

# Giuseppe Schirripa Spagnolo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7232597/publications.pdf>

Version: 2024-02-01

145  
papers

1,665  
citations

394421

19  
h-index

361022

35  
g-index

145  
all docs

145  
docs citations

145  
times ranked

954  
citing authors

#	ARTICLE	IF	CITATIONS
1	LED Rail Signals: Full Hardware Realization of Apparatus with Independent Intensity by Temperature Changes. Electronics (Switzerland), 2021, 10, 1291.	3.1	3
2	System to Monitor IR Radiation of LED Aircraft Warning Lights. , 2021, , .		0
3	Design of a Thermographic System for Fire Prevention in Aircraft Cabins. , 2021, , .		0
4	Optical Wireless Communication and Li-Fi: a New Infrastructure for Wireless Communication in Saving Energy Era. , 2020, , .		2
5	In-Line Quality Control in Semiconductors Production and Availability for Industry 4.0. , 2020, , .		3
6	Inertial Navigation Systems (INS) for Drones: Position Errors Model. , 2020, , .		7
7	A New Approach to define reproducibility of Additive Layers manufactured components. , 2020, , .		5
8	Simple equipment for teaching internal photoelectric effect. Physics Education, 2020, 55, 055011.	0.5	5
9	Underwater Optical Wireless Communications: Overview. Sensors, 2020, 20, 2261.	3.8	153
10	Probe Position Error Compensation in Near-field to Far-field Pattern Measurements. , 2019, , .		1
11	LED as Transmitter and Receiver of Light: A Simple Tool to Demonstration Photoelectric Effect. Crystals, 2019, 9, 531.	2.2	14
12	Phase correlation functions: FFT vs. FHT. Acta IMEKO (2012), 2019, 8, 87.	0.7	11
13	A Simple Takagi-Sugeno Fuzzy Modelling Case Study for an Underwater Glider Control System. , 2018, , .		9
14	Comparison between Routing Protocols for Wide Archeological Site. , 2018, , .		6
15	Biometric-Like Infrastructure for Artwork Authentication. , 2018, , .		1
16	Led railway signal vs full compliance with colorimetric specifications. International Journal of Transport Development and Integration, 2017, 1, 568-577.	0.9	5
17	Painting authentication by means of a biometric-like approach. Acta IMEKO (2012), 2015, 4, 65.	0.7	0
18	Smartphone Sensors for Stone Lithography Authentication. Sensors, 2014, 14, 8217-8234.	3.8	2

#	ARTICLE	IF	CITATIONS
19	Viability of an optoelectronic system for real time roughness measurement. Measurement: Journal of the International Measurement Confederation, 2014, 58, 537-543.	5.0	14
20	Linear conosopic holography as aid for forensic handwriting expert. Optik, 2013, 124, 2155-2160.	2.9	9
21	Biometric-Like Approach for Verifying Artworks Authenticity. Applied Physics Research, 2013, 5, .	0.0	2
22	Laser speckle decorrelation for fingerprint acquisition. Journal of Optics (United Kingdom), 2012, 14, 094006.	2.2	1
23	Color separation to facilitate handwriting examination. , 2012, , .		1
24	Light emitting diode in stationary transportation applications: wavelength response to varying temperature. Proceedings of SPIE, 2012, , .	0.8	2
25	New 2D barcode solution based on computer generated holograms: Holographic barcode. , 2012, , .		4
26	Application of LEDs to traffic signal. , 2012, , .		3
27	A review of IR thermography applied to PV systems. , 2012, , .		23
28	Drug packaging security by means of white-light speckle. Optics and Lasers in Engineering, 2012, 50, 1359-1371.	3.8	27
29	Is it possible to use biometric techniques as authentication solution for objects? Biometry vs. hylemetry. , 2012, , .		1
30	Simple educational tool for digital speckle shearography. European Journal of Physics, 2012, 33, 733-750.	0.6	8
31	Eco friendly electric propulsion boat. , 2011, , .		9
32	Hylemetry versus Biometry: a new method to certificate the lithography authenticity. , 2011, , .		4
33	Virtual restoration: detection and removal of craquelure in digitized image of old paintings. Proceedings of SPIE, 2011, , .	0.8	1
34	LED applications in road and railway signals: is it possible to fit specifications?. , 2011, , .		4
35	Designing of binary diffractive optical elements for beams performing. Proceedings of SPIE, 2011, , .	0.8	0
36	Holographic watermarking for authentication of cut images. Optics and Lasers in Engineering, 2011, 49, 1447-1455.	3.8	15

#	ARTICLE	IF	CITATIONS
37	An educational tool for DC-DC converter. , 2011, , .		4
38	Virtual restoration of cracks in digitized image of paintings. Journal of Physics: Conference Series, 2010, 249, 012059.	0.4	19
39	Defects in UV-vis-NIR reflectance spectra as method for forgery detections in writing documents. Journal of Physics: Conference Series, 2010, 249, 012060.	0.4	1
40	Banknote security using a biometric-like technique: a hylemetric approach. Measurement Science and Technology, 2010, 21, 055501.	2.6	10
41	Currency verification by a 2D infrared barcode. Measurement Science and Technology, 2010, 21, 107002.	2.6	9
42	IR Fringe Projection for 3D Face Recognition. , 2010, , .		0
43	Determination of the chronological sequence of heterogeneous crossing lines by means of a reverse engineering process. Measurement Science and Technology, 2007, 18, 609-614.	2.6	5
44	Max Frei theory revisitation: Does really strokes depth change along time?. Forensic Science International, 2007, 167, 163-166.	2.2	6
45	Potentiality of holographic technique in fragile watermarking. , 2006, 6075, 117.		0
46	Potentiality of 3D laser profilometry to determine the sequence of homogenous crossing lines on questioned documents. Forensic Science International, 2006, 164, 102-109.	2.2	43
47	Measurement of mass diffusion coefficients by digital moiré. , 2005, 5958, 653.		0
48	Image authentication by means of fragile CGH watermarking. , 2005, , .		0
49	Determination of the sequence of line crossings by means of 3D laser profilometry. , 2005, , .		1
50	Content fragile watermarking based on a computer generated hologram coding technique. Journal of Optics, 2005, 7, 333-342.	1.5	11
51	Superposed strokes analysis by conoscopic holography as an aid for a handwriting expert. Journal of Optics, 2004, 6, 869-874.	1.5	14
52	Low-Cost Optoelectronic System for Three-Dimensional Artwork Texture Measurement. IEEE Transactions on Image Processing, 2004, 13, 390-396.	9.8	11
53	Liquid diffusion coefficients by digital moiré. Optical Engineering, 2004, 43, 798.	1.0	13
54	Fragile digital watermarking by synthetic holograms. , 2004, , .		7

#	ARTICLE	IF	CITATIONS
55	3D scanner and virtual gallery of small cultural heritage objects. , 2004, 5302, 148.		1
56	An NDT electro-optic system for mosaics investigations. Journal of Cultural Heritage, 2003, 4, 369-376.	3.3	23
57	Study of free-convective onset on a horizontal wire using speckle pattern interferometry. International Journal of Heat and Mass Transfer, 2003, 46, 4145-4155.	4.8	16
58	Digital moiré by a diffractive optical element for deformation analysis of ancient paintings. Journal of Optics, 2003, 5, S146-S151.	1.5	6
59	Diffractive optical element based sensor to measure small diffusion coefficients. , 2003, , .		0
60	Unwrapping weighted algorithm in fringe projection 3D profilometry. , 2003, , .		0
61	Vibration analysis of layered structures by digital local correlation of laser speckle. , 2003, 5144, 669.		0
62	Variable resolution profilometer for artwork surface topography. , 2003, , .		0
63	ESPI for mosaics diagnostics. , 2002, , .		0
64	<title>Vibration analysis of layered structures by optoelectronics methods</title>. , 2002, , .		0
65	Displacement measurement using the Talbot effect with a Ronchi grating. Journal of Optics, 2002, 4, S376-S380.	1.5	55
66	Diffractive optical element based sensor for roughness measurement. Sensors and Actuators A: Physical, 2002, 100, 180-186.	4.1	9
67	Speckle decorrelation study of liquid diffusion. Optics and Lasers in Engineering, 2002, 37, 341-353.	3.8	10
68	White-light digital speckle photography in free convection. Optics Communications, 2002, 201, 39-44.	2.1	4
69	Comparative study on the efficiency of some optical methods for artwork diagnostics. , 2001, , .		5
70	Sandwich holography for simultaneous temperature visualization and heat-transfer coefficient measurement. Optical Engineering, 2001, 40, 1274.	1.0	4
71	Diffractive optical element-based profilometer for surface inspection. Optical Engineering, 2001, 40, 44.	1.0	27
72	Surface contouring by diffractive optical element-based fringe projection. Measurement Science and Technology, 2001, 12, N6-N8.	2.6	5

#	ARTICLE	IF	CITATIONS
73	Contouring of artwork surface by fringe projection and FFT analysis. Optics and Lasers in Engineering, 2000, 33, 141-156.	3.8	47
74	Fibre optic projected fringes for monitoring marble surface status. Journal of Cultural Heritage, 2000, 1, S337-S343.	3.3	11
75	Sandwich holography for determining the convective heat transfer coefficient. Journal of Optics, 2000, 2, 39-42.	1.5	8
76	Three-dimensional optical profilometry for artwork inspection. Journal of Optics, 2000, 2, 353-361.	1.5	17
77	Talbot effect application: measurement of distance with a Fourier-transform method. Measurement Science and Technology, 2000, 11, 77-82.	2.6	13
78	Artwork inspection using electronic speckle pattern interferometry. , 2000, , 273-286.		1
79	Artwork Profilometry Using a Diffractive Element for Fringe Projection. , 2000, , 581-588.		0
80	Buoyancy-induced flows monitoring by digital speckle photography and Fourier transform analysis. Optics Communications, 1999, 169, 51-57.	2.1	6
81	Measurement of vibration amplitude by an optical fiber-based moiré interferometer. Optics and Lasers in Engineering, 1998, 30, 213-223.	3.8	7
82	Experimental determination of the intensity distribution across a source with a grating interferometer. Journal of Optics, 1998, 7, 981-987.	0.5	1
83	High-precision digital automated measurement of degree of coherence in the Thompson and Wolf experiment. Journal of Optics, 1998, 7, 933-939.	0.5	18
84	Electro-optic correlation for in situ diagnostics in mural frescoes. Journal of Optics, 1997, 6, 557-563.	0.5	18
85	Bouncing light beams and the Hamiltonian analogy. European Journal of Physics, 1997, 18, 284-289.	0.6	20
86	Successful pinhole photography. American Journal of Physics, 1997, 65, 256-257.	0.7	4
87	Image decorrelation for in situ diagnostics of wooden artifacts. Applied Optics, 1997, 36, 8358.	2.1	14
88	Temperature dependence of fluid mixtures diffusivity by ESPI endoscopy. Optics and Lasers in Engineering, 1997, 26, 301-312.	3.8	8
89	Roughness measurement by electronic speckle correlation and mechanical profilometry. Measurement: Journal of the International Measurement Confederation, 1997, 20, 243-249.	5.0	15
90	Vibration monitoring by fiber optic fringe projection and Fourier transform analysis. Optics Communications, 1997, 139, 17-23.	2.1	16

#	ARTICLE	IF	CITATIONS
91	Temperature Measurement in Laminar Free Convection Using Electro-Optic Holography. Journal De Physique III, 1997, 7, 1893-1898.	0.3	8
92	Evaluation of diffusion in liquids by digital speckle pattern interferometry: computer simulation and experiments. European Journal of Physics, 1996, 17, 51-59.	0.6	20
93	Propagation of axially symmetric flattened Gaussian beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1385.	1.5	153
94	Generalized Bessel-Gauss beams. Journal of Modern Optics, 1996, 43, 1155-1166.	1.3	95
95	The Simon - Mukunda polarization gadget. European Journal of Physics, 1996, 17, 279-284.	0.6	29
96	IV Interferometric Methods for Artwork Diagnostics. Progress in Optics, 1996, , 197-255.	0.6	32
97	A Simple Method of Determining Diffusion Coefficient by Digital Laser Speckle Correlation. Journal De Physique III, 1996, 6, 1117-1125.	0.3	15
98	Local speckle correlation for vibration analysis. Optics Communications, 1996, 123, 41-48.	2.1	13
99	Digital speckle correlation for on-line real-time measurement. Optics Communications, 1996, 132, 24-28.	2.1	13
100	Laser speckle correlation for monitoring building stone efflorescences. Journal of Optics, 1996, 27, 133-137.	0.3	3
101	Automated slope measurement by digital speckle shearography. Journal of Optics, 1995, 26, 241-246.	0.3	5
102	The potential of portable TV holography for examining frescoes in situ. Studies in Conservation, 1995, 40, 127-132.	1.1	13
103	A system for the sampling of inhalable airborne particles. Environmental Pollution, 1995, 87, 295-301.	7.5	0
104	Change of energy of photons passing through rotating anisotropic elements. European Journal of Physics, 1994, 15, 71-78.	0.6	10
105	Fourier-based digital laser photography: a monitoring system for stone damage. Measurement Science and Technology, 1994, 5, 925-929.	2.6	2
106	Fourier transform evaluation of digital interferograms for diffusivity measurement. Journal of Optics, 1994, 3, 249-254.	0.5	8
107	Fourier transform for sandwich holograms evaluation. Journal of Optics, 1994, 25, 17-23.	0.3	7
108	Automatic System for Three Fractions Sampling of Aerosol Particles in Outdoor Environments. Journal of the Air and Waste Management Association, 1994, 44, 702-706.	0.6	1

#	ARTICLE	IF	CITATIONS
109	A scanning tunnelling microscope with a piezoelectric-driven inertial slider. Sensors and Actuators A: Physical, 1994, 45, 173-178.	4.1	10
110	Fast fourier transformed electronic speckle contouring for diffuse surfaces profilometry. Optics and Lasers in Engineering, 1994, 20, 87-96.	3.8	7
111	Manipulation of speckle fringes for non-destructive testing of defects in composites. Optics and Laser Technology, 1994, 26, 99-104.	4.6	9
112	Studying heat transfer with TV-holography. European Journal of Physics, 1994, 15, 315-318.	0.6	4
113	Coherent and partially coherent twisting beams. Optical Review, 1994, 1, 143-145.	2.0	18
114	TV-holography in artwork diagnostics. Optical Review, 1994, 1, 284-289.	2.0	3
115	Space intensity distribution and projections of the cross spectral density. Optics Communications, 1993, 102, 495-504.	2.1	6
116	Artwork diagnostics with fiber-optic digital speckle pattern interferometry. Applied Optics, 1993, 32, 6236.	2.1	44
117	Automated digital speckle pattern interferometry contouring in artwork surface inspection. Optical Engineering, 1993, 32, 1348.	1.0	26
118	A new method for measuring the diffusivity of liquid binary mixtures using DSPI. Journal of Optics, 1993, 2, 489-498.	0.5	21
119	Application of fibre optic digital speckle interferometry to mural painting diagnostics. Measurement Science and Technology, 1993, 4, 614-618.	2.6	21
120	Fiber optics DSPI for in situ diagnostics. Journal of Optics, 1993, 24, 7-10.	0.3	1
121	Fiber optics speckle interferometer for diffusivity measurements. Journal De Physique III, 1993, 3, 911-914.	0.3	6
122	Characterization of thin-film superconducting dot arrays for cryogenic particle detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 322, 258-262.	1.6	4
123	Automated fringe analysis in diffusivity measurements by sandwich holography. Journal De Physique III, 1992, 2, 1835-1842.	0.3	7
124	An automatic holographic monitoring system for metal surfaces corrosion. Industrial Metrology, 1991, 1, 277-284.	0.3	1
125	Multiple source sandwich speckle photography for measurement of surface roughness. Industrial Metrology, 1991, 1, 343-352.	0.3	2
126	Air ions as possible environmental monitors. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1991, 13, 195-202.	0.4	0



#	ARTICLE	IF	CITATIONS
127	Holographic contouring method: application to automatic measurements of surface defects in artwork. <i>Optical Engineering</i> , 1991, 30, 1294.	1.0	25
128	A planar second-order DC SQUID gradiometer. <i>Clinical Physics and Physiological Measurement: an Official Journal of the Hospital Physicists' Association, Deutsche Gesellschaft Fur Medizinische Physik and the European Federation of Organisations for Medical Physics</i> , 1991, 12, 13-19.	0.5	3
129	Contouring by DSPI for surface inspection. , 1991, , .		1
130	Multiple-source holography for artwork erosion measurements. <i>Studies in Conservation</i> , 1990, 35, 64-68.	1.1	1
131	An automatic measurement method for surface defects. <i>Journal of Optics</i> , 1990, 21, 247-251.	0.3	6
132	Sandwich holospecklegram: a practical tool for studying damage in concrete. <i>Measurement Science and Technology</i> , 1990, 1, 1067-1071.	2.6	4
133	Noise measurements in multiloop superconducting interferometers. <i>Journal of Applied Physics</i> , 1990, 68, 4304-4309.	2.5	1
134	Automated radon monitoring system for continuous environmental sampling. <i>Revue De Physique Appliquée</i> , 1990, 25, 1259-1263.	0.4	0
135	Atmospheric electricity in a rural site and its possible correlation with pollution: A preliminary study. <i>Atmospheric Environment</i> , 1989, 23, 1607-1611.	1.0	4
136	Automatic instrument for aerosol samples using the beta-particle attenuation. <i>Journal of Aerosol Science</i> , 1989, 20, 19-27.	3.8	6
137	Automatic Holographic Contouring For Surface Defects. , 1989, 1136, 346.		1
138	The state of art of holographic non destructive testing in work of art diagnostics. <i>Revue De Physique Appliquée</i> , 1989, 24, 389-399.	0.4	5
139	Holographic Study Of Liquid Diffusion : A New Approach. <i>Proceedings of SPIE</i> , 1987, , .	0.8	1
140	Liquid diffusion study by a holographic sandwich method. <i>Canadian Journal of Chemical Engineering</i> , 1987, 65, 508-511.	1.7	2
141	Sandwich Hologram: A Practical Tool For Stress Analysis In Paintings On Canvas.. , 1986, 0599, 105.		2
142	Sandwich hologram for displacement derivative. <i>Optics Communications</i> , 1986, 56, 325-329.	2.1	9
143	Hydrogen adsorption on Ge(100) studied by high-resolution energy-loss spectroscopy. <i>Physical Review B</i> , 1986, 34, 7188-7191.	3.2	75
144	Measurement of thin film thickness by means of a simple non-destructive radioisotopic technique. <i>Thin Solid Films</i> , 1980, 67, 347-351.	1.8	3

#	ARTICLE	IF	CITATIONS
145	Designing of diffractive optical element for the generation of uniform arrays of beams. , 0, , .		1