

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	Development, Evaluation, and Standardization of a Real-Time TaqMan Reverse Transcription-PCR Assay for Quantification of Hepatitis A Virus in Clinical and Shellfish Samples. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3846-3855.	1.4	396
2	Human Astroviruses. <i>Clinical Microbiology Reviews</i> , 2014, 27, 1048-1074.	5.7	296
3	Virus hazards from food, water and other contaminated environments. <i>FEMS Microbiology Reviews</i> , 2012, 36, 786-814.	3.9	250
4	Risk Assessment in Shellfish-Borne Outbreaks of Hepatitis A. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7350-7355.	1.4	218
5	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
6	Molecular Epidemiology of Astrovirus Infection in Barcelona, Spain. <i>Journal of Clinical Microbiology</i> , 2002, 40, 133-139.	1.8	183
7	Detection and Quantification of Noroviruses in Shellfish. <i>Applied and Environmental Microbiology</i> , 2009, 75, 618-624.	1.4	183
8	Foodborne viruses: Detection, risk assessment, and control options in food processing. <i>International Journal of Food Microbiology</i> , 2018, 285, 110-128.	2.1	173
9	Molecular Characterization of Hepatitis A Virus Isolates from a Transcontinental Shellfish-Borne Outbreak. <i>Journal of Clinical Microbiology</i> , 2002, 40, 4148-4155.	1.8	156
10	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
11	Epidemiology of Classic and Novel Human Astrovirus: Gastroenteritis and Beyond. <i>Viruses</i> , 2017, 9, 33.	1.5	138
12	Genome Variability and Capsid Structural Constraints of Hepatitis A Virus. <i>Journal of Virology</i> , 2003, 77, 452-459.	1.5	135
13	Use of the colonic carcinoma cell line CaCo-2 for in vivo amplification and detection of enteric viruses. <i>Journal of Medical Virology</i> , 1994, 44, 310-315.	2.5	125
14	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
15	Tracing surface and airborne SARS-CoV-2 RNA inside public buses and subway trains. <i>Environment International</i> , 2021, 147, 106326.	4.8	119
16	Potential Role of Oral Rinses Targeting the Viral Lipid Envelope in SARS-CoV-2 Infection. <i>Function</i> , 2020, 1, zqaa002.	1.1	118
17	Analytical Methods for Virus Detection in Water and Food. <i>Food Analytical Methods</i> , 2011, 4, 4-12.	1.3	105
18	Potential Role of Fomites in the Vehicular Transmission of Human Astroviruses. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3904-3907.	1.4	103

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19	Group A Rotavirus in Sewage Samples from Barcelona and Cairo: Emergence of Unusual Genotypes. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3919-3923.	1.4	95
20	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
21	Human norovirus occurrence and diversity in the Llobregat river catchment, Spain. <i>Environmental Microbiology</i> , 2012, 14, 494-502.	1.8	81
22	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
23	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
24	Viruses in Mussels: Public Health Implications and Depuration. <i>Journal of Food Protection</i> , 1997, 60, 677-681.	0.8	63
25	Glass Wool Concentration Optimization for the Detection of Enveloped and Non-enveloped Waterborne Viruses. <i>Food and Environmental Virology</i> , 2019, 11, 184-192.	1.5	63
26	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
27	Codon usage and replicative strategies of hepatitis A virus. <i>Virus Research</i> , 2007, 127, 158-163.	1.1	61
28	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
29	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
30	Foodborne viruses. <i>Current Opinion in Food Science</i> , 2016, 8, 110-119.	4.1	59
31	Persistent gastroenteritis in children infected with astrovirus: Association with serotype-3 strains. <i>Journal of Medical Virology</i> , 2003, 71, 245-250.	2.5	56
32	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
33	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
34	Propidium monoazide RTqPCR assays for the assessment of hepatitis A inactivation and for a better estimation of the health risk of contaminated waters. <i>Water Research</i> , 2016, 101, 226-232.	5.3	52
35	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
36	Identification of Human Astrovirus Genome-Linked Protein (VPg) Essential for Virus Infectivity. <i>Journal of Virology</i> , 2012, 86, 10070-10078.	1.5	51

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37	Detection of human rotavirus in sewage through two concentration procedures. <i>Water Research</i> , 1988, 22, 343-348.	5.3	50
38	Elimination of SARS-CoV-2 along wastewater and sludge treatment processes. <i>Water Research</i> , 2021, 202, 117435.	5.3	50
39	Hepatitis A Virus Vaccine Escape Variants and Potential New Serotype Emergence. <i>Emerging Infectious Diseases</i> , 2011, 17, 734-737.	2.0	47
40	Norovirus in Bottled Water Associated with Gastroenteritis Outbreak, Spain, 2016. <i>Emerging Infectious Diseases</i> , 2017, 23, 1531-1534.	2.0	46
41	A new continuous epitope of hepatitis A virus. , 1998, 54, 95-102.		42
42	C-Terminal nsP1a Protein of Human Astrovirus Colocalizes with the Endoplasmic Reticulum and Viral RNA. <i>Journal of Virology</i> , 2004, 78, 13627-13636.	1.5	42
43	Isolation of marine bacteria with antiviral properties. <i>Canadian Journal of Microbiology</i> , 1989, 35, 1015-1021.	0.8	39
44	Capsid Region Involved in Hepatitis A Virus Binding to Glycophorin A of the Erythrocyte Membrane. <i>Journal of Virology</i> , 2004, 78, 9807-9813.	1.5	39
45	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
46	Rotavirus Virus-Like Particles as Surrogates in Environmental Persistence and Inactivation Studies. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3904-3909.	1.4	37
47	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
48	Norovirus shedding among food and healthcare workers exposed to the virus in outbreak settings. <i>Journal of Clinical Virology</i> , 2016, 82, 119-125.	1.6	35
49	Adsorption-elution with negatively and positively-charged glass powder for the concentration of hepatitis A virus from water. <i>Journal of Virological Methods</i> , 1991, 31, 345-351.	1.0	34
50	Human astrovirus C-terminal nsP1a protein is involved in RNA replication. <i>Virology</i> , 2005, 333, 124-131.	1.1	34
51	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
52	Flow Cytometry Detection of Infectious Rotaviruses in Environmental and Clinical Samples. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2392-2396.	1.4	33
53	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
54	Enhancement of the Humoral Immune Response and Resistance to Bacterial Infection in Mice by the Oral Administration of a Bacterial Immunomodulator (OM-89). <i>Immunopharmacology and Immunotoxicology</i> , 1988, 10, 333-343.	1.1	31

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55	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
56	Structural Requirements of Astrovirus Virus-Like Particles Assembled in Insect Cells. <i>Journal of Virology</i> , 2004, 78, 13285-13292.	1.5	30
57	Hepatitis in Albanian children: Molecular analysis of hepatitis A virus isolates. <i>Journal of Medical Virology</i> , 2004, 72, 533-537.	2.5	30
58	Type I Interferon Response Is Delayed in Human Astrovirus Infections. <i>PLoS ONE</i> , 2015, 10, e0123087.	1.1	29
59	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
60	Survival of Enteric Viruses in the Environment and Food. , 2016, , 367-392.		27
61	Hepatitis A Virus Codon Usage: Implications for Translation Kinetics and Capsid Folding. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018, 8, a031781.	2.9	27
62	Final Consumer Options to Control and Prevent Foodborne Norovirus Infections. <i>Viruses</i> , 2019, 11, 333.	1.5	26
63	Hepatitis A Virus: State of the Art. <i>Food and Environmental Virology</i> , 2010, 2, 127-135.	1.5	24
64	Deep sequencing in the management of hepatitis virus infections. <i>Virus Research</i> , 2017, 239, 115-125.	1.1	23
65	Occurrence of enteroviruses in marine sediment along the coast of Barcelona, Spain. <i>Canadian Journal of Microbiology</i> , 1988, 34, 921-924.	0.8	22
66	Detection of Fastidious Infectious Enteric Viruses in Water. <i>Environmental Science & Technology</i> , 1995, 29, 2636-2638.	4.6	22
67	Extended direct lysis method for virus detection on berries including droplet digital RT-PCR or real time RT-PCR with reduced influence from inhibitors. <i>Journal of Virological Methods</i> , 2019, 271, 113638.	1.0	22
68	Evidence for positive selection of hepatitis A virus antigenic variants in vaccinated men-having-sex-with men patients: Implications for immunization policies. <i>EBioMedicine</i> , 2019, 39, 348-357.	2.7	22
69	Enhancement of the immunogenicity of a synthetic peptide bearing a VP3 epitope of hepatitis A virus. <i>FEBS Letters</i> , 1998, 438, 106-110.	1.3	21
70	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
71	Anti-Hepatitis A Virus Antibody Response Elicited in Mice by Different Forms of a Synthetic VP1 Peptide. <i>Microbiology and Immunology</i> , 1995, 39, 485-490.	0.7	20
72	Disinfection of human enteric viruses on fomites. <i>FEMS Microbiology Letters</i> , 2006, 156, 107-111.	0.7	20

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73	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
74	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
75	Pathogenicity and virulence of hepatitis A virus. <i>Virulence</i> , 2021, 12, 1174-1185.	1.8	19
76	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
77	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
78	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
79	Effectiveness of Consumers Washing with Sanitizers to Reduce Human Norovirus on Mixed Salad. <i>Foods</i> , 2019, 8, 637.	1.9	16
80	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
81	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
82	Rethinking Virus Detection in Food. , 0, , 171-188.		15
83	Human Astrovirus MLB Replication In Vitro : Persistence in Extraintestinal Cell Lines. <i>Journal of Virology</i> , 2019, 93, .	1.5	14
84	Disinfection of Human Enteric Viruses in Water by Copper: Silver and Reduced Levels of Chlorine. <i>Water Science and Technology</i> , 1993, 27, 351-355.	1.2	13
85	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
86	Rotavirus VLP2/6: a new tool for tracking rotavirus in the marine environment. <i>Research in Microbiology</i> , 2004, 155, 575-578.	1.0	12
87	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
88	Improving virus production through quasispecies genomic selection and molecular breeding. <i>Scientific Reports</i> , 2016, 6, 35962.	1.6	12
89	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
90	Bacterial Immunostimulant (Broncho-Vaxom) Versus Levamisole on the Humoral Immune Response in Mice. <i>Immunopharmacology and Immunotoxicology</i> , 1983, 5, 107-116.	0.8	11

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91	A novel CD4+ T-helper lymphocyte epitope in the VP3 protein of hepatitis A virus. <i>Journal of Medical Virology</i> , 2004, 72, 525-532.	2.5	10
92	Detection of Infectious Rotaviruses by Flow Cytometry. , 2004, 268, 061-068.		10
93	Characterization of intra- and inter-host norovirus P2 genetic variability in linked individuals by amplicon sequencing. <i>PLoS ONE</i> , 2018, 13, e0201850.	1.1	10
94	Binding and Inactivation of Viruses on and in Food, with a Focus on the Role of the Matrix. , 0, , 189-208.		10
95	Photodynamic inactivation of viruses by immobilized chlorin-containing liposomes. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 578-588.	0.4	9
96	Viruses in Shellfish. <i>Food and Environmental Virology</i> , 2010, 2, 115-116.	1.5	8
97	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
98	Infectivity of Norovirus GI and GII from Bottled Mineral Water during a Waterborne Outbreak, Spain. <i>Emerging Infectious Diseases</i> , 2019, 26, 134-137.	2.0	8
99	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
100	Hepatitis A virus polyprotein processing by <i>Escherichia coli</i> proteases. <i>Journal of General Virology</i> , 2002, 83, 359-368.	1.3	8
101	Experimental Transmission and Pathogenicity of a Viral Erythrocytic Infection in Sea Bass <i>Dicentrarchus labrax</i> . <i>Journal of Aquatic Animal Health</i> , 1992, 4, 292-302.	0.6	7
102	Epidemiology of Human Astroviruses. , 2012, , 1-18.		7
103	Epidemiological and Genetic Characterization of Norovirus Outbreaks That Occurred in Catalonia, Spain, 2017-2019. <i>Viruses</i> , 2022, 14, 488.	1.5	7
104	Structures associated with the expression of rabies virus structural genes in insect cells. <i>Virus Research</i> , 1994, 31, 139-145.	1.1	6
105	Implementation of Good Laboratory Practice in a university research unit. <i>Quality Assurance Journal</i> , 2005, 9, 304-311.	0.1	6
106	The Codon Usage Code for Cotranslational Folding of Viral Capsids. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	6
107	Interferon-like activity in sea bass affected by viral erythrocytic infection. <i>Fish and Shellfish Immunology</i> , 1993, 3, 89-96.	1.6	5
108	Risk Assessment of Viruses in Food: Opportunities and Challenges. , 0, , 221-236.		5

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109	Food-Borne Viruses-State of the Art. , 0 , 29-64.		5
110	Enterically Transmitted Hepatitis. , 0 , 65-85.		4
111	Emerging Food-Borne Viral Diseases. , 0 , 117-145.		4
112	Survey of viral pollution in Duero River (Spain): Occurrence of natural virucidal phenomena. Environment International, 1988, 14, 37-41.	4.8	3
113	Historic Overview of Food Virology. , 0 , 1-28.		3
114	The Challenge of Estimating the Burden of an Underreported Disease. , 0 , 87-115.		3
115	Viral Evolution and Its Relevance for Food-Borne Virus Epidemiology. , 0 , 147-169.		3
116	Antigenic Hepatitis A Virus Structures May Be Produced in Escherichia coli. Applied and Environmental Microbiology, 2003, 69, 1840-1843.	1.4	2
117	Coding Biases and Viral Fitness. , 0 , 271-283.		2
118	Immunization recommendations against hepatitis A in Spain: Effectiveness of immunization in MSM and selection of antigenic variants â€œ Authors' Reply. EBioMedicine, 2019, 45, 21.	2.7	1
119	Advances for the Hepatitis A Virus Antigen Production Using a Virus Strain With Codon Frequency Optimization Adjustments in Specific Locations. Frontiers in Microbiology, 2021, 12, 642267.	1.5	1
120	Use of the Codex Risk Analysis Framework To Reduce Risks Associated with Viruses in Food. , 0 , 209-220.		1
121	ISFEV 2014: Environmental, Food and Health Impacts of Enteric Viruses. Food and Environmental Virology, 2015, 7, 87-87.	1.5	0
122	Hepatitis A and E Viruses. , 0 , 247-258.		0