

François Rossi

List of Publications by Year in descending order

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211
papers

7,775
citations

38660

50
h-index

71532

76
g-index

214
all docs

214
docs citations

214
times ranked

11172
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-dependent toxicity and cell interaction mechanisms of gold nanoparticles on mouse fibroblasts. <i>Toxicology Letters</i> , 2013, 217, 205-216.	0.4	297
2	Protein-Nanoparticle Interaction: Identification of the Ubiquitin-Gold Nanoparticle Interaction Site. <i>Nano Letters</i> , 2010, 10, 3101-3105.	4.5	237
3	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.	2.8	170
4	Gold Nanoparticles Downregulate Interleukin-1 α -Induced Pro-inflammatory Responses. <i>Small</i> , 2013, 9, 472-477.	5.2	165
5	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, 439-445.	1.0	150
6	Physical properties of a-C: N films produced by ion beam assisted deposition. <i>Journal of Materials Research</i> , 1994, 9, 2440-2449.	1.2	144
7	Decontamination of Surfaces by Low Pressure Plasma Discharges. <i>Plasma Processes and Polymers</i> , 2006, 3, 431-442.	1.6	143
8	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.	1.1	136
9	Measuring Protein Structure and Stability of Protein-Nanoparticle Systems with Synchrotron Radiation Circular Dichroism. <i>Nano Letters</i> , 2011, 11, 4480-4484.	4.5	127
10	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, 147-160.	1.3	123
11	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.	0.9	118
12	Comparative study of ZnO and TiO ₂ nanoparticles: physicochemical characterisation and toxicological effects on human colon carcinoma cells. <i>Nanotoxicology</i> , 2013, 7, 1361-1372.	1.6	117
13	Fouling and non-fouling surfaces produced by plasma polymerization of ethylene oxide monomer. <i>Acta Biomaterialia</i> , 2006, 2, 165-172.	4.1	114
14	Probing elasticity and adhesion of live cells by atomic force microscopy indentation. <i>European Biophysics Journal</i> , 2008, 37, 935-945.	1.2	113
15	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.	2.8	105
16	Micro-stamped surfaces for the patterned growth of neural stem cells. <i>Biomaterials</i> , 2008, 29, 4766-4774.	5.7	95
17	Separation and characterization of gold nanoparticle mixtures by flow-field-flow fractionation. <i>Journal of Chromatography A</i> , 2011, 1218, 4234-4239.	1.8	95
18	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.	1.4	95

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19	Low pressure plasma discharges for the sterilization and decontamination of surfaces. <i>New Journal of Physics</i> , 2009, 11, 115017.	1.2	91
20	Fabrication of Nanostructured Polymeric Surfaces for Biosensing Devices. <i>Nano Letters</i> , 2004, 4, 1047-1050.	4.5	90
21	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, 137-145.	1.1	90
22	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, 1503-1512.	1.1	89
23	Cellular distribution and degradation of cobalt ferrite nanoparticles in Balb/3T3 mouse fibroblasts. <i>Toxicology Letters</i> , 2011, 207, 128-136.	0.4	87
24	Surface Analysis of Gold Nanoparticles Functionalized with Thiol-Modified Glucose SAMs for Biosensor Applications. <i>Frontiers in Chemistry</i> , 2016, 4, 8.	1.8	87
25	Physical properties of nitrogenated amorphous carbon films produced by ion-beam-assisted deposition. <i>Thin Solid Films</i> , 1994, 253, 85-89.	0.8	84
26	Design of a magnetic-pole enhanced inductively coupled plasma source. <i>Plasma Sources Science and Technology</i> , 2001, 10, 276-283.	1.3	82
27	Effects of Silver Nanoparticles in Diatom <i>Thalassiosira pseudonana</i> and Cyanobacterium <i>Synechococcus</i> sp.. <i>Environmental Science & Technology</i> , 2012, 46, 11336-11344.	4.6	82
28	Design, characterization and testing of Ti-based multicomponent coatings for load-bearing medical applications. <i>Biomaterials</i> , 2005, 26, 2909-2924.	5.7	81
29	Assessment of cytotoxicity by impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3057-3063.	5.3	80
30	Surface Functionalization and Patterning Techniques to Design Interfaces for Biomedical and Biosensor Applications. <i>Plasma Processes and Polymers</i> , 2006, 3, 443-455.	1.6	73
31	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.	1.6	73
32	Plasma Modification of PCL Porous Scaffolds Fabricated by Solventâ€Casting/Particulateâ€CLeaching for Tissue Engineering. <i>Plasma Processes and Polymers</i> , 2014, 11, 184-195.	1.6	70
33	Effect of ion beam assistance on the microstructure of nonhydrogenated amorphous carbon. <i>Journal of Applied Physics</i> , 1994, 75, 3121-3129.	1.1	67
34	Cleaning and Hydrophilization of Atomic Force Microscopy Silicon Probes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25975-25981.	1.2	67
35	Microwave-assisted synthesis of silver nanoprisms/nanoplates using a â€œmodified polyol processâ€: <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 395, 145-151.	2.3	67
36	Real-time assessment of cytotoxicity by impedance measurement on a 96-well plate. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 769-778.	4.0	66

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37	Tuneable rough surfaces: A new approach for elaboration of superhydrophobic films. <i>Surface Science</i> , 2005, 592, 182-188.	0.8	65
38	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.	0.4	64
39	Immobilization of RGD peptides on stable plasma-deposited acrylic acid coatings for biomedical devices. <i>Surface and Coatings Technology</i> , 2005, 200, 1000-1004.	2.2	63
40	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.	1.3	60
41	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.	1.6	60
42	Online monitoring of BALB/3T3 metabolism and adhesion with multiparametric chip-based system. <i>Analytical Biochemistry</i> , 2007, 371, 92-104.	1.1	58
43	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.	4.0	58
44	Functional Micropatterned Surfaces by Combination of Plasma Polymerization and Lift-Off Processes. <i>Plasma Processes and Polymers</i> , 2006, 3, 30-38.	1.6	56
45	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.	2.8	55
46	Analytical ultracentrifugation for analysis of doxorubicin loaded liposomes. <i>International Journal of Pharmaceutics</i> , 2017, 523, 320-326.	2.6	55
47	Adhesion and elasticity in nanoscale indentation. <i>Applied Physics Letters</i> , 2006, 89, 243118.	1.5	53
48	Surfaces engineering of polymeric films for biomedical applications. <i>Materials Science and Engineering C</i> , 2003, 23, 353-358.	3.8	52
49	Colony Forming Efficiency and microscopy analysis of multi-wall carbon nanotubes cell interaction. <i>Toxicology Letters</i> , 2010, 197, 29-37.	0.4	52
50	Dispersion Behaviour of Silica Nanoparticles in Biological Media and Its Influence on Cellular Uptake. <i>PLoS ONE</i> , 2015, 10, e0141593.	1.1	52
51	Plasma-Based Processes for Surface Wettability Modification. <i>Langmuir</i> , 2006, 22, 3057-3061.	1.6	51
52	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.	2.2	50
53	Critical Experimental Evaluation of Key Methods to Detect, Size and Quantify Nanoparticulate Silver. <i>Analytical Chemistry</i> , 2014, 86, 12143-12151.	3.2	50
54	Immobilization of Antibodies on Biosensing Devices by Nanoarrayed Self-Assembled Monolayers. <i>Langmuir</i> , 2006, 22, 1763-1767.	1.6	49

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55	Fabrication and Characterization of Plasma Processed Surfaces with Tuned Wettability. Langmuir, 2007, 23, 12984-12989.	1.6	46
56	pH-Dependent Immobilization of Proteins on Surfaces Functionalized by Plasma-Enhanced Chemical Vapor Deposition of Poly(acrylic acid)- and Poly(ethylene oxide)-like Films. Langmuir, 2008, 24, 7251-7261.	1.6	46
57	Synthesis of Citrate-Stabilized Silver Nanoparticles Modified by Thermal and pH Preconditioned Tannic Acid. Nanomaterials, 2020, 10, 2031.	1.9	45
58	Tailoring surface properties of biomedical polymers by implantation of Ar and He ions. Acta Biomaterialia, 2005, 1, 431-440.	4.1	44
59	Selective Immobilization of Protein Clusters on Polymeric Nanocraters. Advanced Functional Materials, 2006, 16, 1242-1246.	7.8	44
60	Removal of Model Proteins Using Beams of Argon Ions, Oxygen Atoms and Molecules: Mimicking the Action of Low-Pressure Ar/O ₂ ICP Discharges. Plasma Processes and Polymers, 2009, 6, 255-261.	1.6	44
61	Nanostructure Protein Repellant Amphiphilic Copolymer Coatings with Optimized Surface Energy by Inductively Excited Low Pressure Plasma. Langmuir, 2011, 27, 14570-14580.	1.6	44
62	Development of a potentiometric biosensor based on nanostructured surface for lactate determination. Sensors and Actuators B: Chemical, 2007, 127, 606-612.	4.0	43
63	Plasma assisted production of chemical nano-patterns by nano-sphere lithography: application to bio-interfaces. Journal Physics D: Applied Physics, 2007, 40, 2341-2347.	1.3	42
64	Changes in Caco-2 cells transcriptome profiles upon exposure to gold nanoparticles. Toxicology Letters, 2015, 233, 187-199.	0.4	42
65	Determination of the structure and morphology of gold nanoparticle-HSA protein complexes. Nanoscale, 2015, 7, 17653-17657.	2.8	41
66	Direct quantification of nanoparticle surface hydrophobicity. Communications Chemistry, 2018, 1, .	2.0	41
67	Elimination of Biological Contaminations from Surfaces by Plasma Discharges: Chemical Sputtering. ChemPhysChem, 2010, 11, 1382-1389.	1.0	38
68	Mechanisms of toxicity induced by SiO ₂ nanoparticles of <i>in vitro</i> human alveolar barrier: effects on cytokine production, oxidative stress induction, surfactant proteins A mRNA expression and nanoparticles uptake. Nanotoxicology, 2013, 7, 1095-1110.	1.6	38
69	Hydrogen peroxide detection nanosensor array for biosensor development. Sensors and Actuators B: Chemical, 2009, 137, 56-61.	4.0	37
70	A quantitative <i>in vitro</i> approach to study the intracellular fate of gold nanoparticles: from synthesis to cytotoxicity. Nanotoxicology, 2009, 3, 296-306.	1.6	37
71	Low-pressure water vapour plasma treatment of surfaces for biomolecules decontamination. Journal Physics D: Applied Physics, 2012, 45, 135203.	1.3	37
72	Morphological transformation induced by multiwall carbon nanotubes on Balb/3T3 cell model as an <i>in vitro</i> end point of carcinogenic potential. Nanotoxicology, 2013, 7, 221-233.	1.6	37

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73	Microstructural evolution of allylamine polymerized plasma films. <i>Surface and Coatings Technology</i> , 2006, 200, 5902-5907.	2.2	36
74	Protein Nanopatterns for Improved Immunodetection Sensitivity. <i>Analytical Chemistry</i> , 2008, 80, 7336-7340.	3.2	36
75	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, 1745-1751.	4.1	35
76	Application of Asymmetric Flow Field-Flow Fractionation hyphenations for liposome-antimicrobial peptide interaction. <i>Journal of Chromatography A</i> , 2015, 1422, 260-269.	1.8	35
77	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.	2.5	35
78	Direct Nanopatterning of 3D Chemically Active Structures for Biological Applications. <i>Advanced Materials</i> , 2007, 19, 1947-1950.	11.1	34
79	Use of Nanopatterned Surfaces To Enhance Immunoreaction Efficiency. <i>Analytical Chemistry</i> , 2008, 80, 1418-1424.	3.2	34
80	A printed nanolitre-scale bacterial sensor array. <i>Lab on A Chip</i> , 2011, 11, 139-146.	3.1	34
81	Effect of Low-Pressure Microwave Discharges on Pyrogen Bioactivity. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 2606-2610.	0.6	33
82	Surface modification of nanocrystalline diamond/amorphous carbon composite films. <i>Diamond and Related Materials</i> , 2008, 17, 1229-1234.	1.8	33
83	Cascade structure and overlap effects in ion-beam mixing experiments. <i>Journal of Applied Physics</i> , 1991, 69, 1310-1319.	1.1	32
84	Control of cell adhesion and spreading by spatial microarranged PEO-like and pdAA domains. <i>Surface and Coatings Technology</i> , 2005, 200, 51-57.	2.2	32
85	Fabrication of functional nano-patterned surfaces by a combination of plasma processes and electron-beam lithography. <i>Nanotechnology</i> , 2007, 18, 135303.	1.3	32
86	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.	0.9	32
87	Amphiphilic Copolymer Coatings via Plasma Polymerisation Process: Switching and Anti-Biofouling Characteristics. <i>Plasma Processes and Polymers</i> , 2011, 8, 373-385.	1.6	31
88	Surface functionalisation of polypyrrole films using UV light induced radical activation. <i>Applied Surface Science</i> , 2006, 252, 4397-4401.	3.1	30
89	Fabrication and characterization of protein arrays for stem cell patterning. <i>Soft Matter</i> , 2009, 5, 1406.	1.2	30
90	Poly(<i>N</i> -isopropylacrylamide) Grafted on Plasma-Activated Poly(ethylene oxide): Thermal Response and Interaction With Proteins. <i>Langmuir</i> , 2008, 24, 6166-6175.	1.6	29

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91	Plasmonic resonances in nanostructured gold/polymer surfaces by colloidal lithography. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 935-942.	0.8	28
92	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.	2.2	28
93	Ion beam mixing of U-based bilayers. <i>Journal of Materials Research</i> , 1991, 6, 1175-1187.	1.2	27
94	Fabrication of Polypyrrole-Based Nanoelectrode Arrays by Colloidal Lithography. <i>Analytical Chemistry</i> , 2006, 78, 7588-7591.	3.2	27
95	Neural stem cells from human cord blood on bioengineered surfaces—Novel approach to multiparameter bio-tests. <i>Toxicology</i> , 2010, 270, 35-42.	2.0	26
96	Multiplex cell microarrays for high-throughput screening. <i>Lab on A Chip</i> , 2016, 16, 4248-4262.	3.1	26
97	Highly Flexible Platform for Tuning Surface Properties of Silica Nanoparticles and Monitoring Their Biological Interaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4838-4850.	4.0	26
98	Ion beam assisted growth of dense diamond-like carbon. <i>Diamond and Related Materials</i> , 1992, 1, 307-311.	1.8	25
99	Quantification of the cellular dose and characterization of nanoparticle transport during in vitro testing. <i>Particle and Fibre Toxicology</i> , 2015, 13, 47.	2.8	25
100	Controlled micropatterning of biomolecules for cell culturing. <i>Microelectronic Engineering</i> , 2007, 84, 1733-1736.	1.1	24
101	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.	0.9	24
102	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.	1.4	24
103	Online monitoring of cell metabolism to assess the toxicity of nanoparticles: The case of cobalt ferrite. <i>Nanotoxicology</i> , 2012, 6, 272-287.	1.6	23
104	Fractal geometry of collision cascades. <i>Journal of Materials Research</i> , 1989, 4, 137-143.	1.2	22
105	Plasma-Based De-Pyrogenization. <i>Plasma Processes and Polymers</i> , 2006, 3, 272-275.	1.6	22
106	Removal of immune-stimulatory components from surfaces by plasma discharges. <i>Innate Immunity</i> , 2008, 14, 89-97.	1.1	22
107	A proteomic approach to investigate AuNPs effects in Balb/3T3 cells. <i>Toxicology Letters</i> , 2014, 228, 111-126.	0.4	22
108	Gold nanoparticles increases UV and thermal stability of human serum albumin. <i>Biointerphases</i> , 2016, 11, 04B310.	0.6	22

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109	Structural characterization of nanopatterned surfaces. <i>Surface Science</i> , 2005, 583, L142-L146.	0.8	21
110	Surface and bioproperties of nanocrystalline diamond/amorphous carbon nanocomposite films. <i>Thin Solid Films</i> , 2007, 515, 8407-8411.	0.8	21
111	Microscopic Analysis of the Interaction of Gold Nanoparticles with Cells of the Innate Immune System. <i>Scientific Reports</i> , 2013, 3, .	1.6	21
112	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.	2.5	21
113	Nanostructuring surfaces with conjugated silica colloids deposited using silicon-based microcantilevers. <i>Nanotechnology</i> , 2005, 16, 525-531.	1.3	20
114	Investigation of the nucleation and growth mechanisms of nanocrystalline diamond/amorphous carbon nanocomposite films. <i>Diamond and Related Materials</i> , 2008, 17, 1116-1121.	1.8	20
115	Surface properties of differently prepared ultrananocrystalline diamond surfaces. <i>Diamond and Related Materials</i> , 2009, 18, 745-749.	1.8	20
116	On the development of the morphology of ultrananocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 70-80.	0.8	20
117	Biosensor for direct cell detection, quantification and analysis. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4162-4168.	5.3	20
118	Developmental stage dependent neural stem cells sensitivity to methylmercury chloride on different biofunctional surfaces. <i>Toxicology in Vitro</i> , 2014, 28, 76-87.	1.1	20
119	Acid/base Micropatterned Devices for pH-Dependent Biosensors. <i>Plasma Processes and Polymers</i> , 2005, 2, 334-339.	1.6	19
120	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.	3.1	19
121	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.	0.8	19
122	Comparison of Impedance-based Sensors for Cell Adhesion Monitoring and <i>In Vitro</i> Methods for Detecting Cytotoxicity Induced by Chemicals. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 515-525.	0.7	18
123	Large-scale Fabrication of Biofunctional Nanostructured Polymer Surfaces for Selective Biomolecular Adhesion. <i>Small</i> , 2008, 4, 1919-1924.	5.2	18
124	Experimental Study of the Influence of Ar/H ₂ Microwave Discharges on Lipid A. <i>Plasma Processes and Polymers</i> , 2008, 5, 26-32.	1.6	18
125	Electrical properties of ultrananocrystalline diamond/amorphous carbon nanocomposite films. <i>Diamond and Related Materials</i> , 2010, 19, 449-452.	1.8	18
126	Sensitivity Enhancement of Surface Plasmon Resonance Imaging by Nanoarrayed Organothiols. <i>Advanced Materials</i> , 2008, 20, 2352-2358.	11.1	17

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127	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.	0.8	17
128	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.	0.4	17
129	Ion beam induced nanometric structure and oligopeptide adsorption on patterned polymer surfaces. <i>Materials Science and Engineering C</i> , 2003, 23, 779-786.	3.8	16
130	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.	1.1	16
131	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.	1.1	16
132	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.	0.4	15
133	Electrogenerated indium tin oxide-coated glass surface with photosensitive interfaces: Surface analysis. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2230-2236.	5.3	15
134	Cellular response to oxygen containing biomedical polymers modified by Ar and He implantation. <i>Acta Biomaterialia</i> , 2007, 3, 735-743.	4.1	15
135	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.	1.3	15
136	Structured biotinylated poly(3,4-ethylenedioxyppyrole) electrodes for biochemical applications. <i>RSC Advances</i> , 2012, 2, 1033-1039.	1.7	15
137	Nanostructured porous silicon micropatterns as a tool for substrate-conditioned cell research. <i>Nanoscale Research Letters</i> , 2012, 7, 396.	3.1	15
138	Microstructural evolution of non-hydrogenated amorphous carbon under ion beam assistance. <i>Thin Solid Films</i> , 1994, 241, 171-174.	0.8	14
139	Microstructure of plasma nitrided layers on aluminium. <i>Surface and Coatings Technology</i> , 2002, 156, 149-154.	2.2	14
140	Large-area protein nano-arrays patterned by soft lithography. <i>Nanotechnology</i> , 2007, 18, 505306.	1.3	14
141	Monitoring plasma etching of biomolecules by imaging ellipsometry. <i>Vacuum</i> , 2009, 84, 75-78.	1.6	14
142	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.	2.2	14
143	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.	1.6	14
144	UNCD/a-C nanocomposite films for biotechnological applications. <i>Surface and Coatings Technology</i> , 2011, 206, 667-675.	2.2	13

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145	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.	2.8	13
146	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, 161-172.	1.9	12
147	An evaluation of poly(ethylene-glycol) films stabilized by plasma and ion beam methods. <i>Applied Surface Science</i> , 2004, 235, 119-125.	3.1	12
148	Micro-spot, UV and wetting patterning pathways for applications of biofunctional aminosilane-titanate coatings. <i>Biomedical Microdevices</i> , 2007, 9, 287-294.	1.4	12
149	The effect of adhesion on the contact radius in atomic force microscopy indentation. <i>Nanotechnology</i> , 2009, 20, 365702.	1.3	12
150	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, 222-229.	0.8	12
151	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.	1.6	11
152	Stem-cell culture on patterned bio-functional surfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 1649-1657.	1.9	11
153	Nanopatterned Surfaces for Bio-Detection. <i>Analytical Letters</i> , 2010, 43, 1556-1571.	1.0	11
154	Fabrication of Bio-Functionalised Polypyrrole Nanoarrays for Bio-Molecular Recognition. <i>Micro and Nanosystems</i> , 2011, 3, 83-89.	0.3	11
155	Thiolated polyethylene oxide as a non-fouling element for nano-patterned bio-devices. <i>Applied Surface Science</i> , 2007, 253, 4796-4804.	3.1	10
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