

Francisco Javier Arias

List of Publications by Year in descending order

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2756
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Elastin-like Polymers as Nanovaccines: Protein Engineering of Self-Assembled, Epitope-Exposing Nanoparticles. <i>Methods in Molecular Biology</i> , 2022, 2465, 41-72. | 0.4 | 1 |
| 2 | 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. | 2.9 | 17 |
| 3 | Advanced nanomedicine and cancer: Challenges and opportunities in clinical translation. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120438. | 2.6 | 56 |
| 4 | Soft Hydrogel Inspired by Elastomeric Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5028-5038. | 2.6 | 5 |
| 5 | Metronomic Anti-Cancer Therapy: A Multimodal Therapy Governed by the Tumor Microenvironment. <i>Cancers</i> , 2021, 13, 5414. | 1.7 | 8 |
| 6 | Smart Nanoparticles as Advanced Anti-Akt Kinase Delivery Systems for Pancreatic Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55790-55805. | 4.0 | 8 |
| 7 | Genetically Engineered Elastin-based Biomaterials for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2020, 26, 7117-7146. | 1.2 | 24 |
| 8 | A double safety lock tumor-specific device for suicide gene therapy in breast cancer. <i>Cancer Letters</i> , 2020, 470, 43-53. | 3.2 | 10 |
| 9 | Aptamer-Functionalized Natural Protein-Based Polymers as Innovative Biomaterials. <i>Pharmaceutics</i> , 2020, 12, 1115. | 2.0 | 7 |
| 10 | Functional characterization of an enzymatically degradable multi-bioactive elastin-like recombinamer. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1640-1648. | 3.6 | 9 |
| 11 | 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. | 4.1 | 6 |
| 12 | 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. | 5.2 | 23 |
| 13 | A DNA Vaccine Delivery Platform Based on Elastin-Like Recombinamer Nanosystems for Rift Valley Fever Virus. <i>Molecular Pharmaceutics</i> , 2020, 17, 1608-1620. | 2.3 | 13 |
| 14 | Self-Assembling ELR-Based Nanoparticles as Smart Drug-Delivery Systems Modulating Cellular Growth via Akt. <i>Biomacromolecules</i> , 2019, 20, 1996-2007. | 2.6 | 19 |
| 15 | A novel lipase-catalyzed method for preparing ELR-based bioconjugates. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 752-759. | 3.6 | 5 |
| 16 | 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. | 1.3 | 32 |
| 17 | Elastin-Like Recombinamers As Smart Drug Delivery Systems. <i>Current Drug Targets</i> , 2018, 19, 360-379. | 1.0 | 14 |
| 18 | Förster Resonance Energy Transfer-Paired Hydrogel Forming Silk-Elastin-Like Recombinamers by Recombinant Conjugation of Fluorescent Proteins. <i>Bioconjugate Chemistry</i> , 2017, 28, 828-835. | 1.8 | 9 |

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|----|---|-----|-----------|
| 19 | Self-Assembling Elastin-Like Hydrogels for Timolol Delivery: Development of an Ophthalmic Formulation Against Glaucoma. <i>Molecular Pharmaceutics</i> , 2017, 14, 4498-4508. | 2.3 | 26 |
| 20 | 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. | 1.7 | 27 |
| 21 | Anti-Human Endoglin (hCD105) Immunotoxin Containing Recombinant Single Chain Ribosome-Inactivating Protein Musarmin 1. <i>Toxins</i> , 2016, 8, 184. | 1.5 | 8 |
| 22 | Biocompatible ELR-Based Polyplexes Coated with MUC1 Specific Aptamers and Targeted for Breast Cancer Gene Therapy. <i>Molecular Pharmaceutics</i> , 2016, 13, 795-808. | 2.3 | 31 |
| 23 | Elastin-like polypeptides in drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 85-100. | 6.6 | 122 |
| 24 | 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. | 3.8 | 27 |
| 25 | Advanced Systems for Controlled Drug Delivery from Chemically Modified Elastin-like Recombinamers. <i>Current Organic Chemistry</i> , 2016, 21, 21-33. | 0.9 | 2 |
| 26 | Elastin-like recombinamers with acquired functionalities for gene-delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3166-3178. | 2.1 | 19 |
| 27 | Nanotechnological Approaches to Therapeutic Delivery Using Elastin-Like Recombinamers. <i>Bioconjugate Chemistry</i> , 2015, 26, 1252-1265. | 1.8 | 21 |
| 28 | 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. | 2.6 | 33 |
| 29 | Self-Organized ECM-Mimetic Model Based on an Amphiphilic Multiblock Silk-Elastin-Like Corecombinamer with a Concomitant Dual Physical Gelation Process. <i>Biomacromolecules</i> , 2014, 15, 3781-3793. | 2.6 | 77 |
| 30 | Cellular uptake of multilayered capsules produced with natural and genetically engineered biomimetic macromolecules. <i>Acta Biomaterialia</i> , 2014, 10, 2653-2662. | 4.1 | 29 |
| 31 | Recent Contributions of Elastin-Like Recombinamers to Biomedicine and Nanotechnology. <i>Current Topics in Medicinal Chemistry</i> , 2014, 14, 819-836. | 1.0 | 24 |
| 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. | 1.4 | 33 |
| 33 | Immunomodulatory Nanoparticles from Elastin-Like Recombinamers: Single-Molecules for Tuberculosis Vaccine Development. <i>Molecular Pharmaceutics</i> , 2013, 10, 586-597. | 2.3 | 48 |
| 34 | Nanostructured and thermoresponsive recombinant biopolymer-based microcapsules for the delivery of active molecules. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 895-902. | 1.7 | 37 |
| 35 | Layer-by-Layer Film Growth Using Polysaccharides and Recombinant Polypeptides: A Combinatorial Approach. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6839-6848. | 1.2 | 31 |
| 36 | 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. | 2.6 | 28 |

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|----|--|-----|-----------|
| 37 | Multifunctional Compartmentalized Capsules with a Hierarchical Organization from the Nano to the Macro Scales. <i>Biomacromolecules</i> , 2013, 14, 2403-2410. | 2.6 | 55 |
| 38 | 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. | 1.2 | 33 |
| 39 | Synthesis of Genetically Engineered Protein Polymers (Recombinamers) as an Example of Advanced Self-Assembled Smart Materials. <i>Methods in Molecular Biology</i> , 2012, 811, 17-38. | 0.4 | 59 |
| 40 | Emerging applications of multifunctional elastin-like recombinamers. <i>Nanomedicine</i> , 2011, 6, 111-122. | 1.7 | 63 |
| 41 | Biomimetic Calcium Phosphate Mineralization with Multifunctional Elastin-Like Recombinamers. <i>Biomacromolecules</i> , 2011, 12, 1480-1486. | 2.6 | 59 |
| 42 | Tunable Morphology and Structural Properties of Recombinant Silk-Elastinlike Biopolymers by Electrospinning. <i>Biophysical Journal</i> , 2011, 100, 369a. | 0.2 | 1 |
| 43 | Elastin-like recombinamers: Biosynthetic strategies and biotechnological applications. <i>Biotechnology Journal</i> , 2011, 6, 1174-1186. | 1.8 | 77 |
| 44 | Layer-by-Layer Assembly of Chitosan and Recombinant Biopolymers into Biomimetic Coatings with Multiple Stimuli-Responsive Properties. <i>Small</i> , 2011, 7, 2640-2649. | 5.2 | 97 |
| 45 | Fabrication of CdSe Nanofibers with Potential for Biomedical Applications. <i>Advanced Functional Materials</i> , 2010, 20, 1011-1018. | 7.8 | 30 |
| 46 | Development of Biomimetic Chitosan-Based Hydrogels Using an Elastin-Like Polymer. <i>Advanced Engineering Materials</i> , 2010, 12, B37. | 1.6 | 26 |
| 47 | Gold Tailored Photosensitive Elastin-Like Polymer: Synthesis of Temperature, pH and UV-Vis Sensitive Probes. <i>Macromolecular Rapid Communications</i> , 2010, 31, 568-573. | 2.0 | 19 |
| 48 | Recombinamers: Combining Molecular Complexity with Diverse Bioactivities for Advanced Biomedical and Biotechnological Applications. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010, 125, 145-179. | 0.6 | 9 |
| 49 | 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. | 2.4 | 13 |
| 50 | Rapid micropatterning by temperature-triggered reversible gelation of a recombinant smart elastin-like tetrablock-copolymer. <i>Soft Matter</i> , 2010, 6, 1121. | 1.2 | 47 |
| 51 | 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 |
| 52 | Stimuli-Responsive Thin Coatings Using Elastin-Like Polymers for Biomedical Applications. <i>Advanced Functional Materials</i> , 2009, 19, 3210-3218. | 7.8 | 83 |
| 53 | Recombinamers as advanced materials for the post-oil age. <i>Polymer</i> , 2009, 50, 5159-5169. | 1.8 | 114 |
| 54 | Synthesis and Characterization of Macroporous Thermosensitive Hydrogels from Recombinant Elastin-Like Polymers. <i>Biomacromolecules</i> , 2009, 10, 3015-3022. | 2.6 | 84 |

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|----|---|-----|-----------|
| 55 | Influence of the Amino-Acid Sequence on the Inverse Temperature Transition of Elastin-Like Polymers. <i>Biophysical Journal</i> , 2009, 97, 312-320. | 0.2 | 99 |
| 56 | Genetically Engineered Elastin-Like Polymer as a Substratum to Culture Cells from the Ocular Surface. <i>Current Eye Research</i> , 2009, 34, 48-56. | 0.7 | 54 |
| 57 | Biofunctional design of elastin-like polymers for advanced applications in nanobiotechnology. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 269-286. | 1.9 | 78 |
| 58 | NMR study of the cooperative behavior of thermotropic model polypeptides. <i>Polymer International</i> , 2007, 56, 186-194. | 1.6 | 2 |
| 59 | Nanobiotechnological approach to engineered biomaterial design: the example of elastin-like polymers. <i>Nanomedicine</i> , 2006, 1, 267-280. | 1.7 | 29 |
| 60 | Tailored recombinant elastin-like polymers for advanced biomedical and nano(bio)technological applications. <i>Biotechnology Letters</i> , 2006, 28, 687-695. | 1.1 | 57 |
| 61 | Genetic Engineering of Protein-Based Polymers: The Example of Elastinlike Polymers. <i>Advances in Polymer Science</i> , 2005, , 119-167. | 0.4 | 42 |
| 62 | 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. | 1.1 | 182 |
| 63 | 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. | 1.7 | 186 |
| 64 | 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. | 2.2 | 97 |
| 65 | 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. | 1.9 | 5 |
| 66 | 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. | 1.2 | 13 |
| 67 | cDNA molecular cloning and seasonal acumulation 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. | 1.2 | 18 |
| 68 | 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. | 0.4 | 4 |
| 69 | 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 |
| 70 | 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 |
| 71 | Ebulitins: A new family of type 1 ribosome-inactivating proteins (rRNAN-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. | 1.3 | 33 |
| 72 | Cusativin, a new cytidine-specific ribonuclease accumulated in seeds of <i>Cucumis sativus</i> L.. <i>Planta</i> , 1994, 194, 328-338. | 1.6 | 33 |

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|----|---|-----|-----------|
| 73 | 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. | 1.6 | 14 |
| 74 | 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. | 1.7 | 9 |
| 75 | 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. | 2.0 | 78 |
| 76 | 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 |
| 77 | Molecular mechanism of inhibition of mammalian protein synthesis by some four-chain agglutinins. <i>FEBS Letters</i> , 1993, 329, 59-62. | 1.3 | 35 |
| 78 | 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. | 1.3 | 22 |
| 79 | 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. | 1.7 | 5 |
| 80 | <i>Vicia sativa</i> 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. | 2.4 | 7 |
| 81 | 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. | 1.0 | 32 |
| 82 | 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. | 2.6 | 3 |
| 83 | 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. | 2.4 | 17 |
| 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. | 1.6 | 4 |
| 85 | Isolation and partial characterization of a new ribosome-inactivating protein from <i>Petrocoptis glaucifolia</i> (Lag.) Boiss. <i>Planta</i> , 1992, 186, 532-40. | 1.6 | 30 |
| 86 | Fusidic acid-dependent wheat germ ribosomal complexes require unphosphorylated elongation factor 2. <i>Phytochemistry</i> , 1992, 31, 55-57. | 1.4 | 1 |
| 87 | Protein phosphorylation in a cell-free translation system from <i>Vicia sativa</i> . <i>Phytochemistry</i> , 1991, 30, 3185-3187. | 1.4 | 4 |
| 88 | 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. | 1.7 | 7 |
| 89 | 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. | 1.9 | 4 |
| 90 | 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. | 1.0 | 4 |

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|----|--|-----|-----------|
| 91 | 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. | 1.7 | 4 |