

Monica Dettin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

1,454
citations

22
h-index

32
g-index

106
ext. papers

1,627
ext. citations

4.8
avg, IF

3.98
L-index

#	Paper	IF	Citations
100	Influence of Extracellular Environment on Electroporation Efficiency. <i>IFMBE Proceedings</i> , 2021 , 673-681	0.2	
99	Thymosin- β 4, and Human Vitronectin peptides Grafted to Collagen Tune Adhesion or VEGF Gene Expression in Human Cell Lines**. <i>ChemistrySelect</i> , 2021 , 6, 10160-10164	1.8	
98	Chitosan Covalently Functionalized with Peptides Mapped on Vitronectin and BMP-2 for Bone Tissue Engineering. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
97	Bio-Functionalized Chitosan for Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
96	SERS Investigation on Oligopeptides Used as Biomimetic Coatings for Medical Devices. <i>Biomolecules</i> , 2021 , 11,	5.9	2
95	Biofunctionalization of bioactive ceramic scaffolds to increase the cell response for bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	2
94	Covalent functionalization of decellularized tissues accelerates endothelialization. <i>Bioactive Materials</i> , 2021 , 6, 3851-3864	16.7	3
93	From nanoaggregates to mesoscale ribbons: the multistep self-organization of amphiphilic peptides. <i>Nanoscale Advances</i> , 2021 , 3, 3605-3614	5.1	0
92	Hydroxyapatite Surfaces Functionalized with a Self-Assembling Peptide: XPS, RAIRS and NEXAFS Study. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
91	The Efficiency of Gene Electrotransfer in Breast-Cancer Cell Lines Cultured on a Novel Collagen-Free 3D Scaffold. <i>Cancers</i> , 2020 , 12,	6.6	11
90	Breast Cancer Cell Cultures on Electrospun Poly(ϵ -Caprolactone) as a Potential Tool for Preclinical Studies on Anticancer Treatments. <i>Bioengineering</i> , 2020 , 8,	5.3	4
89	An atmospheric pressure plasma jet to tune the bioactive peptide coupling to polycaprolactone electrospun layers. <i>Applied Surface Science</i> , 2020 , 507, 144713	6.7	15
88	EAK Hydrogels Cross-Linked by Disulfide Bonds: Cys Number and Position Are Matched to Performances. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1154-1164	5.5	3
87	Expression and function of the stromal cell-derived factor-1 (SDF-1) and CXC chemokine receptor 4 (CXCR4) in the swine ovarian follicle. <i>Domestic Animal Endocrinology</i> , 2020 , 71, 106404	2.3	5
86	Breast cancer cells grown on hyaluronic acid-based scaffolds as 3D in vitro model for electroporation. <i>Bioelectrochemistry</i> , 2020 , 136, 107626	5.6	4
85	3D Synthetic Peptide-based Architectures for the Engineering of the Enteric Nervous System. <i>Scientific Reports</i> , 2019 , 9, 5583	4.9	17
84	Biofunctionalization of TiO Surfaces with Self-Assembling Layers of Oligopeptides Covalently Grafted to Chitosan. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2190-2199	5.5	10

83	Cysteine-Modified Self-Assembling Peptides on Gold: The Role of the Head and Tail. <i>Langmuir</i> , 2019 , 35, 16593-16604	4	1
82	A Novel 3D Scaffold for Cell Growth to Assess Electroporation Efficacy. <i>Cells</i> , 2019 , 8,	7.9	4
81	Cell-seeded 3D scaffolds as in vitro models for electroporation. <i>Bioelectrochemistry</i> , 2019 , 125, 15-24	5.6	10
80	Self-Assembling Behavior of Cysteine-Modified Oligopeptides: An XPS and NEXAFS Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6236-6239	3.8	14
79	Biofunctionalization of TiO surfaces with self-assembling oligopeptides in different pH and Ionic Strength conditions: Charge effects and molecular organization. <i>Materials Science and Engineering C</i> , 2018 , 90, 651-656	8.3	7
78	Surface-driven first-step events of nanoscale self-assembly for molecular peptide fibers: An experimental and theoretical study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 168, 148-155	6	5
77	Surface enhanced Raman scattering and quantum-mechanical calculations on self-assembling oligopeptides. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 982-996	2.3	5
76	Biocompatible Materials Based on Self-Assembling Peptides on Ti25Nb10Zr Alloy: Molecular Structure and Organization Investigated by Synchrotron Radiation Induced Techniques. <i>Nanomaterials</i> , 2018 , 8,	5.4	7
75	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , 2018 , 4,	4.2	44
74	Enhancement of peri-implant bone osteogenic activity induced by a peptidomimetic functionalization of titanium. <i>Annals of Anatomy</i> , 2018 , 218, 165-174	2.9	4
73	Discrimination between ulcerative colitis and Crohn's disease using phage display identified peptides and virus-mimicking synthetic nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2027-2036	6	2
72	Smart biomaterials: Surfaces functionalized with proteolytically stable osteoblast-adhesive peptides. <i>Bioactive Materials</i> , 2017 , 2, 121-130	16.7	20
71	Natural Scaffolds for Regenerative Medicine: Direct Determination of Detergents Entrapped in Decellularized Heart Valves. <i>BioMed Research International</i> , 2017 , 2017, 9274135	3	10
70	A synthetic BMP-2 mimicking peptide induces glioblastoma stem cell differentiation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2282-2292	4	10
69	Insertion of a Flexible Spacer Increases the Yield of Site-Specific Bioconjugation through N-Terminal Transamination. <i>Letters in Organic Chemistry</i> , 2017 , 14,	0.6	2
68	Self-assembling peptide hydrogels immobilized on silicon surfaces. <i>Materials Science and Engineering C</i> , 2016 , 69, 200-7	8.3	4
67	Design of Decorated Self-Assembling Peptide Hydrogels as Architecture for Mesenchymal Stem Cells. <i>Materials</i> , 2016 , 9,	3.5	25
66	A peptide nucleic acid label-free biosensor for Mycobacterium tuberculosis DNA detection via azimuthally controlled grating-coupled SPR. <i>Analytical Methods</i> , 2015 , 7, 4173-4180	3.2	13

65	Osteogenic properties of a short BMP-2 chimera peptide. <i>Journal of Peptide Science</i> , 2015 , 21, 700-9	2.1	13
64	Facile and selective covalent grafting of an RGD-peptide to electrospun scaffolds improves HUVEC adhesion. <i>Journal of Peptide Science</i> , 2015 , 21, 786-95	2.1	11
63	Electrospun Scaffolds for Osteoblast Cells: Peptide-Induced Concentration-Dependent Improvements of Polycaprolactone. <i>PLoS ONE</i> , 2015 , 10, e0137505	3.7	29
62	Driving h-osteoblast adhesion and proliferation on titania: peptide hydrogels decorated with growth factors and adhesive conjugates. <i>Journal of Peptide Science</i> , 2014 , 20, 585-94	2.1	17
61	Biocompatibility Issues of Next Generation Decellularized Bioprosthetic Devices. <i>Conference Papers in Science</i> , 2014 , 2014, 1-6		2
60	Spectroscopic investigation on the structural modifications induced by radical stress on oligopeptides for tissue engineering. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1446-1450	2.3	3
59	Mechanisms underlying the attachment and spreading of human osteoblasts: from transient interactions to focal adhesions on vitronectin-grafted bioactive surfaces. <i>Acta Biomaterialia</i> , 2013 , 9, 6105-15	10.8	33
58	Cardiomyocytes in vitro adhesion is actively influenced by biomimetic synthetic peptides for cardiac tissue engineering. <i>Tissue Engineering - Part A</i> , 2012 , 18, 725-36	3.9	12
57	Self-assembling peptide-enriched electrospun polycaprolactone scaffolds promote the h-osteoblast adhesion and modulate differentiation-associated gene expression. <i>Bone</i> , 2012 , 51, 851-9	4.7	32
56	Synthesis and chromatography-free purification of PNA-PEO conjugates for the functionalisation of gold sensors. <i>Molecules</i> , 2012 , 17, 11026-45	4.8	9
55	In vitro and in vivo pro-angiogenic effects of thymosin- β -derived peptides. <i>Cellular Immunology</i> , 2011 , 271, 299-307	4.4	8
54	Interactions between oligopeptides and oxidised titanium surfaces detected by vibrational spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 276-285	2.3	11
53	Automation of Peptide Synthesis 2011 , 495-517		1
52	Biomimetic peptide-enriched electrospun polymers: A photoelectron and infrared spectroscopy study. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 3574-3582	2.9	7
51	Chemoselective surface immobilization of proteins through a cleavable peptide. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1753-7	6.3	13
50	Electrospun scaffolds of self-assembling peptides with poly(ethylene oxide) for bone tissue engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 2526-32	10.8	43
49	Plasmonic Platforms for Biodetection Devices 2011 ,		2
48	In vitro biological activity of bovine milk ribonuclease-4. <i>Molecular Medicine Reports</i> , 2010 , 3, 127-32	2.9	8

47	An XPS study on the covalent immobilization of adhesion peptides on a glass surface. <i>Solid State Sciences</i> , 2010 , 12, 1861-1865	3.4	24
46	Self-assembling behaviour of self-complementary oligopeptides on biocompatible substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 169, 36-42	3.1	13
45	Effects on in vitro and in vivo angiogenesis induced by small peptides carrying adhesion sequences. <i>Journal of Peptide Science</i> , 2010 , 16, 349-57	2.1	21
44	Covalent surface modification of titanium oxide with different adhesive peptides: surface characterization and osteoblast-like cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 35-45	5.4	39
43	Assessment of novel chemical strategies for covalent attachment of adhesive peptides to rough titanium surfaces: XPS analysis and biological evaluation. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 463-79	5.4	28
42	Self-assembling properties of ionic-complementary peptides. <i>Journal of Peptide Science</i> , 2009 , 15, 210-9	2.1	17
41	Human Vitronectin-Derived Peptide Covalently Grafted onto Titanium Surface Improves Osteogenic Activity: A Pilot In Vivo Study on Rabbits. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2917-26	3.9	26
40	Bioactive surfaces using peptide grafting in tissue engineering 2009 , 479-507		1
39	A NEXAFS and XPS study of the adsorption of self-assembling peptides on TiO ₂ : the influence of the side chains. <i>Surface and Interface Analysis</i> , 2008 , 40, 210-214	1.5	17
38	Vibrational study of auto-assembling oligopeptides for biomedical applications. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 250-259	2.3	20
37	Self-assembling peptides: sequence, secondary structure in solution and film formation. <i>Biopolymers</i> , 2008 , 89, 906-15	2.2	18
36	Self-assembling peptides: A combined XPS and NEXAFS investigation on the structure of two dipeptides Ala α Lu, Ala α Lys. <i>Materials Science and Engineering C</i> , 2008 , 28, 309-315	8.3	27
35	Novel immobilizations of an adhesion peptide on the TiO ₂ surface: An XPS investigation. <i>Materials Science and Engineering C</i> , 2007 , 27, 1201-1206	8.3	33
34	Peptides adsorption on TiO ₂ and Au: Molecular organization investigated by NEXAFS, XPS and IR. <i>Surface Science</i> , 2007 , 601, 3843-3849	1.8	33
33	Human osteoblast-like cell adhesion on titanium substrates covalently functionalized with synthetic peptides. <i>Bone</i> , 2007 , 40, 693-9	4.7	86
32	Improvement of Anselme's adhesion model for evaluating human osteoblast response to peptide-grafted titanium surfaces. <i>Bone</i> , 2007 , 41, 704-12	4.7	13
31	Heparin enhances the furin cleavage of HIV-1 gp160 peptides. <i>FEBS Letters</i> , 2007 , 581, 5807-13	3.8	24
30	The proprotein convertase SKI-1/S1P. In vitro analysis of Lassa virus glycoprotein-derived substrates and ex vivo validation of irreversible peptide inhibitors. <i>Journal of Biological Chemistry</i> , 2006 , 281, 23471-81	5.4	52

29	Evaluation of silicon dioxide-based coating enriched with bioactive peptides mapped on human vitronectin and fibronectin: in vitro and in vivo assays. <i>Tissue Engineering</i> , 2006 , 12, 3509-23		13
28	Thin films of a self-assembling peptide on TiO ₂ and Au studied by NEXAFS, XPS and IR spectroscopies. <i>Materials Science and Engineering C</i> , 2006 , 26, 929-934	8.3	44
27	Evaluation of human osteoblast-like cell adhesion strength on Ti substrates functionalized by bioactive peptide grafting. <i>Journal of Biomechanics</i> , 2006 , 39, S575	2.9	
26	Conformational analysis of heparin binding peptides. <i>Biomaterials</i> , 2005 , 26, 3207-14	15.6	12
25	Effect of synthetic peptides on osteoblast adhesion. <i>Biomaterials</i> , 2005 , 26, 4507-15	15.6	63
24	Structural investigation of the HIV-1 envelope glycoprotein gp160 cleavage site 3: role of site-specific mutations. <i>ChemBioChem</i> , 2004 , 5, 1653-61	3.8	5
23	Contact profilometry and correspondence analysis to correlate surface properties and cell adhesion in vitro of uncoated and coated Ti and Ti6Al4V disks. <i>Biomaterials</i> , 2004 , 25, 2437-45	15.6	26
22	Anti-HIV activity and conformational studies of peptides derived from the C-terminal sequence of SDF-1. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 3058-64	8.3	13
21	Synthetic peptides for AIDS research. <i>Current Protein and Peptide Science</i> , 2004 , 5, 225-34	2.8	2
20	Structural investigation of the HIV-1 envelope glycoprotein gp160 cleavage site, 2: relevance of an N-terminal helix. <i>ChemBioChem</i> , 2003 , 4, 727-33	3.8	4
19	Synthetic peptides derived from the angiostatin K4 domain inhibit endothelial cell migration. <i>ChemBioChem</i> , 2003 , 4, 1238-42	3.8	4
18	Is the V3 loop involved in HIV binding to CD4?. <i>Biochemistry</i> , 2003 , 42, 9007-12	3.2	10
17	CCR5 N-terminus peptides enhance X4 HIV-1 infection by CXCR4 up-regulation. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 307, 640-6	3.4	2
16	Structural investigation of the HIV-1 envelope glycoprotein gp160 cleavage site. <i>Chemistry - A European Journal</i> , 2002 , 8, 1467-73	4.8	10
15	Novel osteoblast-adhesive peptides for dental/orthopedic biomaterials. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 466-71		67
14	Synthetic peptides for study of human immunodeficiency virus infection. <i>Applied Biochemistry and Biotechnology</i> , 2002 , 102-103, 41-7	3.2	2
13	A type-II beta-turn, proline-containing, cyclic pentapeptide as a building block for the construction of models of the cleavage site of pro-oxytocin. <i>Journal of Peptide Science</i> , 2001 , 7, 358-73	2.1	8
12	Definition of the alpha 2 region of HLA-DR molecules involved in CD4 binding. <i>Human Immunology</i> , 1999 , 60, 273-81	2.3	10

11	Design, synthesis and CD4 binding studies of a fluorescent analogue of a peptide that enhances HIV-1 infectivity. <i>Chemical Biology and Drug Design</i> , 1998 , 51, 110-5		3
10	Biological and conformational studies on analogues of a synthetic peptide enhancing HIV-1 infection. <i>Journal of Peptide Science</i> , 1998 , 4, 436-48	2.1	6
9	A novel algorithm for the coupling control in solid-phase peptide synthesis. <i>Chemical Biology and Drug Design</i> , 1997 , 50, 231-7		1
8	Investigations using photo affinity labeled analogues confirm the binding between sCD4 and the PND of HIV-1, MN. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 241, 584-8	3.4	2
7	Minimal sequence requirements for synthetic peptides derived from the V3 loop of the human immunodeficiency virus type 1 (HIV-1) to enhance HIV-1 binding to cells and infection. <i>Virology</i> , 1995 , 206, 807-16	3.6	14
6	Structural investigation and kinetic characterization of potential cleavage sites of HIV GP160 by human furin and PC1. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 213, 356-61	3.4	20
5	Structural studies on synthetic peptides from the principal neutralizing domain of HIV-1 gp120 that bind to CD4 and enhance HIV-1 infection. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 191, 364-70	3.4	8
4	Evidence for the presence of a secondary structure at the dibasic processing site of prohormone: the pro-ocytocin model. <i>EMBO Journal</i> , 1992 , 11, 2399-405	13	12
3	Binding to CD4 of synthetic peptides patterned on the principal neutralizing domain of the HIV-1 envelope protein. <i>Virology</i> , 1991 , 185, 820-8	3.6	29
2	Synthetic peptides from the principal neutralizing domain of human immunodeficiency virus type 1 (HIV-1) enhance HIV-1 infection through a CD4-dependent mechanism. <i>Virology</i> , 1991 , 184, 187-96	3.6	42
1	Anti-HIV-1 Activity of CD4 Synthetic Oligopeptides Representative of the Putative gp120 Binding Site. <i>Antiviral Chemistry and Chemotherapy</i> , 1991 , 2, 157-161	3.5	2