

# Giuseppina Padeletti

## List of Publications by Year in descending order

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94  
papers

2,177  
citations

218381

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95  
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95  
docs citations

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times ranked

2962  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Green Synthesis of Goldâ€“Chitosan Nanocomposites for Caffeic Acid Sensing. <i>Langmuir</i> , 2012, 28, 5471-5479.   | 1.6 | 123       |
| 2  | Heterogeneous distribution of metal nanocrystals in glazes of historical pottery. <i>Applied Surface Science</i> , 2002, 185, 206-216.   | 3.1 | 92        |
| 3  | Third-generation biosensors based on TiO <sub>2</sub> nanostructured films. <i>Materials Science and Engineering C</i> , 2006, 26, 947-951.  | 3.8 | 89        |
| 4  | Effects of plasma treatments for improving extreme wettability behavior of cotton fabrics. <i>Cellulose</i> , 2014, 21, 741-756.   | 2.4 | 88        |
| 5  | XPS investigation on vacuum thermal desorption of UV/ozone treated GaAs(100) surfaces. <i>Applied Surface Science</i> , 1992, 56-58, 81-88.  | 3.1 | 87        |
| 6  | Zirconia primers for corrosion resistant coatings. <i>Surface and Coatings Technology</i> , 2007, 201, 5822-5828.  | 2.2 | 85        |
| 7  | Ultra Hydrophobic/Superhydrophilic Modified Cotton Textiles through Functionalized Diamond-Like Carbon Coatings for Self-Cleaning Applications. <i>Langmuir</i> , 2013, 29, 2775-2783.                             | 1.6 | 85        |
| 8  | Chitosan films containing mesoporous SBA-15 supported silver nanoparticles for wound dressing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6054.  | 2.9 | 75        |
| 9  | How the masters in Umbria, Italy, generated and used nanoparticles in art fabrication during the Renaissance period. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 515-525.               | 1.1 | 65        |
| 10 | Influence of PECVD parameters on the properties of diamond-like carbon films. <i>Thin Solid Films</i> , 2011, 519, 4087-4091.  | 0.8 | 61        |
| 11 | Thermal and microchemical investigation of automotive brake pad wear residues. <i>Thermochimica Acta</i> , 2004, 418, 61-68.   | 1.2 | 55        |
| 12 | Biomimetic Magnetic Silk Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6282-6292.  | 4.0 | 52        |
| 13 | Deposition of Ti-containing diamond-like carbon (DLC) films by PECVD technique. <i>Materials Science and Engineering C</i> , 2007, 27, 1328-1330.  | 3.8 | 49        |
| 14 | Ancient Mercury-Based Plating Methods: Combined Use of Surface Analytical Techniques for the Study of Manufacturing Process and Degradation Phenomena. <i>Accounts of Chemical Research</i> , 2013, 46, 2365-2375. | 7.6 | 48        |
| 15 | First-time observation of Mastro Giorgio masterpieces by means of non-destructive techniques. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 475-483.                                      | 1.1 | 47        |
| 16 | Smart (Nano) materials: TiO <sub>2</sub> nanostructured films to modify electrodes for assembling of new electrochemical probes. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 441-449.                | 4.0 | 45        |
| 17 | Hydrophobizing coatings for cultural heritage. A detailed study of resin/stone surface interaction. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 341-348.                               | 1.1 | 43        |
| 18 | A brief review of surface-functionalized cotton fabrics. <i>Surface Innovations</i> , 2013, 1, 140-156.  | 1.4 | 42        |

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|----|--|-----|-----------|
| 19 | Gold nanotubules arrays as new materials for sensing and biosensing: Synthesis and characterization. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 526-531.  | 4.0 | 41        |
| 20 | A nanostructured conductive bio-composite of silk fibroin and single walled carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1424.   | 2.9 | 40        |
| 21 | Supramolecular Colloidal Systems of Gold Nanoparticles/Amphiphilic Cyclodextrin: a FE-SEM and XPS Investigation of Nanostructures Assembled onto Solid Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12772-12777.   | 1.5 | 37        |
| 22 | Segregation aspects at the fracture surfaces of 8 wt.% yttria-zirconia thermal barrier coatings. <i>Surface and Interface Analysis</i> , 1994, 21, 450-454.  | 0.8 | 35        |
| 23 | Gold nanoparticles modified GC electrodes: electrochemical behaviour dependence of different neurotransmitters and molecules of biological interest on the particles size and shape. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1925-1936.  | 0.8 | 33        |
| 24 | The effect of pretreatments with siloxanes on the corrosion resistance of aluminium in NaCl solution. <i>Surface and Coatings Technology</i> , 1999, 111, 240-246.   | 2.2 | 32        |
| 25 | Structural Assessment via Ground Penetrating Radar at the Consoli Palace of Gubbio (Italy). <i>Remote Sensing</i> , 2018, 10, 45.  | 1.8 | 28        |
| 26 | A microstructural study of crystalline defects in PbSe/BaF <sub>2</sub> /CaF <sub>2</sub> on (111) Si grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 1993, 132, 241-249.  | 0.7 | 27        |
| 27 | Immobilization of GOD and HRP enzymes on nanostructured substrates. <i>Surface and Interface Analysis</i> , 2006, 38, 478-481.   | 0.8 | 27        |
| 28 | Production of gold and ruby-red lustres in Gubbio (Umbria, Italy) during the Renaissance period. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 241-245.   | 1.1 | 26        |
| 29 | Effect of composition on mechanical behaviour of diamond-like carbon coatings modified with titanium. <i>Thin Solid Films</i> , 2011, 519, 3061-3067.  | 0.8 | 25        |
| 30 | Diagnostic analysis of stone materials from underwater excavations: the case study of the Roman archaeological site of Baia (Naples, Italy). <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 655-662.  | 1.1 | 24        |
| 31 | Italian Renaissance and Hispano-Moresque lustre-decorated majolicas: imitation cases of Hispano-Moresque style in central Italy. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 77, 125-133.   | 1.1 | 23        |
| 32 | Lead enrichment at the surface of lead zirconate titanate thin films. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2495-2498.  | 2.8 | 23        |
| 33 | Feasibility of enzyme biosensors based on gold nanowires. <i>Materials Science and Engineering C</i> , 2007, 27, 1158-1161.  | 3.8 | 23        |
| 34 | Nano-scale topography of bearing surface in advanced alumina/zirconia hip joint before and after severe exposure in water vapor environment. <i>Journal of Orthopaedic Research</i> , 2010, 28, 762-766.   | 1.2 | 23        |
| 35 | Surface morphology of pulsed laser deposited YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> and NdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films on SrTiO <sub>3</sub> substrates. <i>Superconductor Science and Technology</i> , 2000, 13, 1492-1498. | 1.8 | 20        |
| 36 | Structural and morphological characterisation of ruthenium phthalocyanine films by energy dispersive X-ray diffraction and atomic force microscopy. <i>Thin Solid Films</i> , 2001, 382, 74-80.  | 0.8 | 20        |

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|----|---|-----|-----------|
| 37 | XPS investigation of CoO <sub>x</sub> -based MRISiC structures for hydrocarbon gas sensing. Surface and Interface Analysis, 2006, 38, 736-739.  | 0.8 | 20        |
| 38 | The use of small angle X-ray scattering (SAXS) for the characterisation of lustre surfaces in Renaissance majolica. Applied Surface Science, 2002, 185, 309-316.  | 3.1 | 19        |
| 39 | A new light on a first example of lusted majolica in Italy. Applied Physics A: Materials Science and Processing, 2010, 100, 747-761.  | 1.1 | 18        |
| 40 | Technological study of ancient ceramics produced in Casteldurante (central Italy) during the Renaissance. Applied Physics A: Materials Science and Processing, 2004, 79, 335-339.   | 1.1 | 17        |
| 41 | Deposition and characterization of ZrTiO <sub>4</sub> thin films. Surface and Interface Analysis, 2004, 36, 1159-1162.  | 0.8 | 17        |
| 42 | Lusters of renaissance pottery: Experimental and theoretical optical properties using inhomogeneous theories. Applied Physics A: Materials Science and Processing, 2006, 83, 573-579.   | 1.1 | 17        |
| 43 | Physico-chemical analyses of Hispano-Moresque lusted ceramic: a precursor for Italian majolica?. Applied Physics A: Materials Science and Processing, 2008, 92, 11-18.  | 1.1 | 17        |
| 44 | Introducing the HERACLES Ontologyâ€™Semantics for Cultural Heritage Management. Heritage, 2018, 1, 377-391.   | 0.9 | 16        |
| 45 | Critical current density of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films with BaZrO <sub>3</sub> inclusions on SrTiO <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> substrates. Journal of Physics: Conference Series, 2008, 97, 012209.            | 0.3 | 15        |
| 46 | Electrical and morphological characterisation of new Î€-conjugated polymer films as gas sensors. Materials Science and Engineering C, 1998, 5, 217-221.   | 3.8 | 14        |
| 47 | Structural and dielectric properties of ZrTiO <sub>4</sub> and Zr <sub>0.8</sub> Sn <sub>0.2</sub> TiO <sub>4</sub> deposited by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 87-91. | 1.7 | 14        |
| 48 | A scientific approach to the attribution problem of renaissance ceramic productions based on chemical and mineralogical markers. Applied Physics A: Materials Science and Processing, 2010, 100, 771-784.   | 1.1 | 14        |
| 49 | Microchemical and micromorphological features of gunshot residue observed by combined use of AFM, SA-XPS and SEM + EDS. Surface and Interface Analysis, 2002, 34, 502-506.  | 0.8 | 13        |
| 50 | X-ray photoelectron spectroscopy and secondary-ion mass spectrometry of boron nitride thin films on austenitic stainless steel. Thin Solid Films, 1993, 228, 276-279.   | 0.8 | 12        |
| 51 | Silver@Hydroxyapatite functionalized calcium carbonate composites: characterization, antibacterial and antibiofilm activities and cytotoxicity. Applied Surface Science, 2022, 586, 152760.   | 3.1 | 12        |
| 52 | The Use of Nano-Particles to Produce Iridescent Metallic Effects on Ancient Ceramic Objects. Journal of Nanoscience and Nanotechnology, 2012, 12, 8764-8769.  | 0.9 | 11        |
| 53 | Small-area XPS and XAES study of the iron ore smelting process. Surface and Interface Analysis, 1994, 22, 614-619.  | 0.8 | 10        |
| 54 | Surface Segregation Mechanisms in Ferroelectric Thin Films. , 2003, 11, 139-147.  |     | 9         |

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|----|--|-----|-----------|
| 55 | Auger sputtering profiling of an Al <sub>0.3</sub> Ga <sub>0.7</sub> As/GaAs superlattice grown by molecular beam epitaxy. Applied Surface Science, 1992, 56-58, 708-712.  | 3.1 | 8         |
| 56 | Growth of Ge layers on Si(100) monitored by in situ ellipsometry. Thin Solid Films, 1998, 315, 49-56.  | 0.8 | 8         |
| 57 | Bismuth knowledge during the Renaissance strengthened by its use in Italian lustres production. Applied Physics A: Materials Science and Processing, 2004, 79, 277-281.  | 1.1 | 8         |
| 58 | Luminescence properties of lustre decorated majolica. Applied Physics A: Materials Science and Processing, 2004, 79, 293-297.  | 1.1 | 8         |
| 59 | A comparative study of Hispano-Moorish and Italian Renaissance lustred majolicas by using X-ray absorption spectroscopy. Journal of Analytical Atomic Spectrometry, 2015, 30, 738-744.   | 1.6 | 8         |
| 60 | Quantitative analysis of Al <sub>x</sub> Ga <sub>1-x</sub> As/GaAs multiquantum wells by means of AES depth profiling and small area XPS. Applied Surface Science, 1993, 70-71, 89-93.   | 3.1 | 7         |
| 61 | Significant findings concerning the production of Italian Renaissance lustred majolica. Applied Physics A: Materials Science and Processing, 2013, 113, 825-833.   | 1.1 | 7         |
| 62 | Hydroxyapatite Functionalized Calcium Carbonate Composites with Ag Nanoparticles: An Integrated Characterization Study. Nanomaterials, 2021, 11, 2263.   | 1.9 | 7         |
| 63 | Zirconium tin titanate thin films via aqueous polymeric precursor route. Materials Science and Engineering C, 2001, 15, 211-213.   | 3.8 | 6         |
| 64 | Factors determining preferential sputtering in InGaAs system: angle-resolved small-area XPS investigation. Surface and Interface Analysis, 2002, 34, 266-270.  | 0.8 | 6         |
| 65 | Surface Segregation Mechanisms in Dielectric Thin Films. Integrated Ferroelectrics, 2004, 62, 3-11.  | 0.3 | 6         |
| 66 | Microchemical investigation on Renaissance coins minted at Gubbio (Central Italy). Applied Physics A: Materials Science and Processing, 2004, 79, 319-325.   | 1.1 | 6         |
| 67 | ZT thin films produced by metal organic-chemical vapour deposition to be used as high-k dielectrics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 104-112.   | 1.7 | 6         |
| 68 | Resin-Based Materials with Chlorhexidine-Loaded MCM-41: Surface Characteristics, Drug Release, and Antibiofilm Activity. ACS Biomaterials Science and Engineering, 2018, 4, 4144-4153.   | 2.6 | 6         |
| 69 | Heritage Resilience Against Climate Events on Site - HERACLES Project: Mission and Vision. Communications in Computer and Information Science, 2019, , 360-375.  | 0.4 | 6         |
| 70 | Magnetic and Morphological Properties of Ferrofluid-Impregnated Hydroxyapatite/Collagen Scaffolds. Science of Advanced Materials, 2014, 6, 2679-2687.  | 0.1 | 6         |
| 71 | Atomic force microscopy study of the morphological modifications induced by laser processing of Si <sub>[sub (1-x)]</sub> Ce <sub>[sub x]</sub> /Si samples. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 1762. | 1.6 | 5         |
| 72 | Spectroscopic and Morphological Studies of Metal-Organic and Metal-Free Dyes onto Titania Films for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2013, 2013, 1-11.  | 1.4 | 5         |

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|----|--|-----|-----------|
| 73 | The Case Study of the Medieval Town Walls of Gubbio in Italy: First Results on the Characterization of Mortars and Binders. <i>Heritage</i> , 2018, 1, 468-478.  | 0.9 | 5         |
| 74 | A study of PbSe heteroepitaxy on Si(111) for IR optoelectronic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1993, 21, 317-320.  | 1.7 | 4         |
| 75 | Combined use of thermal and surface analyses. <i>Journal of Thermal Analysis</i> , 1996, 47, 263-272.  | 0.7 | 4         |
| 76 | Use of Ptfе Alignment Layers in Passive Addressed Ssflc Displays. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 304, 357-362.  | 0.3 | 4         |
| 77 | Evaluation of structural and adhesive properties of nylon 6 and PTFE alignment films by means of atomic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 71, 571-576.  | 1.1 | 4         |
| 78 | Novel route to high-yield synthesis of sp <sup>2</sup> -hybridized boron nitride nanoplates on stainless steel. <i>Journal of Materials Chemistry</i> , 2011, 21, 10268.   | 6.7 | 4         |
| 79 | Small-area XPS investigation on ion-induced chemical modifications during depth-profiling of an Al <sub>x</sub> Ga <sub>1-x</sub> As/gaas structure. <i>Surface and Interface Analysis</i> , 1994, 22, 31-35.  | 0.8 | 3         |
| 80 | High direct energy band gaps determination in In <sub>x</sub> Al <sub>1-x</sub> As coherently grown on InP. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 243. | 1.6 | 3         |
| 81 | Influence of growth parameters on properties of electroceramic thin films grown via MO-CVD. <i>Materials Science in Semiconductor Processing</i> , 2002, 5, 105-114.   | 1.9 | 3         |
| 82 | Influence of substrate temperature on the chemical and microstructural properties of MO-CVD ZrTiO <sub>4</sub> thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 801-808.   | 1.1 | 3         |
| 83 | Single Walled Carbon Nanotubes (SWCNTs)/Gold Nanoparticles (AuNps) Nanocomposites for Enhancing Electrochemical Response to Detect Neurotransmitters. <i>ECS Transactions</i> , 2010, 25, 33-41.   | 0.3 | 3         |
| 84 | The altarpieces of Della Robbia atelier in Marche region: investigations on technology and provenance. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 1129-1141.  | 1.1 | 3         |
| 85 | Mortars from the Palace of Knossos in Crete, Greece: A Multi-Analytical Approach. <i>Minerals (Basel)</i> , 2018, 8, 1143.   | 0.8 | 3         |
| 86 | Precise and Smooth Removal from Polymer Surfaces by VUV Excimer Laser Ablation at 157 nm: PMMA. <i>Materials Research Society Symposia Proceedings</i> , 1998, 544, 3.   | 0.1 | 2         |
| 87 | Technological investigation of luster decorated ancient majolicas. <i>Materials Research Society Symposia Proceedings</i> , 2002, 712, 841.  | 0.1 | 2         |
| 88 | Comparison of Zr <sub>x</sub> Ti <sub>1-x</sub> O <sub>4</sub> films produced by PLD and MOCVD techniques. <i>Surface and Interface Analysis</i> , 2004, 36, 1151-1154.  | 0.8 | 2         |
| 89 | GPR surveys for soil and structural investigations at Gubbio town, Italy. , 2018, , .  |     | 1         |
| 90 | HERACLES: EU-backed multinational project on cultural heritage preservation. , 2018, , .   |     | 1         |

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|----|---|-----|-----------|
| 91 | One Step Synthesis of Single Walled Carbon Nanotubes/Gold Nanoparticles (SWCNTs/AuNps) Nanocomposite for Enhancing Electrochemical Response of Neurotransmitters. <i>Sensor Letters</i> , 2010, 8, 441-446.   | 0.4 | 1         |
| 92 | Thermal and excimer laser assisted growth of Si(1-x)Ge <sub>x</sub> alloys from Si <sub>2</sub> H <sub>6</sub> and GeH <sub>4</sub> monitored by on line single wavelength ellipsometry and ex situ atomic force microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998, 16, 644-652. | 0.9 | 0         |
| 93 | Nanoparticles and Nanocomposites in Electrochemical Sensing Area. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 125-129.   | 0.3 | 0         |
| 94 | Transparent Hybrid Films for Stone Conservation and Protection. <i>Research for Development</i> , 2015, , 423-429.  | 0.2 | 0         |