

# Luigi De Dominicis

## List of Publications by Year in descending order

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42  
papers

352  
citations

840776

11  
h-index

839539

18  
g-index

42  
all docs

42  
docs citations

42  
times ranked

380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ghost imaging as loss estimation: Quantum versus classical schemes. <i>Physical Review A</i> , 2022, 105, .	2.5	7
2	Radiation Tolerant 3D Laser Scanner for Structural Inspections in Nuclear Reactor Vessels and Fuel Storage Pools. <i>Science and Technology of Nuclear Installations</i> , 2021, 2021, 1-7.	0.8	0
3	Integrated Laser Sensor (ILS) for Remote Surface Analysis: Application for Detecting Explosives in Fingerprints. <i>Sensors</i> , 2019, 19, 4269.	3.8	15
4	Imaging topological radar technology as a general purpose instrument for remote colorimetric assessment, structural security, cataloguing, and dissemination. <i>Studies in Conservation</i> , 2015, 60, S134-S142.	1.1	5
5	Regularization Based Iterative Point Match Weighting for Accurate Rigid Transformation Estimation. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 1058-1071.	4.4	22
6	Using retinex for point selection in 3D shape registration. <i>Pattern Recognition</i> , 2014, 47, 2126-2142.	8.1	11
7	How the amplitude modulation of n-laser stimuli could change our way to observe submerged and emerged worlds. , 2013, , .		0
8	Underwater 3D vision, ranging and range gating. , 2013, , 379-410e.		5
9	Techniques for Effective Optical Noise Rejection in Amplitude-Modulated Laser Optical Radars for Underwater Three-Dimensional Imaging. <i>Eurasip Journal on Advances in Signal Processing</i> , 2010, 2010, .	1.7	9
10	Sum frequency generation in chiral carbon nanotubes. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2010, 10, 227-237.	0.2	0
11	Finite length effects on first hyperpolarizability tensor for chiral carbon nanotubes with application to second harmonic far-field radiation pattern. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 840-846.	2.5	3
12	Polarimetry as a valid means to reduce optical noise in underwater 3D imaging by means of amplitude-modulated laser optical radar systems. <i>Optics Letters</i> , 2009, 34, 2117.	3.3	3
13	Experimental evidence of signal-optical noise interferencelike effect in underwater amplitude-modulated laser optical radar systems. <i>Optics Letters</i> , 2008, 33, 2584.	3.3	15
14	Polarimetry as tool to improve phase measurement in an amplitude modulated laser for submarine archaeological sites inspection. , 2007, , .		0
15	Improvement in underwater phase measurement of an amplitude-modulated laser beam by polarimetric techniques. <i>Optics Letters</i> , 2007, 32, 1402.	3.3	4
16	Quantitative estimation of collisional dephasing rate in the X1A1 $\leftrightarrow$ A1A2 (410) band of formaldehyde with degenerate four wave mixing spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1032-1037.	2.5	5
17	Study of the Si-nanocluster to Er <sup>3+</sup> energy transfer dynamics using a double-pulse experiment. <i>Optical Materials</i> , 2006, 28, 815-819.	3.6	3
18	Effects of electrons statistic on carbon nanotubes hyperpolarizability frequency dependence determined with sum over states method. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 669-674.	2.5	10

#	ARTICLE	IF	CITATIONS
19	AM Multipurpose High-Resolution Imaging Topological Radar (ITR): reverse engineering and artworks monitoring and restoration. , 2005, 5880, 588001.		0
20	Imaging topological radar for 3D imaging in cultural heritage reproduction and restoration. , 2005, , .		0
21	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
22	Probe of the Si nanoclusters to Er <sup>3+</sup> energy transfer dynamics by double-pulse excitation. Applied Physics Letters, 2005, 87, 061109.	3.3	8
23	Underwater three-dimensional imaging with an amplitude-modulated laser radar at a 405 nm wavelength. Applied Optics, 2005, 44, 7130.	2.1	39
24	Analysis of simultaneous chlorophyll measurements by lidar fluorosensor, MODIS and SeaWiFS. International Journal of Remote Sensing, 2004, 25, 2095-2110.	2.9	12
25	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
26	A symmetry based approach to evaluation of carbon nanotube electronic hyperpolarizability. Laser Physics Letters, 2004, 1, 598-601.	1.4	5
27	Second- and third- harmonic generation in single-walled carbon nanotubes at nanosecond time scale. Applied Physics Letters, 2004, 85, 1418-1420.	3.3	43
28	Femtosecond optical harmonic generation as a non-linear spectroscopic probe for carbon nanotubes. Journal of Raman Spectroscopy, 2003, 34, 1018-1024.	2.5	33
29	DFWM: a proposed method to measure $\chi^{(3)}$ on carbon nanotubes on the nanosecond time-scale. Journal of Raman Spectroscopy, 2003, 34, 1025-1029.	2.5	4
30	DFWM measurements of third-order susceptibility of single-wall carbon nanotubes grown without catalyst. Chemical Physics Letters, 2003, 378, 117-121.	2.6	31
31	Lidar apparatus for mesospheric daytime atomic sodium layer. , 2003, , .		0
32	Saturation effects in degenerate four-wave mixing lineshape on FeI atomic vapors. , 2003, , .		0
33	Detection of ethylene traces by photoacoustic spectroscopy. , 2003, , .		4
34	<title>Detectability by photoacoustic spectroscopy of x-ray-induced ethylene emission in mice breath</title>. , 2003, , .		2
35	ENEA lidar fluorosensor mobile apparatus for oceanographic continuous monitoring. , 2003, 5131, 239.		0
36	<title>NIR and UV spectroscopic techniques as tools to control nanoparticle growth in laser pyrolysis process</title>. , 2002, 4578, 165.		1

#	ARTICLE	IF	CITATIONS
37	Degenerate four-wave mixing and polarization spectroscopy in NO 2. , 2002, , .		0
38	Synthesis of Feâ€Si nanoparticles by cw CO2 laser assisted pyrolysis from gaseous precursors. Applied Surface Science, 2002, 186, 562-567.	6.1	14
39	<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
40	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
41	<title>Combustion diagnostic using degenerate four wave mixing spectroscopy</title>. , 1997, , .		0
42	Stochastic interferometer. Physical Review A, 1992, 45, 5144-5151.	2.5	7