Alessandro PodestÃ

List of Publications by Year
in descending order

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114 papers	4,088 citations	117571 34 h-index	133188 59 g-index
135 all docs	135 docs citations	135 times ranked	5338 citing authors

#	Article	IF	Citations
1	Force Sensing on Cells and Tissues by Atomic Force Microscopy. Sensors, 2022, 22, 2197.	2.1	12
2	Distinct extracellularâ€“matrix remodeling events precede symptoms of inflammation. Matrix Biology, 2021, 96, 47-68.	1.5	25
3	Large colloidal probes for atomic force microscopy: Fabrication and calibration issues. Journal of Molecular Recognition, 2021, 34, e2879.	1.1	25
4	Nanoconfinement of Ionic Liquid into Porous Carbon Electrodes. Journal of Physical Chemistry C, 2021, 125, 1292-1303.	1.5	12
5	Nanostructure Determines the Wettability of Gold Surfaces by Ionic Liquid Ultrathin Films. Frontiers in Chemistry, 2021, 9, 619432.	1.8	8
6	Micropatterning of Substrates for the Culture of Cell Networks by Stencil-Assisted Additive Nanofabrication. Micromachines, 2021, 12, 94.	1.4	2
7	Stiffening of DU145 prostate cancer cells driven by actin filaments â€“ microtubule crosstalk conferring resistance to microtubule-targeting drugs. Nanoscale, 2021, 13, 6212-6226.	2.8	21
8	Inserting Hydrogen into Germanium Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 24640-24647.	1.5	1
9	Nanoscale-Induced Formation of Silicide around Gold Nanoparticles Encapsulated in a-Si. Langmuir, 2020, 36, 939-947.	1.6	3
10	Adhesion force spectroscopy with nanostructured colloidal probes reveals nanotopography-dependent early mechanotransductive interactions at the cell membrane level. Nanoscale, 2020, 12, 14708-14723.	2.8	14
11	Ion-gated transistors based on porous and compact TiO2 films: Effect of Li ions in the gating medium. AIP Advances, 2020, 10, .	0.6	10
12	Quantum Confinement in the Spectral Response of n-Doped Germanium Quantum Dots Embedded in an Amorphous Si Layer for Quantum Dot-Based Solar Cells. ACS Applied Nano Materials, 2020, 3, 2813-2821.	2.4	8
13	Ionic liquids under nanoscale confinement. Advances in Physics: X, 2020, 5, 1736949.	1.5	25
14	Solid-Like Ordering of Imidazolium-Based Ionic Liquids at Rough Nanostructured Oxidized Silicon Surfaces. Langmuir, 2019, 35, 11881-11890.	1.6	13
15	Non-ohmic behavior and resistive switching of Au cluster-assembled films beyond the percolation threshold. Nanoscale Advances, 2019, 1, 3119-3130.	2.2	45
16	Mechanotransduction in neuronal cell development and functioning. Biophysical Reviews, 2019, 11, 701-720.	1.5	87
17	Quantitative characterization of the interfacial morphology and bulk porosity of nanoporous cluster-assembled carbon thin films. Applied Surface Science, 2019, 479, 395-402.	3.1	25
18	Silver nanoparticles from a gas aggregation nanoparticle source for plasmonic efficiency enhancement in a-Si solar cells. Materials Research Express, 2019, 6, 045012.	0.8	8

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19	Growth Mechanism of Cluster-Assembled Surfaces: From Submonolayer to Thin-Film Regime. Physical Review Applied, 2018, 9, .	1.5	40
20	Surface Confinement Induces the Formation of Solid-Like Insulating Ionic Liquid Nanostructures. Journal of Physical Chemistry C, 2018, 122, 7934-7944.	1.5	23
21	Characterization of Structural and Configurational Properties of DNA by Atomic Force Microscopy. Methods in Molecular Biology, 2018, 1672, 557-573.	0.4	1
22	Increasing the optical absorption in a-Si thin films by embedding gold nanoparticles. Optical Materials, 2018, 75, 204-210.	1.7	28
23	Neuronal Cells Confinement by Micropatterned Cluster-Assembled Dots with Mechanotransductive Nanotopography. ACS Biomaterials Science and Engineering, 2018, 4, 4062-4075.	2.6	13
24	Germanium Quantum Dot GrÃtzelâ€Type Solar Cell. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800570.	0.8	5
25	Imidazolium-Based Ionic Liquids Affect Morphology and Rigidity of Living Cells: An Atomic Force Microscopy Study. Langmuir, 2018, 34, 12452-12462.	1.6	26
26	Cluster-assembled zirconia substrates promote long-term differentiation and functioning of human islets of Langerhans. Scientific Reports, 2018, 8, 9979.	1.6	37
27	Electrostatic Double-Layer Interaction at the Surface of Rough Cluster-Assembled Films: The Case of Nanostructured Zirconia. Langmuir, 2018, 34, 10230-10242.	1.6	12
28	Quantitative Analysis of Gold Nano-aggregates by Combining Electron and Probe Microscopy Techniques. , 2018, , 67-80.		3
29	Cluster-Assembled Materials: From Fabrication to Function. , 2018, , 417-427.		5
30	Quantitative Control of Protein and Cell Interaction with Nanostructured Surfaces by Cluster Assembling. Accounts of Chemical Research, 2017, 50, 231-239.	7.6	87
31	Tuning the Extent and Depth of Penetration of Flexible Liposomes in Human Skin. Molecular Pharmaceutics, 2017, 14, 1998-2009.	2.3	27
32	The Incorporation of Ribonucleotides Induces Structural and Conformational Changes in DNA. Biophysical Journal, 2017, 113, 1373-1382.	0.2	11
33	Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. Scientific Reports, 2017, 7, 5117.	1.6	195
34	Scale Invariant Disordered Nanotopography Promotes Hippocampal Neuron Development and Maturation with Involvement of Mechanotransductive Pathways. Frontiers in Cellular Neuroscience, 2016, 10, 267.	1.8	64
35	Insight On Colorectal Carcinoma Infiltration by Studying Perilesional Extracellular Matrix. Scientific Reports, 2016, 6, 22522.	1.6	73
36	Cluster-assembled cubic zirconia films with tunable and stable nanoscale morphology against thermal annealing. Journal of Applied Physics, 2016, 120, 055302.	1.1	56

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37	Conversion of nanoscale topographical information of cluster-assembled zirconia surfaces into mechanotransductive events promotes neuronal differentiation. Journal of Nanobiotechnology, 2016, 14, 18.	4.2	95
38	Lamellipodial tension, not integrin/ligand binding, is the crucial factor to realise integrin activation and cell migration. European Journal of Cell Biology, 2016, 95, 1-14.	1.6	46
39	Nanomanufacturing of titania interfaces with controlled structural and functional properties by supersonic cluster beam deposition. Journal of Applied Physics, 2015, 118, .	1.1	81
40	Nanomechanical and topographical imaging of living cells by atomic force microscopy with colloidal probes. Review of Scientific Instruments, 2015, 86, 033705.	0.6	77
41	Stretchable nanocomposite electrodes with tunable mechanical properties by supersonic cluster beam implantation in elastomers. Applied Physics Letters, 2015, 106, 121902.	1.5	20
42	Patterning of goldâ€“polydimethylsiloxane (Auâ€“PDMS) nanocomposites by supersonic cluster beam implantation. Journal Physics D: Applied Physics, 2014, 47, 015301.	1.3	34
43	The interaction between <scp>uPAR</scp> and vitronectin triggers ligandâ€independent adhesion signalling by integrins. EMBO Journal, 2014, 33, 2458-2472.	3.5	72
44	Nanoscale Roughness Affects the Activity of Enzymes Adsorbed on Cluster-Assembled Titania Films. Langmuir, 2014, 30, 5973-5981.	1.6	14
45	Direct Characterization of Fluid Lipid Assemblies on Mercury in Electric Fields. ACS Nano, 2014, 8, 3242-3250.	7.3	21
46	Planar thin film supercapacitor based on cluster-assembled nanostructured carbon and ionic liquid electrolyte. Carbon, 2013, 59, 212-220.	5.4	47
47	Electrochemical impedance spectroscopy on nanostructured carbon electrodes grown by supersonic cluster beam deposition. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	12
48	Interaction of Imidazolium-Based Room-Temperature Ionic Liquids with DOPC Phospholipid Monolayers: Electrochemical Study. Langmuir, 2013, 29, 6573-6581.	1.6	24
49	Interaction of Bacterial Cells with Cluster-Assembled Nanostructured Titania Surfaces: An Atomic Force Microscopy Study. Journal of Nanoscience and Nanotechnology, 2013, 13, 77-85.	0.9	24
50	Nanoscale Roughness and Morphology Affect the IsoElectric Point of Titania Surfaces. PLoS ONE, 2013, 8, e68655.	1.1	49
51	Surface Analysis Using Dynamic AFM. , 2013, , 3411-3418.		2
52	Biofilm formation on nanostructured titanium oxide surfaces and a micro/nanofabrication-based preventive strategy using colloidal lithography. Biofabrication, 2012, 4, 025001.	3.7	35
53	Nano-indentation of a room-temperature ionic liquid film on silica: a computational experiment. Physical Chemistry Chemical Physics, 2012, 14, 2475.	1.3	17
54	Bottom-up engineering of the surface roughness of nanostructured cubic zirconia to control cell adhesion. Nanotechnology, 2012, 23, 475101.	1.3	43

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55	Corrigendum to â€œKinetics of Different Processes in Human Insulin Amyloid Formationâ€•[J. Mol. Biol. 366/1 (2007) 258-274]. Journal of Molecular Biology, 2011, 406, 354.	2.0	3
56	Probing Nanoscale Interactions on Biocompatible Cluster-Assembled Titanium Oxide Surfaces by Atomic Force Microscopy. Journal of Nanoscience and Nanotechnology, 2011, 11, 4739-4748.	0.9	7
57	A dielectrophoresis-based microdevice coated with nanostructured TiO2 for separation of particles and cells. Microfluidics and Nanofluidics, 2011, 10, 1211-1221.	1.0	10
58	Adhesive-free colloidal probes for nanoscale force measurements: Production and characterization. Review of Scientific Instruments, 2011, 82, 023708.	0.6	42
59	Quantitative Characterization of the Influence of the Nanoscale Morphology of Nanostructured Surfaces on Bacterial Adhesion and Biofilm Formation. PLoS ONE, 2011, 6, e25029.	1.1	233
60	Direct Microfabrication of Topographical and Chemical Cues for the Guided Growth of Neural Cell Networks on Polyamidoamine Hydrogels. Macromolecular Bioscience, 2010, 10, 842-852.	2.1	43
61	The Effect of Surface Nanometre-Scale Morphology on Protein Adsorption. PLoS ONE, 2010, 5, e11862.	1.1	216
62	Investigation of Interfacial Properties of Supported [C4mim][NTf2] Thin Films by Atomic Force Microscopy. ACS Symposium Series, 2010, , 273-290.	0.5	1
63	Nanometric ionic-liquid films on silica: a joint experimental and computational study. Journal of Physics Condensed Matter, 2009, 21, 424118.	0.7	33
64	Cluster-Assembled Nanostructured Titanium Oxide Films with Tailored Wettability. Journal of Physical Chemistry C, 2009, 113, 18264-18269.	1.5	42
65	Evidence of Extended Solidlike Layering in [Bmim][NTf2] Ionic Liquid Thin Films at Room-Temperature. Journal of Physical Chemistry B, 2009, 113, 6600-6603.	1.2	163
66	Adsorption and Stability of Streptavidin on Cluster-Assembled Nanostructured TiOx Films. Biophysical Journal, 2009, 96, 50a.	0.2	2
67	Nanoscale electrical properties of cluster-assembled palladium oxide thin films. Physical Review B, 2009, 79, .	1.1	12
68	Biomimetic poly(amidoamine) hydrogels as synthetic materials for cell culture. Journal of Nanobiotechnology, 2008, 6, 14.	4.2	27
69	ATPâ€dependent looping of DNA by ISWI. Journal of Biophotonics, 2008, 1, 280-286.	1.1	11
70	Quantitative Investigation by Atomic Force Microscopy of Supported Phospholipid Layers and Nanostructures on Cholesterol-Functionalized Glass Surfaces. Langmuir, 2008, 24, 7830-7841.	1.6	7
71	Adsorption and Stability of Streptavidin on Cluster-Assembled Nanostructured TiOx Films. Langmuir, 2008, 24, 11637-11644.	1.6	25
72	Electrical conductivity of cluster-assembled carbon/titania nanocomposite films irradiated by highly focused vacuum ultraviolet photon beams. Journal of Applied Physics, 2007, 101, 064314.	1.1	3

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73	Kinetics of Different Processes in Human Insulin Amyloid Formation. Journal of Molecular Biology, 2007, 366, 258-274.	2.0	163
74	Structural and tribological properties of cluster-assembled CNx films. Applied Physics A: Materials Science and Processing, 2007, 87, 767-772.	1.1	2
75	Nanocomposite TiN films with embedded MoS2 inorganic fullerenes produced by combining supersonic cluster beam deposition with cathodic arc reactive evaporation. Applied Physics A: Materials Science and Processing, 2007, 90, 101-104.	1.1	14
76	An atomic force microscopy study of the effects of surface treatments of diamond films produced by chemical vapor deposition. Diamond and Related Materials, 2006, 15, 1292-1299.	1.8	9
77	Early Events in Insulin Fibrillization Studied by Time-Lapse Atomic Force Microscopy. Biophysical Journal, 2006, 90, 589-597.	0.2	54
78	Biocompatibility of cluster-assembled nanostructured TiO2 with primary and cancer cells. Biomaterials, 2006, 27, 3221-3229.	5.7	130
79	Influence of the fluorine doping on the optical properties of CdS thin films for photovoltaic applications. Thin Solid Films, 2006, 511-512, 448-452.	0.8	41
80	Electronic properties and applications of cluster-assembled carbon films. Journal of Materials Science: Materials in Electronics, 2006, 17, 427-441.	1.1	29
81	Adhesion and Proliferation of Fibroblasts on Cluster-Assembled Nanostructured Carbon Films: The Role of Surface Morphology. Journal of Nanoscience and Nanotechnology, 2006, 6, 3718-3730.	0.9	7
82	Micro- and Nanoscale Modification of Poly(2-hydroxyethyl methacrylate) Hydrogels by AFM Lithography and Nanoparticle Incorporation. Journal of Nanoscience and Nanotechnology, 2005, 5, 425-430.	0.9	2
83	Nanostructured TiO2 Films with 2â€‰eV Optical Gap. Advanced Materials, 2005, 17, 1842-1846.	11.1	148
84	FRACTAL GROWTH OF CARBON SCHWARZITES. , 2005, , .		2
85	Nanodiamond Seeding for Nucleation and Growth of CVD Diamond Films. , 2005, , 109-124.		6
86	Positively Charged Surfaces Increase the Flexibility of DNA. Biophysical Journal, 2005, 89, 2558-2563.	0.2	89
87	Quantitative nanofriction characterization of corrugated surfaces by atomic force microscopy. Review of Scientific Instruments, 2004, 75, 1228-1242.	0.6	9
88	Atomic force microscopy study of DNA deposited on poly l-ornithine-coated mica. Journal of Microscopy, 2004, 215, 236-240.	0.8	34
89	First study of humidity sensors based on nanostructured carbon films produced by supersonic cluster beam deposition. Sensors and Actuators B: Chemical, 2004, 100, 173-176.	4.0	19
90	Cluster beam microfabrication of SiC pattern on Si(1 0 0). Surface Science, 2003, 544, L709-L714.	0.8	3

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91	Fullerene freejets-based synthesis of silicon carbide: heteroepitaxial growth on Si(111) at low temperatures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 169-173.	1.7	5
92	Brillouin light scattering investigation of cluster-assembled carbon films: acoustic phonon propagation and elastic properties. Diamond and Related Materials, 2003, 12, 856-860.	1.8	6
93	Inelastic light scattering from magnetically aligned single-walled carbon nanotubes and estimate of their two-dimensional Young's modulus. Diamond and Related Materials, 2003, 12, 806-810.	1.8	10
94	Dynamic light scattering from acoustic modes in single-walled carbon nanotubes. Physical Review B, 2003, 67, .	1.1	20
95	The influence of the precursor clusters on the structural and morphological evolution of nanostructured TiO2under thermal annealing. Nanotechnology, 2003, 14, 1168-1173.	1.3	83
96	Influence of surface morphology on the wettability of cluster-assembled carbon films. Europhysics Letters, 2003, 63, 401-407.	0.7	33
97	Fractal analysis of sampled profiles: Systematic study. Physical Review E, 2002, 65, 021601.	0.8	20
98	Nanofriction Behavior of Cluster-Assembled Carbon Films. Journal of Nanoscience and Nanotechnology, 2002, 2, 637-643.	0.9	5
99	Generation of the low-density liquid phase of carbon by non-thermal melting of fullerite. Europhysics Letters, 2002, 57, 281-287.	0.7	16
100	Nanotribological characterization of industrial polytetrafluorethylene-based coatings by atomic force microscopy. Thin Solid Films, 2002, 419, 154-159.	0.8	10
101	SiC film growth on Si(111) by supersonic beams of C 60. European Physical Journal B, 2002, 26, 509-514.	0.6	6
102	Nanofriction Behavior of Cluster-Assembled Carbon Films. Journal of Nanoscience and Nanotechnology, 2002, 2, 637-643.	0.9	1
103	Title is missing!. European Physical Journal B, 2002, 26, 509-514.	0.6	11
104	Acoustic phonon propagation and elastic properties of cluster-assembled carbon films investigated by Brillouin light scattering. Physical Review B, 2001, 64, .	1.1	29
105	Cluster assembling of nanostructured carbon films. Diamond and Related Materials, 2001, 10, 240-247.	1.8	25
106	Preparation of high-quality organic films by deposition and co-deposition via supersonic seeded beams. , 2001, , .		0
107	Production and characterization of highly intense and collimated cluster beams by inertial focusing in supersonic expansions. Review of Scientific Instruments, 2001, 72, 2261-2267.	0.6	111
108	Cluster beam synthesis of nanostructured thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 2025-2033.	0.9	62

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109	Cluster beam microfabrication of patterns of three-dimensional nanostructured objects. Applied Physics Letters, 2000, 77, 1059.	1.5	58
110	Highly ordered growth of Î±-quaterthiophene films by seeded supersonic molecular beam deposition: a morphological study. Surface Science, 2000, 464, L673-L680.	0.8	17
111	Supercapacitors based on nanostructured carbon electrodes grown by cluster-beam deposition. Applied Physics Letters, 1999, 75, 2662-2664.	1.5	141
112	Synthesis of SiC on Si by Seeded Supersonic Beams of Fullerenes. Materials Research Society Symposia Proceedings, 1999, 585, 257.	0.1	0
113	Synthesis and Characterization of Cluster-Assembled Carbon Films. Materials Research Society Symposia Proceedings, 1999, 593, 75.	0.1	1
114	Film Growth, by Seeded Supersonic Beams, of Thiophene-Based Oligomers with Controlled Optical, Structural and Morphological Properties. Materials Research Society Symposia Proceedings, 1999, 598, 184.	0.1	0