

# Ángel Serrano-Aroca

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

3,469  
citations

136740

32  
h-index

174990

52  
g-index

121  
all docs

121  
docs citations

121  
times ranked

3500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodically aperiodic pattern of SARS-CoV-2 mutations underpins the uncertainty of its origin and evolution. <i>Environmental Research</i> , 2022, 204, 112092.	3.7	4
2	Fourth-generation glucose sensors composed of copper nanostructures for diabetes management: A critical review. <i>Bioengineering and Translational Medicine</i> , 2022, 7, e10248.	3.9	32
3	Graphene Nanoplatelets: In Vivo and In Vitro Toxicity, Cell Proliferative Activity, and Cell Gene Expression. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 720.	1.3	16
4	On the association between COVID-19 vaccination levels and incidence and lethality rates at a regional scale in Spain. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 2941-2948.	1.9	5
5	Recent Advances in Metal-Based Antimicrobial Coatings for High-Touch Surfaces. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1162.	1.8	52
6	Emergence of unique SARS-CoV-2 ORF10 variants and their impact on protein structure and function. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 128-143.	3.6	13
7	A city-level analysis of PM2.5 pollution, climate and COVID-19 early spread in Spain. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2022, 20, 395-403.	1.4	8
8	Graphene Oxide versus Carbon Nanofibers in Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Films: Degradation in Simulated Intestinal Environments. <i>Polymers</i> , 2022, 14, 348.	2.0	7
9	The importance of accessory protein variants in the pathogenicity of SARS-CoV-2. <i>Archives of Biochemistry and Biophysics</i> , 2022, 717, 109124.	1.4	20
10	Gene Therapy for Neuropsychiatric Disorders: Potential Targets and Tools. <i>CNS and Neurological Disorders - Drug Targets</i> , 2022, 21, .	0.8	2
11	An issue of concern: unique truncated ORF8 protein variants of SARS-CoV-2. <i>PeerJ</i> , 2022, 10, e13136.	0.9	7
12	Biocompatible Films of Calcium Alginate Inactivate Enveloped Viruses Such as SARS-CoV-2. <i>Polymers</i> , 2022, 14, 1483.	2.0	17
13	Electroactive calcium-alginate/polycaprolactone/reduced graphene oxide nanohybrid hydrogels for skeletal muscle tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 214, 112455.	2.5	34
14	Alginate: Enhancement Strategies for Advanced Applications. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4486.	1.8	50
15	Exosomal mediated signal transduction through artificial microRNA (amiRNA): A potential target for inhibition of SARS-CoV-2. <i>Cellular Signalling</i> , 2022, 95, 110334.	1.7	8
16	Would New SARS-CoV-2 Variants Change the War against COVID-19?. <i>Epidemiologia</i> , 2022, 3, 229-237.	1.1	3
17	Associations and Disease–Disease Interactions of COVID-19 with Congenital and Genetic Disorders: A Comprehensive Review. <i>Viruses</i> , 2022, 14, 910.	1.5	6
18	Crocin Inhibits Angiogenesis and Metastasis in Colon Cancer via TNF- $\alpha$ /NF- $\kappa$ B/VEGF Pathways. <i>Cells</i> , 2022, 11, 1502.	1.8	41

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19	Antiviral Characterization of Advanced Materials: Use of Bacteriophage Phi 6 as Surrogate of Enveloped Viruses Such as SARS-CoV-2. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5335.	1.8	20
20	The structural basis of accelerated host cell entry by SARS-CoV-2. <i>FEBS Journal</i> , 2021, 288, 5010-5020.	2.2	129
21	Changes in air pollution during COVID-19 lockdown in Spain: A multi-city study. <i>Journal of Environmental Sciences</i> , 2021, 101, 16-26.	3.2	135
22	Protective Face Mask Filter Capable of Inactivating SARS-CoV-2, and Methicillin-Resistant <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> . <i>Polymers</i> , 2021, 13, 207.	2.0	56
23	Enhancement of Antimicrobial Activity of Alginate Films with a Low Amount of Carbon Nanofibers (0.1% w/w). <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2311.	1.3	23
24	Multi-Layer Graphene Oxide in Human Keratinocytes: Time-Dependent Cytotoxicity, Proliferation, and Gene Expression. <i>Coatings</i> , 2021, 11, 414.	1.2	12
25	Carbon-Based Nanomaterials: Promising Antiviral Agents to Combat COVID-19 in the Microbial-Resistant Era. <i>ACS Nano</i> , 2021, 15, 8069-8086.	7.3	134
26	Predicting COVID-19 Comorbidity Pathway Crosstalk-Based Targets and Drugs: Towards Personalized COVID-19 Management. <i>Biomedicines</i> , 2021, 9, 556.	1.4	20
27	Prosthetic meshes for hernia repair: State of art, classification, biomaterials, antimicrobial approaches, and fabrication methods. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2695-2719.	2.1	18
28	A unique view of SARS-CoV-2 through the lens of ORF8 protein. <i>Computers in Biology and Medicine</i> , 2021, 133, 104380.	3.9	48
29	Notable sequence homology of the ORF10 protein introspects the architecture of SARS-CoV-2. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 801-809.	3.6	36
30	Antiviral Properties of Alginate-Based Biomaterials: Promising Antiviral Agents against SARS-CoV-2. <i>ACS Applied Bio Materials</i> , 2021, 4, 5897-5907.	2.3	51
31	COVID-19 Vaccines and Thrombosis: Roadblock or Dead-End Street?. <i>Biomolecules</i> , 2021, 11, 1020.	1.8	28
32	Nanoarchitectures in Management of Fungal Diseases: An Overview. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7119.	1.3	10
33	SARS-CoV-2 Research Using Human Pluripotent Stem Cells and Organoids. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1491-1499.	1.6	16
34	The viral capsid as novel nanomaterials for drug delivery. <i>Future Science OA</i> , 2021, 7, FSO744.	0.9	14
35	Overview of key molecular and pharmacological targets for diabetes and associated diseases. <i>Life Sciences</i> , 2021, 278, 119632.	2.0	6
36	Autoimmunity roots of the thrombotic events after COVID-19 vaccination. <i>Autoimmunity Reviews</i> , 2021, 20, 102941.	2.5	39

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37	Carbon Nanofibers versus Silver Nanoparticles: Time-Dependent Cytotoxicity, Proliferation, and Gene Expression. <i>Biomedicines</i> , 2021, 9, 1155.	1.4	21
38	Antimicrobial Face Shield: Next Generation of Facial Protective Equipment against SARS-CoV-2 and Multidrug-Resistant Bacteria. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9518.	1.8	16
39	Antiviral Face Mask Functionalized with Solidified Hand Soap: Low-Cost Infection Prevention Clothing against Enveloped Viruses Such as SARS-CoV-2. <i>ACS Omega</i> , 2021, 6, 23495-23503.	1.6	36
40	Potential Molecular Mechanisms of Rare Anti-Tumor Immune Response by SARS-CoV-2 in Isolated Cases of Lymphomas. <i>Viruses</i> , 2021, 13, 1927.	1.5	10
41	The mechanism behind flaring/triggering of autoimmunity disorders associated with COVID-19. <i>Autoimmunity Reviews</i> , 2021, 20, 102909.	2.5	7
42	Additive manufacturing of anti-SARS-CoV-2 Copper-Tungsten-Silver alloy. <i>Rapid Prototyping Journal</i> , 2021, 27, 1831-1849.	1.6	26
43	Targeting LIN28: a new hope in prostate cancer theranostics. <i>Future Oncology</i> , 2021, 17, 3873-3880.	1.1	6
44	Implications derived from S-protein variants of SARS-CoV-2 from six continents. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 934-955.	3.6	10
45	Clinical utility of novel biosensing platform: Diagnosis of coronavirus SARS-CoV-2 at point of care. <i>Materials Letters</i> , 2021, 304, 130612.	1.3	4
46	Green Composites Films with Antibacterial Properties. <i>Materials Horizons</i> , 2021, , 485-506.	0.3	0
47	Novel Semi-Interpenetrated Polymer Networks of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate)/Poly (Vinyl Alcohol) with Incorporated Conductive Polypyrrole Nanoparticles. <i>Polymers</i> , 2021, 13, 57.	2.0	27
48	Zinc Chloride: Time-Dependent Cytotoxicity, Proliferation and Promotion of Glycoprotein Synthesis and Antioxidant Gene Expression in Human Keratinocytes. <i>Biology</i> , 2021, 10, 1072.	1.3	17
49	Fused deposition modelling: Current status, methodology, applications and future prospects. <i>Additive Manufacturing</i> , 2021, 47, 102378.	1.7	99
50	Exploiting the Metabolism of the Gut Microbiome as a Vehicle for Targeted Drug Delivery to the Colon. <i>Pharmaceuticals</i> , 2021, 14, 1211.	1.7	9
51	Protective Face Masks: Current Status and Future Trends. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 56725-56751.	4.0	76
52	3D Printed Cobalt-Chromium-Molybdenum Porous Superalloy with Superior Antiviral Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12721.	1.8	15
53	Non-Woven Infection Prevention Fabrics Coated with Biobased Cranberry Extracts Inactivate Enveloped Viruses Such as SARS-CoV-2 and Multidrug-Resistant Bacteria. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12719.	1.8	19
54	Graphene oxide nanosheets versus carbon nanofibers: Enhancement of physical and biological properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) films for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 1000-1008.	3.6	89

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55	Injectable Gel Form of a Decellularized Bladder Induces Adipose-Derived Stem Cell Differentiation into Smooth Muscle Cells In Vitro. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8608.	1.8	18
56	The effect of climate on the spread of the COVID-19 pandemic: A review of findings, and statistical and modelling techniques. <i>Progress in Physical Geography</i> , 2020, 44, 591-604.	1.4	110
57	Possible Transmission Flow of SARS-CoV-2 Based on ACE2 Features. <i>Molecules</i> , 2020, 25, 5906.	1.7	33
58	Acrylic-Based Hydrogels as Advanced Biomaterials. , 2020, , .		1
59	Acrylic-Based Materials for Biomedical and Bioengineering Applications. , 2020, , .		0
60	Physical and biological properties of alginate/carbon nanofibers hydrogel films. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 499-507.	3.6	49
61	Study of 1D and 2D Carbon Nanomaterial in Alginate Films. <i>Nanomaterials</i> , 2020, 10, 206.	1.9	41
62	A spatio-temporal analysis for exploring the effect of temperature on COVID-19 early evolution in Spain. <i>Science of the Total Environment</i> , 2020, 728, 138811.	3.9	247
63	Human adipose-derived mesenchymal stem cells accelerate decellularized neobladder regeneration. <i>International Journal of Energy Production and Management</i> , 2020, 7, 161-169.	1.9	17
64	Bio-Nanocomposite Hydrogel Based on Zinc Alginate/Graphene Oxide: Morphology, Structural Conformation, Thermal Behavior/Degradation, and Dielectric Properties. <i>Polymers</i> , 2020, 12, 702.	2.0	38
65	Carbon Nanomaterials and LED Irradiation as Antibacterial Strategies against Gram-Positive Multidrug-Resistant Pathogens. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3603.	1.8	33
66	<i>Saccharomyces Cerevisiae</i> Var. <i>Boulardii</i> : Valuable Probiotic Starter for Craft Beer Production. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3250.	1.3	40
67	Graphene oxide in zinc alginate films: Antibacterial activity, cytotoxicity, zinc release, water sorption/diffusion, wettability and opacity. <i>PLoS ONE</i> , 2019, 14, e0212819.	1.1	62
68	Acknowledgement to Reviewers of <i>Micromachines</i> in 2018. <i>Micromachines</i> , 2019, 10, 43.	1.4	0
69	Carbon Nanofibers in Pure Form and in Calcium Alginate Composites Films: New Cost-Effective Antibacterial Biomaterials against the Life-Threatening Multidrug-Resistant <i>Staphylococcus epidermidis</i> . <i>Polymers</i> , 2019, 11, 453.	2.0	43
70	Calcium alginate/graphene oxide films: Reinforced composites able to prevent <i>Staphylococcus aureus</i> and methicillin-resistant <i>Staphylococcus epidermidis</i> infections with no cytotoxicity for human keratinocyte HaCaT cells. <i>European Polymer Journal</i> , 2019, 110, 14-21.	2.6	55
71	Green synthetic routes to alginate-graphene oxide composite hydrogels with enhanced physical properties for bioengineering applications. <i>European Polymer Journal</i> , 2018, 103, 198-206.	2.6	58
72	Poly(2-hydroxyethyl acrylate) hydrogels reinforced with graphene oxide: Remarkable improvement of water diffusion and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46158.	1.3	28

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73	Aprendizaje de las matemáticas a través del lenguaje de programación R en Educación Secundaria. <i>Medicina Universitaria</i> , 2018, 30, 133-162.	0.1	10
74	Modelling of Biomass Concentration, Multi-Wavelength Absorption and Discrimination Method for Seven Important Marine Microalgae Species. <i>Energies</i> , 2018, 11, 1089.	1.6	8
75	Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate): Enhancement Strategies for Advanced Applications. <i>Polymers</i> , 2018, 10, 732.	2.0	197
76	Bioengineering Approaches for Bladder Regeneration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1796.	1.8	70
77	Low-Cost Advanced Hydrogels of Calcium Alginate/Carbon Nanofibers with Enhanced Water Diffusion and Compression Properties. <i>Polymers</i> , 2018, 10, 405.	2.0	43
78	Antimicrobial Characterization of Advanced Materials for Bioengineering Applications. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	44
79	Enhancement of water diffusion and compression performance of crosslinked alginate films with a minuscule amount of graphene oxide. <i>Scientific Reports</i> , 2017, 7, 11684.	1.6	63
80	Dynamic mechanical analysis and water vapour sorption of highly porous poly(methyl methacrylate). <i>Polymer</i> , 2017, 125, 58-65.	1.8	32
81	Synthesis of irregular graphene oxide tubes using green chemistry and their potential use as reinforcement materials for biomedical applications. <i>PLoS ONE</i> , 2017, 12, e0185235.	1.1	33
82	Real and virtual bioreactor laboratory sessions by STSE's CLIL WebQuest. <i>Education for Chemical Engineers</i> , 2015, 13, 1-8.	2.8	13
83	Thermal analysis of water in reinforced plasma-polymerised poly(2-hydroxyethyl acrylate) hydrogels. <i>European Polymer Journal</i> , 2015, 72, 523-534.	2.6	22
84	Effect of crosslinking on porous poly(methyl methacrylate) produced by phase separation. <i>Colloid and Polymer Science</i> , 2008, 286, 209-216.	1.0	27
85	Three-dimensional nanocomposite scaffolds with ordered cylindrical orthogonal pores. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 541-549.	1.6	34
86	Characterisation of macroporous poly(methyl methacrylate) coated with plasma-polymerised poly(2-hydroxyethyl acrylate). <i>European Polymer Journal</i> , 2007, 43, 4552-4564.	2.6	35
87	Macroporous poly(methyl methacrylate) produced by phase separation during polymerisation in solution. <i>Colloid and Polymer Science</i> , 2007, 285, 753-760.	1.0	25
88	Plasma-induced polymerisation of hydrophilic coatings onto macroporous hydrophobic scaffolds. <i>Polymer</i> , 2007, 48, 2071-2078.	1.8	33
89	Acrylic scaffolds with interconnected spherical pores and controlled hydrophilicity for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 693-698.	1.7	44
90	Acrylic scaffolds with interconnected spherical pores and controlled hydrophilicity for tissue engineering. <i>Journal of Materials Science</i> , 2005, 40, 4881-4887.	1.7	31

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91	Porous poly(2-hydroxyethyl acrylate) hydrogels prepared by radical polymerisation with methanol as diluent. <i>Polymer</i> , 2004, 45, 8949-8955.	1.8	47
92	Interaction between water and polymer chains in poly(hydroxyethyl acrylate) hydrogels. <i>Colloid and Polymer Science</i> , 2001, 279, 323-330.	1.0	62
93	Porous poly(2-hydroxyethyl acrylate) hydrogels. <i>Polymer</i> , 2001, 42, 4667-4674.	1.8	74
94	Latest Improvements of Acrylic-Based Polymer Properties for Biomedical Applications. , 0, , .		6
95	Enhancement of Hydrogels™ Properties for Biomedical Applications: Latest Achievements. , 0, , .		6
96	Novel pedagogical tool for simultaneous learning of plane geometry and R programming. <i>Research Ideas and Outcomes</i> , 0, 4, e25485.	1.0	4
97	<strong>Direct spectrophotometric method to determine cell density of <em>Isochrysis galbana</em> in serial batch cultures from a larger scale fed-batch culture in exponential phase</strong>. , 0, , .		0
98	<strong>Enhancement of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)&rsquo;s properties for advanced industrial applications</strong>. , 0, , .		0
99	<em>Saccharomyces boulardii</em>: probiotic yeast for craft beer production, growth analysis and biovolume estimation. , 0, , .		0
100	Prácticas de laboratorio interdisciplinarias de alto nivel científico con alumnos de diferentes grados universitarios guiados por WebQuest AICLE. , 0, , .		1
101	<em>Carbon nanofibers: alternative weapons against multidrug-resistant pathogens</em>. , 0, , .		0
102	Advanced hydrogel films of alginate/carbon nanofibers for biomedical applications. , 0, , .		0