0
111	Nanoscale imaging by using label free microscopy techniques. , 2017, , .		0
112	Advances in Fractal Analysis of the Biological Tissues Images Obtained by Using Laser Scanning Microscopy. , 2019, , .		0
113	Advanced NLO Crystals for Efficient Blue Laser Sources Based on SHG Processes. , 2015, , .		0
114	Laser Gain Transparent Ceramics Media. , 2017, , .		0
115	Imaging Biological Specimens and Advanced Materials with Correlative Far-field Near-field Microscopy. , 2018, , .		0
116	Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy. , 2019, , .		0
117	LYSB and Yb-doped LYSB Crystals: Czochralski Growth, Optical Characterization and Laser Emission Performances. , 2021, , .		0