

Francisco Javier Arias

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1717450/publications.pdf>

Version: 2024-02-01

91
papers

3,193
citations

147801

31
h-index

168389

53
g-index

92
all docs

92
docs citations

92
times ranked

2421
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and bioproduction of a recombinant multi(bio)functional elastin-like protein polymer containing cell adhesion sequences for tissue engineering purposes. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 479-484.	3.6	186
2	Description, Distribution, Activity and Phylogenetic Relationship of Ribosome-Inactivating Proteins in Plants, Fungi and Bacteria. <i>Mini-Reviews in Medicinal Chemistry</i> , 2004, 4, 461-476.	2.4	182
3	Elastin-like polypeptides in drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 85-100.	13.7	122
4	Recombinant elastin-like polymers as advanced materials for the post-oil age. <i>Polymer</i> , 2009, 50, 5159-5169.	3.8	114
5	Distribution and properties of major ribosome-inactivating proteins (28 S rRNA N-glycosidases) of the plant <i>Saponaria officinalis</i> L. (Caryophyllaceae). <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1993, 1216, 31-42.	2.4	102
6	Influence of the Amino-Acid Sequence on the Inverse Temperature Transition of Elastin-Like Polymers. <i>Biophysical Journal</i> , 2009, 97, 312-320.	0.5	99
7	Influence of the Molecular Weight on the Inverse Temperature Transition of a Model Genetically Engineered Elastin-like pH-Responsive Polymer. <i>Macromolecules</i> , 2004, 37, 3396-3400.	4.8	97
8	Layer-by-Layer Assembly of Chitosan and Recombinant Biopolymers into Biomimetic Coatings with Multiple Stimuli-Responsive Properties. <i>Small</i> , 2011, 7, 2640-2649.	10.0	97
9	Synthesis and Characterization of Macroporous Thermosensitive Hydrogels from Recombinant Elastin-Like Polymers. <i>Biomacromolecules</i> , 2009, 10, 3015-3022.	5.4	84
10	Stimuli-Responsive Thin Coatings Using Elastin-Like Polymers for Biomedical Applications. <i>Advanced Functional Materials</i> , 2009, 19, 3210-3218.	14.9	83
11	Isolation and partial characterization of nigrin b, a non-toxic novel type 2 ribosome-inactivating protein from the bark of <i>Sambucus nigra</i> L. <i>Plant Molecular Biology</i> , 1993, 22, 1181-1186.	3.9	78
12	Biofunctional design of elastin-like polymers for advanced applications in nanobiotechnology. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 269-286.	3.5	78
13	Elastin-like recombinant elastin: Biosynthetic strategies and biotechnological applications. <i>Biotechnology Journal</i> , 2011, 6, 1174-1186.	3.5	77
14	Self-Organized ECM-Mimetic Model Based on an Amphiphilic Multiblock Silk-Elastin-Like Core recombinant with a Concomitant Dual Physical Gelation Process. <i>Biomacromolecules</i> , 2014, 15, 3781-3793.	5.4	77
15	Emerging applications of multifunctional elastin-like recombinant elastin. <i>Nanomedicine</i> , 2011, 6, 111-122.	3.3	63
16	Biomimetic Calcium Phosphate Mineralization with Multifunctional Elastin-Like Recombinant Elastin. <i>Biomacromolecules</i> , 2011, 12, 1480-1486.	5.4	59
17	Synthesis of Genetically Engineered Protein Polymers (Recombinant Elastin) as an Example of Advanced Self-Assembled Smart Materials. <i>Methods in Molecular Biology</i> , 2012, 811, 17-38.	0.9	59
18	Functional expression in bacteria and plants of an scFv antibody fragment against tospoviruses. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1999, 4, 189-201.	2.4	57

#	ARTICLE	IF	CITATIONS
19	Tailored recombinant elastin-like polymers for advanced biomedical and nano(bio)technological applications. <i>Biotechnology Letters</i> , 2006, 28, 687-695.	2.2	57
20	Advanced nanomedicine and cancer: Challenges and opportunities in clinical translation. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120438.	5.2	56
21	Multifunctional Compartmentalized Capsules with a Hierarchical Organization from the Nano to the Macro Scales. <i>Biomacromolecules</i> , 2013, 14, 2403-2410.	5.4	55
22	Genetically Engineered Elastin-Like Polymer as a Substratum to Culture Cells from the Ocular Surface. <i>Current Eye Research</i> , 2009, 34, 48-56.	1.5	54
23	Immunomodulatory Nanoparticles from Elastin-Like Recombinamers: Single-Molecules for Tuberculosis Vaccine Development. <i>Molecular Pharmaceutics</i> , 2013, 10, 586-597.	4.6	48
24	Rapid micropatterning by temperature-triggered reversible gelation of a recombinant smart elastin-like tetrablock-copolymer. <i>Soft Matter</i> , 2010, 6, 1121.	2.7	47
25	A single-chain antibody fragment is functionally expressed in the cytoplasm of both <i>Escherichia coli</i> and transgenic plants. <i>FEBS Journal</i> , 1999, 262, 617-624.	0.2	45
26	Genetic Engineering of Protein-Based Polymers: The Example of Elastinlike Polymers. <i>Advances in Polymer Science</i> , 2005, , 119-167.	0.8	42
27	Nanostructured and thermoresponsive recombinant biopolymer-based microcapsules for the delivery of active molecules. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 895-902.	3.3	37
28	Molecular mechanism of inhibition of mammalian protein synthesis by some four-chain agglutinins. <i>FEBS Letters</i> , 1993, 329, 59-62.	2.8	35
29	Cusativin, a new cytidine-specific ribonuclease accumulated in seeds of <i>Cucumis sativus</i> L.. <i>Planta</i> , 1994, 194, 328-338.	3.2	33
30	Ebulitins: A new family of type 1 ribosome-inactivating proteins (rRAN-glycosidases) from leaves of <i>Sambucus ebulus</i> L. that coexist with the type 2 ribosome-inactivating protein ebulin 1. <i>FEBS Letters</i> , 1995, 360, 299-302.	2.8	33
31	A comparative study of cell behavior on different energetic and bioactive polymeric surfaces made from elastin-like recombinamers. <i>Soft Matter</i> , 2012, 8, 3239.	2.7	33
32	High level expression and facile purification of recombinant silk-elastin-like polymers in auto induction shake flask cultures. <i>AMB Express</i> , 2013, 3, 11.	3.0	33
33	Amphiphilic Elastin-Like Block Co-Recombinamers Containing Leucine Zippers: Cooperative Interplay between Both Domains Results in Injectable and Stable Hydrogels. <i>Biomacromolecules</i> , 2015, 16, 3389-3398.	5.4	33
34	Effects of ribosome-inactivating proteins on <i>Escherichia coli</i> and <i>Agrobacterium tumefaciens</i> translation systems. <i>Journal of Bacteriology</i> , 1993, 175, 6721-6724.	2.2	32
35	Biocompatibility of two model elastin-like recombinamer-based hydrogels formed through physical or chemical crosslinking for various applications in tissue engineering and regenerative medicine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1450-e1460.	2.7	32
36	Layer-by-Layer Film Growth Using Polysaccharides and Recombinant Polypeptides: A Combinatorial Approach. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6839-6848.	2.6	31

#	ARTICLE	IF	CITATIONS
37	Biocompatible ELR-Based Polyplexes Coated with MUC1 Specific Aptamers and Targeted for Breast Cancer Gene Therapy. <i>Molecular Pharmaceutics</i> , 2016, 13, 795-808.	4.6	31
38	Isolation and partial characterization of a new ribosome-inactivating protein from <i>Petrocoptis glaucifolia</i> (Lag.) Boiss. <i>Planta</i> , 1992, 186, 532-40.	3.2	30
39	Fabrication of CdSe Nanofibers with Potential for Biomedical Applications. <i>Advanced Functional Materials</i> , 2010, 20, 1011-1018.	14.9	30
40	Nanobiotechnological approach to engineered biomaterial design: the example of elastin-like polymers. <i>Nanomedicine</i> , 2006, 1, 267-280.	3.3	29
41	Cellular uptake of multilayered capsules produced with natural and genetically engineered biomimetic macromolecules. <i>Acta Biomaterialia</i> , 2014, 10, 2653-2662.	8.3	29
42	Efficient Cell and Cell-Sheet Harvesting Based on Smart Surfaces Coated with a Multifunctional and Self-Organizing Elastin-Like Recombinamer. <i>Biomacromolecules</i> , 2013, 14, 1893-1903.	5.4	28
43	Development of a mechanism and an accurate and simple mathematical model for the description of drug release: Application to a relevant example of acetazolamide-controlled release from a bio-inspired elastin-based hydrogel. <i>Materials Science and Engineering C</i> , 2016, 61, 286-292.	7.3	27
44	Regeneration of hyaline cartilage promoted by xenogeneic mesenchymal stromal cells embedded within elastin-like recombinamer-based bioactive hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 115.	3.6	27
45	Development of Biomimetic Chitosan-Based Hydrogels Using an Elastin-Like Polymer. <i>Advanced Engineering Materials</i> , 2010, 12, B37.	3.5	26
46	Self-Assembling Elastin-Like Hydrogels for Timolol Delivery: Development of an Ophthalmic Formulation Against Glaucoma. <i>Molecular Pharmaceutics</i> , 2017, 14, 4498-4508.	4.6	26
47	Genetically Engineered Elastin-based Biomaterials for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2020, 26, 7117-7146.	2.4	24
48	Recent Contributions of Elastin-Like Recombinamers to Biomedicine and Nanotechnology. <i>Current Topics in Medicinal Chemistry</i> , 2014, 14, 819-836.	2.1	24
49	Influence of the Thermodynamic and Kinetic Control of Self-Assembly on the Microstructure Evolution of Silk-Elastin-Like Recombinamer Hydrogels. <i>Small</i> , 2020, 16, e2001244.	10.0	23
50	Molecular action of the type 1 ribosome-inactivating protein saporin 5 on <i>Vicia sativa</i> ribosomes. <i>FEBS Letters</i> , 1993, 325, 291-294.	2.8	22
51	Nanotechnological Approaches to Therapeutic Delivery Using Elastin-Like Recombinamers. <i>Bioconjugate Chemistry</i> , 2015, 26, 1252-1265.	3.6	21
52	Exploiting the Sequence of Naturally Occurring Elastin: Construction, Production and Characterization of a Recombinant Thermoplastic Protein-Based Polymer. <i>Journal of Nano Research</i> , 2009, 6, 133-145.	0.8	19
53	Gold Tailored Photosensitive Elastin-Like Polymer: Synthesis of Temperature, pH and UV-Vis Sensitive Probes. <i>Macromolecular Rapid Communications</i> , 2010, 31, 568-573.	3.9	19
54	Elastin-like recombinamers with acquired functionalities for gene-delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3166-3178.	4.0	19

#	ARTICLE	IF	CITATIONS
55	Self-Assembling ELR-Based Nanoparticles as Smart Drug-Delivery Systems Modulating Cellular Growth via Akt. <i>Biomacromolecules</i> , 2019, 20, 1996-2007.	5.4	19
56	cDNA molecular cloning and seasonal accumulation of an ebulin I-related dimeric lectin of dwarf elder (<i>Sambucus ebulus</i> L.) leaves. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 1061-1065.	2.8	18
57	Preparation and Optimization of a Cell-free Translation System from <i>Vicia sativa</i> Germ Lacking Ribosome-inactivating Protein Activity. <i>Journal of Experimental Botany</i> , 1992, 43, 729-737.	4.8	17
58	Production of elastin-like recombinamer-based nanoparticles for docetaxel encapsulation and use as smart drug-delivery systems using a supercritical anti-solvent process. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 361-374.	5.8	17
59	Isolation and characterization of two new N-glycosidase type-1 ribosome-inactivating proteins, unrelated in amino-acid sequence, from <i>Petrocoptis</i> species. <i>Planta</i> , 1994, 194, 487-491.	3.2	14
60	Elastin-Like Recombinamers As Smart Drug Delivery Systems. <i>Current Drug Targets</i> , 2018, 19, 360-379.	2.1	14
61	Musarmins: three single-chain ribosome-inactivating protein isoforms from bulbs of <i>Muscari armeniacum</i> L. and Miller. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 61-78.	2.8	13
62	Trace Analysis of Bromate in Potato Snacks Using High-Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8134-8138.	5.2	13
63	A DNA Vaccine Delivery Platform Based on Elastin-Like Recombinamer Nanosystems for Rift Valley Fever Virus. <i>Molecular Pharmaceutics</i> , 2020, 17, 1608-1620.	4.6	13
64	A double safety lock tumor-specific device for suicide gene therapy in breast cancer. <i>Cancer Letters</i> , 2020, 470, 43-53.	7.2	10
65	Enzymic activity of melonin, a translational inhibitor present in dry seeds of <i>Cucumis melo</i> L.. <i>Plant Science</i> , 1994, 103, 127-134.	3.6	9
66	Recombinamers: Combining Molecular Complexity with Diverse Bioactivities for Advanced Biomedical and Biotechnological Applications. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010, 125, 145-179.	1.1	9
67	First Resonance Energy Transfer-Paired Hydrogel Forming Silk-Elastin-Like Recombinamers by Recombinant Conjugation of Fluorescent Proteins. <i>Bioconjugate Chemistry</i> , 2017, 28, 828-835.	3.6	9
68	Functional characterization of an enzymatically degradable multi-bioactive elastin-like recombinamer. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1640-1648.	7.5	9
69	Anti-Human Endoglin (hCD105) Immunotoxin-Containing Recombinant Single Chain Ribosome-Inactivating Protein Musarmin 1. <i>Toxins</i> , 2016, 8, 184.	3.4	8
70	Metronomic Anti-Cancer Therapy: A Multimodal Therapy Governed by the Tumor Microenvironment. <i>Cancers</i> , 2021, 13, 5414.	3.7	8
71	Smart Nanoparticles as Advanced Anti-Akt Kinase Delivery Systems for Pancreatic Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55790-55805.	8.0	8
72	Effect of continued exposition to ethanol on activity of the ammonium and fructose transport systems in <i>Saccharomyces cerevisiae</i> var. <i>ellipsoideus</i> . <i>Biotechnology and Bioengineering</i> , 1991, 37, 389-391.	3.3	7

#	ARTICLE	IF	CITATIONS
73	Vicia sativa L. "Run-off"™ and Purified Ribosomes: Polyphenylalanine Synthesis and Molecular Action of Ribosome-inactivating Proteins. <i>Journal of Experimental Botany</i> , 1993, 44, 1297-1304.	4.8	7
74	Aptamer-Functionalized Natural Protein-Based Polymers as Innovative Biomaterials. <i>Pharmaceutics</i> , 2020, 12, 1115.	4.5	7
75	Elastin-like recombinamer-based devices releasing Kv1.3 blockers for the prevention of intimal hyperplasia: An in vitro and in vivo study. <i>Acta Biomaterialia</i> , 2020, 115, 264-274.	8.3	6
76	Development of a cell-free translation system from <i>Cucumis melo</i> : preparation, optimization and evaluation of sensitivity to some translational inhibitors. <i>Plant Science</i> , 1993, 90, 127-134.	3.6	5
77	Bacterial expression of biologically active recombinant musarmin 1 from bulbs of <i>Muscari armeniacum</i> L. and Miller. <i>Journal of Biotechnology</i> , 2004, 112, 313-322.	3.8	5
78	A novel lipase-catalyzed method for preparing ELR-based bioconjugates. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 752-759.	7.5	5
79	Soft Hydrogel Inspired by Elastomeric Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5028-5038.	5.2	5
80	Changes in the activity of the general amino acid permease from <i>Saccharomyces cerevisiae</i> var. <i>ellipsoideus</i> during fermentation. <i>Biotechnology and Bioengineering</i> , 1990, 36, 808-810.	3.3	4
81	Protein phosphorylation in a cell-free translation system from <i>Vicia sativa</i> . <i>Phytochemistry</i> , 1991, 30, 3185-3187.	2.9	4
82	Changes in sensitivity of in vitro rat brain protein synthesis to the acute action of ethanol and isopropanol as a consequence of the long-term ingestion of isopropanol. <i>Archives of Toxicology</i> , 1991, 65, 500-504.	4.2	4
83	Effect of l-azetidine 2-carboxylic acid on the activity of the general amino-acid permease from <i>Saccharomyces cerevisiae</i> var. <i>ellipsoideus</i> . <i>Archives of Microbiology</i> , 1991, 155, 320-4.	2.2	4
84	Partial characterization of the translational inhibitor present in seeds of <i>Cucumis melo</i> L. <i>Biochemical Society Transactions</i> , 1992, 20, 313S-313S.	3.4	4
85	Isolation and Characterization of a new Dgalactose- Binding Lectin from <i>Sambucus Racemosa</i> L.. <i>Protein and Peptide Letters</i> , 2003, 10, 287-293.	0.9	4
86	A <i>Cucumis sativus</i> cell-free translation system: preparation, optimization and sensitivity to some antibiotics and ribosome-inactivating proteins. <i>Physiologia Plantarum</i> , 1993, 88, 549-556.	5.2	3
87	NMR study of the cooperative behavior of thermotropic model polypeptides. <i>Polymer International</i> , 2007, 56, 186-194.	3.1	2
88	Advanced Systems for Controlled Drug Delivery from Chemically Modified Elastin-like Recombinamers. <i>Current Organic Chemistry</i> , 2016, 21, 21-33.	1.6	2
89	Fusidic acid-dependent wheat germ ribosomal complexes require unphosphorylated elongation factor 2. <i>Phytochemistry</i> , 1992, 31, 55-57.	2.9	1
90	Tunable Morphology and Structural Properties of Recombinant Silk-Elastinlike Biopolymers by Electrospinning. <i>Biophysical Journal</i> , 2011, 100, 369a.	0.5	1

#	ARTICLE	IF	CITATIONS
91	Elastin-like Polymers as Nanovaccines: Protein Engineering of Self-Assembled, Epitope-Exposing Nanoparticles. <i>Methods in Molecular Biology</i> , 2022, 2465, 41-72.	0.9	1