Carmelina Ruggiero

List of Publications by Year
in descending order

97 papers	1,167 citations	535685 17 h-index	466096 32 g-index
99 all docs	99 docs citations	99 times ranked	1436 citing authors

#	Article	IF	Citations
1	Internet of Things Approaches for Monitoring and Control of Smart Greenhouses in Industry 4.0. Energies, 2022, 15, 3834.	1.6	22
2	An Interoperable Electronic Health Record System for Clinical Cardiology. Informatics, 2022, 9, 47.	2.4	3
3	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.	0.2	0
4	Molecular docking of ursolic acid and Staphylococcus aureus ATPase for antibacterial therapy. , 2020, , .		0
5	Healthcare Associated Infections: An Interoperable Infrastructure for Multidrug Resistant Organism Surveillance. International Journal of Environmental Research and Public Health, 2020, 17, 465.	1.2	7
6	Cancer precision medicine today: Towards omic information in healthcare systems. Tumori, 2019, 105, 38-46.	0.6	4
7	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. Biomaterials Science, 2019, 8, 174-188.	2.6	22
8	A Modular Multipurpose, Parameter Centered Electronic Health Record Architecture. Advances in Science, Technology and Engineering Systems, 2019, 4, 334-340.	0.4	3
9	Information Technology System Including Patient Generated Health Data for Cancer Clinical Care and Research. Studies in Health Technology and Informatics, 2019, 261, 289-293.	0.2	2
10	Medical Equipment Replacement Prioritisation: A Comparison Between Linear and Fuzzy System Models. Studies in Health Technology and Informatics, 2019, 264, 1538-1539.	0.2	0
11	Optimizing Texture Modified Foods for Oro-pharyngeal Dysphagia: A Difficult but Possible Target?. Frontiers in Nutrition, 2018, 5, 68.	1.6	40
12	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.	1.6	3
13	Polyelectrolyte multilayers and capsules: S-layer functionalization for improving stability and biocompatibility. Journal of Drug Delivery Science and Technology, 2017, 38, 1-8.	1.4	8
14	Evaluating Single Channel Ionic Current by Fuzzy Clustering with a Partition Validation Index. IFMBE Proceedings, 2016, , 446-450.	0.2	0
15	Combined far-field, near-field and topographic imaging of nano-engineered polyelectrolyte capsules. Materials Letters, 2016, 183, 105-108.	1.3	11
16	Prediction of potential barcoding sites on ITS1 by wavelet transform. Journal of Biomolecular Structure and Dynamics, 2016, 34, 814-823.	2.0	0
17	Fabrication and Characterization of Chitosan and Pectin Nanostructured Multilayers. Macromolecular Chemistry and Physics, 2015, 216, 1067-1075.	1.1	14
18	Ribosomal DNA analysis by Wavelet Transform. AIP Conference Proceedings, 2015, , .	0.3	0

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19	Chitosan/dextran multilayer microcapsules for polyphenol co-delivery. Materials Science and Engineering C, 2015, 46, 374-380.	3.8	43
20	Self-assembled polyelectrolyte capsule for drug delivery: In vitro evaluation of their interaction with cell. , 2014, , .		0
21	Electrospun chitosan nanofibers for tissue engineering. , 2014, , .		0
22	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.	3.8	6
23	Oriented collagen nanocoatings for tissue engineering. Colloids and Surfaces B: Biointerfaces, 2014, 114, 372-378.	2.5	39
24	Multilayered Polyelectrolyte Microcapsules: Interaction with the Enzyme Cytochrome C Oxidase. PLoS ONE, 2014, 9, e112192.	1.1	6
25	Ultrathin Films by LbL Self-assembly for Biomimetic Coatings of Implants. IFMBE Proceedings, 2014, , 1609-1612.	0.2	0
26	Optimize ncRNA Targeting: A Signal Analysis Based Approach. IFMBE Proceedings, 2014, , 662-665.	0.2	0
27	Adhesion and Proliferation of Osteoblast-Like Cells on Anodic Porous Alumina Substrates With Different Morphology. IEEE Transactions on Nanobioscience, 2013, 12, 106-111.	2.2	33
28	Polyelectrolyte multilayer coatings for implant osseointegration. , 2013, , .		0
29	Polyelectrolyte based molecular carriers: The role of self-assembled proteins in permeability properties. Journal of Biomaterials Applications, 2013, 28, 262-269.	1.2	15
30	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.	2.3	17
31	Toll-like receptor structural determinants: Variability analysis by digital signal processing methods. , 2013, , .		0
32	Biomimetic polyelectrolyte multilayer ultrathin films to promote osseointegration. , 2013, , .		0
33	Potential MiRNAs recognition site identification in 3' UTR regions by DSP methods. , 2012, 2012, 5558-61.		0
34	Biomimmetic structures: Incorporation of active bio-molecules in polyelectrolyte shells. , 2012, , .		2
35	Comparative Analysis of Rac1 Binding Efficiency With Different Classes of Ligands: Morpholines, Flavonoids and Imidazoles. IEEE Transactions on Nanobioscience, 2012, 11, 181-187.	2.2	6
36	Permeability of S-layer coated polyelectrolyte capsules. , 2011, , .		4

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37	Ionic Channel Current Burst Analysis by a Machine Learning Based Approach. IEEE Transactions on Nanobioscience, 2011, 10, 152-159.	2.2	2
38	Nanoengineered polymeric S-layers based capsules with targeting activity. Colloids and Surfaces B: Biointerfaces, 2011, 88, 366-372.	2.5	37
39	Permeability Variation Study in Collagen-Based Polymeric Capsules. BioNanoScience, 2011, 1, 192-197.	1.5	7
40	Collagen containing microcapsules: Smart containers for disease controlled therapy. Journal of Colloid and Interface Science, 2011, 357, 56-62.	5.0	42
41	Drug design for cardiovascular disease: The effect of solvation energy on Rac1-ligand interactions. , 2011, 2011, 3237-40.		3
42	Investigation of integrin expression on the surface of osteoblast-like cells by atomic force microscopy. Ultramicroscopy, 2010, 110, 330-338.	0.8	13
43	SNP analysis of Rac1 For personalized ligand interaction. , 2010, 2010, 1779-82.		0
44	Layer by layer self assembly of Polyelectrolytes and S-layers. , 2010, , .		3
45	Development of nanostructured magnetic capsules by means of the layer by layer technique. , 2010, 2010, 6477-80.		1
46	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
47	Nanotechnology based targeted drug delivery. , 2010, 2010, 3731-2.		7
48	In silicon evaluation of nanoparticle cell interaction via human TLR3. , 2010, , .		1
49	Paclitaxel-Containing Nano-Engineered Polymeric Capsules Towards Cancer Therapy. Journal of Nanoscience and Nanotechnology, 2009, 9, 6753-6759.	0.9	29
50	Development of a piezoelectric immunosensor for matrix metalloproteinase-1 detection. , 2009, 2009, 2775-8.		1
51	Outlines from EU - US experiences in Personalized Health Informatics. , 2009, , .		0
52	Human osteoblast-like cells response to nanofunctionalized surfaces for tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 249-255.	1.6	20
53	In silico screening of Rac1 ligand specificity. , 2008, 2008, 4098-101.		0
54	Functionalised AFM Probes for the Investigation of Integrin Distribution on the Surface of Osteosarcoma-Derived Osteoblasts. , 2008, , .		0

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55	Integrated Bioinformatics analysis of structural differences in metabolic pathways. An application to Mycobacterium Leprae. , 2007, , .		1
56	Osteoblast-like cells response to layer by layer self assembled biomimetic coatings. , 2007, , .		1
57	Layer by Layer Self-Assembly of Immunoglobulins for Piezoelectric Biosensors. , 2007, , .		0
58	Mathematical Modeling of Retinal Mosaic Formation by Mechanical Interactions and Dendritic Overlap. IEEE Transactions on Nanobioscience, 2007, 6, 180-185.	2.2	7
59	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
60	Nanofunctionalisation for the treatment of peripheral nervous system injuries. IET Nanobiotechnology, 2006, 153, 16.	2.1	18
61	Development of a piezoelectric immunosensor for the measurement of paclitaxel. Journal of Immunological Methods, 2006, 313, 191-198.	0.6	18
62	Proteinâ€“Surface Interactions: An Energy-Based Mathematical Model. Cell Biochemistry and Biophysics, 2005, 43, 407-418.	0.9	12
63	Mathematical model of retinal mosaic formation. BioSystems, 2004, 76, 113-120.	0.9	3
64	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.	2.2	14
65	A decision support system to detect morphologic changes of chromatin arrangement in normal-appearing cells. IEEE Transactions on Nanobioscience, 2003, 2, 118-123.	2.2	8
66	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.	2.2	2
67	A Visual Tool for a User-Friendly Artificial Neural Network Based Decision Support System in Medicine. Lecture Notes in Computer Science, 2001, , 148-151.	1.0	0
68	Artificial neural network based identification of environmental bacteria by gas-chromatographic and electrophoretic data. Journal of Microbiological Methods, 2000, 43, 45-54.	0.7	30
69	Activation of Olfactory Cortex in Newborn Infants After Odor Stimulation: A Functional Near-Infrared Spectroscopy Study. Pediatric Research, 2000, 48, 18-23.	1.1	188
70	Home telecare. Journal of Telemedicine and Telecare, 1999, 5, 11-17.	1.4	97
71	Collaborative diagnosis over the Internet: a working experience. IEEE Internet Computing, 1999, 3, 29-37.	3.2	12
72	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.	1.1	0

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73	Teleradiology: a review. Journal of Telemedicine and Telecare, 1998, 4, 25-35.	1.4	57
74	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
75	Artificial neural network identification of heterotrophic marine bacteria based on their fatty-acid composition. IEEE Transactions on Biomedical Engineering, 1997, 44, 1185-1191.	2.5	14
76	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.	1.2	46
77	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
78	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
79	A qualitative process theory based model of the HIV-1 virus-cell interaction. Computer Methods and Programs in Biomedicine, 1994, 43, 255-259.	2.6	4
80	Secondary Structure of Noxiustoxin and Charybdotoxin from Hydropathy Power Spectra. Biochemical and Biophysical Research Communications, 1994, 201, 186-193.	1.0	4
81	Interpretation of gascromatographic data via artificial neural networks for the classification of marine bacteria. Cytotechnology, 1993, 11, S83-S85.	0.7	3
82	Peptides secondary structure prediction with neural networks: a criterion for building appropriate learning sets. IEEE Transactions on Biomedical Engineering, 1993, 40, 1114-1121.	2.5	14
83	A qualitative model of the dynamics of blood glucose and its hormonal control. Computer Methods and Programs in Biomedicine, 1993, 40, 117-130.	2.6	1
84	Visual knowledge processing in computer-assisted radiology: a consultation system. Medical Informatics = Medecine Et Informatique, 1992, 17, 11-19.	0.8	2
85	A qualitative approach to cell growth modeling and simulation for cancer chemotherapy. IEEE Transactions on Biomedical Engineering, 1991, 38, 386-389.	2.5	11
86	Human face representation by means of polynomial expansion of the harmonic descriptors of tomograms. Computerized Medical Imaging and Graphics, 1990, 14, 389-394.	3.5	4
87	Artificial intelligence techniques for the control of cancer cells. Cell Biophysics, 1989, 14, 117-127.	0.4	4
88	Artificial intelligence techniques for cancer treatment planning. Medical Informatics = Medecine Et Informatique, 1988, 13, 199-210.	0.8	11
89	Spatio-temporal characterization of intercostal activity during breathing in the cat. Journal of Theoretical Biology, 1987, 125, 125-140.	0.8	0
90	Expert systems for cancer chemotherapy. Computers and Mathematics With Applications, 1987, 14, 793-802.	1.4	5

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91	BREASTCAN: An expert system for postoperative breast cancer therapy. Journal of Biomedical Informatics, 1986, 19, 445-461.	0.7	17
92	A structural model of the thoracic cage in the cat. Journal of Theoretical Biology, 1986, 119, 161-180.	0.8	0
93	How a discontinuous mechanism can produce continuous patterns in trajectory formation and handwriting. Acta Psychologica, 1983, 54, 83-98.	0.7	54
94	EEG power variability and its relation to auditory-evoked cortical potentials. Medical Informatics = Medecine Et Informatique, 1983, 8, 233-241.	0.8	3
95	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
96	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
97	Statistical sampling strategies for averaging purposes in serially correlated biomedical data. Medical Informatics = Medecine Et Informatique, 1981, 6, 271-278.	0.8	2