

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
g-index

118
all docs

118
docs citations

118
times ranked

1345
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and characterization of 3.5 at.% Nd:LGsB bifunctional crystal. <i>Optical Materials</i> , 2022, 123, 111832.	3.6	3
2	Assessment of Extramammary Paget Disease by Two-Photon Microscopy. <i>Frontiers in Medicine</i> , 2022, 9, 839786.	2.6	2
3	Scattering-type Scanning Near-Field Optical Microscopy of Polymer-Coated Gold Nanoparticles. <i>ACS Omega</i> , 2022, 7, 11353-11362.	3.5	9
4	Pr:LGsB as a new nonlinear optical crystal: Czochralski growth and optical characterization. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164633.	5.5	1
5	PSHG-TISS: A collection of polarization-resolved second harmonic generation microscopy images of fixed tissues. <i>Scientific Data</i> , 2022, 9, .	5.3	5
6	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
7	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
8	LYsB and Yb-doped LYsB Crystals: Czochralski Growth, Optical Characterization and Laser Emission Performances. , 2021, , .		0
9	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
10	(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. <i>Optical Materials: X</i> , 2020, 7, 100052.	0.8	2
11	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
12	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
13	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
14	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
15	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
16	Calix[4]amine Langmuir-Blodgett thin film sensing properties against volatile organic compounds. <i>Journal of Physics: Conference Series</i> , 2019, 1186, 012011.	0.4	1
17	Comparison of Vacancy Sink Efficiency of Cu/V and Cu/Nb Interfaces by the Shared Cu Layer. <i>Materials</i> , 2019, 12, 2628.	2.9	3
18	Langmuir-Blodgett film properties of based on calix[4]resorcinarene and the detection of those against volatile organic compounds. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	3

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19	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
20	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
21	Incongruent Melting $\text{La}_{1-x}\text{Y}_x\text{Sc}_{4-x-y}(\text{BO}_3)_4$: LYSB Nonlinear Optical Crystal Grown by the Czochralski Method. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20987-20994.	8.0	13
22	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
23	Advances in Fractal Analysis of the Biological Tissues Images Obtained by Using Laser Scanning Microscopy. , 2019, , .		0
24	Correlative Imaging Using a Multimodal Microscopy System for Investigations at Micro and Nano Scales. , 2019, , .		1
25	Highly transparent $\text{Yb}:\text{Y}_2\text{O}_3$ ceramics obtained by solid-state reaction and combined sintering procedures. <i>Ceramics International</i> , 2019, 45, 3217-3222.	4.8	17
26	Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy. , 2019, , .		0
27	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
28	A New Technique in Scanning Near Field Optical Microscopy Used for Investigations on the Biological Samples. , 2018, , .		2
29	Nanoscale Investigations of Optical Fiber by Using Scattering Scanning Near-Field Optical Microscopy. , 2018, , .		1
30	Changes in the Collagen Structure of Thyroid Nodule Capsules Determined by Polarization-Resolved Second Harmonic Generation Microscopy. , 2018, , .		3
31	Multispectral detection of cutaneous lesions using spectroscopy and microscopy approaches. , 2018, , .		4
32	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
33	Imaging Biological Specimens and Advanced Materials with Correlative Far-field Near-field Microscopy. , 2018, , .		0
34	Nonlinear optical microscopy for investigation of gastrointestinal lesions. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
35	Nanoscale imaging by using label free microscopy techniques. , 2017, , .		0
36	Fractal analysis correlation of the images from scanning laser microscopy techniques and atomic force microscopy. , 2017, , .		1

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37	Identification of stacking faults in silicon carbide by polarization-resolved second harmonic generation microscopy. Scientific Reports, 2017, 7, 4870.	3.3	10
38	Improved quantification of collagen anisotropy with polarization-resolved second harmonic generation microscopy. Journal of Biophotonics, 2017, 10, 1171-1179.	2.3	38
39	Correlative investigations of biological specimens using label free far-field and near-field microscopy techniques. , 2017, , .		1
40	Correlative imaging of biological tissues with apertureless scanning near-field optical microscopy and confocal laser scanning microscopy. Biomedical Optics Express, 2017, 8, 5374.	2.9	19
41	Laser Gain Transparent Ceramics Media. , 2017, , .		0
42	Enamel Based Composite Layers Deposited on Titanium Substrate with Antifungal Activity. Journal of Spectroscopy, 2016, 2016, 1-13.	1.3	17
43	Perspectives on combining Nonlinear Laser Scanning Microscopy and Bag-of-Features data classification strategies for automated disease diagnostics. Optical and Quantum Electronics, 2016, 48, 1.	3.3	5
44	Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules. Materials Letters, 2016, 183, 105-108.	2.6	11
45	Nonlinear optical effects used for investigations on biological samples at micro and nanoscale. , 2016, , .		3
46	Bag-of-features approaches for combined classification of laser scanning microscopy and spectroscopy data sets. , 2016, , .		0
47	Transparent Nd doped YAG ceramics. Journal of Physics: Conference Series, 2016, 741, 012074.	0.4	0
48	Pyramidal growth of ceria nanostructures by pulsed laser deposition. Applied Surface Science, 2016, 363, 245-251.	6.1	8
49	Mapping electron-beam-injected trapped charge with scattering scanning near-field optical microscopy. Optics Letters, 2016, 41, 1046.	3.3	7
50	On packing laser scanning microscopy images by reversible watermarking: A case study. , 2015, , .		0
51	Antimicrobial Activity Evaluation on Silver Doped Hydroxyapatite/Polydimethylsiloxane Composite Layer. BioMed Research International, 2015, 2015, 1-13.	1.9	36
52	Bags of features for classification of Laser Scanning Microscopy data. , 2015, , .		2
53	High-resolution quantitative determination of dielectric function by using scattering scanning near-field optical microscopy. Scientific Reports, 2015, 5, 11876.	3.3	28
54	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. CrystEngComm, 2015, 17, 4098-4101.	2.6	5

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55	Electron beam influence on the carbon contamination of electron irradiated hydroxyapatite thin films. Applied Surface Science, 2015, 346, 342-347.	6.1	8
56	Corrosion resistance appraisal of TiN, TiCN and TiAlN coatings deposited by CAE-PVD method on WC-Co cutting tools exposed to artificial sea water. Applied Surface Science, 2015, 358, 572-578.	6.1	52
57	Structural characterization and adhesion appraisal of TiN and TiCN coatings deposited by CAE-PVD technique on a new carbide composite cutting tool. Journal of Adhesion Science and Technology, 2015, 29, 2576-2589.	2.6	25
58	Optical properties of Sm ³⁺ doped strontium hexa-aluminate single crystals. Journal of Alloys and Compounds, 2015, 622, 296-302.	5.5	17
59	Advanced NLO Crystals for Efficient Blue Laser Sources Based on SHG Processes. , 2015, , .		0
60	A study on the image contrast of pseudo-heterodyned scattering scanning near-field optical microscopy. Optics Express, 2014, 22, 1687.	3.4	17
61	Efficiency of Vanilla, Patchouli and Ylang Ylang Essential Oils Stabilized by Iron Oxide@C14 Nanostructures against Bacterial Adherence and Biofilms Formed by Staphylococcus aureus and Klebsiella pneumoniae Clinical Strains. Molecules, 2014, 19, 17943-17956.	3.8	49
62	Investigations on organic fluorophore doped silica nanoparticles by apertureless scanning near-field optical microscopy. , 2014, , .		1
63	Hydroxyapatite surface charge investigated by scanning probe microscopy. , 2014, , .		2
64	Surface Charge and Carbon Contamination on an Electron-Beam-Irradiated Hydroxyapatite Thin Film Investigated by Photoluminescence and Phase Imaging in Atomic Force Microscopy. Microscopy and Microanalysis, 2014, 20, 586-595.	0.4	9
65	Experimenting Liver Fibrosis Diagnostic by Two Photon Excitation Microscopy and Bag-of-Features Image Classification. Scientific Reports, 2014, 4, 4636.	3.3	55
66	Nonlinear optical imaging of defects in cubic silicon carbide epilayers. Scientific Reports, 2014, 4, 5258.	3.3	17
67	Gas Sensing Properties of Porphyrin Thin Films Influenced by Their Surface Morphologies. Sensor Letters, 2014, 12, 1218-1227.	0.4	3
68	Pulsed laser deposition of lead-free (Na _{0.5} Bi _{0.5}) _{1-x} BaxTiO ₃ ferroelectric thin films with enhanced dielectric properties. Applied Surface Science, 2013, 278, 162-165.	6.1	24
69	Investigations at nanoscale by using fluorescence in apertureless scanning near field microscopy. , 2013, , .		1
70	Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms. Current Organic Chemistry, 2013, 17, 1023-1028.	1.6	9
71	Matching DSIFT Descriptors Extracted from CSLM Images. Engineering, 2013, 05, 199-202.	0.8	1
72	Metallic samples investigated by using a scattering near field optical microscope. , 2012, , .		1

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73	Growth of CdS nanoparticles in Y- and Z-type Langmuir-Blodgett thin film using 1,3-bis-(p-aminobenzoic) Tj ETQq, J 0.784314 rgBT	2.2	14
74	Hybrid Nanomaterial for Stabilizing the Antibiofilm Activity of Eugenia carryophyllata Essential Oil. IEEE Transactions on Nanobioscience, 2012, 11, 360-365.	3.3	36
75	The interaction between the gas sensing and surface morphology properties of LB thin films of porphyrins in terms of the adsorption kinetics. Materials Chemistry and Physics, 2012, 136, 1130-1136.	4.0	11
76	Two-photon excited photoluminescence of photonic quantum ring laser structures. Applied Physics B: Lasers and Optics, 2012, 107, 97-101.	2.2	0
77	Influence of atomic force microscopy acquisition parameters on thin film roughness analysis. Microscopy Research and Technique, 2012, 75, 921-927.	2.2	10
78	Improving the Properties of CdS Nanoparticles by Adding Polymers. Particulate Science and Technology, 2011, 29, 229-241.	2.1	5
79	Inhibitory Activity of $\{m Fe\}_3 \{m O\}_4$ /Oleic Acid/Usnic Acid Core/Shell/Extra-Shell Nanofluid on S. aureus Biofilm Development. IEEE Transactions on Nanobioscience, 2011, 10, 269-274.	3.3	53
80	Optical beam induced current microscopy of photonic quantum ring lasers. Applied Physics B: Lasers and Optics, 2011, 103, 653-657.	2.2	4
81	Electrochemical stability and surface analysis in evaluation fluoride effect on new bioalloy Ti7Al3V2Mo2Fe used in dentistry. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 1111-1116.	1.5	11
82	Digital image inpainting and microscopy imaging. Microscopy Research and Technique, 2011, 74, 1049-1057.	2.2	4
83	Influence of Confocal Scanning Laser Microscopy specific acquisition parameters on the detection and matching of Speeded-Up Robust Features. Ultramicroscopy, 2011, 111, 364-374.	1.9	14
84	The influence of the surface morphologies of Langmuir Blodgett (LB) thin films of porphyrins on their gas sensing properties. Sensors and Actuators B: Chemical, 2011, 158, 62-68.	7.8	30
85	Automatic estimation of stacking fault density in SiC specimens imaged by transmission electron microscopy. , 2011, , .		3
86	Investigations on SiC by using nonlinear effects in scanning laser microscopy. , 2011, , .		4
87	On the Suitability of SIFT Technique to Deal with Image Modifications Specific to Confocal Scanning Laser Microscopy. Microscopy and Microanalysis, 2010, 16, 515-530.	0.4	14
88	Characterization of Langmuir-Blodgett films of a calix[8]arene and sensing properties towards volatile organic vapors. Sensors and Actuators B: Chemical, 2010, 148, 358-365.	7.8	48
89	Structural and optical properties of Mn doped ZnS semiconductor nanostructures. Indian Journal of Physics, 2010, 84, 1361-1367.	1.8	15
90	Automated compensation of light attenuation in confocal microscopy by exact histogram specification. Microscopy Research and Technique, 2010, 73, 165-175.	2.2	17

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91	Optical induced current technique used to investigate the photonic quantum ring laser. , 2010, , .		0
92	Two Photon Emission and Nonlinear Optical Imaging of Acetonitrile-Treated Quasi-Spherical Nanoscale PbS Systems. IEEE Photonics Journal, 2010, 2, 1060-1068.	2.0	6
93	Chromium Doped ZnS Nanostructures: Structural and Optical Characteristics. , 2009, , .		0
94	Image fusion for photonic quantum ring laser structures investigated by confocal scanning laser microscopy. , 2009, , .		1
95	Near field investigation based on a novel apertureless near field optical microscope. , 2009, , .		3
96	Scanning laser microscopy: From far field to near field. , 2009, , .		0
97	Detector array incorporated optical scattering instrument for nephelometric measurements on small particles. Measurement Science and Technology, 2009, 20, 095901.	2.6	9
98	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
99	Feature based recognition of photonic devices in images obtained by confocal scanning laser microscopy. , 2009, , .		0
100	Nanostructured bioglass thin films synthesized by pulsed laser deposition: CSLM, FTIR investigations and in vitro biotests. Applied Surface Science, 2008, 255, 3056-3062.	6.1	23
101	Photonic-Corral-Mode Quantum Ring Lasers investigated by Laser Scanning Microscopy and Near Field Microscopy. , 2008, , .		2
102	Tunneling at emitter periphery in silicon nitride passivated InP/InGaAs HBTs. , 2008, , .		2
103	Investigation on Photonic-Corral-Mode Quantum Ring Lasers by Laser Scanning Microscopy. , 2008, , .		6
104	Atomic force microscopy analysis of orientation effect on InP-based heterojunction bipolar transistors. , 2007, , .		0
105	Investigation on CdS: Mn quantum dots using scanning laser microscopy. , 2007, , .		0
106	<title>Nanometrology of microsystems: traceability problem in nanometrology</title>. , 2007, , .		1
107	<title>Study of hydroxyl carbonate apatite formation on bioactive glass coated dental ceramics by confocal laser scanning microscopy (CLSM)</title>. , 2007, , .		0
108	Scanning probe microscopy, luminescence and third harmonic generation studies of elongated CdS:Mn nanostructures developed by energetic oxygen-ion-impact. EPJ Applied Physics, 2006, 35, 29-36.	0.7	10

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109	Formation of Langmuir-Blodgett thin film of a novel N-dodecylphthalimide. Materials Letters, 2006, 60, 2371-2374.	2.6	6
110	Characterization of a Novel 1,3-Bis(4-aminobenzoic acid)indane Langmuir-Blodgett Film for Organic Vapor Sensing. Journal of Nanoscience and Nanotechnology, 2005, 5, 1108-1112.	0.9	7
111	Investigations on the variable large bandgap semiconductor compound HgBr. Journal Physics D: Applied Physics, 2003, 36, 2714-2718.	2.8	0
112	Surface investigations on HgBr ₂ single crystals by using confocal scanning laser microscopy. Scanning, 2000, 22, 182-186.	1.5	0
113	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
114	Investigation of HgBr _x I _{2-x} using confocal laser scanning microscopy and x-ray diffraction. , 1998, 3405, 241.		2
115	<title>3D images used in the localization of the defects in semiconductor devices</title>. , 1994, 2184, 127.		0
116	<title>Display and analysis of 2D and 3D images obtained on semiconductor devices using a laser scanner</title>. , 1994, 2337, 78.		0
117	Nonlinear conduction in platinum nanoparticle films. , 0, , .		0