Carmelina Ruggiero

List of Publications by Year
in descending order

97 papers	1,167 citations	471509 17 h-index	414414 32 g-index
99 all docs	99 docs citations	99 times ranked	1312 citing authors

#	Article	IF	Citations
1	Activation of Olfactory Cortex in Newborn Infants After Odor Stimulation: A Functional Near-Infrared Spectroscopy Study. Pediatric Research, 2000, 48, 18-23.	2.3	188
2	Home telecare. Journal of Telemedicine and Telecare, 1999, 5, 11-17.	2.7	97
3	Teleradiology: a review. Journal of Telemedicine and Telecare, 1998, 4, 25-35.	2.7	57
4	How a discontinuous mechanism can produce continuous patterns in trajectory formation and handwriting. Acta Psychologica, 1983, 54, 83-98.	1.5	54
5	BEAMS (BEAds Modelling System): a set of computer programs for the generation, the visualization and the computation of the hydrodynamic and conformational properties of bead models of proteins. European Biophysics Journal, 1997, 25, 373-384.	2.2	46
6	Chitosan/dextran multilayer microcapsules for polyphenol co-delivery. Materials Science and Engineering C, 2015, 46, 374-380.	7.3	43
7	Collagen containing microcapsules: Smart containers for disease controlled therapy. Journal of Colloid and Interface Science, 2011, 357, 56-62.	9.4	42
8	Optimizing Texture Modified Foods for Oro-pharyngeal Dysphagia: A Difficult but Possible Target?. Frontiers in Nutrition, 2018, 5, 68.	3.7	40
9	Oriented collagen nanocoatings for tissue engineering. Colloids and Surfaces B: Biointerfaces, 2014, 114, 372-378.	5.0	39
10	Nanoengineered polymeric S-layers based capsules with targeting activity. Colloids and Surfaces B: Biointerfaces, 2011, 88, 366-372.	5.0	37
11	Adhesion and Proliferation of Osteoblast-Like Cells on Anodic Porous Alumina Substrates With Different Morphology. IEEE Transactions on Nanobioscience, 2013, 12, 106-111.	3.3	33
12	Artificial neural network based identification of environmental bacteria by gas-chromatographic and electrophoretic data. Journal of Microbiological Methods, 2000, 43, 45-54.	1.6	30
13	Paclitaxel-Containing Nano-Engineered Polymeric Capsules Towards Cancer Therapy. Journal of Nanoscience and Nanotechnology, 2009, 9, 6753-6759.	0.9	29
14	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. Biomaterials Science, 2019, 8, 174-188.	5.4	22
15	Internet of Things Approaches for Monitoring and Control of Smart Greenhouses in Industry 4.0. Energies, 2022, 15, 3834.	3.1	22
16	Human osteoblast-like cells response to nanofunctionalized surfaces for tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 249-255.	3.4	20
17	Nanofunctionalisation for the treatment of peripheral nervous system injuries. IET Nanobiotechnology, 2006, 153, 16.	2.1	18
18	Development of a piezoelectric immunosensor for the measurement of paclitaxel. Journal of Immunological Methods, 2006, 313, 191-198.	1.4	18

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19	BREASTCAN: An expert system for postoperative breast cancer therapy. Journal of Biomedical Informatics, 1986, 19, 445-461.	0.7	17
20	Release kinetics of gold nanoparticles from collagen microcapsules by total reflection X-ray fluorescence. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 83-88.	4.7	17
21	Polyelectrolyte based molecular carriers: The role of self-assembled proteins in permeability properties. Journal of Biomaterials Applications, 2013, 28, 262-269.	2.4	15
22	Peptides secondary structure prediction with neural networks: a criterion for building appropriate learning sets. IEEE Transactions on Biomedical Engineering, 1993, 40, 1114-1121.	4.2	14
23	Artificial neural network identification of heterotrophic marine bacteria based on their fatty-acid composition. IEEE Transactions on Biomedical Engineering, 1997, 44, 1185-1191.	4.2	14
24	Elastic Scattering and Light Transport in Three-Dimensional Collagen Gel Constructs: A Mathematical Model and Computer Simulation Approach. IEEE Transactions on Nanobioscience, 2004, 3, 85-89.	3.3	14
25	Fabrication and Characterization of Chitosan and Pectin Nanostructured Multilayers. Macromolecular Chemistry and Physics, 2015, 216, 1067-1075.	2.2	14
26	Investigation of integrin expression on the surface of osteoblast-like cells by atomic force microscopy. Ultramicroscopy, 2010, 110, 330-338.	1.9	13
27	Collaborative diagnosis over the Internet: a working experience. IEEE Internet Computing, 1999, 3, 29-37.	3.3	12
28	Protein–Surface Interactions: An Energy-Based Mathematical Model. Cell Biochemistry and Biophysics, 2005, 43, 407-418.	1.8	12
29	Artificial intelligence techniques for cancer treatment planning. Medical Informatics = Medecine Et Informatique, 1988, 13, 199-210.	0.8	11
30	A qualitative approach to cell growth modeling and simulation for cancer chemotherapy. IEEE Transactions on Biomedical Engineering, 1991, 38, 386-389.	4.2	11
31	Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules. Materials Letters, 2016, 183, 105-108.	2.6	11
32	A decision support system to detect morphologic changes of chromatin arrangement in normal-appearing cells. IEEE Transactions on Nanobioscience, 2003, 2, 118-123.	3.3	8
33	Polyelectrolyte multilayers and capsules: S-layer functionalization for improving stability and biocompatibility. Journal of Drug Delivery Science and Technology, 2017, 38, 1-8.	3.0	8
34	Mathematical Modeling of Retinal Mosaic Formation by Mechanical Interactions and Dendritic Overlap. IEEE Transactions on Nanobioscience, 2007, 6, 180-185.	3.3	7
35	Nanotechnology based targeted drug delivery. , 2010, 2010, 3731-2.		7
36	Permeability Variation Study in Collagen-Based Polymeric Capsules. BioNanoScience, 2011, 1, 192-197.	3.5	7

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37	Healthcare Associated Infections: An Interoperable Infrastructure for Multidrug Resistant Organism Surveillance. International Journal of Environmental Research and Public Health, 2020, 17, 465.	2.6	7
38	Statistical Variability of Biomedical Data: Part 1. The Influence of Serial Correlation on Mean Value Estimates. Medical Informatics = Medecine Et Informatique, 1981, 6, 1-11.	0.8	6
39	Self-assembly and recrystallization of bacterial S-layer proteins of Bacillus sphaericus and Bacillus thuringiensis on silicone, mica and quartz crystal supports. , 2010, 2010, 3739-42.		6
40	Comparative Analysis of Rac1 Binding Efficiency With Different Classes of Ligands: Morpholines, Flavonoids and Imidazoles. IEEE Transactions on Nanobioscience, 2012, 11, 181-187.	3.3	6
41	Functionalized biocompatible polyelectrolyte multilayers for drug delivery: In situ investigation of mechanical properties by dissipative quartz crystal microbalance. Materials Science and Engineering C, 2014, 35, 15-20.	7.3	6
42	Multilayered Polyelectrolyte Microcapsules: Interaction with the Enzyme Cytochrome C Oxidase. PLoS ONE, 2014, 9, e112192.	2.5	6
43	Expert systems for cancer chemotherapy. Computers and Mathematics With Applications, 1987, 14, 793-802.	2.7	5
44	Artificial intelligence techniques for the control of cancer cells. Cell Biophysics, 1989, 14, 117-127.	0.4	4
45	Human face representation by means of polynomial expansion of the harmonic descriptors of tomograms. Computerized Medical Imaging and Graphics, 1990, 14, 389-394.	5.8	4
46	A qualitative process theory based model of the HIV-1 virus-cell interaction. Computer Methods and Programs in Biomedicine, 1994, 43, 255-259.	4.7	4
47	Secondary Structure of Noxiustoxin and Charybdotoxin from Hydropathy Power Spectra. Biochemical and Biophysical Research Communications, 1994, 201, 186-193.	2.1	4
48	Permeability of S-layer coated polyelectrolyte capsules. , 2011, , .		4
49	Cancer precision medicine today: Towards omic information in healthcare systems. Tumori, 2019, 105, 38-46.	1.1	4
50	Statistical variability of biomedical data: Part 2. The influence of serial correlation on power estimates, and on comparative testing of samples. Medical Informatics = Medecine Et Informatique, 1981, 6, 207-220.	0.8	3
51	EEG power variability and its relation to auditory-evoked cortical potentials. Medical Informatics = Medecine Et Informatique, 1983, 8, 233-241.	0.8	3
52	Interpretation of gascromatographic data via artificial neural networks for the classification of marine bacteria. Cytotechnology, 1993, 11, S83-S85.	1.6	3
53	Mathematical model of retinal mosaic formation. BioSystems, 2004, 76, 113-120.	2.0	3
54	Layer by layer self assembly of Polyelectrolytes and S-layers. , 2010, , .		3

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55	Drug design for cardiovascular disease: The effect of solvation energy on Rac1-ligand interactions. , 2011, 2011, 3237-40.		3
56	Image-Based Tracking of Anticancer Drug-Loaded Nanoengineered Polyelectrolyte Capsules in Cellular Environments Using a Fast Benchtop Mid-Infrared (MIR) Microscope. ACS Omega, 2018, 3, 6143-6150.	3.5	3
57	A Modular Multipurpose, Parameter Centered Electronic Health Record Architecture. Advances in Science, Technology and Engineering Systems, 2019, 4, 334-340.	0.5	3
58	An Interoperable Electronic Health Record System for Clinical Cardiology. Informatics, 2022, 9, 47.	3.9	3
59	Statistical sampling strategies for averaging purposes in serially correlated biomedical data. Medical Informatics = Medecine Et Informatique, 1981, 6, 271-278.	0.8	2
60	Visual knowledge processing in computer-assisted radiology: a consultation system. Medical Informatics = Medecine Et Informatique, 1992, 17, 11-19.	0.8	2
61	Using CommonKADS to create a conceptual model of a guideline system for breast cancer prognosis. Medical Informatics = Medecine Et Informatique, 1996, 21, 45-59.	0.8	2
62	The EPIC project in Savona: An example of dissemination of an EU-AIM project at Municipal level. Medical Informatics = Medecine Et Informatique, 1997, 22, 143-154.	0.8	2
63	Hunting for "key residues" in the modeling of globular protein folding: an artificial neural network-based approach. IEEE Transactions on Nanobioscience, 2002, 1, 85-91.	3.3	2
64	Ionic Channel Current Burst Analysis by a Machine Learning Based Approach. IEEE Transactions on Nanobioscience, 2011, 10, 152-159.	3.3	2
65	Biomimmetic structures: Incorporation of active bio-molecules in polyelectrolyte shells. , 2012, , .		2
66	Information Technology System Including Patient Generated Health Data for Cancer Clinical Care and Research. Studies in Health Technology and Informatics, 2019, 261, 289-293.	0.3	2
67	A qualitative model of the dynamics of blood glucose and its hormonal control. Computer Methods and Programs in Biomedicine, 1993, 40, 117-130.	4.7	1
68	Objective evaluation of two markers of HIV-1 infection (p24 antigen concentration and CD4 + cell) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 215-228.	0.8	1
69	Integrated Bioinformatics analysis of structural differences in metabolic pathways. An application to Mycobacterium Leprae. , 2007, , .		1
70	Osteoblast-like cells response to layer by layer self assembled biomimetic coatings. , 2007, , .		1
71	Development of a piezoelectric immunosensor for matrix metalloproteinase-1 detection. , 2009, 2009, 2775-8.		1
72	Development of nanostructured magnetic capsules by means of the layer by layer technique. , 2010, 2010, 6477-80.		1

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73	In silicon evaluation of nanoparticle cell interaction via human TLR3. , 2010, , .		1
74	A structural model of the thoracic cage in the cat. Journal of Theoretical Biology, 1986, 119, 161-180.	1.7	0
75	Spatio-temporal characterization of intercostal activity during breathing in the cat. Journal of Theoretical Biology, 1987, 125, 125-140.	1.7	0
76	Layer by Layer Self-Assembly of Immunoglobulins for Piezoelectric Biosensors. , 2007, , .		0
77	Nanostructured Thin Films for the Development of Piezoelectric Immunosensors. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2257-60.	0.5	0
78	In silico screening of Rac1 ligand specificity. , 2008, 2008, 4098-101.		0
79	Functionalised AFM Probes for the Investigation of Integrin Distribution on the Surface of Osteosarcoma-Derived Osteoblasts. , 2008, , .		0
80	Outlines from EU - US experiences in Personalized Health Informatics. , 2009, , .		0
81	SNP analysis of Rac1 For personalized ligand interaction. , 2010, 2010, 1779-82.		0
82	Potential MiRNAs recognition site identification in 3' UTR regions by DSP methods. , 2012, 2012, 5558-61.		0
83	Polyelectrolyte multilayer coatings for implant osseointegration. , 2013, , .		0
84	Toll-like receptor structural determinants: Variability analysis by digital signal processing methods. , 2013, , .		0
85	Biomimetic polyelectrolyte multilayer ultrathin films to promote osseointegration. , 2013, , .		0
86	Self-assembled polyelectrolyte capsule for drug delivery: In vitro evaluation of their interaction with cell. , 2014, , .		0
87	Electrospun chitosan nanofibers for tissue engineering. , 2014, , .		0
88	Ribosomal DNA analysis by Wavelet Transform. AIP Conference Proceedings, 2015, , .	0.4	0
89	Evaluating Single Channel Ionic Current by Fuzzy Clustering with a Partition Validation Index. IFMBE Proceedings, 2016, , 446-450.	0.3	0
90	Prediction of potential barcoding sites on ITS1 by wavelet transform. Journal of Biomolecular Structure and Dynamics, 2016, 34, 814-823.	3.5	0

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91	Molecular docking of ursolic acid and Staphylococcus aureus ATPase for antibacterial therapy. , 2020, , .		0
92	Integrating an Electronic Health Record System into a Regional Health Information System: An HL7 FHIR Architecture. Studies in Health Technology and Informatics, 2021, 281, 1087-1088.	0.3	0
93	A Visual Tool for a User-Friendly Artificial Neural Network Based Decision Support System in Medicine. Lecture Notes in Computer Science, 2001, , 148-151.	1.3	0
94	Ultrathin Films by LbL Self-assembly for Biomimetic Coatings of Implants. IFMBE Proceedings, 2014, , 1609-1612.	0.3	0
95	Optimize ncRNA Targeting: A Signal Analysis Based Approach. IFMBE Proceedings, 2014, , 662-665.	0.3	0
96	Activation of the cerebral cortex after administration or unpleasant smells in newborn infants in intensive care unit: A functional Near Infrared Spectroscopy preliminary study. Pediatric Research, 1999, 45, 905-905.	2.3	0
97	Medical Equipment Replacement Prioritisation: A Comparison Between Linear and Fuzzy System Models. Studies in Health Technology and Informatics, 2019, 264, 1538-1539.	0.3	0