

# Giuseppe Schirripa Spagnolo

## List of Publications by Year in descending order

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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	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
2	Underwater Optical Wireless Communications: Overview. Sensors, 2020, 20, 2261.	3.8	153
3	Generalized Bessel-Gauss beams. Journal of Modern Optics, 1996, 43, 1155-1166.	1.3	95
4	Hydrogen adsorption on Ge(100) studied by high-resolution energy-loss spectroscopy. Physical Review B, 1986, 34, 7188-7191.	3.2	75
5	Displacement measurement using the Talbot effect with a Ronchi grating. Journal of Optics, 2002, 4, S376-S380.	1.5	55
6	Contouring of artwork surface by fringe projection and FFT analysis. Optics and Lasers in Engineering, 2000, 33, 141-156.	3.8	47
7	Artwork diagnostics with fiber-optic digital speckle pattern interferometry. Applied Optics, 1993, 32, 6236.	2.1	44
8	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
9	IV Interferometric Methods for Artwork Diagnostics. Progress in Optics, 1996, , 197-255.	0.6	32
10	The Simon - Mukunda polarization gadget. European Journal of Physics, 1996, 17, 279-284.	0.6	29
11	Diffraction optical element-based profilometer for surface inspection. Optical Engineering, 2001, 40, 44.	1.0	27
12	Drug packaging security by means of white-light speckle. Optics and Lasers in Engineering, 2012, 50, 1359-1371.	3.8	27
13	Automated digital speckle pattern interferometry contouring in artwork surface inspection. Optical Engineering, 1993, 32, 1348.	1.0	26
14	Holographic contouring method: application to automatic measurements of surface defects in artwork. Optical Engineering, 1991, 30, 1294.	1.0	25
15	An NDT electro-optic system for mosaics investigations. Journal of Cultural Heritage, 2003, 4, 369-376.	3.3	23
16	A review of IR thermography applied to PV systems. , 2012, , .		23
17	A new method for measuring the diffusivity of liquid binary mixtures using DSPI. Journal of Optics, 1993, 2, 489-498.	0.5	21
18	Application of fibre optic digital speckle interferometry to mural painting diagnostics. Measurement Science and Technology, 1993, 4, 614-618.	2.6	21

#	ARTICLE	IF	CITATIONS
19	Evaluation of diffusion in liquids by digital speckle pattern interferometry: computer simulation and experiments. <i>European Journal of Physics</i> , 1996, 17, 51-59.	0.6	20
20	Bouncing light beams and the Hamiltonian analogy. <i>European Journal of Physics</i> , 1997, 18, 284-289.	0.6	20
21	Virtual restoration of cracks in digitized image of paintings. <i>Journal of Physics: Conference Series</i> , 2010, 249, 012059.	0.4	19
22	Coherent and partially coherent twisting beams. <i>Optical Review</i> , 1994, 1, 143-145.	2.0	18
23	Electro-optic correlation for in situ diagnostics in mural frescoes. <i>Journal of Optics</i> , 1997, 6, 557-563.	0.5	18
24	High-precision digital automated measurement of degree of coherence in the Thompson and Wolf experiment. <i>Journal of Optics</i> , 1998, 7, 933-939.	0.5	18
25	Three-dimensional optical profilometry for artwork inspection. <i>Journal of Optics</i> , 2000, 2, 353-361.	1.5	17
26	Vibration monitoring by fiber optic fringe projection and Fourier transform analysis. <i>Optics Communications</i> , 1997, 139, 17-23.	2.1	16
27	Study of free-convective onset on a horizontal wire using speckle pattern interferometry. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 4145-4155.	4.8	16
28	A Simple Method of Determining Diffusion Coefficient by Digital Laser Speckle Correlation. <i>Journal De Physique III</i> , 1996, 6, 1117-1125.	0.3	15
29	Roughness measurement by electronic speckle correlation and mechanical profilometry. <i>Measurement: Journal of the International Measurement Confederation</i> , 1997, 20, 243-249.	5.0	15
30	Holographic watermarking for authentication of cut images. <i>Optics and Lasers in Engineering</i> , 2011, 49, 1447-1455.	3.8	15
31	Image decorrelation for in situ diagnostics of wooden artifacts. <i>Applied Optics</i> , 1997, 36, 8358.	2.1	14
32	Superposed strokes analysis by conoscopic holography as an aid for a handwriting expert. <i>Journal of Optics</i> , 2004, 6, 869-874.	1.5	14
33	Viability of an optoelectronic system for real time roughness measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 58, 537-543.	5.0	14
34	LED as Transmitter and Receiver of Light: A Simple Tool to Demonstration Photoelectric Effect. <i>Crystals</i> , 2019, 9, 531.	2.2	14
35	The potential of portable TV holography for examining frescoes in situ. <i>Studies in Conservation</i> , 1995, 40, 127-132.	1.1	13
36	Local speckle correlation for vibration analysis. <i>Optics Communications</i> , 1996, 123, 41-48.	2.1	13

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37	Digital speckle correlation for on-line real-time measurement. Optics Communications, 1996, 132, 24-28.	2.1	13
38	Talbot effect application: measurement of distance with a Fourier-transform method. Measurement Science and Technology, 2000, 11, 77-82.	2.6	13
39	Liquid diffusion coefficients by digital moiré. Optical Engineering, 2004, 43, 798.	1.0	13
40	Fibre optic projected fringes for monitoring marble surface status. Journal of Cultural Heritage, 2000, 1, S337-S343.	3.3	11
41	Low-Cost Optoelectronic System for Three-Dimensional Artwork Texture Measurement. IEEE Transactions on Image Processing, 2004, 13, 390-396.	9.8	11
42	Content fragile watermarking based on a computer generated hologram coding technique. Journal of Optics, 2005, 7, 333-342.	1.5	11
43	Phase correlation functions: FFT vs. FHT. Acta IMEKO (2012), 2019, 8, 87.	0.7	11
44	Change of energy of photons passing through rotating anisotropic elements. European Journal of Physics, 1994, 15, 71-78.	0.6	10
45	A scanning tunnelling microscope with a piezoelectric-driven inertial slider. Sensors and Actuators A: Physical, 1994, 45, 173-178.	4.1	10
46	Speckle decorrelation study of liquid diffusion. Optics and Lasers in Engineering, 2002, 37, 341-353.	3.8	10
47	Banknote security using a biometric-like technique: a hylemetric approach. Measurement Science and Technology, 2010, 21, 055501.	2.6	10
48	Sandwich hologram for displacement derivative. Optics Communications, 1986, 56, 325-329.	2.1	9
49	Manipulation of speckle fringes for non-destructive testing of defects in composites. Optics and Laser Technology, 1994, 26, 99-104.	4.6	9
50	Diffraction optical element based sensor for roughness measurement. Sensors and Actuators A: Physical, 2002, 100, 180-186.	4.1	9
51	Currency verification by a 2D infrared barcode. Measurement Science and Technology, 2010, 21, 107002.	2.6	9
52	Eco friendly electric propulsion boat. , 2011, , .		9
53	Linear conoscopic holography as aid for forensic handwriting expert. Optik, 2013, 124, 2155-2160.	2.9	9
54	A Simple Takagi-Sugeno Fuzzy Modelling Case Study for an Underwater Glider Control System. , 2018, , .		9

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55	Fourier transform evaluation of digital interferograms for diffusivity measurement. Journal of Optics, 1994, 3, 249-254.	0.5	8
56	Temperature dependence of fluid mixtures diffusivity by ESPI endoscopy. Optics and Lasers in Engineering, 1997, 26, 301-312.	3.8	8
57	Sandwich holography for determining the convective heat transfer coefficient. Journal of Optics, 2000, 2, 39-42.	1.5	8
58	Simple educational tool for digital speckle shearography. European Journal of Physics, 2012, 33, 733-750.	0.6	8
59	Temperature Measurement in Laminar Free Convection Using Electro-Optic Holography. Journal De Physique III, 1997, 7, 1893-1898.	0.3	8
60	Fourier transform for sandwich holograms evaluation. Journal of Optics, 1994, 25, 17-23.	0.3	7
61	Fast fourier transformed electronic speckle contouring for diffuse surfaces profilometry. Optics and Lasers in Engineering, 1994, 20, 87-96.	3.8	7
62	Measurement of vibration amplitude by an optical fiber-based moiré interferometer. Optics and Lasers in Engineering, 1998, 30, 213-223.	3.8	7
63	Fragile digital watermarking by synthetic holograms. , 2004, , .		7
64	Inertial Navigation Systems (INS) for Drones: Position Errors Model. , 2020, , .		7
65	Automated fringe analysis in diffusivity measurements by sandwich holography. Journal De Physique III, 1992, 2, 1835-1842.	0.3	7
66	Automatic instrument for aerosol samples using the beta-particle attenuation. Journal of Aerosol Science, 1989, 20, 19-27.	3.8	6
67	An automatic measurement method for surface defects. Journal of Optics, 1990, 21, 247-251.	0.3	6
68	Space intensity distribution and projections of the cross spectral density. Optics Communications, 1993, 102, 495-504.	2.1	6
69	Buoyancy-induced flows monitoring by digital speckle photography and Fourier transform analysis. Optics Communications, 1999, 169, 51-57.	2.1	6
70	Digital moiré by a diffractive optical element for deformation analysis of ancient paintings. Journal of Optics, 2003, 5, S146-S151.	1.5	6
71	Max Frei theory revisitation: Does really strokes depth change along time?. Forensic Science International, 2007, 167, 163-166.	2.2	6
72	Comparison between Routing Protocols for Wide Archeological Site. , 2018, , .		6

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73	Fiber optics speckle interferometer for diffusivity measurements. Journal De Physique III, 1993, 3, 911-914.	0.3	6
74	Automated slope measurement by digital speckle shearography. Journal of Optics, 1995, 26, 241-246.	0.3	5
75	Comparative study on the efficiency of some optical methods for artwork diagnostics. , 2001, , .		5
76	Surface contouring by diffractive optical element-based fringe projection. Measurement Science and Technology, 2001, 12, N6-N8.	2.6	5
77	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
78	A New Approach to define reproducibility of Additive Layers manufactured components. , 2020, , .		5
79	Simple equipment for teaching internal photoelectric effect. Physics Education, 2020, 55, 055011.	0.5	5
80	The state of art of holographic non destructive testing in work of art diagnostics. Revue De Physique Appliquée, 1989, 24, 389-399.	0.4	5
81	Led railway signal vs full compliance with colorimetric specifications. International Journal of Transport Development and Integration, 2017, 1, 568-577.	0.9	5
82	Atmospheric electricity in a rural site and its possible correlation with pollution: A preliminary study. Atmospheric Environment, 1989, 23, 1607-1611.	1.0	4
83	Sandwich holospecklegram: a practical tool for studying damage in concrete. Measurement Science and Technology, 1990, 1, 1067-1071.	2.6	4
84	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
85	Studying heat transfer with TV-holography. European Journal of Physics, 1994, 15, 315-318.	0.6	4
86	Successful pinhole photography. American Journal of Physics, 1997, 65, 256-257.	0.7	4
87	Sandwich holography for simultaneous temperature visualization and heat-transfer coefficient measurement. Optical Engineering, 2001, 40, 1274.	1.0	4
88	White-light digital speckle photography in free convection. Optics Communications, 2002, 201, 39-44.	2.1	4
89	Hylemetry versus Biometry: a new method to certificate the lithography authenticity. , 2011, , .		4
90	LED applications in road and railway signals: is it possible to fit specifications?. , 2011, , .		4

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91	An educational tool for DC-DC converter. , 2011, , .		4
92	New 2D barcode solution based on computer generated holograms: Holographic barcode. , 2012, , .		4
93	Measurement of thin film thickness by means of a simple non-destructive radioisotopic technique. Thin Solid Films, 1980, 67, 347-351.	1.8	3
94	A planar second-order DC SQUID gradiometer. 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, 1991, 12, 13-19.	0.5	3
95	TV-holography in artwork diagnostics. Optical Review, 1994, 1, 284-289.	2.0	3
96	Laser speckle correlation for monitoring building stone efflorescences. Journal of Optics, 1996, 27, 133-137.	0.3	3
97	Application of LEDs to traffic signal. , 2012, , .		3
98	In-Line Quality Control in Semiconductors Production and Availability for Industry 4.0. , 2020, , .		3
99	LED Rail Signals: Full Hardware Realization of Apparatus with Independent Intensity by Temperature Changes. Electronics (Switzerland), 2021, 10, 1291.	3.1	3
100	Sandwich Hologram: A Practical Tool For Stress Analysis In Paintings On Canvas.. , 1986, 0599, 105.		2
101	Liquid diffusion study by a holographic sandwich method. Canadian Journal of Chemical Engineering, 1987, 65, 508-511.	1.7	2
102	Multiple source sandwich speckle photography for measurement of surface roughness. Industrial Metrology, 1991, 1, 343-352.	0.3	2
103	Fourier-based digital laser photography: a monitoring system for stone damage. Measurement Science and Technology, 1994, 5, 925-929.	2.6	2
104	Light emitting diode in stationary transportation applications: wavelength response to varying temperature. Proceedings of SPIE, 2012, , .	0.8	2
105	Biometric-Like Approach for Verifying Artworks Authenticity. Applied Physics Research, 2013, 5, .	0.0	2
106	Smartphone Sensors for Stone Lithography Authentication. Sensors, 2014, 14, 8217-8234.	3.8	2
107	Optical Wireless Communication and Li-Fi: a New Infrastructure for Wireless Communication in Saving Energy Era. , 2020, , .		2
108	Holographic Study Of Liquid Diffusion : A New Approach. Proceedings of SPIE, 1987, , .	0.8	1

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109	Automatic Holographic Contouring For Surface Defects. , 1989, 1136, 346.		1
110	Multiple-source holography for artwork erosion measurements. Studies in Conservation, 1990, 35, 64-68.	1.1	1
111	Noise measurements in multiloop superconducting interferometers. Journal of Applied Physics, 1990, 68, 4304-4309.	2.5	1
112	An automatic holographic monitoring system for metal surfaces corrosion. Industrial Metrology, 1991, 1, 277-284.	0.3	1
113	Fiber optics DSPI for in situ diagnostics. Journal of Optics, 1993, 24, 7-10.	0.3	1
114	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
115	Experimental determination of the intensity distribution across a source with a grating interferometer. Journal of Optics, 1998, 7, 981-987.	0.5	1
116	3D scanner and virtual gallery of small cultural heritage objects. , 2004, 5302, 148.		1
117	Determination of the sequence of line crossings by means of 3D laser profilometry. , 2005, , .		1
118	Designing of diffractive optical element for the generation of uniform arrays of beams. , 0, , .		1
119	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
120	Virtual restoration: detection and removal of craquelure in digitized image of old paintings. Proceedings of SPIE, 2011, , .	0.8	1
121	Laser speckle decorrelation for fingerprint acquisition. Journal of Optics (United Kingdom), 2012, 14, 094006.	2.2	1
122	Color separation to facilitate handwriting examination. , 2012, , .		1
123	Is it possible to use biometric techniques as authentication solution for objects? Biometry vs. hylemetry. , 2012, , .		1
124	Probe Position Error Compensation in Near-field to Far-field Pattern Measurements. , 2019, , .		1
125	Artwork inspection using electronic speckle pattern interferometry. , 2000, , 273-286.		1
126	Contouring by DSPI for surface inspection. , 1991, , .		1



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127	Biometric-Like Infrastructure for Artwork Authentication. , 2018, , .		1
128	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
129	A system for the sampling of inhalable airborne particles. Environmental Pollution, 1995, 87, 295-301.	7.5	0
130	ESPI for mosaics diagnostics. , 2002, , .		0
131	<title>Vibration analysis of layered structures by optoelectronics methods</title>. , 2002, , .		0
132	Diffraction optical element based sensor to measure small diffusion coefficients. , 2003, , .		0
133	Unwrapping weighted algorithm in fringe projection 3D profilometry. , 2003, , .		0
134	Vibration analysis of layered structures by digital local correlation of laser speckle. , 2003, 5144, 669.		0
135	Variable resolution profilometer for artwork surface topography. , 2003, , .		0
136	Measurement of mass diffusion coefficients by digital moirÃ©. , 2005, 5958, 653.		0
137	Image authentication by means of fragile CGH watermarking. , 2005, , .		0
138	Potentiality of holographic technique in fragile watermarking. , 2006, 6075, 117.		0
139	IR Fringe Projection for 3D Face Recognition. , 2010, , .		0
140	Designing of binary diffractive optical elements for beams performing. Proceedings of SPIE, 2011, , .	0.8	0
141	System to Monitor IR Radiation of LED Aircraft Warning Lights. , 2021, , .		0
142	Design of a Thermographic System for Fire Prevention in Aircraft Cabins. , 2021, , .		0
143	Artwork Profilometry Using a Diffractive Element for Fringe Projection. , 2000, , 581-588.		0
144	Automated radon monitoring system for continuous environmental sampling. Revue De Physique AppliquÃ©e, 1990, 25, 1259-1263.	0.4	0

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145	Painting authentication by means of a biometric-like approach. Acta IMEKO (2012), 2015, 4, 65.	0.7	0