Luigi De Dominicis

List of Publications by Year
in descending order

42	352	840776 11	839539 18
papers	citations	h-index	g-index

42	42	42	380
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Second- and third- harmonic generation in single-walled carbon nanotubes at nanosecond time scale. Applied Physics Letters, 2004, 85, 1418-1420.	3.3	43
2	Underwater three-dimensional imaging with an amplitude-modulated laser radar at a 405 nm wavelength. Applied Optics, 2005, 44, 7130.	2.1	39
3	Femtosecond optical harmonic generation as a non-linear spectroscopic probe for carbon nanotubes. Journal of Raman Spectroscopy, 2003, 34, 1018-1024.	2.5	33
4	DFWM measurements of third-order susceptibility of single-wall carbon nanotubes grown without catalyst. Chemical Physics Letters, 2003, 378, 117-121.	2.6	31
5	Second-and third-harmonic generation by carbon nanotubes irradiated with femtosecond laser pulses. Journal of Experimental and Theoretical Physics, 2004, 98, 220-226.	0.9	22
6	Regularization Based Iterative Point Match Weighting for Accurate Rigid Transformation Estimation. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 1058-1071.	4.4	22
7	Experimental evidence of signal-optical noise interferencelike effect in underwater amplitude-modulated laser optical radar systems. Optics Letters, 2008, 33, 2584.	3.3	15
8	Integrated Laser Sensor (ILS) for Remote Surface Analysis: Application for Detecting Explosives in Fingerprints. Sensors, 2019, 19, 4269.	3.8	15
9	Synthesis of Feâ€“Si nanoparticles by cw CO2 laser assisted pyrolysis from gaseous precursors. Applied Surface Science, 2002, 186, 562-567.	6.1	14
10	Analysis of simultaneous chlorophyll measurements by lidar fluorosensor, MODIS and SeaWiFS. International Journal of Remote Sensing, 2004, 25, 2095-2110.	2.9	12
11	Using retinex for point selection in 3D shape registration. Pattern Recognition, 2014, 47, 2126-2142.	8.1	11
12	Effects of electrons statistic on carbon nanotubes hyperpolarizability frequency dependence determined with sum over states method. Journal of Raman Spectroscopy, 2006, 37, 669-674.	2.5	10
13	Techniques for Effective Optical Noise Rejection in Amplitude-Modulated Laser Optical Radars for Underwater Three-Dimensional Imaging. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	9
14	Probe of the Si nanoclusters to Er3+ energy transfer dynamics by double-pulse excitation. Applied Physics Letters, 2005, 87, 061109.	3.3	8
15	Stochastic interferometer. Physical Review A, 1992, 45, 5144-5151.	2.5	7
16	Analysis of the chiral composition of a carbon nanotube surface by means of second harmonic generation. Journal of Raman Spectroscopy, 2005, 36, 165-170.	2.5	7
17	Ghost imaging as loss estimation: Quantum versus classical schemes. Physical Review A, 2022, 105, .	2.5	7
18	A symmetry based approach to evaluation of carbon nanotube electronic hyperpolarizability. Laser Physics Letters, 2004, 1, 598-601.	1.4	5

#	Article	IF	Citations
19	Quantitative estimation of collisional dephasing rate in theX1A1â€“A1A2 (410) band of formaldehyde with degenerate four wave mixing spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 1032-1037.	2.5	5
20	Underwater 3D vision, ranging and range gating. , 2013, , 379-410e.		5
21	Imaging topological radar technology as a general purpose instrument for remote colorimetric assessment, structural security, cataloguing, and dissemination. Studies in Conservation, 2015, 60, S134-S142.	1.1	5
22	DFWM: a proposed method to measure ?(3) on carbon nanotubes on the nanosecond time-scale. Journal of Raman Spectroscopy, 2003, 34, 1025-1029.	2.5	4
23	Detection of ethylene traces by photoacoustic spectroscopy. , 2003, , .		4
24	Improvement in underwater phase measurement of an amplitude-modulated laser beam by polarimetric techniques. Optics Letters, 2007, 32, 1402.	3.3	4
25	Degenerate Four Wave Mixing on FeI atomic vapours during thermal decomposition of Fe(CO)5: saturation and absorption effects. Chemical Physics Letters, 2001, 348, 209-216.	2.6	3
26	Study of the Si-nanocluster to Er3+ energy transfer dynamics using a double-pulse experiment. Optical Materials, 2006, 28, 815-819.	3.6	3
27	Finite length effects on first hyperpolarizability tensor for chiral carbon nanotubes with application to second harmonic farâ€field radiation pattern. Journal of Raman Spectroscopy, 2009, 40, 840-846.	2.5	3
28	Polarimetry as a valid means to reduce optical noise in underwater 3D imaging by means of amplitude-modulated laser optical radar systems. Optics Letters, 2009, 34, 2117.	3.3	3
29	<title>Detectability by photoacoustic spectroscopy of x-ray-induced ethylene emission in mice breath</title>. , 2003, , .		2
30	<title>NIR and UV spectroscopic techniques as tools to control nanoparticle growth in laser pyrolysis process</title>. , 2002, 4578, 165.		1
31	<title>Combustion diagnostic using degenerate four wave mixing spectroscopy</title>. , 1997, , .		0
32	<title>Detection of the unburned methane in a 213-kW combustor by means of a portable diode laser gas analyzer</title>. , 2001, 4201, 142.		0
33	Degenerate four-wave mixing and polarization spectroscopy in NO 2. , 2002, , .		0
34	Lidar apparatus for mesospheric daytime atomic sodium layer. , 2003, , .		0
35	Saturation effects in degenerate four-wave mixing lineshape on FeI atomic vapors. , 2003, , .		0
36	ENEA lidar fluorosensor mobile apparatus for oceanographic continous monitoring. , 2003, 5131, 239.		0

#	Article	IF	Citations
37	AM Multipurpose High-Resolution Imaging Topological Radar (ITR): reverse engineering and artworks monitoring and restoration. , 2005, 5880, 588001.		0
38	Imaging topological radar for 3D imaging in cultural heritage reproduction and restoration. , 2005, , .		0
39	Polarimetry as tool to improve phase measurement in an amplitude modulated laser for submarine archaeological sites inspection. , 2007, , .		0
40	Sum frequency generation in chiral carbon nanotubes. Journal of Computational Methods in Sciences and Engineering, 2010, 10, 227-237.	0.2	0
41	How the amplitude modulation of n-laser stimuli could change our way to observe submerged and emerged worlds. , 2013, , .		0
42	Radiation Tolerant 3D Laser Scanner for Structural Inspections in Nuclear Reactor Vessels and Fuel Storage Pools. Science and Technology of Nuclear Installations, 2021, 2021, 1-7.	0.8	0