

Manuel Vilanova

List of Publications by Year in descending order

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109
papers

4,010
citations

172207

29
h-index

138251

58
g-index

112
all docs

112
docs citations

112
times ranked

6283
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure–function relationships of immunostimulatory polysaccharides: A review. <i>Carbohydrate Polymers</i> , 2015, 132, 378-396.	5.1	716
2	Quantitative analysis of adhesion and biofilm formation on hydrophilic and hydrophobic surfaces of clinical isolates of <i>Staphylococcus epidermidis</i> . <i>Research in Microbiology</i> , 2005, 156, 506-514.	1.0	280
3	Wound healing activity of the human antimicrobial peptide LL37. <i>Peptides</i> , 2011, 32, 1469-1476.	1.2	203
4	Understanding the Lipid and Protein Corona Formation on Different Sized Polymeric Nanoparticles. <i>Scientific Reports</i> , 2020, 10, 1129.	1.6	129
5	<i>Streptococcus agalactiae</i> GAPDH Is a Virulence-Associated Immunomodulatory Protein. <i>Journal of Immunology</i> , 2007, 178, 1379-1387.	0.4	120
6	Bacterial Cellulose: Long-Term Biocompatibility Studies. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 1339-1354.	1.9	113
7	Polymeric nanogels as vaccine delivery systems. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 159-173.	1.7	104
8	Quantification of the CBD-FITC conjugates surface coating on cellulose fibres. <i>BMC Biotechnology</i> , 2008, 8, 1.	1.7	90
9	Metabolic control of T cell immune response through glycans in inflammatory bowel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4651-E4660.	3.3	77
10	Protection against systemic candidiasis in mice immunized with secreted aspartic proteinase 2. <i>Immunology</i> , 2004, 111, 334-342.	2.0	69
11	Limited Role of Secreted Aspartyl Proteinases Sap1 to Sap6 in <i>Candida albicans</i> Virulence and Host Immune Response in Murine Hematogenously Disseminated Candidiasis. <i>Infection and Immunity</i> , 2010, 78, 4839-4849.	1.0	69
12	Immunostimulatory properties of coffee mannans. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 1036-1043.	1.5	67
13	Purification, structure and immunobiological activity of an arabinan-rich pectic polysaccharide from the cell walls of <i>Prunus dulcis</i> seeds. <i>Carbohydrate Research</i> , 2004, 339, 2555-2566.	1.1	58
14	<i>Staphylococcus epidermidis</i> biofilms with higher proportions of dormant bacteria induce a lower activation of murine macrophages. <i>Journal of Medical Microbiology</i> , 2011, 60, 1717-1724.	0.7	55
15	Dysregulation of T cell receptor N-glycosylation: a molecular mechanism involved in ulcerative colitis. <i>Human Molecular Genetics</i> , 2014, 23, 2416-2427.	1.4	55
16	Immunoprotection against systemic candidiasis in mice. <i>International Immunology</i> , 1995, 7, 785-796.	1.8	54
17	Structural analysis and potential immunostimulatory activity of <i>Nannochloropsis oculata</i> polysaccharides. <i>Carbohydrate Polymers</i> , 2019, 222, 114962.	5.1	51
18	SYBR green as a fluorescent probe to evaluate the biofilm physiological state of <i>Staphylococcus epidermidis</i> , using flow cytometry. <i>Canadian Journal of Microbiology</i> , 2011, 57, 850-856.	0.8	49

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19	Use of GRA6-Derived Synthetic Polymorphic Peptides in an Immunoenzymatic Assay To Serotype <i>Toxoplasma gondii</i> in Human Serum Samples Collected from Three Continents. <i>Vaccine Journal</i> , 2008, 15, 1380-1386.	3.2	48
20	Biocompatibility of a self-assembled glycol chitosan nanogel. <i>Toxicology in Vitro</i> , 2015, 29, 638-646.	1.1	47
21	Optimization of an automatic counting system for the quantification of <i>Staphylococcus epidermidis</i> cells in biofilms. <i>Journal of Basic Microbiology</i> , 2014, 54, 750-757.	1.8	46
22	Flow Cytometric Analysis of Molt-Related Changes in Hemocyte Type in Male and Female <i>Penaeus japonicus</i> . <i>Biological Bulletin</i> , 1995, 189, 376-380.	0.7	43
23	Inhibition of IL-10 Production by Maternal Antibodies against Group B <i>Streptococcus</i> GAPDH Confers Immunity to Offspring by Favoring Neutrophil Recruitment. <i>PLoS Pathogens</i> , 2011, 7, e1002363.	2.1	40
24	Cytometric, morphologic and enzymatic characterisation of haemocytes in <i>Anodonta cygnea</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 132, 541-553.	0.8	39
25	Association between LEPR, FTO, MC4R, and PPARG-2 polymorphisms with obesity traits and metabolic phenotypes in school-aged children. <i>Endocrine</i> , 2018, 60, 466-478.	1.1	39
26	O-glycan sialylation alters galectin-3 subcellular localization and decreases chemotherapy sensitivity in gastric cancer. <i>Oncotarget</i> , 2016, 7, 83570-83587.	0.8	38
27	Influence of batch or fed-batch growth on <i>Staphylococcus epidermidis</i> biofilm formation. <i>Letters in Applied Microbiology</i> , 2004, 39, 420-424.	1.0	37
28	Role of Monocytes in the Up-Regulation of the Early Activation Marker CD69 on B and T Murine Lymphocytes Induced by Microbial Mitogens. <i>Scandinavian Journal of Immunology</i> , 1996, 43, 155-163.	1.3	36
29	Farnesol, a Fungal Quorum-Sensing Molecule Triggers <i>Candida Albicans</i> Morphological Changes by Downregulating the Expression of Different Secreted Aspartyl Proteinase Genes. <i>Open Microbiology Journal</i> , 2011, 5, 119-126.	0.2	36
30	Glycans as Immune Checkpoints: Removal of Branched N-glycans Enhances Immune Recognition Preventing Cancer Progression. <i>Cancer Immunology Research</i> , 2020, 8, 1407-1425.	1.6	33
31	Characterization of the B-cell immune response elicited in BALB/c mice challenged with <i>Neospora caninum</i> tachyzoites. <i>Immunology</i> , 2005, 116, 38-52.	2.0	31
32	Study of New Therapeutic Strategies to Combat Breast Cancer Using Drug Combinations. <i>Biomolecules</i> , 2018, 8, 175.	1.8	31
33	Coordinated expression of galectin-3 and galectin-3-binding sites in malignant mammary tumors: implications for tumor metastasis. <i>Glycobiology</i> , 2010, 20, 1341-1352.	1.3	30
34	Reserve, structural and extracellular polysaccharides of <i>Chlorella vulgaris</i> : A holistic approach. <i>Algal Research</i> , 2020, 45, 101757.	2.4	30
35	Biological activity of heterologous murine interleukin-10 and preliminary studies on the use of a dextrin nanogel as a delivery system. <i>International Journal of Pharmaceutics</i> , 2010, 400, 234-242.	2.6	29
36	Characterization of an in vitro fed-batch model to obtain cells released from <i>S. epidermidis</i> biofilms. <i>AMB Express</i> , 2016, 6, 23.	1.4	27

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37	Dormancy within <i>Staphylococcus epidermidis</i> biofilms: a transcriptomic analysis by RNA-seq. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2585-2596.	1.7	25
38	DODAB: monoolein liposomes containing <i>Candida albicans</i> cell wall surface proteins: A novel adjuvant and delivery system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 190-200.	2.0	25
39	Plasmacytoid and conventional dendritic cells are early producers of IL-12 in <i>Neospora caninum</i> -infected mice. <i>Immunology and Cell Biology</i> , 2010, 88, 79-86.	1.0	24
40	Influence of molecular weight on in vitro immunostimulatory properties of instant coffee. <i>Food Chemistry</i> , 2014, 161, 60-66.	4.2	24
41	Dormant bacteria within <i>Staphylococcus epidermidis</i> biofilms have low inflammatory properties and maintain tolerance to vancomycin and penicillin after entering planktonic growth. <i>Journal of Medical Microbiology</i> , 2014, 63, 1274-1283.	0.7	24
42	Protective effect of antigen delivery using monoolein-based liposomes in experimental hematogenously disseminated candidiasis. <i>Acta Biomaterialia</i> , 2016, 39, 133-145.	4.1	24
43	In Vivo Biocompatibility and Biodegradability of Dextrin-based Hydrogels. <i>Journal of Bioactive and Compatible Polymers</i> , 2010, 25, 141-153.	0.8	23
44	Alterations in the <i>Staphylococcus epidermidis</i> biofilm transcriptome following interaction with whole human blood. <i>Pathogens and Disease</i> , 2014, 70, 444-448.	0.8	23
45	Comparative analysis between biofilm formation and gene expression in <i>Staphylococcus epidermidis</i> isolates. <i>Future Microbiology</i> , 2018, 13, 415-427.	1.0	23
46	Self-assembled dextrin nanogel as protein carrier: Controlled release and biological activity of IL-10. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1977-1986.	1.7	22
47	Activation of Human Neutrophils by Phorbol Ester Decreases the Cytoplasm Compactness and the Lactoferrin Content of the Granulocytes. <i>Journal of Leukocyte Biology</i> , 1991, 50, 444-452.	1.5	20
48	Deficits in Endogenous Adenosine Formation by Ecto-5'-Nucleotidase/CD73 Impair Neuromuscular Transmission and Immune Competence in Experimental Autoimmune Myasthenia Gravis. <i>Mediators of Inflammation</i> , 2015, 2015, 1-16.	1.4	20
49	Proteomic profile of dormancy within <i>Staphylococcus epidermidis</i> biofilms using iTRAQ and label-free strategies. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2751-2762.	1.7	20
50	Anthropometric predictors of body fat in a large population of 9-year-old school-aged children. <i>Obesity Science and Practice</i> , 2016, 2, 272-281.	1.0	20
51	Celecoxib promotes degranulation of CD8+ T cells in HPV-induced lesions of K14-HPV16 transgenic mice. <i>Life Sciences</i> , 2016, 157, 67-73.	2.0	20
52	HPV-transgenic mouse models: Tools for studying the cancer-associated immune response. <i>Virus Research</i> , 2017, 235, 49-57.	1.1	20
53	Ptaquiloside-induced, B-cell lymphoproliferative and early-stage urothelial lesions in mice. <i>Toxicology</i> , 2011, 58, 543-549.	0.8	19
54	Monoclonal Antibody Raised against PNAG Has Variable Effects on Static <i>S. epidermidis</i> Biofilm Accumulation In Vitro. <i>International Journal of Biological Sciences</i> , 2013, 9, 518-520.	2.6	19

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55	An immunoproteomic approach for characterization of dormancy within <i>Staphylococcus epidermidis</i> biofilms. <i>Molecular Immunology</i> , 2015, 65, 429-435.	1.0	19
56	Ptaquiloside from bracken (<i>Pteridium</i> spp.) inhibits tumour-infiltrating CD8+ T cells in HPV-16 transgenic mice. <i>Food and Chemical Toxicology</i> , 2016, 97, 277-285.	1.8	19
57	Anthropometric features as predictors of atherogenic dyslipidemia and cardiovascular risk in a large population of school-aged children. <i>PLoS ONE</i> , 2018, 13, e0197922.	1.1	19
58	Inhalation of Bacterial Cellulose Nanofibrils Triggers an Inflammatory Response and Changes Lung Tissue Morphology of Mice. <i>Toxicological Research</i> , 2019, 35, 45-63.	1.1	19
59	Role of B and T lymphocytes in the specific immunosuppression induced by a protein released by a protein monocytes infected with African swine fever virus. <i>International Immunology</i> , 1991, 3, 165-174.	1.8	18
60	Purification, and biochemical and biological characterization of an immunosuppressive and lymphocyte mitogenic protein secreted by <i>Streptococcus sobrinus</i> . <i>International Immunology</i> , 1997, 9, 1735-1743.	1.8	18
61	Analysis of the immune response to <i>Neospora caninum</i> in a model of intragastric infection in mice. <i>Parasite Immunology</i> , 2007, 29, 23-36.	0.7	18
62	Predominant role of interferon- γ in the host protective effect of CD8+ T cells against <i>Neospora caninum</i> infection. <i>Scientific Reports</i> , 2015, 5, 14913.	1.6	18
63	Tetracycline and rifampicin induced a viable but nonculturable state in <i>Staphylococcus epidermidis</i> biofilms. <i>Future Microbiology</i> , 2018, 13, 27-36.	1.0	18
64	The Emerging Role of Iron Acquisition in Biofilm-Associated Infections. <i>Trends in Microbiology</i> , 2021, 29, 772-775.	3.5	18
65	Mucosal and systemic T cell response in mice intragastrically infected with <i>Neospora caninum</i> tachyzoites. <i>Veterinary Research</i> , 2013, 44, 69.	1.1	17
66	Immune response in the adipose tissue of lean mice infected with the protozoan parasite <i>Neospora caninum</i> . <i>Immunology</i> , 2015, 145, 242-257.	2.0	17
67	<i>Staphylococcus epidermidis</i> Biofilm-Released Cells Induce a Prompt and More Marked In vivo Inflammatory-Type Response than Planktonic or Biofilm Cells. <i>Frontiers in Microbiology</i> , 2016, 7, 1530.	1.5	16
68	<i>Neospora caninum</i> : High susceptibility to the parasite in C57BL/10ScCr mice. <i>Experimental Parasitology</i> , 2007, 115, 68-75.	0.5	15
69	Protective effect of intranasal immunization with <i>Neospora caninum</i> membrane antigens against murine neosporosis established through the gastrointestinal tract. <i>Immunology</i> , 2014, 141, 256-267.	2.0	15
70	Proteome signatures—how are they obtained and what do they teach us?. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7417-7431.	1.7	15
71	A live auxotrophic vaccine confers mucosal immunity and protection against lethal pneumonia caused by <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008311.	2.1	15
72	Enrichment of IFN- γ producing cells in different murine adipose tissue depots upon infection with an apicomplexan parasite. <i>Scientific Reports</i> , 2016, 6, 23475.	1.6	15

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73	siRNA Inhibition of Endocytic Pathways to Characterize the Cellular Uptake Mechanisms of Folate-Functionalized Glycol Chitosan Nanogels. <i>Molecular Pharmaceutics</i> , 2015, 12, 1970-1979.	2.3	14
74	Comparative proteomic and transcriptomic profile of <i>Staphylococcus epidermidis</i> biofilms grown in glucose-enriched medium. <i>Talanta</i> , 2015, 132, 705-712.	2.9	14
75	Structural polymeric features that contribute to in vitro immunostimulatory activity of instant coffee. <i>Food Chemistry</i> , 2018, 242, 548-554.	4.2	14
76	Impact of growth medium salinity on galactoxylan exopolysaccharides of <i>Porphyridium purpureum</i> . <i>Algal Research</i> , 2021, 59, 102439.	2.4	12
77	I. Immunostimulatory Effect of Thalidomide in Normal C57BL/6 Mice is Compatible with Stimulation of a Highly Connected Central Immune System. <i>Scandinavian Journal of Immunology</i> , 1994, 40, 535-542.	1.3	11
78	Nanoparticle effect on neutrophil produced myeloperoxidase. <i>PLoS ONE</i> , 2018, 13, e0191445.	1.1	11
79	Isolation and identification of an arabinogalactan extracted from pistachio external hull: Assessment of immunostimulatory activity. <i>Food Chemistry</i> , 2022, 373, 131416.	4.2	11
80	Mucosal immunization confers long-term protection against intragastrically established <i>Neospora caninum</i> infection. <i>Vaccine</i> , 2016, 34, 6250-6258.	1.7	10
81	Assessing in vivo digestibility and effects on immune system of sheep fed alfalfa hay supplemented with a fixed amount of <i>Ulva rigida</i> and <i>Gracilaria vermiculophylla</i> . <i>Journal of Applied Phycology</i> , 2017, 29, 1057-1067.	1.5	10
82	Inflammatory Cell Recruitment in <i>Candida glabrata</i> Biofilm Cell-Infected Mice Receiving Antifungal Chemotherapy. <i>Journal of Clinical Medicine</i> , 2019, 8, 142.	1.0	10
83	Dectin-1-Mediated Production of Pro-Inflammatory Cytokines Induced by Yeast β -Glucans in Bovine Monocytes. <i>Frontiers in Immunology</i> , 2021, 12, 689879.	2.2	10
84	II. The Effects of Thalidomide Treatment on Autoimmune-Prone NZB and MRL Mice are Consistent with Stimulation of the Central Immune System. <i>Scandinavian Journal of Immunology</i> , 1994, 40, 543-548.	1.3	9
85	Exo- and endo-glucanolytic activity of cellulases purified from <i>Trichoderma reesei</i> . <i>Biotechnology Letters</i> , 1998, 12, 677-681.	0.5	9
86	Modulation of poly-N-acetylglucosamine accumulation within mature <i>Staphylococcus epidermidis</i> biofilms grown in excess glucose. <i>Microbiology and Immunology</i> , 2011, 55, 673-682.	0.7	9
87	Poly-N-Acetylglucosamine Production by <i>Staphylococcus epidermidis</i> Cells Increases Their In Vivo Proinflammatory Effect. <i>Infection and Immunity</i> , 2016, 84, 2933-2943.	1.0	9
88	Fighting <i>Staphylococcus epidermidis</i> Biofilm-Associated Infections: Can Iron Be the Key to Success?. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 798563.	1.8	9
89	The biological effects induced in mice by p36, a proteinaceous factor of virulence produced by African swine fever virus, are mediated by interleukin-4 and also to a lesser extent by interleukin-10. <i>Immunology</i> , 1999, 96, 389-395.	2.0	8
90	Characterization of Myeloid Cellular Populations in Mesenteric and Subcutaneous Adipose Tissue of Holstein-Friesian Cows. <i>Scientific Reports</i> , 2020, 10, 1771.	1.6	8

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91	Transcriptomic Analysis of <i>Staphylococcus epidermidis</i> Biofilm-Released Cells upon Interaction with Human Blood Circulating Immune Cells and Soluble Factors. <i>Frontiers in Microbiology</i> , 2016, 7, 1143.	1.5	7
92	Effect of Zinc Source and Exogenous Enzymes Supplementation on Zinc Status in Dogs Fed High Phytate Diets. <i>Animals</i> , 2020, 10, 400.	1.0	7
93	Vaccines in Congenital Toxoplasmosis: Advances and Perspectives. <i>Frontiers in Immunology</i> , 2020, 11, 621997.	2.2	7
94	Involvement of the Iron-Regulated Loci <i>ihfA</i> and <i>fhuC</i> in Biofilm Formation and Survival of <i>Staphylococcus epidermidis</i> within the Host. <i>Microbiology Spectrum</i> , 2022, 10, e0216821.	1.2	7
95	Host defense mechanisms in invasive candidiasis originating in the GI tract. <i>Expert Review of Anti-Infective Therapy</i> , 2008, 6, 441-445.	2.0	6
96	Identification of distinct haemocyte populations from the freshwater bivalves swan mussel (<i>Anodonta cygnea</i>) and duck mussel (<i>Anodonta anatina</i>) using wheat-germ agglutinin. <i>Canadian Journal of Zoology</i> , 2017, 95, 937-947.	0.4	6
97	T cells in mesenteric and subcutaneous adipose tissue of Holstein-Friesian cows. <i>Scientific Reports</i> , 2019, 9, 3413.	1.6	6
98	Self-Assembled Mannan Nanogel: Cytocompatibility and Cell Localization. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 473-481.	0.5	5
99	Salt pan brine water as a sustainable source of sulphated polysaccharides with immunostimulatory activity. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 235-242.	3.6	5
100	Siderophore-Mediated Iron Acquisition Plays a Critical Role in Biofilm Formation and Survival of <i>Staphylococcus epidermidis</i> Within the Host. <i>Frontiers in Medicine</i> , 2021, 8, 799227.	1.2	5
101	Unraveling the Uptake Mechanisms of Mannan Nanogel in Bone-Marrow-Derived Macrophages. <i>Macromolecular Bioscience</i> , 2012, 12, 1172-1180.	2.1	4
102	Potential of mannan or dextrin nanogels as vaccine carrier/adjuvant systems. <i>Journal of Bioactive and Compatible Polymers</i> , 2016, 31, 453-466.	0.8	4
103	Interferon- β -dependent protection against <i>Neospora caninum</i> infection conferred by mucosal immunization in IL-12/IL-23 p40-deficient mice. <i>Vaccine</i> , 2018, 36, 4890-4896.	1.7	4
104	Immunoreactive pattern of <i>Staphylococcus epidermidis</i> biofilm against human whole saliva. <i>Electrophoresis</i> , 2015, 36, 1228-1233.	1.3	3
105	Modulation of Leptin and Leptin Receptor Expression in Mice Acutely Infected with <i>Neospora caninum</i> . <i>Pathogens</i> , 2020, 9, 587.	1.2	1
106	Protective Effect against Neosporosis Induced by Intranasal Immunization with <i>Neospora caninum</i> Membrane Antigens Plus Carbomer-Based Adjuvant. <i>Vaccines</i> , 2022, 10, 925.	2.1	1
107	New trends in immunotherapy. <i>Inmunologia (Barcelona, Spain: 1987)</i> , 2011, 30, 128-134.	0.1	0
108	Abstract 4047: NF- κ B inhibitor DMAPT enhances cisplatin efficacy and reduces its toxicity in a carcinogen-induced model of muscle-invasive bladder cancer. , 2017, , .		0

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109	mazEF Homologue Has a Minor Role in Staphylococcus epidermidis 1457 Virulence Potential. Frontiers in Cellular and Infection Microbiology, 2021, 11, 803134.	1.8	0