

Albert Bosch

List of Publications by Year in descending order

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122
papers

5,997
citations

76196

40
h-index

82410

72
g-index

130
all docs

130
docs citations

130
times ranked

4948
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. <i>Science of the Total Environment</i> , 2022, 805, 149877.	3.9	153
2	Dynamics of SARS-CoV-2 Alpha (B.1.1.7) variant spread: The wastewater surveillance approach. <i>Environmental Research</i> , 2022, 208, 112720.	3.7	16
3	Epidemiological and Genetic Characterization of Norovirus Outbreaks That Occurred in Catalonia, Spain, 2017–2019. <i>Viruses</i> , 2022, 14, 488.	1.5	7
4	Pathogenicity and virulence of hepatitis A virus. <i>Virulence</i> , 2021, 12, 1174-1185.	1.8	19
5	Tracing surface and airborne SARS-CoV-2 RNA inside public buses and subway trains. <i>Environment International</i> , 2021, 147, 106326.	4.8	119
6	Advances for the Hepatitis A Virus Antigen Production Using a Virus Strain With Codon Frequency Optimization Adjustments in Specific Locations. <i>Frontiers in Microbiology</i> , 2021, 12, 642267.	1.5	1
7	Time Evolution of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Wastewater during the First Pandemic Wave of COVID-19 in the Metropolitan Area of Barcelona, Spain. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	92
8	The Codon Usage Code for Cotranslational Folding of Viral Capsids. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	6
9	Monitoring Emergence of the SARS-CoV-2 B.1.1.7 Variant through the Spanish National SARS-CoV-2 Wastewater Surveillance System (VATar COVID-19). <i>Environmental Science & Technology</i> , 2021, 55, 11756-11766.	4.6	39
10	Elimination of SARS-CoV-2 along wastewater and sludge treatment processes. <i>Water Research</i> , 2021, 202, 117435.	5.3	50
11	Detection of Norovirus in Saliva Samples from Acute Gastroenteritis Cases and Asymptomatic Subjects: Association with Age and Higher Shedding in Stool. <i>Viruses</i> , 2020, 12, 1369.	1.5	16
12	A Spanish case-control study in 5 year-old children reveals the lack of association between MLB and VA astrovirus and diarrhea. <i>Scientific Reports</i> , 2020, 10, 1760.	1.6	18
13	Inactivation of Hepatitis A Virus and Human Norovirus in Clams Subjected to Heat Treatment. <i>Frontiers in Microbiology</i> , 2020, 11, 578328.	1.5	8
14	Potential Role of Oral Rinses Targeting the Viral Lipid Envelope in SARS-CoV-2 Infection. <i>Function</i> , 2020, 1, zqaa002.	1.1	118
15	Novel Human Astroviruses: Prevalence and Association with Common Enteric Viruses in Undiagnosed Gastroenteritis Cases in Spain. <i>Viruses</i> , 2019, 11, 585.	1.5	28
16	The Critical Role of Codon Composition on the Translation Efficiency Robustness of the Hepatitis A Virus Capsid. <i>Genome Biology and Evolution</i> , 2019, 11, 2439-2456.	1.1	12
17	Immunization recommendations against hepatitis A in Spain: Effectiveness of immunization in MSM and selection of antigenic variants – Authors' Reply. <i>EBioMedicine</i> , 2019, 45, 21.	2.7	1
18	Human Astrovirus MLB Replication In Vitro : Persistence in Extraintestinal Cell Lines. <i>Journal of Virology</i> , 2019, 93, .	1.5	14

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19	Class Wool Concentration Optimization for the Detection of Enveloped and Non-enveloped Waterborne Viruses. Food and Environmental Virology, 2019, 11, 184-192.	1.5	63
20	Final Consumer Options to Control and Prevent Foodborne Norovirus Infections. Viruses, 2019, 11, 333.	1.5	26
21	Extended direct lysis method for virus detection on berries including droplet digital RT-PCR or real time RT-PCR with reduced influence from inhibitors. Journal of Virological Methods, 2019, 271, 113638.	1.0	22
22	Effectiveness of Consumers Washing with Sanitizers to Reduce Human Norovirus on Mixed Salad. Foods, 2019, 8, 637.	1.9	16
23	Infectivity of Norovirus GI and GII from Bottled Mineral Water during a Waterborne Outbreak, Spain. Emerging Infectious Diseases, 2019, 26, 134-137.	2.0	8
24	Evidence for positive selection of hepatitis A virus antigenic variants in vaccinated men-having-sex-with men patients: Implications for immunization policies. EBioMedicine, 2019, 39, 348-357.	2.7	22
25	Hepatitis A Virus Codon Usage: Implications for Translation Kinetics and Capsid Folding. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a031781.	2.9	27
26	Foodborne viruses: Detection, risk assessment, and control options in food processing. International Journal of Food Microbiology, 2018, 285, 110-128.	2.1	173
27	Characterization of intra- and inter-host norovirus P2 genetic variability in linked individuals by amplicon sequencing. PLoS ONE, 2018, 13, e0201850.	1.1	10
28	Deep sequencing in the management of hepatitis virus infections. Virus Research, 2017, 239, 115-125.	1.1	23
29	Epidemiology of Classic and Novel Human Astrovirus: Gastroenteritis and Beyond. Viruses, 2017, 9, 33.	1.5	138
30	Norovirus in Bottled Water Associated with Gastroenteritis Outbreak, Spain, 2016. Emerging Infectious Diseases, 2017, 23, 1531-1534.	2.0	46
31	Foodborne viruses. Current Opinion in Food Science, 2016, 8, 110-119.	4.1	59
32	Norovirus shedding among food and healthcare workers exposed to the virus in outbreak settings. Journal of Clinical Virology, 2016, 82, 119-125.	1.6	35
33	Survival of Enteric Viruses in the Environment and Food. , 2016, , 367-392.		27
34	Improving virus production through quasispecies genomic selection and molecular breeding. Scientific Reports, 2016, 6, 35962.	1.6	12
35	Propidium monoazide RTqPCR assays for the assessment of hepatitis A inactivation and for a better estimation of the health risk of contaminated waters. Water Research, 2016, 101, 226-232.	5.3	52
36	Type I Interferon Response Is Delayed in Human Astrovirus Infections. PLoS ONE, 2015, 10, e0123087.	1.1	29

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37	Hepatitis A Virus Genotype Distribution during a Decade of Universal Vaccination of Preadolescents. <i>International Journal of Molecular Sciences</i> , 2015, 16, 6842-6854.	1.8	20
38	ISFEV 2014: Environmental, Food and Health Impacts of Enteric Viruses. <i>Food and Environmental Virology</i> , 2015, 7, 87-87.	1.5	0
39	Molecular and clinical epidemiology of norovirus outbreaks in Spain during the emergence of GII.4 2012 variant. <i>Journal of Clinical Virology</i> , 2014, 60, 96-104.	1.6	18
40	Hepatitis A Virus Adaptation to Cellular Shutoff Is Driven by Dynamic Adjustments of Codon Usage and Results in the Selection of Populations with Altered Capsids. <i>Journal of Virology</i> , 2014, 88, 5029-5041.	1.5	52
41	Standardized multiplex one-step qRT-PCR for hepatitis A virus, norovirus GI and GII quantification in bivalve mollusks and water. <i>Food Microbiology</i> , 2014, 40, 55-63.	2.1	31
42	Human Astroviruses. <i>Clinical Microbiology Reviews</i> , 2014, 27, 1048-1074.	5.7	296
43	Molecular Basis of the Behavior of Hepatitis A Virus Exposed to High Hydrostatic Pressure. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6499-6505.	1.4	8
44	Method validation for norovirus detection in naturally contaminated irrigation water and fresh produce. <i>International Journal of Food Microbiology</i> , 2013, 167, 74-79.	2.1	61
45	A Single Mutation in the Glycophorin A Binding Site of Hepatitis A Virus Enhances Virus Clearance from the Blood and Results in a Lower Fitness Variant. <i>Journal of Virology</i> , 2012, 86, 7887-7895.	1.5	12
46	Hepatitis A virus evolution and the potential emergence of new variants escaping the presently available vaccines. <i>Future Microbiology</i> , 2012, 7, 331-346.	1.0	35
47	Identification of Human Astrovirus Genome-Linked Protein (VPg) Essential for Virus Infectivity. <i>Journal of Virology</i> , 2012, 86, 10070-10078.	1.5	51
48	Hepatitis a among men who have sex with men in Barcelona, 1989-2010: insufficient control and need for new approaches. <i>BMC Infectious Diseases</i> , 2012, 12, 11.	1.3	32
49	Virus hazards from food, water and other contaminated environments. <i>FEMS Microbiology Reviews</i> , 2012, 36, 786-814.	3.9	250
50	Human norovirus occurrence and diversity in the Llobregat river catchment, Spain. <i>Environmental Microbiology</i> , 2012, 14, 494-502.	1.8	81
51	Epidemiology of Human Astroviruses. , 2012, , 1-18.		7
52	Molecular epidemiology of hepatitis A virus infections in Catalonia, Spain, 2005-2009: Circulation of newly emerging strains. <i>Journal of Clinical Virology</i> , 2011, 52, 98-102.	1.6	51
53	A detailed comparative analysis on the overall codon usage patterns in Hepatitis A virus. <i>Virus Research</i> , 2011, 157, 19-24.	1.1	34
54	Development and validation of a microarray for the confirmation and typing of norovirus RT-PCR products. <i>Journal of Virological Methods</i> , 2011, 173, 233-250.	1.0	16

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55	Analytical Methods for Virus Detection in Water and Food. <i>Food Analytical Methods</i> , 2011, 4, 4-12.	1.3	105
56	The C-Terminal nsP1a Protein of Human Astrovirus Is a Phosphoprotein That Interacts with the Viral Polymerase. <i>Journal of Virology</i> , 2011, 85, 4470-4479.	1.5	20
57	Quantification and Genotyping of Human Sapoviruses in the Llobregat River Catchment, Spain. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1111-1114.	1.4	59
58	Hepatitis A Virus Vaccine Escape Variants and Potential New Serotype Emergence. <i>Emerging Infectious Diseases</i> , 2011, 17, 734-737.	2.0	47
59	Hepatitis A Virus: State of the Art. <i>Food and Environmental Virology</i> , 2010, 2, 127-135.	1.5	24
60	Viruses in Shellfish. <i>Food and Environmental Virology</i> , 2010, 2, 115-116.	1.5	8
61	Fine-Tuning Translation Kinetics Selection as the Driving Force of Codon Usage Bias in the Hepatitis A Virus Capsid. <i>PLoS Pathogens</i> , 2010, 6, e1000797.	2.1	121
62	Detection of Oxidative Damages on Viral Capsid Protein for Evaluating Structural Integrity and Infectivity of Human Norovirus. <i>Environmental Science & Technology</i> , 2010, 44, 808-812.	4.6	71
63	Occurrence and diversity of <i>Arcobacter</i> spp. along the Llobregat River catchment, at sewage effluents and in a drinking water treatment plant. <i>Water Research</i> , 2010, 44, 3696-3702.	5.3	79
64	Detection and Quantification of Noroviruses in Shellfish. <i>Applied and Environmental Microbiology</i> , 2009, 75, 618-624.	1.4	183
65	Risk Assessment in Shellfish-Borne Outbreaks of Hepatitis A. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7350-7355.	1.4	218
66	Photodynamic inactivation of viruses by immobilized chlorin-containing liposomes. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 578-588.	0.4	9
67	Genetic analysis of the hypervariable region of the human astrovirus nsp1a coding region: Design of a new RFLP typing method. <i>Journal of Medical Virology</i> , 2008, 80, 306-315.	2.5	13
68	New tools for the study and direct surveillance of viral pathogens in water. <i>Current Opinion in Biotechnology</i> , 2008, 19, 295-301.	3.3	185
69	Hepatitis A Virus Mutant Spectra under the Selective Pressure of Monoclonal Antibodies: Codon Usage Constraints Limit Capsid Variability. <i>Journal of Virology</i> , 2008, 82, 1688-1700.	1.5	62
70	Removal of Astrovirus from Water and Sewage Treatment Plants, Evaluated by a Competitive Reverse Transcription-PCR. <i>Applied and Environmental Microbiology</i> , 2007, 73, 164-167.	1.4	54
71	Codon usage and replicative strategies of hepatitis A virus. <i>Virus Research</i> , 2007, 127, 158-163.	1.1	61
72	Detection and characterization of human group C rotavirus in the pediatric population of Barcelona, Spain. <i>Journal of Clinical Virology</i> , 2007, 38, 78-82.	1.6	21

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73	Disinfection of human enteric viruses on fomites. FEMS Microbiology Letters, 2006, 156, 107-111.	0.7	20
74	Development, Evaluation, and Standardization of a Real-Time TaqMan Reverse Transcription-PCR Assay for Quantification of Hepatitis A Virus in Clinical and Shellfish Samples. Applied and Environmental Microbiology, 2006, 72, 3846-3855.	1.4	396
75	Human astrovirus C-terminal nsP1a protein is involved in RNA replication. Virology, 2005, 333, 124-131.	1.1	34
76	Implementation of Good Laboratory Practice in a university research unit. Quality Assurance Journal, 2005, 9, 304-311.	0.1	6
77	C-Terminal nsP1a Protein of Human Astrovirus Colocalizes with the Endoplasmic Reticulum and Viral RNA. Journal of Virology, 2004, 78, 13627-13636.	1.5	42
78	Structural Requirements of Astrovirus Virus-Like Particles Assembled in Insect Cells. Journal of Virology, 2004, 78, 13285-13292.	1.5	30
79	Rotavirus Virus-Like Particles as Surrogates in Environmental Persistence and Inactivation Studies. Applied and Environmental Microbiology, 2004, 70, 3904-3909.	1.4	37
80	Capsid Region Involved in Hepatitis A Virus Binding to Glycophorin A of the Erythrocyte Membrane. Journal of Virology, 2004, 78, 9807-9813.	1.5	39
81	Hepatitis in Albanian children: Molecular analysis of hepatitis A virus isolates. Journal of Medical Virology, 2004, 72, 533-537.	2.5	30
82	A novel CD4+ T-helper lymphocyte epitope in the VP3 protein of hepatitis A virus. Journal of Medical Virology, 2004, 72, 525-532.	2.5	10
83	Rotavirus VLP2/6: a new tool for tracking rotavirus in the marine environment. Research in Microbiology, 2004, 155, 575-578.	1.0	12
84	Detection of Infectious Rotaviruses by Flow Cytometry. , 2004, 268, 061-068.		10
85	Persistent gastroenteritis in children infected with astrovirus: Association with serotype-3 strains. Journal of Medical Virology, 2003, 71, 245-250.	2.5	56
86	Group A Rotavirus in Sewage Samples from Barcelona and Cairo: Emergence of Unusual Genotypes. Applied and Environmental Microbiology, 2003, 69, 3919-3923.	1.4	95
87	Genome Variability and Capsid Structural Constraints of Hepatitis A Virus. Journal of Virology, 2003, 77, 452-459.	1.5	135
88	Antigenic Hepatitis A Virus Structures May Be Produced in Escherichia coli. Applied and Environmental Microbiology, 2003, 69, 1840-1843.	1.4	2
89	Molecular Epidemiology of Astrovirus Infection in Barcelona, Spain. Journal of Clinical Microbiology, 2002, 40, 133-139.	1.8	183
90	Molecular Characterization of Hepatitis A Virus Isolates from a Transcontinental Shellfish-Borne Outbreak. Journal of Clinical Microbiology, 2002, 40, 4148-4155.	1.8	156

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91	Hepatitis A virus polyprotein processing by Escherichia coli proteases. Journal of General Virology, 2002, 83, 359-368.	1.3	8
92	Potential Role of Fomites in the Vehicular Transmission of Human Astroviruses. Applied and Environmental Microbiology, 2001, 67, 3904-3907.	1.4	103
93	A new continuous epitope of hepatitis A virus. , 1998, 54, 95-102.		42
94	Enhancement of the immunogenicity of a synthetic peptide bearing a VP3 epitope of hepatitis A virus. FEBS Letters, 1998, 438, 106-110.	1.3	21
95	Flow Cytometry Detection of Infectious Rotaviruses in Environmental and Clinical Samples. Applied and Environmental Microbiology, 1998, 64, 2392-2396.	1.4	33
96	Viruses in Mussels: Public Health Implications and Depuration. Journal of Food Protection, 1997, 60, 677-681.	0.8	63
97	Anti-Hepatitis A Virus Antibody Response Elicited in Mice by Different Forms of a Synthetic VP1 Peptide. Microbiology and Immunology, 1995, 39, 485-490.	0.7	20
98	Detection of Fastidious Infectious Enteric Viruses in Water. Environmental Science & Technology, 1995, 29, 2636-2638.	4.6	22
99	Use of the colonic carcinoma cell line CaCo-2 for in vivo amplification and detection of enteric viruses. Journal of Medical Virology, 1994, 44, 310-315.	2.5	125
100	Structures associated with the expression of rabies virus structural genes in insect cells. Virus Research, 1994, 31, 139-145.	1.1	6
101	Interferon-like activity in sea bass affected by viral erythrocytic infection. Fish and Shellfish Immunology, 1993, 3, 89-96.	1.6	5
102	Disinfection of Human Enteric Viruses in Water by Copper: Silver and Reduced Levels of Chlorine. Water Science and Technology, 1993, 27, 351-355.	1.2	13
103	Experimental Transmission and Pathogenicity of a Viral Erythrocytic Infection in Sea Bass Dicentrarchus labrax. Journal of Aquatic Animal Health, 1992, 4, 292-302.	0.6	7
104	Adsorption-elution with negatively and positively-charged glass powder for the concentration of hepatitis A virus from water. Journal of Virological Methods, 1991, 31, 345-351.	1.0	34
105	Isolation of marine bacteria with antiviral properties. Canadian Journal of Microbiology, 1989, 35, 1015-1021.	0.8	39
106	Detection of human rotavirus in sewage through two concentration procedures. Water Research, 1988, 22, 343-348.	5.3	50
107	Survey of viral pollution in Duero River (Spain): Occurrence of natural virucidal phenomena. Environment International, 1988, 14, 37-41.	4.8	3
108	Occurrence of enteroviruses in marine sediment along the coast of Barcelona, Spain. Canadian Journal of Microbiology, 1988, 34, 921-924.	0.8	22

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109	Enhancement of the Humoral Immune Response and Resistance to Bacterial Infection in Mice by the Oral Administration of a Bacterial Immunomodulator (OM-89). Immunopharmacology and Immunotoxicology, 1988, 10, 333-343.	1.1	31
110	Bacterial Immunostimulant (Broncho-Vaxom) Versus Levamisole on the Humoral Immune Response in Mice. Immunopharmacology and Immunotoxicology, 1983, 5, 107-116.	0.8	11
111	Historic Overview of Food Virology. , 0, , 1-28.		3
112	Risk Assessment of Viruses in Food: Opportunities and Challenges. , 0, , 221-236.		5
113	Food-Borne Viruses-State of the Art. , 0, , 29-64.		5
114	Enterically Transmitted Hepatitis. , 0, , 65-85.		4
115	The Challenge of Estimating the Burden of an Underreported Disease. , 0, , 87-115.		3
116	Emerging Food-Borne Viral Diseases. , 0, , 117-145.		4
117	Rethinking Virus Detection in Food. , 0, , 171-188.		15
118	Binding and Inactivation of Viruses on and in Food, with a Focus on the Role of the Matrix. , 0, , 189-208.		10
119	Use of the Codex Risk Analysis Framework To Reduce Risks Associated with Viruses in Food. , 0, , 209-220.		1
120	Viral Evolution and Its Relevance for Food-Borne Virus Epidemiology. , 0, , 147-169.		3
121	Coding Biases and Viral Fitness. , 0, , 271-283.		2
122	Hepatitis A and E Viruses. , 0, , 247-258.		0