Cristina Satriano

List of Publications by Year
in descending order

120 papers	3,137 citations	185998 28 h-index	197535 49 g-index
123 all docs	123 docs citations	123 times ranked	4477 citing authors

#	Article	IF	Citations
1	Catalytic combustion of volatile organic compounds on gold/cerium oxide catalysts. Applied Catalysis B: Environmental, 2003, 40, 43-49.	10.8	403
2	Reduced Lipid Bilayer Thickness Regulates the Aggregation and Cytotoxicity of Amyloid-Î². Journal of Biological Chemistry, 2017, 292, 4638-4650.	1.6	145
3	Citrus peel essential oil nanoformulations to control the tomato borer, Tuta absoluta: chemical properties and biological activity. Scientific Reports, 2017, 7, 13036.	1.6	125
4	Gold and Silver Nanoparticles for Applications in Theranostics. Current Topics in Medicinal Chemistry, 2016, 16, 3069-3102.	1.0	84
5	Synthetic fluorescent probes to map metallostasis and intracellular fate of zinc and copper. Coordination Chemistry Reviews, 2016, 311, 125-167.	9.5	81
6	Improved osteogenic differentiation of human marrow stromal cells cultured on ion-induced chemically structured poly-Îµ-caprolactone. Biomaterials, 2007, 28, 1132-1140.	5.7	75
7	The Role of Cholesterol in Driving IAPP-Membrane Interactions. Biophysical Journal, 2016, 111, 140-151.	0.2	74
8	Bacteriogenic Platinum Nanoparticles for Application in Nanomedicine. Frontiers in Chemistry, 2021, 9, 624344.	1.8	70
9	The effect of irradiation modification and RGD sequence adsorption on the response of human osteoblasts to polycaprolactone. Biomaterials, 2005, 26, 4793-4804.	5.7	69
10	Surface Chemical Structure and Cell Adhesion onto Ion Beam Modified Polysiloxane. Langmuir, 2001, 17, 2243-2250.	1.6	65
11	A multitechnique study of preferential protein adsorption on hydrophobic and hydrophilic plasma-modified polymer surfaces. Colloids and Surfaces B: Biointerfaces, 2009, 70, 76-83.	2.5	54
12	A novel fully water-soluble Cu(<scp>i</scp>) probe for fluorescence live cell imaging. Chemical Communications, 2014, 50, 9835.	2.2	53
13	â™¦ Copper (II) ions modulate Angiogenin activity in human endothelial cells. International Journal of Biochemistry and Cell Biology, 2015, 60, 185-196.	1.2	51
14	Enhancement of fibroblastic proliferation on chitosan surfaces by immobilized epidermal growth factor. Acta Biomaterialia, 2008, 4, 989-996.	4.1	47
15	A ratiometric naphthalimide sensor for live cell imaging of copper(i). Chemical Communications, 2013, 49, 5565.	2.2	46
16	Evaluation of L929 fibroblast attachment and proliferation on Arg-Gly-Asp-Ser (RGDS)-immobilized chitosan in serum-containing/serum-free cultures. Journal of Bioscience and Bioengineering, 2007, 104, 69-77.	1.1	45
17	Surface free energy and cell attachment onto ion-beam irradiated polymer surfaces. Nuclear Instruments & Methods in Physics Research B, 2003, 208, 287-293.	0.6	43
18	A Versatile Strategy for Signal Amplification Based on Core/Shell Silica Nanoparticles. Chemistry - A European Journal, 2011, 17, 13429-13432.	1.7	42

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19	Differential Cultured Fibroblast Behavior on Plasma and Ion-Beam-Modified Polysiloxane Surfaces. Langmuir, 2002, 18, 9469-9475.	1.6	41
20	Expression of cell adhesion receptors in human osteoblasts cultured on biofunctionalized poly-(Îµ-caprolactone) surfaces. Biomaterials, 2007, 28, 3668-3678.	5.7	40
21	A New Ratiometric Lysosomal Copper(II) Fluorescent Probe To Map a Dynamic Metallome in Live Cells. Inorganic Chemistry, 2018, 57, 2365-2368.	1.9	40
22	Engineered Silica Surfaces with an Assembled C60Fullerene Monolayer. Chemistry of Materials, 2005, 17, 1079-1084.	3.2	39
23	Bacterial adhesion onto nanopatterned polymer surfaces. Materials Science and Engineering C, 2006, 26, 942-946.	3.8	37
24	Electrosynthesis of hydrogel films on metal substrates for the development of coatings with tunable drug delivery performances. Journal of Biomedical Materials Research - Part A, 2009, 88A, 1048-1057.	2.1	34
25	Angiogenin and Copper Crossing in Wound Healing. International Journal of Molecular Sciences, 2021, 22, 10704.	1.8	34
26	Multitarget trehalose-carnosine conjugates inhibit AÎ² aggregation, tune copper(II) activity and decrease acrolein toxicity. European Journal of Medicinal Chemistry, 2017, 135, 447-457.	2.6	32
27	Tuning the structural and optical properties of gold/silver nano-alloys prepared by laser ablation in liquids for optical limiting, ultra-sensitive spectroscopy, and optical trapping. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2490-2498.	1.1	31
28	Adsorption of NGF and BDNF derived peptides on gold surfaces. Physical Chemistry Chemical Physics, 2014, 16, 1536-1544.	1.3	30
29	Coordination Environment of Cu(II) Ions Bound to N-Terminal Peptide Fragments of Angiogenin Protein. International Journal of Molecular Sciences, 2016, 17, 1240.	1.8	29
30	Silver nanoparticles functionalized with a fluorescent cyclic RGD peptide: a versatile integrin targeting platform for cells and bacteria. RSC Advances, 2016, 6, 112381-112392.	1.7	29
31	Surface characteristics of ionically crosslinked chitosan membranes. Journal of Applied Polymer Science, 2007, 106, 3884-3888.	1.3	28
32	Oxygen plasmaâ€induced conversion of polysiloxane into hydrophilic and smooth SiO_x surfaces. Surface and Interface Analysis, 2008, 40, 649-656.	0.8	28
33	Ratiometric fluorescence sensing and cellular imaging of Cu2+ by a new water soluble trehalose-naphthalimide based chemosensor. RSC Advances, 2013, 3, 24288.	1.7	28
34	Modeling, design and synthesis of new heteroaryl ethylenes active against the MCF-7 breast cancer cell-line. Molecular BioSystems, 2013, 9, 2426.	2.9	26
35	The Inorganic Side of NGF: Copper(II) and Zinc(II) Affect the NGF Mimicking Signaling of the N-Terminus Peptides Encompassing the Recognition Domain of TrkA Receptor. Frontiers in Neuroscience, 2016, 10, 569.	1.4	26
36	Surface tailoring of polyacrylate-grafted graphene oxide for controlled interactions at the biointerface. Journal of Colloid and Interface Science, 2017, 506, 532-542.	5.0	25

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37	The Copper(II)-Assisted Connection between NGF and BDNF by Means of Nerve Growth Factor-Mimicking Short Peptides. Cells, 2019, 8, 301.	1.8	25
38	Plasma Oxidized Polyhydroxymethylsiloxaneâ€"A New Smooth Surface for Supported Lipid Bilayer Formation. Langmuir, 2010, 26, 5715-5725.	1.6	24
39	PARP-1 Inhibitors DPQ and PJ-34 Negatively Modulate Proinflammatory Commitment of Human Glioblastoma Cells. Neurochemical Research, 2013, 38, 50-58.	1.6	23
40	Cell adhesion on low-energy ion beam-irradiated polysiloxane surfaces. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 1079-1084.	0.6	22
41	Well-defined lipid interfaces for protein adsorption studies. Physical Chemistry Chemical Physics, 2012, 14, 16695.	1.3	22
42	A neglected modulator of insulin-degrading enzyme activity and conformation: The pH. Biophysical Chemistry, 2015, 203-204, 33-40.	1.5	22
43	Fast exopolysaccharide secretion of Pseudomonas aeruginosa on polar polymer surfaces. Journal of Colloid and Interface Science, 2005, 289, 386-393.	5.0	21
44	Water structure and charge transfer phenomena at the liquidâ€"graphene interface. Physical Chemistry Chemical Physics, 2012, 14, 14605.	1.3	21
45	A Tunable Nanoplatform of Nanogold Functionalised with Angiogenin Peptides for Anti-Angiogenic Therapy of Brain Tumours. Cancers, 2019, 11, 1322.	1.7	21
46	Peptides and their Metal Complexes in Neurodegenerative Diseases: from Structural Studies to Nanomedicine Prospects. Current Medicinal Chemistry, 2018, 25, 715-747.	1.2	21
47	Cell adhesion and spreading on polymer surfaces micropatterned by ion beams. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1145-1151.	0.9	20
48	Pericyte adhesion and growth onto polyhydroxymethylsiloxane surfaces nanostructured by plasma treatment and ion irradiation. Microvascular Research, 2004, 68, 209-220.	1.1	20
49	Anti-Angiogenic and Anti-Proliferative Graphene Oxide Nanosheets for Tumor Cell Therapy. International Journal of Molecular Sciences, 2020, 21, 5571.	1.8	20
50	Study of albumin adsorption on ion beam irradiated polymer surfaces. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 782-787.	0.6	19
51	Comparison Between Folic Acid and gH625 Peptide-Based Functionalization of Fe3O4 Magnetic Nanoparticles for Enhanced Cell Internalization. Nanoscale Research Letters, 2018, 13, 45.	3.1	19
52	Hyaluronan-Metal Gold Nanoparticle Hybrids for Targeted Tumor Cell Therapy. International Journal of Molecular Sciences, 2020, 21, 3085.	1.8	19
53	Surface immobilization of fibronectin-derived PHSRN peptide on functionalized polymer films â€" Effects on fibroblast spreading. Journal of Colloid and Interface Science, 2010, 341, 232-239.	5.0	18
54	PJ-34 inhibits PARP-1 expression and ERK phosphorylation in glioma-conditioned brain microvascular endothelial cells. European Journal of Pharmacology, 2015, 761, 55-64.	1.7	18

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55	Different zinc(II) complex species and binding modes at AÎ² N-terminus drive distinct long range cross-talks in the AÎ² monomers. Journal of Inorganic Biochemistry, 2015, 153, 367-376.	1.5	18
56	Gold nanoparticles functionalized with PEGylate uncharged porphyrins. Dyes and Pigments, 2017, 141, 225-234.	2.0	18
57	A Hybrid Nanoplatform of Graphene Oxide/Nanogold for Plasmonic Sensing and Cellular Applications at the Nanobiointerface. Applied Sciences (Switzerland), 2019, 9, 676.	1.3	18
58	Cytotoxic phenanthroline derivatives alter metallostasis and redox homeostasis in neuroblastoma cells. Oncotarget, 2018, 9, 36289-36316.	0.8	18
59	Characterization and cytocompatibility of hybrid aminosilane-agarose hydrogel scaffolds. Biointerphases, 2010, 5, 23-29.	0.6	17
60	Surface adsorption of fibronectin-derived peptide fragments: the influence of electrostatics and hydrophobicity for endothelial cells adhesion. Soft Matter, 2012, 8, 53-56.	1.2	17
61	Hyaluronan-carnosine conjugates inhibit AÎ² aggregation and toxicity. Scientific Reports, 2020, 10, 15998.	1.6	17
62	Ion beam induced nanometric structure and oligopeptide adsorption on patterned polymer surfaces. Materials Science and Engineering C, 2003, 23, 779-786.	3.8	16
63	Aminofunctionalization and sub-micrometer patterning on silicon through silane doped agarose hydrogels. Journal of Materials Chemistry, 2009, 19, 5226.	6.7	16
64	Ultrathin and nanostructured ZnO-based films for fluorescence biosensing applications. Journal of Colloid and Interface Science, 2012, 365, 90-96.	5.0	16
65	Theranostic Nanoplatforms of Thiolated Reduced Graphene Oxide Nanosheets and Gold Nanoparticles. Applied Sciences (Switzerland), 2020, 10, 5529.	1.3	16
66	Human serum albumin adsorption onto a-SiC:H and a-C:H thin films deposited by plasma enhanced chemical vapor deposition. New Biotechnology, 2002, 19, 85-90.	2.7	15
67	Confined protein adsorption into nanopore arrays fabricated by colloidal-assisted polymer patterning. Chemical Communications, 2008, , 5031.	2.2	15
68	Electrostatically driven interaction of silica-supported lipid bilayer nanoplatforms and a nerve growth factor-mimicking peptide. Soft Matter, 2013, 9, 4648.	1.2	15
69	Protein adsorption and fibroblast adhesion on irradiated polysiloxane surfaces. Journal of Materials Science: Materials in Medicine, 2003, 14, 663-670.	1.7	14
70	Relationship between the fibroblastic behaviour and surface properties of RGD-immobilized PCL membranes. Journal of Materials Science: Materials in Medicine, 2007, 18, 317-319.	1.7	14
71	Î²-amyloid monomers drive up neuronal aerobic glycolysis in response to energy stressors. Aging, 2021, 13, 18033-18050.	1.4	14
72	mPEG-PLGA Nanoparticles Labelled with Loaded or Conjugated Rhodamine-B for Potential Nose-to-Brain Delivery. Pharmaceutics, 2021, 13, 1508.	2.0	14

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73	Selective Protein Adsorption on ZnO Thin Films for Biofunctional Nano-Platforms. Journal of Nanoscience and Nanotechnology, 2010, 10, 5889-5893.	0.9	13
74	A novel facile one-pot synthesis of photothermally responsive carbon polymer dots as promising drug nanocarriers. Chemical Communications, 2022, 58, 3126-3129.	2.2	13
75	The influence of fluorescent silica nanoparticle surface chemistry on the energy transfer processes with lipid bilayers. RSC Advances, 2016, 6, 52674-52682.	1.7	12
76	Fluorescent Copper Probe Inhibiting AÎ²1â€“16-Copper(II)-Catalyzed Intracellular Reactive Oxygen Species Production. Inorganic Chemistry, 2017, 56, 3729-3732.	1.9	12
77	Ferritin-supported lipid bilayers for triggering the endothelial cell response. Colloids and Surfaces B: Biointerfaces, 2017, 149, 48-55.	2.5	12
78	Binding of Lipid Vesicles to Protein-Coated Solid Polymer Surfaces: A Model for Cell Adhesion to Artificial Biocompatible Materials. Journal of Colloid and Interface Science, 2000, 231, 66-73.	5.0	11
79	pH sensitive functionalized graphene oxide as a carrier for delivering gemcitabine: A computational approach. Computational and Theoretical Chemistry, 2016, 1096, 1-6.	1.1	11
80	Immobilization of Neurotrophin Peptides on Gold Nanoparticles by Direct and Lipid-Mediated Interaction: A New Multipotential Therapeutic Nanoplatform for CNS Disorders. ACS Omega, 2017, 2, 4071-4079.	1.6	11
81	Angiogenin-mimetic peptide functionalised gold nanoparticles for cancer therapy applications. Microchemical Journal, 2018, 136, 157-163.	2.3	11
82	Organic Solvent Based Synthesis of Gold Nanoparticleâ^'Semiconducting 2H-MoS₂ Hybrid Nanosheets. Journal of Physical Chemistry C, 2019, 123, 10646-10657.	1.5	11
83	Gold Nanoparticles Functionalized with Angiogenin for Wound Care Application. Nanomaterials, 2021, 11, 201.	1.9	11
84	Metal ion coordination in peptide fragments of neurotrophins: A crucial step for understanding the role and signaling of these proteins in the brain. Coordination Chemistry Reviews, 2021, 435, 213790.	9.5	11
85	Oxaliplatin inhibits angiogenin proliferative and cell migration effects in prostate cancer cells. Journal of Inorganic Biochemistry, 2022, 226, 111657.	1.5	11
86	A novel approach to grow ZnOnanowires and nanoholes by combined colloidal lithography and MOCVD deposition. Chemical Communications, 2009, , 839-841.	2.2	10
87	Asthenozoospermia and membrane remodeling enzymes: a new role for phospholipase A₂. Andrology, 2015, 3, 1173-1182.	1.9	10
88	Copper complexes of synthetic peptides mimicking neurotrophin-3 enhance neurite outgrowth and CREB phosphorylation. Metallomics, 2019, 11, 1567-1578.	1.0	10
89	hNGF Peptides Elicit the NGF-TrkA Signalling Pathway in Cholinergic Neurons and Retain Full Neurotrophic Activity in the DRG Assay. Biomolecules, 2020, 10, 216.	1.8	9
90	Thermoresponsive and bioactive poly(vinyl ether)-based hydrogels synthesized by radiation copolymerization and photochemical immobilization. Radiation Physics and Chemistry, 2008, 77, 154-161.	1.4	8

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91	UV-O3-treated and protein-coated polymer surfaces facilitate endothelial cell adhesion and proliferation mediated by the PKCÎ±/ERK/cPLA2 pathway. Microvascular Research, 2008, 75, 330-342.	1.1	8
92	Gold nanoparticles functionalized with angiogenin-mimicking peptides modulate cell membrane interactions. Biointerphases, 2018, 13, 03C401.	0.6	8
93	Light-Triggered Polymeric Nanobombs for Targeted Cell Death. ACS Applied Nano Materials, 2020, 3, 1950-1960.	2.4	8
94	Self-organization of yeast cells on modified polymer surfaces after dewetting: new perspectives in cellular patterning. Journal of Physics Condensed Matter, 2006, 18, S2221-S2230.	0.7	7
95	Neurotrophin-mimicking peptides at the biointerface with gold respond to copper ion stimuli. Physical Chemistry Chemical Physics, 2016, 18, 30595-30604.	1.3	7
96	Porphyrin-Based Supramolecular Flags in the Thermal Gradientsâ€™ Wind: What Breaks the Symmetry, How and Why. Nanomaterials, 2021, 11, 1673.	1.9	7
97	The hybrid nanobiointerface between nitrogen-doped graphene oxide and lipid membranes: a theoretical and experimental study. AIMS Materials Science, 2016, 4, 43-60.	0.7	7
98	Graphene Oxide Nanosheets Tailored With Aromatic Dipeptide Nanoassemblies for a Tuneable Interaction With Cell Membranes. Frontiers in Bioengineering and Biotechnology, 2020, 8, 427.	2.0	6
99	Sulphur functionalizion of graphene oxide by radiofrequency plasma. Plasma Processes and Polymers, 2020, 17, 2000039.	1.6	6
100	Integration of Metal Organic Chemical Vapour Deposition and Wet Chemical Techniques to Obtain Highly Ordered Porous ZnO Nanoplatforms. Journal of Nanoscience and Nanotechnology, 2011, 11, 8180-8184.	0.9	5
101	Influence of the N-terminus acetylation of Semax, a synthetic analog of ACTH(4-10), on copper(II) and zinc(II) coordination and biological properties. Journal of Inorganic Biochemistry, 2016, 164, 59-69.	1.5	5
102	Specific, Surface-Driven, and High-Affinity Interactions of Fluorescent Hyaluronan with PEGylated Nanomaterials. ACS Applied Materials & Interfaces, 2020, 12, 6806-6813.	4.0	5
103	Colloidal lithography and Metal-Organic Chemical Vapor Deposition process integration to fabricate ZnO nanohole arrays. Thin Solid Films, 2010, 518, 4484-4488.	0.8	4
104	The curious case of opossum prion: a physicochemical study on copper(<scp>ii</scp>) binding to the bis-decarepeat fragment from the protein N-terminal domain. Dalton Transactions, 2019, 48, 17533-17543.	1.6	4
105	New Di(heteroaryl)ethenes as Apoptotic Antiâ€proliferative Agents Towards Breast Cancer: Design, Oneâ€Pot Synthesis and In Vitro Evaluation. ChemistrySelect, 2020, 5, 2581-2587.	0.7	4
106	Adsorption of a cell-adhesive oligopeptide on polymer surfaces irradiated by ion beams. Bio-Medical Materials and Engineering, 2005, 15, 87-99.	0.4	4
107	A nanosized photothermal responsive core-shell carbonized polymer dots based on poly(N-isopropylacrylamide) for light-triggered drug release. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112628.	2.5	4
108	Application of hybrid agaroseâ€aminosilane gels to the biofunctionalization of honeycombâ€structured polycaprolactone scaffolds. Surface and Interface Analysis, 2010, 42, 448-451.	0.8	3

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109	Lipid vesicle adsorption on micropore arrays prepared by colloidal lithography-based deposition approaches. RSC Advances, 2012, 2, 3607.	1.7	3
110	PARP-14 Promotes Survival of Mammalian Î± but Not Î² Pancreatic Cells Following Cytokine Treatment. Frontiers in Endocrinology, 2019, 10, 271.	1.5	3
111	Peptides Derived from Angiogenin Regulate Cellular Copper Uptake. International Journal of Molecular Sciences, 2021, 22, 9530.	1.8	3
112	Microcapillary-like structures prompted by phospholipase A2 activation in endothelial cells and pericytes co-cultures on a polyhydroxymethylsiloxane thin film. Biochimie, 2012, 94, 1860-1870.	1.3	2
113	Special Issue on Nano-Biointerface for Biosensing. Applied Sciences (Switzerland), 2019, 9, 4504.	1.3	2
114	Tuning the wicking and wettability properties of PET textiles by DBD or a remote atmospheric RF torch: A comparison. Plasma Processes and Polymers, 2021, 18, 2100005.	1.6	2
115	A Multifunctional Nanoplatform Made of Gold Nanoparticles and Peptides Mimicking the Vascular Endothelial Growth Factor. Applied Sciences (Switzerland), 2021, 11, 6333.	1.3	2
116	Self-organization and emergent models in bacterial adhesion on engineered polymer surfaces. , 0, , .		1
117	Editorial: Microbial Fabrication of Nanomaterials and Their Applications. Frontiers in Chemistry, 2021, 9, 739739.	1.8	1
118	Irradiation-Controlled Adsorption and Organization of Biomolecules on Surfaces: From the Nanometric to the Mesoscopic Level. , 2004, , 71-94.		1
119	Controlled Protein Adsorption on Nanostructured Zinc Oxide Thin Films Deposited by Colloidal Assisted-Low Temperature MOCVD. ECS Meeting Abstracts, 2009, , .	0.0	0
120	Enhanced plasmonic processes in amino-rich plasma polymer films for applications at the biointerface. Physical Chemistry Chemical Physics, 2021, 23, 27365-27376.	1.3	0