

# Vito Capozzi

## List of Publications by Year in descending order

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122  
papers

2,064  
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279701

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124  
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124  
docs citations

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times ranked

2408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiofrequency radiation (900 MHz) induces Egr-1 gene expression and affects cell-cycle control in human neuroblastoma cells. <i>Journal of Cellular Physiology</i> , 2007, 213, 759-767.	2.0	89
2	Optical spectroscopy of extrinsic recombinations in gallium selenide. <i>Physical Review B</i> , 1989, 40, 3182-3190.	1.1	79
3	Optical spectra and photoluminescence of C60 thin films. <i>Solid State Communications</i> , 1996, 98, 853-858.	0.9	77
4	Kinetics of radiative recombinations in GaSe and influence of Cu doping on the luminescence spectra. <i>Physical Review B</i> , 1983, 28, 4620-4627.	1.1	72
5	Raman and optical spectroscopy of eumelanin films. <i>Journal of Molecular Structure</i> , 2005, 744-747, 717-721.	1.8	69
6	Characterization of obstructive sleep apnea/hypopnea syndrome (<scp>OSA</scp>) population by means of cluster analysis. <i>Journal of Sleep Research</i> , 2016, 25, 724-730.	1.7	66
7	Direct and indirect excitonic emission in GaSe. <i>Physical Review B</i> , 1981, 23, 836-840.	1.1	59
8	Optical characterization of CdS Se <sub>1-x</sub> films grown on quartz substrate by pulsed laser ablation technique. <i>Thin Solid Films</i> , 1999, 349, 220-224.	0.8	56
9	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
10	Wet chemical nitridation of GaAs (100) by hydrazine solution for surface passivation. <i>Applied Physics Letters</i> , 2002, 80, 3739-3741.	1.5	49
11	N <sub>2</sub> /H <sub>2</sub> remote plasma nitridation for GaAs surface passivation. <i>Applied Physics Letters</i> , 2002, 81, 16-18.	1.5	47
12	Excitonic luminescence of CdS x Se 1-x films deposited by laser ablation on Si substrate. <i>Solid State Communications</i> , 2000, 114, 161-166.	0.9	45
13	Photoluminescence properties of Cu-doped GaSe. <i>Journal of Physics C: Solid State Physics</i> , 1981, 14, 4335-4346.	1.5	43
14	Electrical and optical properties of natural and synthetic melanin biopolymer. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1221-1226.	1.5	42
15	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
16	Structural and optical properties of pulsed laser-deposited ZnSe films. <i>Applied Surface Science</i> , 2002, 186, 521-526.	3.1	36
17	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
18	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

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19	Fluorescence spectroscopy of synthetic melanin in solution. <i>Journal of Luminescence</i> , 2009, 129, 44-49.	1.5	30
20	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
21	Structural and optical characterization of Zn doped CdSe films. <i>Applied Surface Science</i> , 2004, 233, 366-372.	3.1	28
22	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
23	Urea-induced ROS accelerate senescence in endothelial progenitor cells. <i>Atherosclerosis</i> , 2017, 263, 127-136.	0.4	26
24	Vibrational spectroscopy of synthetic and natural eumelanin. <i>Polymer International</i> , 2016, 65, 1323-1330.	1.6	24
25	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
26	Spontaneous and optically amplified luminescence from exciton-exciton collisions in GaSe at liquid-He temperature. <i>Physical Review B</i> , 1983, 28, 4461-4467.	1.1	22
27	Fluorescence properties of natural eumelanin biopolymer. <i>Journal of Luminescence</i> , 2011, 131, 1584-1588.	1.5	22
28	Micro-Raman Spectroscopy and Univariate Analysis for Monitoring Disease Follow-Up. <i>Sensors</i> , 2011, 11, 8309-8322.	2.1	22
29	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
30	X-ray, absorption and photocurrent properties of thin-film GaAs on glass formed by pulsed-laser deposition. <i>Semiconductor Science and Technology</i> , 2004, 19, 1322-1324.	1.0	20
31	Mechanical properties of MWPECVD diamond coatings on Si substrate via nanoindentation. <i>Diamond and Related Materials</i> , 2011, 20, 221-226.	1.8	20
32	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
33	Exciton-carrier scattering in gallium selenide. <i>Physical Review B</i> , 1993, 47, 6340-6349.	1.1	19
34	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
35	Plasma deposition and characterization of photoluminescent fluorinated nanocrystalline silicon films. <i>Journal of Applied Physics</i> , 1996, 80, 6564-6566.	1.1	17
36	Photoluminescence spectra of C60 thin films deposited on different substrates. <i>Carbon</i> , 1997, 35, 763-766.	5.4	17

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37	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
38	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
39	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
40	Mott transition of the excitons in GaSe. <i>Physical Review B</i> , 1989, 39, 10982-10994.	1.1	16
41	Title is missing!. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 9235-9252.	0.7	16
42	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
43	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
44	Structural disorder in CdSxSe1-x films probed by microdiffraction experiments. <i>Applied Surface Science</i> , 2002, 186, 527-532.	3.1	16
45	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
46	Space-charge-limited currents in GaSe at different temperatures. <i>Physica Status Solidi A</i> , 1977, 40, 93-100.	1.7	15
47	Space charge limited current measurements in ZnIn2S4. <i>Physica Status Solidi A</i> , 1978, 46, 589-593.	1.7	15
48	Thermalization of photoexcited localized excitons in GaSe samples with stacking disorder. <i>Physical Review B</i> , 1986, 34, 3924-3931.	1.1	15
49	Absorption spectra of GaAs/AlxGa1-xAs random superlattices at 2 K. <i>Physical Review B</i> , 1996, 53, 1018-1021.	1.1	15
50	Photoluminescence properties of C60 films deposited on silicon substrate. <i>Journal of Luminescence</i> , 2000, 86, 129-135.	1.5	15
51	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
52	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
53	Temperature dependence of anomalous and ordinary Raman scattering in $\hat{\Gamma}^2$ -AgI. <i>Solid State Communications</i> , 1978, 28, 35-37.	0.9	14
54	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

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55	Radiative Decay from Free and Bound Excitons in GaSe. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 129, 247-257.	0.7	13
56	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
57	Topological organization of NADPH-oxidase in haematopoietic stem cell membrane: preliminary study by fluorescence near-field optical microscopy. <i>Journal of Microscopy</i> , 2008, 229, 517-524.	0.8	13
58	Analysis of the excitonic mott transition in GaSe. <i>Solid State Communications</i> , 1987, 61, 321-325.	0.9	12
59	On the excitonic Mott transition in the static screening approximation. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 1485-1495.	1.5	12
60	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
61	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
62	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
63	Luminescence study of the disorder in polycrystalline InP thin films. <i>Semiconductor Science and Technology</i> , 2001, 16, 377-385.	1.0	11
64	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
65	The growth and characterization of single crystals. <i>Journal Physics D: Applied Physics</i> , 1997, 30, 2509-2513.	1.3	10
66	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
67	Toward smooth MWPECVD diamond films: Exploring the limits of the hydrogen percentage in Ar/H <sub>2</sub> /CH <sub>4</sub> gas mixture. <i>Surface and Coatings Technology</i> , 2012, 211, 152-157.	2.2	10
68	Optical properties of fullerite thin films in the 0.4 to 32 eV energy range. <i>Physica Status Solidi (B): Basic Research</i> , 1994, 183, 267-275.	0.7	9
69	Optical characterization of fullerite C <sub>60</sub> thin films. <i>Synthetic Metals</i> , 1996, 77, 3-5.	2.1	9
70	Temperature and excitation intensity dependencies of the photoluminescence spectra of GaAs/(AlGa)As disordered superlattices. <i>Physical Review B</i> , 1996, 54, 7643-7646.	1.1	9
71	Effect of disorder on the Raman scattering of CdS <sub>x</sub> Se <sub>1-x</sub> films deposited by laser ablation. <i>Solid State Communications</i> , 2000, 116, 115-119.	0.9	9
72	Detection of pesticide effects in human keratinocytes by means of Raman microspectroscopy. <i>Applied Physics Letters</i> , 2009, 95, 083701.	1.5	9

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73	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
74	Structural and optical properties of $\text{In}_2\text{S}_3$ thin films and $\text{In}_2\text{S}_3$ 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
75	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
76	Disturbances in a VLF radio signal prior the $M=4.7$ offshore Anzio (central Italy) earthquake on 22 August 2005. <i>Natural Hazards and Earth System Sciences</i> , 2008, 8, 1041-1048.	1.5	8
77	Reflectance of disordered superlattices. <i>Solid State Communications</i> , 1996, 98, 705-709.	0.9	7
78	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
79	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
80	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
81	Thermoluminescent response of thin ( $2\mu\text{m}$ ) polycrystalline diamond films grown by pulsed and continuous microwave plasmas. <i>Diamond and Related Materials</i> , 2010, 19, 470-473.	1.8	6
82	Atomic force microscopy investigation of morphological changes in living keratinocytes treated with $\text{HgCl}_2$ at not cytotoxic doses. <i>Journal of Microscopy</i> , 2011, 243, 40-46.	0.8	6
83	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
84	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
85	A Wafer Bin Map $\alpha$ -Relaxed Clustering Algorithm for Improving Semiconductor Production Yield. <i>Open Computer Science</i> , 2020, 10, 231-245.	1.3	6
86	Photoluminescence of $\text{GaSe}(\text{Cu})$ doped by ion implantation. <i>Solid State Communications</i> , 1981, 38, 341-343.	0.9	5
87	UV spectra of graphite microparticles produced by laser vaporization. <i>Solid State Communications</i> , 1993, 85, 729-734.	0.9	5
88	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
89	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
90	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

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91	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
92	Localized surface plasmon resonances in gold nano-patches on a gallium nitride substrate. <i>Nanotechnology</i> , 2012, 23, 455709.	1.3	5
93	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
94	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
95	Red-shift of the excitonic level in two beam absorption spectra of GaSe. <i>Physica Scripta</i> , 1988, 38, 627-631.	1.2	4
96	Apparatus for "in vivo" exposure at 1.8 GHz microwaves. <i>Journal of Instrumentation</i> , 2011, 6, T07002-T07002.	0.5	4
97	Morphology of synthetic DOPA-eumelanin deposited on glass and mica substrates: An atomic force microscopy investigation. <i>Micron</i> , 2014, 64, 28-33.	1.1	4
98	Ultrafast transient absorption of eumelanin suspensions: the role of inverse Raman scattering. <i>Biomedical Optics Express</i> , 2015, 6, 4000.	1.5	4
99	A Comparison between FTIR Spectra from HLUKE and SH-SY5Y Cell Lines Grown on Different Substrates. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8825.	1.3	4
100	Anomalous dips in extinction spectra of disordered carbon grains. <i>Optics Communications</i> , 1988, 68, 166-170.	1.0	3
101	A low cost correlator employing a personal computer. <i>Review of Scientific Instruments</i> , 1992, 63, 2152-2156.	0.6	3
102	Dynamics of multiphonon processes in luminescence spectra of oxygen-bound excitons in ZnTe: O. <i>Journal of Luminescence</i> , 1994, 58, 206-209.	1.5	3
103	Recognition of healthy and cancerous breast cells: Sensing the differences by dielectric spectroscopy. <i>Medical Physics</i> , 2020, 47, 5373-5382.	1.6	3
104	Clustering Techniques for Revealing Gene Expression Patterns. , 2015, , 438-447.		3
105	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
106	Amorphous carbon grains: Size effects in ultraviolet spectra. <i>Solid State Communications</i> , 1988, 65, 1193-1196.	0.9	2
107	Optical Gain in ZnTe:O at Room Temperature. <i>Europhysics Letters</i> , 1991, 16, 763-766.	0.7	2
108	Experimental analysis of the noise in photon-correlation and photon-structure functions. <i>Physical Review A</i> , 1992, 45, R3391-R3393.	1.0	2

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109	Experimental photon statistics of multiscattered light. <i>Physical Review E</i> , 1994, 49, 3531-3534.	0.8	2
110	Photocurrent spectroscopy in n-i-n short period superlattice. <i>Solid State Communications</i> , 1995, 94, 429-433.	0.9	2
111	Anderson and Stark localization in superlattices: Residual coupling and fine structure. <i>Solid State Communications</i> , 1996, 100, 17-20.	0.9	2
112	Extended states in one-dimensional random potential. <i>Solid State Communications</i> , 1997, 103, 15-18.	0.9	2
113	Raman spectroscopy of thallium chloride in the melting region. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1977, 64, 319-321.	0.9	1
114	A simple apparatus for the direct measurement of optical gain spectra. <i>Optics Communications</i> , 1981, 38, 284-288.	1.0	1
115	Evidence of the exciton-plasma transition in the emission spectra of GaSe. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1986, 8, 531-540.	0.4	1
116	Interference effects in the uv extinction spectra of inhomogeneous amorphous silicon. <i>Physical Review B</i> , 1993, 48, 12292-12295.	1.1	1
117	Low temperature photocurrent spectra of ordered and disordered superlattices. <i>Solid State Communications</i> , 1999, 109, 305-310.	0.9	1
118	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
119	Epitaxial Growth and Processing of InP Films in a 'Novel' Remote Plasma-MOCVD Apparatus. <i>Materials Science Forum</i> , 1996, 203, 85-90.	0.3	0
120	Photoluminescence excitation spectra of disordered superlattices. <i>Journal of Luminescence</i> , 1998, 78, 259-264.	1.5	0
121	Anderson and Stark localization in GaAs/(AlGa)As disordered superlattices. <i>Superlattices and Microstructures</i> , 1998, 23, 9-12.	1.4	0
122	Evaluation of Proton-Induced Biomolecular Changes in MCF-10A Breast Cells by Means of FT-IR Microspectroscopy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5074.	1.3	0