

Valentina Mussi

List of Publications by Year in descending order

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71
papers

1,045
citations

471371

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29
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docs citations

71
times ranked

1583
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions of single-wall carbon nanotubes with endothelial cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 277-288.	1.7	72
2	Schroedinger cat states and optimum universal quantum cloning by entangled parametric amplification. <i>Optics Communications</i> , 2000, 179, 581-589.	1.0	61
3	Disordered array of Au covered Silicon nanowires for SERS biosensing combined with electrochemical detection. <i>Scientific Reports</i> , 2016, 6, 25099.	1.6	49
4	DNA detection with a polymeric nanochannel device. <i>Lab on A Chip</i> , 2011, 11, 2961.	3.1	48
5	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	3.2	46
6	Preparation and properties of macroporous brushite bone cements. <i>Acta Biomaterialia</i> , 2009, 5, 2161-2168.	4.1	43
7	DNA-functionalized solid state nanopore for biosensing. <i>Nanotechnology</i> , 2010, 21, 145102.	1.3	42
8	“DNA-Dressed Nanopore” for complementary sequence detection. <i>Biosensors and Bioelectronics</i> , 2011, 29, 125-131.	5.3	41
9	Mechanical properties of “two generations” of teeth aligners: Change analysis during oral permanence. <i>Dental Materials Journal</i> , 2018, 37, 835-842.	0.8	41
10	Modulating DNA Translocation by a Controlled Deformation of a PDMS Nanochannel Device. <i>Scientific Reports</i> , 2012, 2, 791.	1.6	38
11	Surface nanostructuring and optical activation of lithium fluoride crystals by ion beam irradiation. <i>Applied Physics Letters</i> , 2006, 88, 103116.	1.5	37
12	Mode analysis in He ⁺ -implanted lithium fluoride planar waveguides. <i>Applied Physics Letters</i> , 2003, 82, 3886-3888.	1.5	35
13	Nanotechnology Applications in Medicine. <i>Tumori</i> , 2008, 94, 206-215.	0.6	27
14	Array of disordered silicon nanowires coated by a gold film for combined NIR photothermal treatment of cancer cells and Raman monitoring of the process evolution. <i>Nanotechnology</i> , 2018, 29, 415102.	1.3	24
15	Silver-Coated Disordered Silicon Nanowires Provide Highly Sensitive Label-Free Glycated Albumin Detection through Molecular Trapping and Plasmonic Hotspot Formation. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001110.	3.9	23
16	Raman analysis and mapping for the determination of COOH groups on oxidized single walled carbon nanotubes. <i>Carbon</i> , 2010, 48, 3391-3398.	5.4	22
17	Ion sputtered surfaces as templates for carbon nanotubes alignment and deformation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 230, 545-550.	0.6	17
18	A sensitive and practical fluorimetric test for CNT acidic site determination. <i>Chemical Communications</i> , 2010, 46, 1443.	2.2	16

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19	Size and functional tuning of solid state nanopores by chemical functionalization. <i>Nanotechnology</i> , 2012, 23, 435301.	1.3	15
20	Insights into the morphological pattern of erythrocytes' aging: Coupling quantitative AFM data to microcalorimetry and Raman spectroscopy. <i>Journal of Molecular Recognition</i> , 2018, 31, e2732.	1.1	15
21	Fabrication and spectroscopic characterization of graphene transparent electrodes on flexible cyclo-olefin substrates for terahertz electro-optic applications. <i>Nanotechnology</i> , 2020, 31, 364006.	1.3	15
22	Selective protein detection with a dsLNA-functionalized nanopore. <i>Biosensors and Bioelectronics</i> , 2015, 64, 219-226.	5.3	14
23	Photoacoustic technique for the characterization of plasmonic properties of 2D periodic arrays of gold nanoholes. <i>AIP Advances</i> , 2017, 7, 025210.	0.6	14
24	Efficient Photothermal Generation by Nanoscale Light Trapping in a Forest of Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14134-14140.	1.5	14
25	Physical and chemical mechanisms involved in adhesion of orthodontic bonding composites: in vitro evaluations. <i>BMC Oral Health</i> , 2021, 21, 350.	0.8	14
26	The propagator for a particle in a well. <i>European Journal of Physics</i> , 2001, 22, 53-66.	0.3	13
27	Infrared near-field microscopy with the Vanderbilt free electron laser: overview and perspectives. <i>Infrared Physics and Technology</i> , 2004, 45, 409-416.	1.3	13
28	In situ study of the dewetting behavior of Ni-films on oxidized Si(001) by GISAXS. <i>Surface Science</i> , 2007, 601, 4526-4530.	0.8	13
29	Living Matter Observations with a Novel Hyperspectral Supercontinuum Confocal Microscope for VIS to Near-IR Reflectance Spectroscopy. <i>Sensors</i> , 2013, 13, 14523-14542.	2.1	12
30	A Deep Morphological Characterization and Comparison of Different Dental Restorative Materials. <i>BioMed Research International</i> , 2017, 2017, 1-16.	0.9	12
31	Broad band light-emitting nanostructured substrates by ion beam irradiation of lithium fluoride crystals. <i>Surface Science</i> , 2007, 601, 2746-2749.	0.8	11
32	Mechanical squeezing of an elastomeric nanochannel device: numerical simulations and ionic current characterization. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 21-30.	1.0	11
33	Silver-coated silicon nanowire platform discriminates genomic DNA from normal and malignant human epithelial cells using label-free Raman spectroscopy. <i>Materials Science and Engineering C</i> , 2021, 122, 111951.	3.8	10
34	Study of Microplastics and Inorganic Contaminants in Mussels from the Montenegrin Coast, Adriatic Sea. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 544.	1.2	10
35	Lithium fluoride films and crystals containing metallic colloids studied by scanning near-field optical microscopy Presented at the LANMAT 2001 Conference on the Interaction of Laser Radiation with Matter at Nanoscopic Scales: From Single Molecule Spectroscopy to Materials Processing, Venice, 3-6 October, 2001. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2742-2746.	1.3	9
36	Functionalization of Single-Walled Carbon Nanotubes through 1,3-Cyclo-Addition of Carbonyl Ylides under Microwave Irradiation. <i>Synlett</i> , 2012, 23, 1459-1462.	1.0	9

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37	Concentration of F2 and F3+ defects in He+ implanted LiF crystals determined by optical transmission and photoluminescence measurements. <i>Optical Materials</i> , 2003, 24, 291-296.	1.7	8
38	Electrical characterization of DNA-functionalized solid state nanopores for bio-sensing. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454104.	0.7	8
39	Label-free and non-invasive discrimination of HaCaT and melanoma cells in a co-culture model by hyperspectral confocal reflectance microscopy. <i>Journal of Biophotonics</i> , 2016, 9, 619-625.	1.1	7
40	Focused ion beam surface treatments of single crystal zinc oxide for device fabrication. <i>Materials and Design</i> , 2016, 112, 530-538.	3.3	7
41	Universal Quantum Cloning and Macroscopic Superposition in Parametric Amplification. <i>Fortschritte Der Physik</i> , 2000, 48, 413-422.	1.5	6
42	Optical investigation of metallic lithium colloids and F-centres in ion-assisted LiF thin films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 15, 012017.	0.3	6
43	Label-free discrimination of cells undergoing apoptosis by hyperspectral confocal reflectance imaging. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 8, .	0.9	6
44	MOCVD Growth of GeTe/Sb2Te3 Core-Shell Nanowires. <i>Coatings</i> , 2021, 11, 718.	1.2	6
45	Hybrid Electrothermal Simulations of GaN HEMT Devices Based on Self-Heating Free Virtual Electrical Characteristics. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 3740-3747.	1.6	6
46	Growth, Electronic and Electrical Characterization of Ge-Rich Ge-Sb-Te Alloy. <i>Nanomaterials</i> , 2022, 12, 1340.	1.9	6
47	IR-SNOM on lithium fluoride films with regular arrays based on colour centres. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 3075-3080.	0.8	5
48	Nanostructuring polymers by soft lithography templates realized via ion sputtering. <i>Nanotechnology</i> , 2005, 16, 2714-2717.	1.3	5
49	Solid state nanopores for gene expression profiling. <i>Superlattices and Microstructures</i> , 2009, 46, 59-63.	1.4	5
50	<p>A 3D-Printed Multi-Chamber Device Allows Culturing Cells On Buckypapers Coated With PAMAM Dendrimer And Obtain Innovative Materials For Biomedical Applications</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 9295-9306.	3.3	5
51	Antiviral Filtering Capacity of GO-Coated Textiles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7501.	1.3	5
52	Phase Change Ge-Rich Ge-Sb-Te/Sb2Te3 Core-Shell Nanowires by Metal Organic Chemical Vapor Deposition. <i>Nanomaterials</i> , 2021, 11, 3358.	1.9	5
53	Terahertz characterization of graphene conductivity via time-domain reflection spectroscopy on metal-backed dielectric substrates. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 365101.	1.3	5
54	Defect generation in low-energy ion-assisted thermal deposited lithium fluoride films. <i>Journal of Non-Crystalline Solids</i> , 2003, 322, 111-116.	1.5	4

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55	Binding force measurement of NF- κ B α ODNs interaction: An AFM based decoy and drug testing tool. Biosensors and Bioelectronics, 2011, 28, 158-165.	5.3	4
56	Multivariate analysis of mean Raman spectra of erythrocytes for a fast analysis of the biochemical signature of ageing. Talanta, 2021, 221, 121442.	2.9	4
57	Raman Mapping of Biological Systems Interacting with a Disordered Nanostructured Surface: A Simple and Powerful Approach to the Label-Free Analysis of Single DNA Bases. Micromachines, 2021, 12, 264.	1.4	4
58	Structural and Electrical Properties of Annealed Ge ₂ Sb ₂ Te ₅ Films Grown on Flexible Polyimide. Nanomaterials, 2022, 12, 2001.	1.9	4
59	Multivariate analysis applied to Raman mapping of dye-functionalized carbon nanotubes: a novel approach to support the rational design of functional nanostructures. Analyst, The, 2015, 140, 5754-5763.	1.7	3
60	Zn nanoparticle formation in FIB irradiated single crystal ZnO. Applied Surface Science, 2018, 433, 899-903.	3.1	3
61	Aggregation behaviour of triphenylphosphonium bolaamphiphiles. Journal of Colloid and Interface Science, 2018, 531, 451-462.	5.0	3
62	Optical nanospectroscopy applications in material science. Applied Surface Science, 2004, 234, 374-386.	3.1	2
63	Active waveguides produced in lithium fluoride by He ⁺ implantation. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 257-261.	0.6	2
64	Optical Investigation of Metallic Colloids in Ion-Irradiated Lithium Fluoride (LiF) Crystals. Radiation Effects and Defects in Solids, 2003, 158, 181-184.	0.4	1
65	Toward control of point defects in lithium fluoride thin layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 864-869.	0.8	1
66	Ga ₂ Se ₃ Nanowires via Au-Assisted Heterovalent Exchange Reaction on GaAs. Journal of Physical Chemistry C, 2020, 124, 17783-17794.	1.5	1
67	About optical coupling properties of 2D plasmonic nanostructures. , 2015, , .		1
68	Label-Free Morpho-Molecular Imaging for Studying the Differential Interaction of Black Phosphorus with Tumor Cells. Nanomaterials, 2022, 12, 1994.	1.9	1
69	Optical characterization of active waveguides produced in lithium fluoride by He ⁺ implantation. , 0, , .		0
70	Influence of diameter on temperature dynamics of hot carriers in photoexcited GaAsP nanowires. Physical Review B, 2021, 104, .	1.1	0
71	OPTICAL SPECTROSCOPY AND SCANNING NEAR-FIELD OPTICAL MICROSCOPY ON HE ⁺ IRRADIATED LITHIUM FLUORIDE CRYSTALS. , 2004, , .		0