

Francois Rossi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8660225/francois-rossi-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209
papers

6,727
citations

47
h-index

70
g-index

214
ext. papers

7,277
ext. citations

4.7
avg, IF

5.47
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 209 | Size-dependent toxicity and cell interaction mechanisms of gold nanoparticles on mouse fibroblasts. <i>Toxicology Letters</i> , 2013 , 217, 205-16 | 4.4 | 247 |
| 208 | Protein--nanoparticle interaction: identification of the ubiquitin--gold nanoparticle interaction site. <i>Nano Letters</i> , 2010 , 10, 3101-5 | 11.5 | 216 |
| 207 | Problems and challenges in the development and validation of human cell-based assays to determine nanoparticle-induced immunomodulatory effects. <i>Particle and Fibre Toxicology</i> , 2011 , 8, 8 | 8.4 | 142 |
| 206 | Genotoxicity and morphological transformation induced by cobalt nanoparticles and cobalt chloride: an in vitro study in Balb/3T3 mouse fibroblasts. <i>Mutagenesis</i> , 2009 , 24, 439-45 | 2.8 | 137 |
| 205 | Physical properties of a-C: N films produced by ion beam assisted deposition. <i>Journal of Materials Research</i> , 1994 , 9, 2440-2449 | 2.5 | 127 |
| 204 | Gold nanoparticles downregulate interleukin-1 β induced pro-inflammatory responses. <i>Small</i> , 2013 , 9, 472-7 | 11 | 124 |
| 203 | Decontamination of Surfaces by Low Pressure Plasma Discharges. <i>Plasma Processes and Polymers</i> , 2006 , 3, 431-442 | 3.4 | 124 |
| 202 | Comprehensive In Vitro Toxicity Testing of a Panel of Representative Oxide Nanomaterials: First Steps towards an Intelligent Testing Strategy. <i>PLoS ONE</i> , 2015 , 10, e0127174 | 3.7 | 117 |
| 201 | Measuring protein structure and stability of protein-nanoparticle systems with synchrotron radiation circular dichroism. <i>Nano Letters</i> , 2011 , 11, 4480-4 | 11.5 | 112 |
| 200 | Fouling and non-fouling surfaces produced by plasma polymerization of ethylene oxide monomer. <i>Acta Biomaterialia</i> , 2006 , 2, 165-72 | 10.8 | 107 |
| 199 | Comparative study of ZnO and TiO ₂ nanoparticles: physicochemical characterisation and toxicological effects on human colon carcinoma cells. <i>Nanotoxicology</i> , 2013 , 7, 1361-72 | 5.3 | 100 |
| 198 | Amorphous silica nanoparticles do not induce cytotoxicity, cell transformation or genotoxicity in Balb/3T3 mouse fibroblasts. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012 , 745, 11-20 | 3 | 99 |
| 197 | Probing elasticity and adhesion of live cells by atomic force microscopy indentation. <i>European Biophysics Journal</i> , 2008 , 37, 935-45 | 1.9 | 96 |
| 196 | Review of achievements of the OECD Working Party on Manufactured Nanomaterials' Testing and Assessment Programme. From exploratory testing to test guidelines. <i>Regulatory Toxicology and Pharmacology</i> , 2016 , 74, 147-60 | 3.4 | 93 |
| 195 | Predictive toxicology of cobalt ferrite nanoparticles: comparative in-vitro study of different cellular models using methods of knowledge discovery from data. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 32 | 8.4 | 89 |
| 194 | Separation and characterization of gold nanoparticle mixtures by flow-field-flow fractionation. <i>Journal of Chromatography A</i> , 2011 , 1218, 4234-9 | 4.5 | 87 |
| 193 | Micro-stamped surfaces for the patterned growth of neural stem cells. <i>Biomaterials</i> , 2008 , 29, 4766-74 | 15.6 | 84 |

| | | | |
|-----|--|------|----|
| 192 | Fabrication of Nanostructured Polymeric Surfaces for Biosensing Devices. <i>Nano Letters</i> , 2004 , 4, 1047-1055 | 2.5 | 82 |
| 191 | Low pressure plasma discharges for the sterilization and decontamination of surfaces. <i>New Journal of Physics</i> , 2009 , 11, 115017 | 2.9 | 79 |
| 190 | Predictive toxicology of cobalt nanoparticles and ions: comparative in vitro study of different cellular models using methods of knowledge discovery from data. <i>Toxicological Sciences</i> , 2011 , 122, 489-501 | 4.4 | 78 |
| 189 | Design of a magnetic-pole enhanced inductively coupled plasma source. <i>Plasma Sources Science and Technology</i> , 2001 , 10, 276-283 | 3.5 | 78 |
| 188 | Cellular distribution and degradation of cobalt ferrite nanoparticles in Balb/3T3 mouse fibroblasts. <i>Toxicology Letters</i> , 2011 , 207, 128-36 | 4.4 | 76 |
| 187 | Different mechanisms are involved in oxidative DNA damage and genotoxicity induction by ZnO and TiO ₂ nanoparticles in human colon carcinoma cells. <i>Toxicology in Vitro</i> , 2015 , 29, 1503-12 | 3.6 | 74 |
| 186 | Role of the crystalline form of titanium dioxide nanoparticles: Rutile, and not anatase, induces toxic effects in Balb/3T3 mouse fibroblasts. <i>Toxicology in Vitro</i> , 2016 , 31, 137-45 | 3.6 | 73 |
| 185 | Assessment of cytotoxicity by impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 3057-63 | 11.8 | 73 |
| 184 | Physical properties of nitrogenated amorphous carbon films produced by ion-beam-assisted deposition. <i>Thin Solid Films</i> , 1994 , 253, 85-89 | 2.2 | 73 |
| 183 | Effects of silver nanoparticles in diatom <i>Thalassiosira pseudonana</i> and cyanobacterium <i>Synechococcus</i> sp. <i>Environmental Science & Technology</i> , 2012 , 46, 11336-44 | 10.3 | 70 |
| 182 | Design, characterization and testing of Ti-based multicomponent coatings for load-bearing medical applications. <i>Biomaterials</i> , 2005 , 26, 2909-24 | 15.6 | 70 |
| 181 | Surface Functionalization and Patterning Techniques to Design Interfaces for Biomedical and Biosensor Applications. <i>Plasma Processes and Polymers</i> , 2006 , 3, 443-455 | 3.4 | 66 |
| 180 | Detection, quantification and derivation of number size distribution of silver nanoparticles in antimicrobial consumer products. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 1255-1265 | 3.7 | 64 |
| 179 | Tuneable rough surfaces: A new approach for elaboration of superhydrophobic films. <i>Surface Science</i> , 2005 , 592, 182-188 | 1.8 | 61 |
| 178 | Surface Analysis of Gold Nanoparticles Functionalized with Thiol-Modified Glucose SAMs for Biosensor Applications. <i>Frontiers in Chemistry</i> , 2016 , 4, 8 | 5 | 61 |
| 177 | Real-time assessment of cytotoxicity by impedance measurement on a 96-well plate. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 769-778 | 8.5 | 60 |
| 176 | Effect of ion beam assistance on the microstructure of nonhydrogenated amorphous carbon. <i>Journal of Applied Physics</i> , 1994 , 75, 3121-3129 | 2.5 | 59 |
| 175 | Microwave-assisted synthesis of silver nanoprisms/nanoplates using a modified polyol process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 395, 145-151 | 5.1 | 58 |

| | | | |
|-----|---|-----|----|
| 174 | Cleaning and hydrophilization of atomic force microscopy silicon probes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25975-81 | 3-4 | 57 |
| 173 | Plasma Modification of PCL Porous Scaffolds Fabricated by Solvent-Casting/Particulate-Leaching for Tissue Engineering. <i>Plasma Processes and Polymers</i> , 2014 , 11, 184-195 | 3-4 | 56 |
| 172 | Immobilization of RGD peptides on stable plasma-deposited acrylic acid coatings for biomedical devices. <i>Surface and Coatings Technology</i> , 2005 , 200, 1000-1004 | 4-4 | 56 |
| 171 | Silica nanoparticle uptake induces survival mechanism in A549 cells by the activation of autophagy but not apoptosis. <i>Toxicology Letters</i> , 2014 , 224, 84-92 | 4-4 | 55 |
| 170 | On the application of inductively coupled plasma discharges sustained in Ar/O ₂ /N ₂ ternary mixture for sterilization and decontamination of medical instruments. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 192005 | 3 | 55 |
| 169 | Micro-patterned surfaces based on plasma modification of PEO-like coating for biological applications. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 283-292 | 8.5 | 55 |
| 168 | Functional Micropatterned Surfaces by Combination of Plasma Polymerization and Lift-Off Processes. <i>Plasma Processes and Polymers</i> , 2006 , 3, 30-38 | 3-4 | 52 |
| 167 | Fluorocarbon Coatings Via Plasma Enhanced Chemical Vapor Deposition of 1H,1H,2H,2H-perfluorodecyl Acrylate - 2, Morphology, Wettability and Antifouling Characterization. <i>Plasma Processes and Polymers</i> , 2010 , 7, 926-938 | 3-4 | 51 |
| 166 | Online monitoring of BALB/3T3 metabolism and adhesion with multiparametric chip-based system. <i>Analytical Biochemistry</i> , 2007 , 371, 92-104 | 3.1 | 51 |
| 165 | Adhesion and elasticity in nanoscale indentation. <i>Applied Physics Letters</i> , 2006 , 89, 243118 | 3-4 | 49 |
| 164 | Surfaces engineering of polymeric films for biomedical applications. <i>Materials Science and Engineering C</i> , 2003 , 23, 353-358 | 8.3 | 49 |
| 163 | Structure and properties of CaO- and ZrO ₂ -doped TiC _x N _y coatings for biomedical applications. <i>Surface and Coatings Technology</i> , 2004 , 182, 101-111 | 4-4 | 47 |
| 162 | Singlet oxygen plays a key role in the toxicity and DNA damage caused by nanometric TiO ₂ in human keratinocytes. <i>Nanoscale</i> , 2013 , 5, 6567-76 | 7.7 | 45 |
| 161 | Colony Forming Efficiency and microscopy analysis of multi-wall carbon nanotubes cell interaction. <i>Toxicology Letters</i> , 2010 , 197, 29-37 | 4-4 | 44 |
| 160 | Immobilization of antibodies on biosensing devices by nanoarrayed self-assembled monolayers. <i>Langmuir</i> , 2006 , 22, 1763-7 | 4 | 44 |
| 159 | Critical experimental evaluation of key methods to detect, size and quantify nanoparticulate silver. <i>Analytical Chemistry</i> , 2014 , 86, 12143-51 | 7.8 | 43 |
| 158 | pH-dependent immobilization of proteins on surfaces functionalized by plasma-enhanced chemical vapor deposition of poly(acrylic acid)- and poly(ethylene oxide)-like films. <i>Langmuir</i> , 2008 , 24, 7251-61 | 4 | 43 |
| 157 | Dispersion Behaviour of Silica Nanoparticles in Biological Media and Its Influence on Cellular Uptake. <i>PLoS ONE</i> , 2015 , 10, e0141593 | 3.7 | 43 |

| | | | |
|-----|--|------|----|
| 156 | Removal of Model Proteins Using Beams of Argon Ions, Oxygen Atoms and Molecules: Mimicking the Action of Low-Pressure Ar/O ₂ ICP Discharges. <i>Plasma Processes and Polymers</i> , 2009 , 6, 255-261 | 3.4 | 42 |
| 155 | Plasma-based processes for surface wettability modification. <i>Langmuir</i> , 2006 , 22, 3057-61 | 4 | 42 |
| 154 | Fabrication and characterization of plasma processed surfaces with tuned wettability. <i>Langmuir</i> , 2007 , 23, 12984-9 | 4 | 41 |
| 153 | Tailoring surface properties of biomedical polymers by implantation of Ar and He ions. <i>Acta Biomaterialia</i> , 2005 , 1, 431-40 | 10.8 | 41 |
| 152 | Nanostructure protein repellent amphiphilic copolymer coatings with optimized surface energy by Inductively Excited Low Pressure Plasma. <i>Langmuir</i> , 2011 , 27, 14570-80 | 4 | 40 |
| 151 | Changes in Caco-2 cells transcriptome profiles upon exposure to gold nanoparticles. <i>Toxicology Letters</i> , 2015 , 233, 187-99 | 4.4 | 38 |
| 150 | Selective Immobilization of Protein Clusters on Polymeric Nanocraters. <i>Advanced Functional Materials</i> , 2006 , 16, 1242-1246 | 15.6 | 38 |
| 149 | Hydrogen peroxide detection nanosensor array for biosensor development. <i>Sensors and Actuators B: Chemical</i> , 2009 , 137, 56-61 | 8.5 | 37 |
| 148 | Analytical ultracentrifugation for analysis of doxorubicin loaded liposomes. <i>International Journal of Pharmaceutics</i> , 2017 , 523, 320-326 | 6.5 | 36 |
| 147 | Determination of the structure and morphology of gold nanoparticle-HSA protein complexes. <i>Nanoscale</i> , 2015 , 7, 17653-7 | 7.7 | 36 |
| 146 | Plasma assisted production of chemical nano-patterns by nano-sphere lithography: application to bio-interfaces. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2341-2347 | 3 | 35 |
| 145 | Microstructural evolution of allylamine polymerized plasma films. <i>Surface and Coatings Technology</i> , 2006 , 200, 5902-5907 | 4.4 | 35 |
| 144 | A quantitative in vitro approach to study the intracellular fate of gold nanoparticles: from synthesis to cytotoxicity. <i>Nanotoxicology</i> , 2009 , 3, 296-306 | 5.3 | 34 |
| 143 | Morphological transformation induced by multiwall carbon nanotubes on Balb/3T3 cell model as an in vitro end point of carcinogenic potential. <i>Nanotoxicology</i> , 2013 , 7, 221-33 | 5.3 | 33 |
| 142 | Low-pressure water vapour plasma treatment of surfaces for biomolecules decontamination. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 135203 | 3 | 33 |
| 141 | Mechanisms of toxicity induced by SiO ₂ nanoparticles of in vitro human alveolar barrier: effects on cytokine production, oxidative stress induction, surfactant proteins A mRNA expression and nanoparticles uptake. <i>Nanotoxicology</i> , 2013 , 7, 1095-110 | 5.3 | 33 |
| 140 | Elimination of biological contaminations from surfaces by plasma discharges: chemical sputtering. <i>ChemPhysChem</i> , 2010 , 11, 1382-9 | 3.2 | 32 |
| 139 | Development of a potentiometric biosensor based on nanostructured surface for lactate determination. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 606-612 | 8.5 | 32 |

| | | | |
|-----|--|------|----|
| 138 | The effect of sterilization processes on the bioadhesive properties and surface chemistry of a plasma-polymerized polyethylene glycol film: XPS characterization and L929 cell proliferation tests. <i>Acta Biomaterialia</i> , 2008 , 4, 1745-51 | 10.8 | 32 |
| 137 | A printed nanolitre-scale bacterial sensor array. <i>Lab on A Chip</i> , 2011 , 11, 139-46 | 7.2 | 31 |
| 136 | Direct Nanopatterning of 3D Chemically Active Structures for Biological Applications. <i>Advanced Materials</i> , 2007 , 19, 1947-1950 | 24 | 31 |
| 135 | Control of cell adhesion and spreading by spatial microarranged PEO-like and pdAA domains. <i>Surface and Coatings Technology</i> , 2005 , 200, 51-57 | 4.4 | 31 |
| 134 | Surface modification of nanocrystalline diamond/amorphous carbon composite films. <i>Diamond and Related Materials</i> , 2008 , 17, 1229-1234 | 3.5 | 30 |
| 133 | Use of nanopatterned surfaces to enhance immunoreaction efficiency. <i>Analytical Chemistry</i> , 2008 , 80, 1418-24 | 7.8 | 30 |
| 132 | Effect of Low-Pressure Microwave Discharges on Pyrogen Bioactivity. <i>IEEE Transactions on Plasma Science</i> , 2006 , 34, 2606-2610 | 1.3 | 30 |
| 131 | Cascade structure and overlap effects in ion-beam mixing experiments. <i>Journal of Applied Physics</i> , 1991 , 69, 1310-1319 | 2.5 | 30 |
| 130 | Fabrication and characterization of protein arrays for stem cell patterning. <i>Soft Matter</i> , 2009 , 5, 1406 | 3.6 | 29 |
| 129 | Protein nanopatterns for improved immunodetection sensitivity. <i>Analytical Chemistry</i> , 2008 , 80, 7336-40 | 7.8 | 28 |
| 128 | Use of a low-pressure plasma discharge for the decontamination and sterilization of medical devices. <i>Pure and Applied Chemistry</i> , 2008 , 80, 1939-1951 | 2.1 | 28 |
| 127 | Direct quantification of nanoparticle surface hydrophobicity. <i>Communications Chemistry</i> , 2018 , 1, | 6.3 | 28 |
| 126 | Application of Asymmetric Flow Field-Flow Fractionation hyphenations for liposome-antimicrobial peptide interaction. <i>Journal of Chromatography A</i> , 2015 , 1422, 260-269 | 4.5 | 27 |
| 125 | Poly(N-isopropylacrylamide) grafted on plasma-activated poly(ethylene oxide): thermal response and interaction with proteins. <i>Langmuir</i> , 2008 , 24, 6166-75 | 4 | 27 |
| 124 | Ion beam mixing of U-based bilayers. <i>Journal of Materials Research</i> , 1991 , 6, 1175-1187 | 2.5 | 27 |
| 123 | Cyclotron production of radioactive CeO(2) nanoparticles and their application for in vitro uptake studies. <i>IEEE Transactions on Nanobioscience</i> , 2011 , 10, 44-50 | 3.4 | 26 |
| 122 | Surface functionalisation of polypyrrole films using UV light induced radical activation. <i>Applied Surface Science</i> , 2006 , 252, 4397-4401 | 6.7 | 26 |
| 121 | pH-sensitive niosomes: Effects on cytotoxicity and on inflammation and pain in murine models. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017 , 32, 538-546 | 5.6 | 24 |

| | | | |
|-----|--|------|----|
| 120 | Neural stem cells from human cord blood on bioengineered surfaces--novel approach to multiparameter bio-tests. <i>Toxicology</i> , 2010 , 270, 35-42 | 4.4 | 24 |
| 119 | Fabrication of polypyrrole-based nanoelectrode arrays by colloidal lithography. <i>Analytical Chemistry</i> , 2006 , 78, 7588-91 | 7.8 | 24 |
| 118 | Ion beam assisted growth of dense diamond-like carbon. <i>Diamond and Related Materials</i> , 1992 , 1, 307-313 | 3.5 | 24 |
| 117 | Plasmonic resonances in nanostructured gold/polymer surfaces by colloidal lithography. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 935-942 | 1.6 | 23 |
| 116 | Controlled micropatterning of biomolecules for cell culturing. <i>Microelectronic Engineering</i> , 2007 , 84, 1733-1736 | 3.23 | 23 |
| 115 | Highly Flexible Platform for Tuning Surface Properties of Silica Nanoparticles and Monitoring Their Biological Interaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4838-50 | 9.5 | 22 |
| 114 | Online monitoring of cell metabolism to assess the toxicity of nanoparticles: the case of cobalt ferrite. <i>Nanotoxicology</i> , 2012 , 6, 272-87 | 5.3 | 22 |
| 113 | Amphiphilic Copolymer Coatings via Plasma Polymerisation Process: Switching and Anti-Biofouling Characteristics. <i>Plasma Processes and Polymers</i> , 2011 , 8, 373-385 | 3.4 | 22 |
| 112 | Removal of immune-stimulatory components from surfaces by plasma discharges. <i>Innate Immunity</i> , 2008 , 14, 89-97 | 2.7 | 22 |
| 111 | Plasma-Based De-Pyrogenization. <i>Plasma Processes and Polymers</i> , 2006 , 3, 272-275 | 3.4 | 22 |
| 110 | Fractal geometry of collision cascades. <i>Journal of Materials Research</i> , 1989 , 4, 137-143 | 2.5 | 22 |
| 109 | Quantification of the cellular dose and characterization of nanoparticle transport during in vitro testing. <i>Particle and Fibre Toxicology</i> , 2016 , 13, 47 | 8.4 | 21 |
| 108 | Fabrication of functional nano-patterned surfaces by a combination of plasma processes and electron-beam lithography. <i>Nanotechnology</i> , 2007 , 18, 135303 | 3.4 | 21 |
| 107 | Surface properties of differently prepared ultrananocrystalline diamond surfaces. <i>Diamond and Related Materials</i> , 2009 , 18, 745-749 | 3.5 | 20 |
| 106 | Surface and bioproperties of nanocrystalline diamond/amorphous carbon nanocomposite films. <i>Thin Solid Films</i> , 2007 , 515, 8407-8411 | 2.2 | 20 |
| 105 | Structural characterization of nanopatterned surfaces. <i>Surface Science</i> , 2005 , 583, L142-L146 | 1.8 | 20 |
| 104 | Multiplex cell microarrays for high-throughput screening. <i>Lab on A Chip</i> , 2016 , 16, 4248-4262 | 7.2 | 20 |
| 103 | Microcontact printing and microspotting as methods for direct protein patterning on plasma deposited polyethylene oxide: application to stem cell patterning. <i>Biomedical Microdevices</i> , 2013 , 15, 495-507 | 3.7 | 19 |

| | | | |
|-----|--|------|----|
| 102 | Investigation of the nucleation and growth mechanisms of nanocrystalline diamond/amorphous carbon nanocomposite films. <i>Diamond and Related Materials</i> , 2008 , 17, 1116-1121 | 3.5 | 19 |
| 101 | Cyto/hemocompatible magnetic hybrid nanoparticles (Ag ₂ S-Fe ₃ O ₄) with luminescence in the near-infrared region as promising theranostic materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 133, 198-207 | 6 | 18 |
| 100 | Inhibition of the ROS-mediated cytotoxicity and genotoxicity of nano-TiO ₂ toward human keratinocyte cells by iron doping. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1 | 2.3 | 18 |
| 99 | Microscopic Analysis of the Interaction of Gold Nanoparticles with Cells of the Innate Immune System. <i>Scientific Reports</i> , 2013 , 3, | 4.9 | 18 |
| 98 | On the development of the morphology of ultrananocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 70-80 | 1.6 | 18 |
| 97 | Electrical properties of ultrananocrystalline diamond/amorphous carbon nanocomposite films. <i>Diamond and Related Materials</i> , 2010 , 19, 449-452 | 3.5 | 18 |
| 96 | Interaction among plasmonic resonances in a gold film embedding a two-dimensional array of polymeric nanopillars. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 1641 | 1.7 | 18 |
| 95 | Experimental Study of the Influence of Ar/H ₂ Microwave Discharges on Lipid A. <i>Plasma Processes and Polymers</i> , 2008 , 5, 26-32 | 3.4 | 18 |
| 94 | A proteomic approach to investigate AuNPs effects in Balb/3T3 cells. <i>Toxicology Letters</i> , 2014 , 228, 111-124 | 2.6 | 17 |
| 93 | Biosensor for direct cell detection, quantification and analysis. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4162-8 | 11.8 | 17 |
| 92 | Large-scale fabrication of bi-functional nanostructured polymer surfaces for selective biomolecular adhesion. <i>Small</i> , 2008 , 4, 1919-24 | 11 | 17 |
| 91 | Comparison of impedance-based sensors for cell adhesion monitoring and in vitro methods for detecting cytotoxicity induced by chemicals. <i>ATLA Alternatives To Laboratory Animals</i> , 2006 , 34, 515-25 | 2.1 | 16 |
| 90 | Dry etching of ITO by magnetic pole enhanced inductively coupled plasma for display and biosensing devices. <i>Applied Surface Science</i> , 2006 , 252, 3861-3870 | 6.7 | 16 |
| 89 | Nanostructuring surfaces with conjugated silica colloids deposited using silicon-based microcantilevers. <i>Nanotechnology</i> , 2005 , 16, 525-531 | 3.4 | 16 |
| 88 | Developmental stage dependent neural stem cells sensitivity to methylmercury chloride on different biofunctional surfaces. <i>Toxicology in Vitro</i> , 2014 , 28, 76-87 | 3.6 | 15 |
| 87 | Structured biotinylated poly(3,4-ethylenedioxyppyrole) electrodes for biochemical applications. <i>RSC Advances</i> , 2012 , 2, 1033-1039 | 3.7 | 15 |
| 86 | Direct fabrication of nanoscale bio-adhesive patterns by electron beam surface modification of plasma polymerized poly ethylene oxide-like coatings. <i>Nanotechnology</i> , 2008 , 19, 125306 | 3.4 | 15 |
| 85 | Electrogenerated indium tin oxide-coated glass surface with photosensitive interfaces: surface analysis. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2230-6 | 11.8 | 15 |

| | | | |
|----|--|------|----|
| 84 | Cellular response to oxygen containing biomedical polymers modified by Ar and He implantation. <i>Acta Biomaterialia</i> , 2007 , 3, 735-43 | 10.8 | 15 |
| 83 | Sensitivity Enhancement of Surface-Plasmon Resonance Imaging by Nanoarrayed Organothiols. <i>Advanced Materials</i> , 2008 , 20, 2352-2358 | 24 | 15 |
| 82 | Hybrid ICP/sputter deposition of TiC/CaO nanocomposite films for biomedical application. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 82, 503-507 | 2.6 | 15 |
| 81 | Ion beam induced nanometric structure and oligopeptide adsorption on patterned polymer surfaces. <i>Materials Science and Engineering C</i> , 2003 , 23, 779-786 | 8.3 | 15 |
| 80 | Acid/base Micropatterned Devices for pH-Dependent Biosensors. <i>Plasma Processes and Polymers</i> , 2005 , 2, 334-339 | 3.4 | 15 |
| 79 | Synthesis of Citrate-Stabilized Silver Nanoparticles Modified by Thermal and pH Preconditioned Tannic Acid. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 15 |
| 78 | Patterned growth and differentiation of human cord blood-derived neural stem cells on bio-functionalized surfaces. <i>Acta Neurobiologiae Experimentalis</i> , 2009 , 69, 24-36 | 1 | 15 |
| 77 | Chemical reactivity of plasma polymerized allylamine (PPAA) thin films on Au and Si: Study of the thickness influence and aging of the films. <i>Surface and Coatings Technology</i> , 2011 , 205, S462-S465 | 4.4 | 14 |
| 76 | Atomic force microscopy indentation of fluorocarbon thin films fabricated by plasma enhanced chemical deposition at low radio frequency power. <i>Thin Solid Films</i> , 2009 , 517, 3310-3314 | 2.2 | 14 |
| 75 | Monitoring plasma etching of biomolecules by imaging ellipsometry. <i>Vacuum</i> , 2009 , 84, 75-78 | 3.7 | 14 |
| 74 | Large-area protein nano-arrays patterned by soft lithography. <i>Nanotechnology</i> , 2007 , 18, 505306 | 3.4 | 14 |
| 73 | Experimental study of effect of low-pressure O ₂ :H ₂ microwave discharge on protein films. <i>European Physical Journal D</i> , 2006 , 56, B672-B677 | | 14 |
| 72 | Microstructure of plasma nitrided layers on aluminium. <i>Surface and Coatings Technology</i> , 2002 , 156, 149-154 | 1.4 | 14 |
| 71 | Detection of silver nanoparticles inside marine diatom <i>Thalassiosira pseudonana</i> by electron microscopy and focused ion beam. <i>PLoS ONE</i> , 2014 , 9, e96078 | 3.7 | 14 |
| 70 | UNCD/a-C nanocomposite films for biotechnological applications. <i>Surface and Coatings Technology</i> , 2011 , 206, 667-675 | 4.4 | 13 |
| 69 | Gold nanoparticles increases UV and thermal stability of human serum albumin. <i>Biointerphases</i> , 2016 , 11, 04B310 | 1.8 | 13 |
| 68 | Nanostructured porous silicon micropatterns as a tool for substrate-conditioned cell research. <i>Nanoscale Research Letters</i> , 2012 , 7, 396 | 5 | 11 |
| 67 | Characterization of a Low-pressure Inductively Coupled Plasma Discharge Sustained in Ar/O ₂ /N ₂ Ternary Mixtures and Evaluation of its Effect on Erosion of Biological Samples. <i>Plasma Processes and Polymers</i> , 2011 , 8, 1137-1145 | 3.4 | 11 |

| | | | |
|----|---|-----|----|
| 66 | Nanopatterned Surfaces for Bio-Detection. <i>Analytical Letters</i> , 2010 , 43, 1556-1571 | 2.2 | 11 |
| 65 | The effect of adhesion on the contact radius in atomic force microscopy indentation. <i>Nanotechnology</i> , 2009 , 20, 365702 | 3.4 | 11 |
| 64 | Micro-spot, UV and wetting patterning pathways for applications of biofunctional aminosilane-titanate coatings. <i>Biomedical Microdevices</i> , 2007 , 9, 287-94 | 3.7 | 11 |
| 63 | Combination of ion beam stabilisation, plasma etching and plasma deposition for the development of tissue engineering micropatterned supports. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 161-72 | 3.5 | 11 |
| 62 | Microstructural evolution of non-hydrogenated amorphous carbon under ion beam assistance. <i>Thin Solid Films</i> , 1994 , 241, 171-174 | 2.2 | 11 |
| 61 | Rational design of multi-functional gold nanoparticles with controlled biomolecule adsorption: a multi-method approach for in-depth characterization. <i>Nanoscale</i> , 2018 , 10, 10173-10181 | 7.7 | 11 |
| 60 | Stem-cell culture on patterned bio-functional surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1649-57 | 3.5 | 10 |
| 59 | Electrochemical properties of polymeric nanopatterned electrodes. <i>Electrochemistry Communications</i> , 2007 , 9, 1833-1839 | 5.1 | 10 |
| 58 | An evaluation of poly(ethylene-glycol) films stabilized by plasma and ion beam methods. <i>Applied Surface Science</i> , 2004 , 235, 119-125 | 6.7 | 10 |
| 57 | ⁵⁶ Co-labelled radioactive Fe ₃ O ₄ nanoparticles for in vitro uptake studies on Balb/3T3 and Caco-2 cell lines. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 6707-6716 | 2.3 | 9 |
| 56 | Atomic force microscopy characterization of the chemical contrast of nanoscale patterns fabricated by electron beam lithography on polyethylene glycol oxide thin films. <i>Ultramicroscopy</i> , 2009 , 109, 222-9 | 3.1 | 9 |
| 55 | Nonlinear effects of diffusion in displacement cascades. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 61, 27-37 | 1.2 | 9 |
| 54 | In situ Quartz Crystal Microbalance Measurements of Thin Protein Film Plasma Removal. <i>Plasma Processes and Polymers</i> , 2012 , 9, 188-196 | 3.4 | 8 |
| 53 | Amino-rich Plasma Polymer Films Prepared by RF Magnetron Sputtering. <i>Plasma Processes and Polymers</i> , 2012 , 9, 371-379 | 3.4 | 8 |
| 52 | Fabrication of Bio-Functionalised Polypyrrole Nanoarrays for Bio-Molecular Recognition. <i>Micro and Nanosystems</i> , 2011 , 3, 83-89 | 0.6 | 8 |
| 51 | A Colloidal Silica Reference Material for Nanoparticle Sizing by Means of Dynamic Light Scattering and Centrifugal Liquid Sedimentation. <i>Particle and Particle Systems Characterization</i> , 2010 , 27, 112-124 | 3.1 | 8 |
| 50 | Effect of temperature on layer separation by plasma hydrogenation. <i>Applied Physics Letters</i> , 2008 , 93, 254104 | 3.4 | 8 |
| 49 | Surface Characterization of Biopolymer Micropatterns Processed by Ion-Beam Modification and PECVD. <i>Chemical Vapor Deposition</i> , 2007 , 13, 211-218 | | 8 |

| | | | |
|----|---|-----|---|
| 48 | Polypropylene glycol is a selective binding inhibitor for LTA and other structurally related TLR2 agonists. <i>European Journal of Immunology</i> , 2008 , 38, 797-808 | 6.1 | 8 |
| 47 | Gold nanoparticles blocking effect on UV-induced damage to human serum albumin. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 7 |
| 46 | Interactions of Serum Derived Proteins with Sub-Micrometer Structured Surfaces. <i>Plasma Processes and Polymers</i> , 2014 , 11, 577-587 | 3.4 | 7 |
| 45 | Silver nanoparticles induce cytotoxicity, but not cell transformation or genotoxicity on Balb3T3 mouse fibroblasts. <i>BioNanoMaterials</i> , 2013 , 14, 49-60 | | 7 |
| 44 | Investigation of stress-induced (100) platelet formation and surface exfoliation in plasma hydrogenated Si. <i>Applied Physics Letters</i> , 2007 , 91, 244101 | 3.4 | 7 |
| 43 | Activation of PCL Surface by Ion Beam Treatment to Enhance Protein Adsorption. <i>Journal of Bioactive and Compatible Polymers</i> , 2004 , 19, 287-300 | 2 | 7 |
| 42 | Surface analysis of plasma-patterned biofunctional hybrid titanate-aminosilane xerogel films. <i>Journal of Colloid and Interface Science</i> , 2004 , 275, 577-83 | 9.3 | 7 |
| 41 | Effect of H ₂ concentration on r.f plasma-enhanced chemical vapour deposition of boron nitride coatings from the BCl ₃ -N ₂ -H ₂ -Ar gas system. <i>Surface and Coatings Technology</i> , 1996 , 80, 13-17 | 4.4 | 7 |
| 40 | Biocompatibility study of two diblock copolymeric nanoparticles for biomedical applications by in vitro toxicity testing. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 6 |
| 39 | Bioinspired Rose-Petal-Like Substrates Generated by Electropolymerization on Micropatterned Gold Substrates. <i>ChemPlusChem</i> , 2017 , 82, 352-357 | 2.8 | 6 |
| 38 | Quantification of protein immobilization on substrates for cellular microarray applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 245-56 | 5.4 | 6 |
| 37 | Surface functionalization for protein and cell patterning. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 117, 109-30 | 1.7 | 6 |
| 36 | Elimination of Homo-polypeptides of Amino Acids from Surfaces by means of Low Pressure Inductively Coupled Plasma Discharge. <i>Plasma Processes and Polymers</i> , 2009 , 6, 848-854 | 3.4 | 6 |
| 35 | Applications and challenges of plasma processes in nanobiotechnology. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174017 | 3 | 6 |
| 34 | TiN _x O _y /TiN dielectric contrasts obtained by ion implantation of O ²⁺ ; structural, optical and electrical properties. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 235501 | 3 | 6 |
| 33 | Preventing Biofilm Formation on Biomedical Surfaces 2010 , 183-223 | | 6 |
| 32 | Thiolated polyethylene oxide as a non-fouling element for nano-patterned bio-devices. <i>Applied Surface Science</i> , 2007 , 253, 4796-4804 | 6.7 | 6 |
| 31 | Surface topographic and structural characterization of plasma treated PMAA/BMMA copolymer films. <i>Surface Science</i> , 2004 , 560, 121-129 | 1.8 | 5 |

| | | | |
|----|---|-----|---|
| 30 | Amorphisation and Growth Mechanisms of Carbon Films under Ion Beam Irradiation. <i>Chaos, Solitons and Fractals</i> , 1999 , 10, 2019-2029 | 9.3 | 5 |
| 29 | Formation of viscoelastic protein droplets on a chemically functionalized surface. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8713-6 | 3.4 | 4 |
| 28 | Surface modification, characterization and biofunctionality of pegylated titanate films obtained by the sol-gel method. <i>Surface and Interface Analysis</i> , 2008 , 40, 205-209 | 1.5 | 4 |
| 27 | Single- and few-walled carbon nanotubes grown at temperatures as low as 450 degrees c: electrical and field emission characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3350-3 | 1.3 | 4 |
| 26 | Experimental study of ICP in O2-N2-H2 mixtures for sterilization of bacterial spores. <i>European Physical Journal D</i> , 2006 , 56, B1250-B1255 | | 4 |
| 25 | Modulation of surface bio-functionality by using gold nanostructures on protein repellent surfaces. <i>RSC Advances</i> , 2015 , 5, 83187-83196 | 3.7 | 3 |
| 24 | Surface characterisation of PEO-like microstructures by means of ToF-SIMS, XPS and SPR. <i>Surface and Interface Analysis</i> , 2013 , 45, 240-243 | 1.5 | 3 |
| 23 | Nanopatterned submicron pores as a shield for nonspecific binding in surface plasmon resonance-based sensing. <i>Analyst, The</i> , 2012 , 137, 5251-9 | 5 | 3 |
| 22 | Large-area, nanoimprint-assisted microcontact stripping for the fabrication of microarrays of fouling/nonfouling nanostructures. <i>Small</i> , 2009 , 5, 1133-7 | 11 | 3 |
| 21 | Genotoxicity assays analysis for carbon nanotubes: friends or foes? Preliminary results on human peripheral leukocytes. <i>International Journal of Environment and Health</i> , 2009 , 3, 275 | 1.3 | 3 |
| 20 | Deposition of tungsten thin films by dual frequency inductively coupled plasma assisted CVD. <i>Thin Solid Films</i> , 1998 , 332, 21-24 | 2.2 | 3 |
| 19 | Deposition of nanobead hexagonal crystals using silicon microcantilevers. <i>Small</i> , 2006 , 2, 1444-7 | 11 | 3 |
| 18 | Neural Stem Cell Fate Control on Micropatterned Substrates. <i>Neuromethods</i> , 2017 , 19-44 | 0.4 | 2 |
| 17 | Biofouling Properties of Nitroxide-Modified Amorphous Carbon Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1976-1982 | 5.5 | 2 |
| 16 | Modulating charge-dependent and folding-mediated antimicrobial interactions at peptide-lipid interfaces. <i>European Biophysics Journal</i> , 2017 , 46, 375-382 | 1.9 | 2 |
| 15 | Ion beam induced crystal-edge nanoclusters at the origin of poly(ethylene glycol) film stabilization. <i>Applied Surface Science</i> , 2006 , 253, 810-813 | 6.7 | 2 |
| 14 | Disorder and bond hybridization in boron nitride thin films. <i>Solid State Communications</i> , 1996 , 99, 645-649 | | 2 |
| 13 | Elimination of Pathogenic Biological Residuals by Means of Low-Pressure Inductively Coupled Plasma Discharge | | 2 |

| | | | |
|----|---|-----|---|
| 12 | A methodology to investigate heterogeneous oxidation of thermally aged cross-linked polyethylene by ToF-SIMS. <i>Surface and Interface Analysis</i> , 2020 , 52, 1178-1184 | 1.5 | 2 |
| 11 | Characterization of silver nanoparticles-alginate complexes by combined size separation and size measurement techniques. <i>Biointerphases</i> , 2016 , 11, 04B309 | 1.8 | 2 |
| 10 | Proliferation capacity of cord blood derived neural stem cell line on different micro-scale biofunctional domains. <i>Acta Neurobiologiae Experimentalis</i> , 2011 , 71, 12-23 | 1 | 2 |
| 9 | Nano-mechanical in-process monitoring of antimicrobial poration in model phospholipid bilayers. <i>RSC Advances</i> , 2017 , 7, 19081-19084 | 3.7 | 1 |
| 8 | Back Cover: Plasma Process. Polym. 2014. <i>Plasma Processes and Polymers</i> , 2014 , 11, 196-196 | 3.4 | 1 |
| 7 | Solid-phase microextraction/gas chromatography-mass spectrometry method optimization for characterization of surface adsorption forces of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6629-36 | 4.4 | 1 |
| 6 | Structure and Stability of Proteins Interacting with Nanoparticles. <i>ACS Symposium Series</i> , 2012 , 839-855 | 0.4 | 1 |
| 5 | Chemical modification and patterning of self assembled monolayers using scanning electron and ion-beam lithography. <i>Microelectronic Engineering</i> , 2011 , 88, 1948-1950 | 2.5 | 1 |
| 4 | Preparation, modification and cellular evaluation of PEG-BEGd supports with titania nanoparticle loads. <i>Surface and Interface Analysis</i> , 2010 , 42, 481-485 | 1.5 | 1 |
| 3 | Growth Mechanisms of Ion Beam Assisted Deposition of Diamondlike Carbon 1997 , 625-634 | | |
| 2 | Nanotoxicology. <i>Methods in Pharmacology and Toxicology</i> , 2014 , 481-499 | 1.1 | |
| 1 | Novel Fabrication Routes of Metallic Micromembranes for In Situ Mechanical Testing. <i>Metals</i> , 2022 , 12, 468 | 2.3 | |