

# Andrea Azelio Mencaglia

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

704  
citations

623734

14  
h-index

552781

26  
g-index

47  
all docs

47  
docs citations

47  
times ranked

861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser cleaning in conservation of stone, metal, and painted artifacts: state of the art and new insights on the use of the Nd:YAG lasers. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 419-446.	2.3	162
2	Antibody immobilisation on fibre optic TIRF sensors. <i>Biosensors and Bioelectronics</i> , 2003, 19, 85-93.	10.1	44
3	Development and application of a portable LIPS system for characterising copper alloy artefacts. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2255-2262.	3.7	44
4	Interferometric signals in fiber optic methane sensors with wavelength modulation of the DFB laser source. <i>Journal of Lightwave Technology</i> , 1998, 16, 43-53.	4.6	40
5	EAT-by-LIGHT: Fiber-Optic and Micro-Optic Devices for Food Quality and Safety Assessment. <i>IEEE Sensors Journal</i> , 2008, 8, 1342-1354.	4.7	36
6	Identifying the production region of single-malt Scotch whiskies using optical spectroscopy and pattern recognition techniques. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 458-462.	7.8	32
7	Optical sensor for interstitial pH measurements. <i>Journal of Biomedical Optics</i> , 2007, 12, 024024.	2.6	29
8	Fiber Optic Sensors for Biomedical Applications. <i>Current Analytical Chemistry</i> , 2008, 4, 378-390.	1.2	27
9	Continuous monitoring of gastric carbon dioxide with optical fibres. <i>Sensors and Actuators B: Chemical</i> , 2003, 90, 132-138.	7.8	26
10	Dispersive Raman Spectroscopy for the Nondestructive and Rapid Assessment of the Quality of Southern Italian Honey Types. <i>Journal of Lightwave Technology</i> , 2016, 34, 4479-4485.	4.6	25
11	Optical measurements and pattern-recognition techniques for identifying the characteristics of beer and distinguishing Belgian beers. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 140-149.	7.8	24
12	Optical fiber spectroscopy for measuring quality indicators of lubricant oils. <i>Measurement Science and Technology</i> , 2009, 20, 034011.	2.6	23
13	Reversible and selective detection of NO <sub>2</sub> by means of optical fibres. <i>Sensors and Actuators B: Chemical</i> , 2001, 74, 12-17.	7.8	19
14	Novel approach to the microscopic inspection during laser cleaning treatments of artworks. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1585-1591.	3.7	19
15	Direct and chemically-mediated absorption spectroscopy using optical fiber instrumentation. <i>IEEE Sensors Journal</i> , 2002, 2, 52-57.	4.7	15
16	Array of opto-chemical sensors based on fiber-optic spectroscopy. <i>IEEE Sensors Journal</i> , 2005, 5, 1165-1174.	4.7	15
17	Polymer-coated optical fibres for application in a direct evanescent wave immunoassay. <i>Analytica Chimica Acta</i> , 2000, 403, 67-76.	5.4	13
18	Time-resolved absorption as optical method for herbicide detection. <i>Sensors and Actuators B: Chemical</i> , 2003, 90, 198-203.	7.8	13

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19	Combined elemental and microstructural analysis of genuine and fake copper-alloy coins. Quantum Electronics, 2011, 41, 663-668.	1.0	13
20	Temperature sensing during Raman spectroscopy of lead white films in different purity grades and boundary conditions. Sensors and Actuators B: Chemical, 2020, 325, 128958.	7.8	11
21	Raman spectrometer for the automated scan of large painted surfaces. Review of Scientific Instruments, 2019, 90, 053101.	1.3	9
22	<title>Radiation dosimetry in radiotherapy: a model for an extrinsic optical fiber sensor</title>. , 1998, , .		8
23	Development of an efficient and thermally controlled Raman system for fast and safe molecular characterization of paint layers. Measurement: Journal of the International Measurement Confederation, 2018, 118, 372-378.	5.0	8
24	Quantitative Compositional Analyses of Calcareous Rocks for Lime Industry Using LIBS. Molecules, 2022, 27, 1813.	3.8	7
25	Fibre-optic smoke sensor. Sensors and Actuators B: Chemical, 1992, 7, 780-783.	7.8	6
26	Mathematical model for the analytical signal of an herbicide sensor based on the reaction centre of. Talanta, 2005, 65, 586-592.	5.5	6
27	Equivalent light dosimetry in museums with blue wool standards and optical fibers. IEEE Sensors Journal, 2003, 3, 108-114.	4.7	5
28	<title>Optical fiber instrumentation for online absorption and reflection spectroscopy</title>. , 2003, , .		5
29	Optical PMMA Chip Suitable for Multianalyte Detection. IEEE Sensors Journal, 2008, 8, 1305-1309.	4.7	5
30	Quasi-monodisperse particulate characterisation with optical fibers and a three-wavelength scattering technique. Sensors and Actuators B: Chemical, 1995, 29, 115-118.	7.8	4
31	Fiber optic systems for colorimetry and scattered colorimetry. , 2005, , .		2
32	Raman Spectroscopy for Distinguishing the Composition of Table-top Artificial Sweeteners. Procedia Engineering, 2014, 87, 240-243.	1.2	2
33	Novel Probe for Thermally Controlled Raman Spectroscopy Using Online IR Sensing and Emissivity Measurements. Sensors, 2022, 22, 2680.	3.8	2
34	An optical fibre sensor for characterizing monodisperse and quasi-monodisperse particulates. Optics and Laser Technology, 1994, 26, 105-108.	4.6	1
35	Fiber optic multimeter for interrogating an array of absorption-based optochemical sensors. , 2004, 5270, 140.		1
36	Near-infrared spectroscopy and pattern-recognition processing for classifying wines of two Italian provinces. , 2014, , .		1

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37	SpiderSpec: a low-cost compact colorimeter with IoT functionality. , 2015, , .		1
38	A Study of Overripe Seed Byproducts from Sun-Dried Grapes by Dispersive Raman Spectroscopy. Foods, 2021, 10, 483.	4.3	1
39	<title>Optical fibers for monitoring the effects of temperature on picture varnishes</title>. , 1997, , .		0
40	<title>Optical fibers for photon correlation spectroscopy: design and performance analysis of a miniaturized probe</title>. , 1998, 3211, 518.		0
41	Micro-optic probes for gas absorption measurements: design study and demonstrators. , 1998, 3278, 229.		0
42	Online water color monitoring by means of fiber optic technology in a water recycling plant. , 2004, 5459, 281.		0
43	Optical fiber sensor for photosynthetic herbicides detection by time-resolved absorption. , 2004, , .		0
44	Optical spectroscopy for food and beverages control. , 2010, , .		0
45	High Energy Double Peak Pulse Laser Induced Plasma Spectroscopy for Metal Characterization Using a Passively Q-Switched Laser Source and CCD Detector. Sensors, 2019, 19, 3634.	3.8	0