

Giuseppe Perna

List of Publications by Year in descending order

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73
papers

1,186
citations

361296

20
h-index

477173

29
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74
all docs

74
docs citations

74
times ranked

1447
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical characterization of CdS/Se ¹ films grown on quartz substrate by pulsed laser ablation technique. <i>Thin Solid Films</i> , 1999, 349, 220-224.	0.8	56
2	Hysteresis-type current-voltage characteristics in Au/eumelanin/ITO/glass structure: Towards melanin based memory devices. <i>Organic Electronics</i> , 2010, 11, 1809-1814.	1.4	56
3	Wet chemical nitridation of GaAs (100) by hydrazine solution for surface passivation. <i>Applied Physics Letters</i> , 2002, 80, 3739-3741.	1.5	49
4	N ₂ -H ₂ remote plasma nitridation for GaAs surface passivation. <i>Applied Physics Letters</i> , 2002, 81, 16-18.	1.5	47
5	Excitonic luminescence of CdS x Se ¹ films deposited by laser ablation on Si substrate. <i>Solid State Communications</i> , 2000, 114, 161-166.	0.9	45
6	Electrical and optical properties of natural and synthetic melanin biopolymer. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1221-1226.	1.5	42
7	Reflectance and photoluminescence characterization of CdS and CdSe heteroepitaxial films deposited by laser ablation technique. <i>Thin Solid Films</i> , 2001, 387, 208-211.	0.8	36
8	Structural and optical properties of pulsed laser-deposited ZnSe films. <i>Applied Surface Science</i> , 2002, 186, 521-526.	3.1	36
9	Temperature dependence of the optical properties of ZnSe films deposited on quartz substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 127-130.	1.1	33
10	Visible micro-Raman spectroscopy of single human mammary epithelial cells exposed to x-ray radiation. <i>Journal of Biomedical Optics</i> , 2015, 20, 035003.	1.4	33
11	Fluorescence spectroscopy of synthetic melanin in solution. <i>Journal of Luminescence</i> , 2009, 129, 44-49.	1.5	30
12	Structural properties and photoluminescence study of CdSe/Si epilayers deposited by laser ablation. <i>Journal of Applied Physics</i> , 1998, 83, 3337-3344.	1.1	28
13	Structural and optical characterization of Zn doped CdSe films. <i>Applied Surface Science</i> , 2004, 233, 366-372.	3.1	28
14	An Investigation on Micro-Raman Spectra and Wavelet Data Analysis for Pemphigus Vulgaris Follow-up Monitoring. <i>Sensors</i> , 2008, 8, 3656-3664.	2.1	28
15	Absorption and photoconductivity properties of ZnTe thin films formed by pulsed-laser deposition on glass. <i>Applied Surface Science</i> , 2005, 248, 402-405.	3.1	25
16	Vibrational spectroscopy of synthetic and natural eumelanin. <i>Polymer International</i> , 2016, 65, 1323-1330.	1.6	24
17	Microwave-based treatments of wheat kernels do not abolish gluten epitopes implicated in celiac disease. <i>Food and Chemical Toxicology</i> , 2017, 101, 105-113.	1.8	23
18	Fluorescence properties of natural eumelanin biopolymer. <i>Journal of Luminescence</i> , 2011, 131, 1584-1588.	1.5	22

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19	Micro-Raman Spectroscopy and Univariate Analysis for Monitoring Disease Follow-Up. <i>Sensors</i> , 2011, 11, 8309-8322.	2.1	22
20	Decrease in the electric intensity of VLF/LF radio signals and possible connections. <i>Natural Hazards and Earth System Sciences</i> , 2007, 7, 423-430.	1.5	21
21	Mechanical properties of MWPECVD diamond coatings on Si substrate via nanoindentation. <i>Diamond and Related Materials</i> , 2011, 20, 221-226.	1.8	20
22	A Comparison of PCA-LDA and PLS-DA Techniques for Classification of Vibrational Spectra. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5345.	1.3	20
23	Variations in a LF radio signal on the occasion of the recent seismic and volcanic activity in Southern Italy. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 551-557.	1.2	19
24	Plasma deposition and characterization of photoluminescent fluorinated nanocrystalline silicon films. <i>Journal of Applied Physics</i> , 1996, 80, 6564-6566.	1.1	17
25	LF radio anomalies revealed in Italy by the wavelet analysis: Possible preseismic effects during 1997-1998. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 403-408.	1.2	17
26	A REVERBERATION CHAMBER TO INVESTIGATE THE POSSIBLE EFFECTS OF "IN VIVO" EXPOSURE OF RATS TO 1.8 GHz ELECTROMAGNETIC FIELDS: A PRELIMINARY STUDY. <i>Progress in Electromagnetics Research</i> , 2009, 94, 133-152.	1.6	17
27	X-ray irradiation effects on nuclear and membrane regions of single SH-SY5Y human neuroblastoma cells investigated by Raman micro-spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 164, 557-573.	1.4	17
28	Laser ablation of highly oriented CdSe thin films and multilayers on silicon substrates. <i>Applied Surface Science</i> , 1996, 106, 144-148.	3.1	16
29	Electrical and optical characterization of multilayered thin film based on pulsed laser deposition of metal oxides. <i>Applied Surface Science</i> , 2000, 168, 141-145.	3.1	16
30	Structural disorder in CdSxSe1-x films probed by microdiffraction experiments. <i>Applied Surface Science</i> , 2002, 186, 527-532.	3.1	16
31	An algorithm for estimation of background signal of Raman spectra from biological cell samples using polynomial functions of different degrees. <i>Vibrational Spectroscopy</i> , 2016, 83, 132-137.	1.2	16
32	Photoluminescence properties of C60 films deposited on silicon substrate. <i>Journal of Luminescence</i> , 2000, 86, 129-135.	1.5	15
33	A possible preseismic anomaly in the ground wave of a radio broadcasting (216 kHz) during July-August 1998 (Italy). <i>Natural Hazards and Earth System Sciences</i> , 2005, 5, 727-732.	1.5	15
34	Human airway epithelial cells investigated by atomic force microscopy: A hint to cystic fibrosis epithelial pathology. <i>Experimental Cell Research</i> , 2016, 348, 46-55.	1.2	15
35	Discrimination of different degrees of oral squamous cell carcinoma by means of Raman microspectroscopy and atomic force microscopy. <i>Analytical Methods</i> , 2015, 7, 699-707.	1.3	14
36	Hydrogen plasma passivation of InP: Real time ellipsometry monitoring and ex situ photoluminescence measurements. <i>Applied Physics Letters</i> , 1996, 69, 685-687.	1.5	13

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37	Structural and optical parameters of films deposited on quartz substrates by laser ablation. <i>Semiconductor Science and Technology</i> , 1998, 13, 1446-1455.	1.0	12
38	Exposure to 1.8 GHz electromagnetic fields affects morphology, DNA-related Raman spectra and mitochondrial functions in human lympho-monocytes. <i>PLoS ONE</i> , 2018, 13, e0192894.	1.1	12
39	The role of randomly distributed well widths in disordered GaAs/AlGaAs superlattices. <i>Semiconductor Science and Technology</i> , 1996, 11, 308-314.	1.0	11
40	Luminescence study of the disorder in polycrystalline InP thin films. <i>Semiconductor Science and Technology</i> , 2001, 16, 377-385.	1.0	11
41	Raman spectroscopy for the evaluation of the radiobiological sensitivity of normal human breast cells at different time points after irradiation by a clinical proton beam. <i>Analyst, The</i> , 2019, 144, 2097-2108.	1.7	11
42	The growth and characterization of single crystals. <i>Journal Physics D: Applied Physics</i> , 1997, 30, 2509-2513.	1.3	10
43	Identification of chemical modification in single human keratinocyte cells exposed to low doses of chlorpyrifos by Raman microspectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 603-611.	1.2	10
44	Toward smooth MWPECVD diamond films: Exploring the limits of the hydrogen percentage in Ar/H ₂ /CH ₄ gas mixture. <i>Surface and Coatings Technology</i> , 2012, 211, 152-157.	2.2	10
45	Effect of disorder on the Raman scattering of CdS _x Se _{1-x} films deposited by laser ablation. <i>Solid State Communications</i> , 2000, 116, 115-119.	0.9	9
46	Detection of pesticide effects in human keratinocytes by means of Raman microspectroscopy. <i>Applied Physics Letters</i> , 2009, 95, 083701.	1.5	9
47	Raman spectroscopy monitoring of MCF10A cells irradiated by protons at clinical doses. <i>International Journal of Radiation Biology</i> , 2019, 95, 207-214.	1.0	9
48	Structural and optical properties of Si thin films and Si multilayered structures grown on silicon by laser ablation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997, 43, 102-107.	1.7	8
49	Raman Spectroscopy of Human Neuronal and Epidermal Cells Exposed to an Insecticide Mixture of Chlorpyrifos and Deltamethrin. <i>Applied Spectroscopy</i> , 2014, 68, 1123-1131.	1.2	8
50	Disturbances in groundwater chemical parameters related to seismic and volcanic activity in Kamchatka (Russia). <i>Natural Hazards and Earth System Sciences</i> , 2004, 4, 535-539.	1.5	7
51	Role of the deposition parameters and aging on the optical and photoluminescence properties of C70 films. <i>Thin Solid Films</i> , 2007, 515, 7247-7252.	0.8	7
52	Characterization of human cells exposed to deltamethrin by means of Raman microspectroscopy and atomic force microscopy. <i>Vibrational Spectroscopy</i> , 2011, , .	1.2	7
53	Raman microspectroscopy discrimination of single human keratinocytes exposed at low dose of pesticide. <i>Journal of Molecular Structure</i> , 2012, 1010, 123-129.	1.8	7
54	Thermoluminescent response of thin (2 Å) polycrystalline diamond films grown by pulsed and continuous microwave plasmas. <i>Diamond and Related Materials</i> , 2010, 19, 470-473.	1.8	6

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55	Atomic force microscopy investigation of morphological changes in living keratinocytes treated with HgCl ₂ at not cytotoxic doses. <i>Journal of Microscopy</i> , 2011, 243, 40-46.	0.8	6
56	Comparison between photoemitting and colloidal properties of nanodiamond particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 493-500.	2.3	6
57	FT-IR Transfection Micro-Spectroscopy Study on Normal Human Breast Cells after Exposure to a Proton Beam. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 540.	1.3	6
58	The growth and properties of single crystals of , a ternary chalcogenide semiconductor. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 1433-1437.	1.3	5
59	Photoluminescence analysis on Teflon bulk and Teflon-like films grown by Ion-beam sputtering. <i>Journal of Luminescence</i> , 2000, 91, 87-90.	1.5	5
60	Photoluminescence properties of homoepitaxial InP films grown by remote plasma MOCVD technique. <i>Semiconductor Science and Technology</i> , 2000, 15, 736-743.	1.0	5
61	Retrospective analysis for detecting seismic precursors in groundwater argon content. <i>Natural Hazards and Earth System Sciences</i> , 2004, 4, 9-15.	1.5	5
62	Localized surface plasmon resonances in gold nano-patches on a gallium nitride substrate. <i>Nanotechnology</i> , 2012, 23, 455709.	1.3	5
63	Biochemical Changes in Human Cells Exposed to Low Concentrations of Gold Nanoparticles Detected by Raman Microspectroscopy. <i>Sensors</i> , 2019, 19, 2418.	2.1	5
64	Comparison of FTIR spectra of different breast cell lines to detect spectral biomarkers of pathology. <i>Infrared Physics and Technology</i> , 2022, 120, 103976.	1.3	5
65	Apparatus for "in vivo" exposure at 1.8 GHz microwaves. <i>Journal of Instrumentation</i> , 2011, 6, T07002-T07002.	0.5	4
66	Ultrafast transient absorption of eumelanin suspensions: the role of inverse Raman scattering. <i>Biomedical Optics Express</i> , 2015, 6, 4000.	1.5	4
67	A Comparison between FTIR Spectra from HUKC and SH-SY5Y Cell Lines Grown on Different Substrates. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8825.	1.3	4
68	Recognition of healthy and cancerous breast cells: Sensing the differences by dielectric spectroscopy. <i>Medical Physics</i> , 2020, 47, 5373-5382.	1.6	3
69	Discrimination of Different Breast Cell Lines on Glass Substrate by Means of Fourier Transform Infrared Spectroscopy. <i>Sensors</i> , 2021, 21, 6992.	2.1	3
70	DNA-Related Modifications in a Mixture of Human Lympho-Monocyte Exposed to Radiofrequency Fields and Detected by Raman Microspectroscopy Analysis. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3700.	1.3	1
71	Keratinocyte cellular damage induced by pesticide doses below the cytotoxic level evidenced by electrical impedance and broadband dielectric spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 125402.	1.3	1
72	Raman micro-spectroscopy investigation on the effects of x-rays and polyphenols in human neuroblastoma cells. , 2019, , .		0

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73	Evaluation of Proton-Induced Biomolecular Changes in MCF-10A Breast Cells by Means of FT-IR Microspectroscopy. Applied Sciences (Switzerland), 2022, 12, 5074.	1.3	0