

# ngel Serrano-Aroca

## List of Publications by Citations

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96  
papers

1,899  
citations

25  
h-index

40  
g-index

121  
ext. papers

2,794  
ext. citations

5  
avg, IF

6.34  
L-index

#	Paper	IF	Citations
96	A spatio-temporal analysis for exploring the effect of temperature on COVID-19 early evolution in Spain. <i>Science of the Total Environment</i> , <b>2020</b> , 728, 138811	10.2	164
95	Poly(3-Hydroxybutyrate--3-Hydroxyvalerate): Enhancement Strategies for Advanced Applications. <i>Polymers</i> , <b>2018</b> , 10,	4.5	132
94	Changes in air pollution during COVID-19 lockdown in Spain: A multi-city study. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 101, 16-26	6.4	77
93	The structural basis of accelerated host cell entry by SARS-CoV-2. <i>FEBS Journal</i> , <b>2021</b> , 288, 5010-5020	5.7	73
92	Porous poly(2-hydroxyethyl acrylate) hydrogels. <i>Polymer</i> , <b>2001</b> , 42, 4667-4674	3.9	61
91	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> , <b>2020</b> , 44, 591-604	3.5	59
90	Carbon-Based Nanomaterials: Promising Antiviral Agents to Combat COVID-19 in the Microbial-Resistant Era. <i>ACS Nano</i> , <b>2021</b> , 15, 8069-8086	16.7	59
89	Interaction between water and polymer chains in poly(hydroxyethyl acrylate) hydrogels. <i>Colloid and Polymer Science</i> , <b>2001</b> , 279, 323-330	2.4	53
88	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> , <b>2020</b> , 143, 1000-1008	7.9	52
87	Enhancement of water diffusion and compression performance of crosslinked alginate films with a minuscule amount of graphene oxide. <i>Scientific Reports</i> , <b>2017</b> , 7, 11684	4.9	49
86	Porous poly(2-hydroxyethyl acrylate) hydrogels prepared by radical polymerisation with methanol as diluent. <i>Polymer</i> , <b>2004</b> , 45, 8949-8955	3.9	45
85	Bioengineering Approaches for Bladder Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	44
84	Green synthetic routes to alginate-graphene oxide composite hydrogels with enhanced physical properties for bioengineering applications. <i>European Polymer Journal</i> , <b>2018</b> , 103, 198-206	5.2	43
83	Acrylic scaffolds with interconnected spherical pores and controlled hydrophilicity for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 693-8	4.5	39
82	Graphene oxide in zinc alginate films: Antibacterial activity, cytotoxicity, zinc release, water sorption/diffusion, wettability and opacity. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212819	3.7	37
81	Calcium alginate/graphene oxide films: Reinforced composites able to prevent Staphylococcus aureus and methicillin-resistant Staphylococcus epidermidis infections with no cytotoxicity for human keratinocyte HaCaT cells. <i>European Polymer Journal</i> , <b>2019</b> , 110, 14-21	5.2	34
80	Protective Face Mask Filter Capable of Inactivating SARS-CoV-2, and Methicillin-Resistant and. <i>Polymers</i> , <b>2021</b> , 13,	4.5	33

79	Low-Cost Advanced Hydrogels of Calcium Alginate/Carbon Nanofibers with Enhanced Water Diffusion and Compression Properties. <i>Polymers</i> , <b>2018</b> , 10,	4.5	31
78	Carbon Nanofibers in Pure Form and in Calcium Alginate Composites Films: New Cost-Effective Antibacterial Biomaterials against the Life-Threatening Multidrug-Resistant. <i>Polymers</i> , <b>2019</b> , 11,	4.5	30
77	Three-dimensional nanocomposite scaffolds with ordered cylindrical orthogonal pores. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 84, 541-9	3.5	30
76	Characterisation of macroporous poly(methyl methacrylate) coated with plasma-polymerised poly(2-hydroxyethyl acrylate). <i>European Polymer Journal</i> , <b>2007</b> , 43, 4552-4564	5.2	28
75	Plasma-induced polymerisation of hydrophilic coatings onto macroporous hydrophobic scaffolds. <i>Polymer</i> , <b>2007</b> , 48, 2071-2078	3.9	28
74	Antimicrobial Characterization of Advanced Materials for Bioengineering Applications. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	26
73	Physical and biological properties of alginate/carbon nanofibers hydrogel films. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 151, 499-507	7.9	25
72	Dynamic mechanical analysis and water vapour sorption of highly porous poly(methyl methacrylate). <i>Polymer</i> , <b>2017</b> , 125, 58-65	3.9	25
71	Synthesis of irregular graphene oxide tubes using green chemistry and their potential use as reinforcement materials for biomedical applications. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185235	3.7	25
70	Notable sequence homology of the ORF10 protein introspects the architecture of SARS-CoV-2. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 181, 801-809	7.9	25
69	<i>Saccharomyces Cerevisiae</i> Var. <i>Boulardii</i> : Valuable Probiotic Starter for Craft Beer Production. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3250	2.6	24
68	A unique view of SARS-CoV-2 through the lens of ORF8 protein. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 133, 104380	7	23
67	Poly(2-hydroxyethyl acrylate) hydrogels reinforced with graphene oxide: Remarkable improvement of water diffusion and mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46158	2.9	22
66	Effect of crosslinking on porous poly(methyl methacrylate) produced by phase separation. <i>Colloid and Polymer Science</i> , <b>2008</b> , 286, 209-216	2.4	22
65	Acrylic scaffolds with interconnected spherical pores and controlled hydrophilicity for tissue engineering. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 4881-4887	4.3	22
64	Possible Transmission Flow of SARS-CoV-2 Based on ACE2 Features. <i>Molecules</i> , <b>2020</b> , 25,	4.8	21
63	Macroporous poly(methyl methacrylate) produced by phase separation during polymerisation in solution. <i>Colloid and Polymer Science</i> , <b>2007</b> , 285, 753-760	2.4	21
62	Study of 1D and 2D Carbon Nanomaterial in Alginate Films. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	19

61	Bio-Nanocomposite Hydrogel Based on Zinc Alginate/Graphene Oxide: Morphology, Structural Conformation, Thermal Behavior/Degradation, and Dielectric Properties. <i>Polymers</i> , <b>2020</b> , 12,	4.5	19
60	Thermal analysis of water in reinforced plasma-polymerised poly(2-hydroxyethyl acrylate) hydrogels. <i>European Polymer Journal</i> , <b>2015</b> , 72, 523-534	5.2	18
59	Fused deposition modelling: Current status, methodology, applications and future prospects. <i>Additive Manufacturing</i> , <b>2021</b> , 47, 102378	6.1	18
58	Carbon Nanomaterials and LED Irradiation as Antibacterial Strategies against Gram-Positive Multidrug-Resistant Pathogens. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
57	Protective Face Masks: Current Status and Future Trends. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 56725-56751	9.5	16
56	Antiviral Properties of Alginate-Based Biomaterials: Promising Antiviral Agents against SARS-CoV-2. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 5897-5907	4.1	13
55	COVID-19 Vaccines and Thrombosis-Roadblock or Dead-End Street?. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	13
54	Enhancement of Antimicrobial Activity of Alginate Films with a Low Amount of Carbon Nanofibers (0.1% w/w). <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2311	2.6	12
53	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> , <b>2021</b> , 6, 23495-23503	3.9	12
52	Human adipose-derived mesenchymal stem cells accelerate decellularized neobladder regeneration. <i>International Journal of Energy Production and Management</i> , <b>2020</b> , 7, 161-169	5.3	11
51	Novel Semi-Interpenetrated Polymer Networks of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate)/Poly (Vinyl Alcohol) with Incorporated Conductive Polypyrrole Nanoparticles. <i>Polymers</i> , <b>2020</b> , 13,	4.5	9
50	Autoimmunity roots of the thrombotic events after COVID-19 vaccination. <i>Autoimmunity Reviews</i> , <b>2021</b> , 20, 102941	13.6	9
49	Additive manufacturing of anti-SARS-CoV-2 Copper-Tungsten-Silver alloy. <i>Rapid Prototyping Journal</i> , <b>2021</b> , ahead-of-print,	3.8	9
48	Real and virtual bioreactor laboratory sessions by STSEILIL WebQuest. <i>Education for Chemical Engineers</i> , <b>2015</b> , 13, 1-8	2.4	8
47	Multi-Layer Graphene Oxide in Human Keratinocytes: Time-Dependent Cytotoxicity, Proliferation, and Gene Expression. <i>Coatings</i> , <b>2021</b> , 11, 414	2.9	8
46	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> , <b>2020</b> , 21,	6.3	7
45	Predicting COVID-19-Comorbidity Pathway Crosstalk-Based Targets and Drugs: Towards Personalized COVID-19 Management. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	7
44	Recent Advances in Metal-Based Antimicrobial Coatings for High-Touch Surfaces.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	6

43	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> , <b>2021</b> , 22,	6.3	6
42	Aprendizaje de las matemáticas a través del lenguaje de programación R en Educación Secundaria. <i>Medicina Universitaria</i> , <b>2018</b> , 30, 133-162		6
41	Antimicrobial Face Shield: Next Generation of Facial Protective Equipment against SARS-CoV-2 and Multidrug-Resistant Bacteria. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
40	Enhancement of Hydrogels Properties for Biomedical Applications: Latest Achievements <b>2018</b> ,		5
39	Prosthetic meshes for hernia repair: State of art, classification, biomaterials, antimicrobial approaches, and fabrication methods. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> , 109, 2695-2719	5.4	5
38	SARS-CoV-2 research using human pluripotent stem cells and organoids. <i>Stem Cells Translational Medicine</i> , <b>2021</b> , 10, 1491-1499	6.9	5
37	Latest Improvements of Acrylic-Based Polymer Properties for Biomedical Applications <b>2017</b> ,		4
36	Zinc Chloride: Time-Dependent Cytotoxicity, Proliferation and Promotion of Glycoprotein Synthesis and Antioxidant Gene Expression in Human Keratinocytes. <i>Biology</i> , <b>2021</b> , 10,	4.9	4
35	Variability of Accessory Proteins Rules the SARS-CoV-2 Pathogenicity		4
34	Modelling of Biomass Concentration, Multi-Wavelength Absorption and Discrimination Method for Seven Important Marine Microalgae Species. <i>Energies</i> , <b>2018</b> , 11, 1089	3.1	4
33	Overview of key molecular and pharmacological targets for diabetes and associated diseases. <i>Life Sciences</i> , <b>2021</b> , 278, 119632	6.8	4
32	Carbon Nanofibers versus Silver Nanoparticles: Time-Dependent Cytotoxicity, Proliferation, and Gene Expression. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	4
31	The mechanism behind flaring/triggering of autoimmunity disorders associated with COVID-19. <i>Autoimmunity Reviews</i> , <b>2021</b> , 20, 102909	13.6	4
30	Graphene Nanoplatelets: In Vivo and In Vitro Toxicity, Cell Proliferative Activity, and Cell Gene Expression. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 720	2.6	3
29	A city-level analysis of PM pollution, climate and COVID-19 early spread in Spain.. <i>Journal of Environmental Health Science &amp; Engineering</i> , <b>2022</b> , 1-9	2.9	3
28	3D Printed Cobalt-Chromium-Molybdenum Porous Superalloy with Superior Antiviral Activity. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
27	Novel pedagogical tool for simultaneous learning of plane geometry and R programming. <i>Research Ideas and Outcomes</i> , <b>4</b> , e25485	2.5	3
26	The viral capsid as novel nanomaterials for drug delivery. <i>Future Science OA</i> , <b>2021</b> , 7, FSO744	2.7	3

25	Biocompatible Films of Calcium Alginate Inactivate Enveloped Viruses Such as SARS-CoV-2.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	3
24	Electroactive calcium-alginate/polycaprolactone/reduced graphene oxide nanohybrid hydrogels for skeletal muscle tissue engineering.. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2022</b> , 214, 112455	6	3
23	Crocin Inhibits Angiogenesis and Metastasis in Colon Cancer via TNF- $\alpha$ /NF- $\kappa$ B/VEGF Pathways.. <i>Cells</i> , <b>2022</b> , 11,	7.9	3
22	Emergence of unique SARS-CoV-2 ORF10 variants and their impact on protein structure and function. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 194, 128-143	7.9	2
21	The importance of accessory protein variants in the pathogenicity of SARS-CoV-2.. <i>Archives of Biochemistry and Biophysics</i> , <b>2022</b> , 717, 109124	4.1	2
20	Exploiting the Metabolism of the Gut Microbiome as a Vehicle for Targeted Drug Delivery to the Colon.. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	2
19	Acrylic-Based Hydrogels as Advanced Biomaterials <b>2020</b> ,		1
18	A city-level analysis of air pollution, climate and COVID-19 early spread during the Spanish lockdown		1
17	An Issue of Concern: Unique Truncated ORF8 Protein Variants of SARS-CoV-2		1
16	3D printed cobalt-chromium-molybdenum porous superalloy with superior antiviral activity		1
15	Next generation infection prevention clothing: Non-woven Fabrics Coated with Cranberry Extracts Capable of Inactivating Enveloped Viruses such as SARS-CoV-2 and Multidrug-resistant Bacteria		1
14	Periodically aperiodic pattern of SARS-CoV-2 mutations underpins the uncertainty of its origin and evolution. <i>Environmental Research</i> , <b>2021</b> , 204, 112092	7.9	1
13	Potential Molecular Mechanisms of Rare Anti-Tumor Immune Response by SARS-CoV-2 in Isolated Cases of Lymphomas. <i>Viruses</i> , <b>2021</b> , 13,	6.2	1
12	Targeting LIN28: a new hope in prostate cancer theranostics. <i>Future Oncology</i> , <b>2021</b> , 17, 3873-3880	3.6	1
11	Implications derived from S-protein variants of SARS-CoV-2 from six continents. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 191, 934-955	7.9	1
10	Clinical utility of novel biosensing platform: Diagnosis of coronavirus SARS-CoV-2 at point of care. <i>Materials Letters</i> , <b>2021</b> , 304, 130612	3.3	1
9	An issue of concern: unique truncated ORF8 protein variants of SARS-CoV-2.. <i>PeerJ</i> , <b>2022</b> , 10, e13136	3.1	1
8	Associations and DiseaseDisease Interactions of COVID-19 with Congenital and Genetic Disorders: A Comprehensive Review. <i>Viruses</i> , <b>2022</b> , 14, 910	6.2	1

7	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> , <b>2022</b> , 23, 5335	6.3	1
6	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> , <b>2022</b> , 1-8	3.5	0
5	Nanoarchitectures in Management of Fungal Diseases: An Overview. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7119	2.6	0
4	Fourth-generation glucose sensors composed of copper nanostructures for diabetes management: A critical review.. <i>Bioengineering and Translational Medicine</i> , <b>2022</b> , 7, e10248	14.8	0
3	Exosomal mediated signal transduction through artificial microRNA (amiRNA): A potential target for inhibition of SARS-CoV-2.. <i>Cellular Signalling</i> , <b>2022</b> , 110334	4.9	0
2	Would New SARS-CoV-2 Variants Change the War against COVID-19?. <i>Epidemiologia</i> , <b>2022</b> , 3, 229-237	2.8	0
1	Green Composites Films with Antibacterial Properties. <i>Materials Horizons</i> , <b>2021</b> , 485-506	0.6	