

Brigida Bochicchio

List of Publications by Year in descending order

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69
papers

1,965
citations

293460

24
h-index

286692

43
g-index

69
all docs

69
docs citations

69
times ranked

1991
citing authors

#	ARTICLE	IF	CITATIONS
1	Domains 12 to 16 of tropoelastin promote cell attachment and spreading through interactions with glycosaminoglycan and integrins αV and $\alpha 5\beta 1$. <i>FEBS Journal</i> , 2021, 288, 4024-4038.	2.2	10
2	Thermal and dynamic mechanical behavior of poly(lactic acid) (PLA)-based electrospun scaffolds for tissue engineering. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51313.	1.3	21
3	Soft Hydrogel Inspired by Elastomeric Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5028-5038.	2.6	5
4	Hyaluronic Acid-Functionalized Hybrid Gelatin-Poly-L-Lactide Scaffolds with Tunable Hydrophilicity. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 589-604.	1.1	2
5	Nanocellulose and Elastin Act as Plasticizers of Electrospun Bioinspired Scaffolds. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4836-4847.	2.0	16
6	Electrospun poly(α -lactide)/gelatin/glass-ceramics tricomponent nanofibrous scaffold for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1064-1076.	2.1	24
7	Fibrillar Self-Assembly of a Chimeric Elastin-Resilin Inspired Engineered Polypeptide. <i>Nanomaterials</i> , 2019, 9, 1613.	1.9	6
8	Tuning of hydrogel stiffness using a two-component peptide system for mammalian cell culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 535-544.	2.1	32
9	Labeling of Nanofiber-Forming Peptides by Site-Directed Bioconjugation: Effect of Spacer Length on Self-Assembly. <i>Current Organic Synthesis</i> , 2019, 16, 319-325.	0.7	1
10	Heparan sulfates facilitate harmless amyloidogenic fibril formation interacting with elastin-like peptides. <i>Scientific Reports</i> , 2018, 8, 3115.	1.6	15
11	Phase behavior and chain dynamics of elastin-like peptides versus amino acid sequences. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1323-1332.	2.0	4
12	Non-invasive characterization of hybrid gelatin:poly-lactide electrospun scaffolds using second harmonic generation and multiphoton imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6399-6412.	2.9	17
13	Interactions between elastin-like peptides and an insulating poly(ortho-aminophenol) membrane investigated by AFM and XPS. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4925-4941.	1.9	5
14	Nanofibers of Human Tropoelastin-inspired peptides: Structural characterization and biological properties. <i>Materials Science and Engineering C</i> , 2017, 77, 927-934.	3.8	6
15	Photoinduced Thiol-Chemistry Applied to the Synthesis of Self-Assembling Elastin-Inspired Glycopeptides. <i>Chemistry - A European Journal</i> , 2017, 23, 2648-2659.	1.7	11
16	Electrospun poly-lactide scaffold for the controlled and targeted delivery of a synthetically obtained Diclofenac prodrug to treat actinic keratosis. <i>Acta Biomaterialia</i> , 2017, 52, 187-196.	4.1	19
17	Characterization of a Crosslinked Elastomeric-Protein Inspired Polypeptide. <i>Chirality</i> , 2016, 28, 606-611.	1.3	3
18	Cover Image, Volume 28, Issue 8. <i>Chirality</i> , 2016, 28, i-i.	1.3	0

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19	Nanospheres from the self-assembly of an elastin-inspired triblock peptide. RSC Advances, 2015, 5, 95007-95013.	1.7	6
20	Water structure and elastin-like peptide aggregation. Journal of Thermal Analysis and Calorimetry, 2015, 120, 419-426.	2.0	16
21	Influence of the architecture on the molecular mobility of synthetic fragments inspired from human tropoelastin. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1427-1433.	1.8	4
22	Tuning self-assembly in elastin-derived peptides. Soft Matter, 2015, 11, 3385-3395.	1.2	19
23	Molecular Determinants for the Self-Assembly of Elastin Peptides. Conference Papers in Science, 2014, 2014, 1-4.	0.3	0
24	The Inhibitory Effect of Resveratrol on Elastin Amyloidogenesis. Conference Papers in Science, 2014, 2014, 1-4.	0.3	0
25	The elastin puzzle: A molecular and supramolecular study. Biomedical Spectroscopy and Imaging, 2014, 3, 249-259.	1.2	1
26	Characterisation of helical structure in AFM micrographs of a trimer of the peptide sequence (ValGlyGlyValGly). Surface and Interface Analysis, 2014, 46, 679-682.	0.8	2
27	Conformational and thermal characterization of a synthetic peptidic fragment inspired from human tropoelastin: Signature of the amyloid fibers. Pathologie Et Biologie, 2014, 62, 100-107.	2.2	49
28	Structural characterization and biological properties of the amyloidogenic elastin-like peptide (VGGVG) ₃ . Matrix Biology, 2014, 36, 15-27.	1.5	29
29	Investigating the Role of (2 <i>S</i> ,4 <i>R</i>)-4-Hydroxyproline in Elastin Model Peptides. Biomacromolecules, 2013, 14, 4278-4288.	2.6	22
30	Effect of proline analogues on the conformation of elastin peptides. New Journal of Chemistry, 2013, 37, 1326.	1.4	4
31	Biological and Structural Characterization of a Naturally Inspired Material Engineered from Elastin as a Candidate for Tissue Engineering Applications. Langmuir, 2013, 29, 15898-15906.	1.6	11
32	Amyloidogenesis of proteolytic fragments of human elastin. RSC Advances, 2013, 3, 13273.	1.7	14
33	Elastin peptides in aging and pathological conditions. Biomolecular Concepts, 2013, 4, 65-76.	1.0	27
34	Combined effects of solvation and aggregation propensity on the final supramolecular structures adopted by hydrophobic, glycine-rich, elastin-like polypeptides. Biopolymers, 2013, 99, 292-313.	1.2	16
35	An Elastin-Derived Self-Assembling Polypeptide. Journal of Soft Matter, 2013, 2013, 1-7.	1.7	7
36	Multiscale characterization of a chimeric biomimetic polypeptide for stem cell culture. Bioinspiration and Biomimetics, 2012, 7, 046007.	1.5	18

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37	Molecular and supramolecular studies on polyglycine and poly-l-proline. <i>Soft Matter</i> , 2011, 7, 6327.	1.2	14
38	Design and Production of a Chimeric Resilin-, Elastin-, and Collagen-Like Engineered Polypeptide. <i>Biomacromolecules</i> , 2011, 12, 2957-2965.	2.6	90
39	Influence of amino acid specificities on the molecular and supramolecular organization of glycine-rich elastin-like polypeptides in water. <i>Biopolymers</i> , 2011, 95, 702-721.	1.2	20
40	Role of polyproline II conformation in human tropoelastin structure. <i>Chirality</i> , 2011, 23, 694-702.	1.3	35
41	Effect of chemical cross-linking on the mechanical properties of elastomeric peptides studied by single molecule force spectroscopy. <i>Journal of Biomechanics</i> , 2011, 44, 2118-2122.	0.9	13
42	Molecular and Supramolecular Structural Studies on Significant Repetitive Sequences of Resilin. <i>ChemBioChem</i> , 2010, 11, 83-93.	1.3	56
43	Investigating by circular dichroism some amyloidogenic elastin-derived polypeptides. <i>Chirality</i> , 2010, 22, E56-66.	1.3	17
44	On enhancers and inhibitors of elastin-derived amyloidogenesis. <i>Nanomedicine</i> , 2009, 4, 31-46.	1.7	11
45	Structural and biological properties of Cucumber mosaic virus particles carrying hepatitis C virus-derived epitopes. <i>Journal of Virological Methods</i> , 2009, 155, 118-121.	1.0	18
46	Human tropoelastin sequence: Dynamics of polypeptide coded by exon 6 in solution. <i>Biopolymers</i> , 2009, 91, 943-952.	1.2	8
47	Formation of nanostructures by self-assembly of an elastin peptide. <i>Soft Matter</i> , 2009, 5, 104-113.	1.2	19
48	Investigating by CD the molecular mechanism of elasticity of elastomeric proteins. <i>Chirality</i> , 2008, 20, 985-994.	1.3	75
49	Exon 26-coded polypeptide: An isolated hydrophobic domain of human tropoelastin able to self-assemble in vitro. <i>Matrix Biology</i> , 2008, 27, 441-450.	1.5	16
50	Amyloid-like Fibrils in Elastin-Related Polypeptides: Structural Characterization and Elastic Properties. <i>Biomacromolecules</i> , 2008, 9, 796-803.	2.6	68
51	Elastic fibers and amyloid deposition in vascular tissue. <i>Future Neurology</i> , 2007, 2, 523-536.	0.9	8
52	Supramolecular organization of elastin and elastin-related nanostructured biopolymers. <i>Nanomedicine</i> , 2007, 2, 203-218.	1.7	31
53	Investigating the Amyloidogenic Nanostructured Sequences of Elastin: A Sequence Encoded by Exon 28 of Human Tropoelastin Gene. <i>Biomacromolecules</i> , 2007, 8, 3478-3486.	2.6	35
54	Molecular and Supramolecular Structural Studies on Human Tropoelastin Sequences. <i>Biophysical Journal</i> , 2007, 93, 3640-3651.	0.2	35

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55	Kinetics and Thermodynamics of Type VIII \hat{I}^2 -Turn Formation: A CD, NMR, and Microsecond Explicit Molecular Dynamics Study of the GDNP Tetrapeptide. <i>Biophysical Journal</i> , 2006, 90, 2745-2759.	0.2	44
56	Localizing \hat{I}^{\pm} -Helices in Human Tropoelastin: \hat{A} Assembly of the Elastin $\hat{\alpha}$ "Puzzle" $\hat{\alpha}$. <i>Biochemistry</i> , 2006, 45, 9518-9530.	1.2	70
57	Synthesis, Solution Structure and Biological Activity of Val-Val-Pro-Gln, a Bioactive Elastin Peptide. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1644-1651.	1.2	10
58	Synthesis of and Structural Studies on Repeating Sequences of Abductin. <i>Macromolecular Bioscience</i> , 2005, 5, 502-511.	2.1	26
59	Circular dichroism studies on repeating polypeptide sequences of abductin. <i>Chirality</i> , 2005, 17, 364-372.	1.3	16
60	Supramolecular Amyloid-like Assembly of the Polypeptide Sequence Coded by Exon 30 of Human Tropoelastin. <i>Journal of Biological Chemistry</i> , 2005, 280, 2682-2690.	1.6	93
61	Heparan sulphate interacts with tropoelastin, with some tropoelastin peptides and is present in human dermis elastic fibers. <i>Matrix Biology</i> , 2005, 24, 15-25.	1.5	53
62	Dissection of human tropoelastin: Supramolecular organization of polypeptide sequences coded by particular exons. <i>Matrix Biology</i> , 2005, 24, 96-109.	1.5	64
63	Structure and modeling studies of the carboxy-terminus region of human tropoelastin. <i>Matrix Biology</i> , 2005, 24, 271-282.	1.5	13
64	The dissection of human tropoelastin: from the molecular structure to the self-assembly to the elasticity mechanism. <i>Pathologie Et Biologie</i> , 2005, 53, 383-389.	2.2	54
65	Spectroscopic evidence revealing polyproline II structure in hydrophobic, putatively elastomeric sequences encoded by specific exons of human tropoelastin. <i>Biopolymers</i> , 2004, 73, 484-493.	1.2	39
66	Dissection of Human Tropoelastin: Solution Structure, Dynamics and Self-Assembly of the Exon 5 Peptide. <i>Chemistry - A European Journal</i> , 2004, 10, 3166-3176.	1.7	41
67	Dissection of Human Tropoelastin: \hat{A} Exon-By-Exon Chemical Synthesis and Related Conformational Studies $\hat{\alpha}$. <i>Biochemistry</i> , 2003, 42, 13347-13362.	1.2	158
68	Polyproline II structure in proteins: Identification by chiroptical spectroscopies, stability, and functions. <i>Chirality</i> , 2002, 14, 782-792.	1.3	237
69	On (GGLGY) synthetic repeating sequences of lamprin and analogous sequences. <i>Matrix Biology</i> , 2001, 20, 243-250.	1.5	36