Mathieu Andraud

List of Publications by Year
in descending order

52 papers	1,416 citations	361045 20 h-index	360668 35 g-index
58 all docs	58 docs citations	58 times ranked	1705 citing authors

#	Article	IF	Citations
1	Dynamic Epidemiological Models for Dengue Transmission: A Systematic Review of Structural Approaches. PLoS ONE, 2012, 7, e49085.	1.1	241
2	From the epidemiology of hepatitis E virus (HEV) within the swine reservoir to public health risk mitigation strategies: a comprehensive review. Veterinary Research, 2017, 48, 31.	1.1	115
3	Living on Three Time Scales: The Dynamics of Plasma Cell and Antibody Populations Illustrated for Hepatitis A Virus. PLoS Computational Biology, 2012, 8, e1002418.	1.5	66
4	Direct contact and environmental contaminations are responsible for HEV transmission in pigs. Veterinary Research, 2013, 44, 102.	1.1	62
5	Dynamics of influenza A virus infections in permanently infected pig farms: evidence of recurrent infections, circulation of several swine influenza viruses and reassortment events. Veterinary Research, 2013, 44, 72.	1.1	58
6	Porcine reproductive and respiratory syndrome virus (PRRSv) modified-live vaccine reduces virus transmission in experimental conditions. Vaccine, 2015, 33, 2493-2499.	1.7	53
7	A Field Recombinant Strain Derived from Two Type 1 Porcine Reproductive and Respiratory Syndrome Virus (PRRSV-1) Modified Live Vaccines Shows Increased Viremia and Transmission in SPF Pigs. Viruses, 2019, 11, 296.	1.5	43
8	Hepatitis E virus chronic infection of swine co-infected with Porcine Reproductive and Respiratory Syndrome Virus. Veterinary Research, 2015, 46, 55.	1.1	42
9	A simple periodic-forced model for dengue fitted to incidence data in Singapore. Mathematical Biosciences, 2013, 244, 22-28.	0.9	40
10	Maternally-derived antibodies do not prevent transmission of swine influenza A virus between pigs. Veterinary Research, 2016, 47, 86.	1.1	39
11	Pig movements in France: Designing network models fitting the transmission route of pathogens. PLoS ONE, 2017, 12, e0185858.	1.1	33
12	Mechanistic modelling of African swine fever: A systematic review. Preventive Veterinary Medicine, 2021, 191, 105358.	0.7	31
13	Threat to the French Swine Industry of African Swine Fever: Surveillance, Spread, and Control Perspectives. Frontiers in Veterinary Science, 2019, 6, 248.	0.9	30
14	Quantification of porcine circovirus type 2 (PCV-2) within- and between-pen transmission in pigs. Veterinary Research, 2008, 39, 43.	1.1	30
15	Early-Life Hepatitis E Infection in Pigs: The Importance of Maternally-Derived Antibodies. PLoS ONE, 2014, 9, e105527.	1.1	28
16	A commercial PCV2a-based vaccine significantly reduces PCV2b transmission in experimental conditions. Vaccine, 2016, 34, 3738-3745.	1.7	27
17	Fitness of Macrolide Resistant Campylobacter coli and Campylobacter jejuni. Microbial Drug Resistance, 2012, 18, 101-108.	0.9	26
18	Spatiotemporal clustering and Random Forest models to identify risk factors of African swine fever outbreak in Romania in 2018â€“2019. Scientific Reports, 2021, 11, 2098.	1.6	26

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19	How mechanistic modelling supports decision making for the control of enzootic infectious diseases. Epidemics, 2020, 32, 100398.	1.5	25
20	Pharmacodynamic Modeling of In Vitro Activity of Marbofloxacin against Escherichia coli Strains. Antimicrobial Agents and Chemotherapy, 2011, 55, 756-761.	1.4	24
21	Maternally Derived Immunity Extends Swine Influenza A Virus Persistence within Farrow-to-Finish Pig Farms: Insights from a Stochastic Event-Driven Metapopulation Model. PLoS ONE, 2016, 11, e0163672.	1.1	22
22	Modelling the time-dependent transmission rate for porcine circovirus type 2 (PCV2) in pigs using data from serial transmission experiments. Journal of the Royal Society Interface, 2009, 6, 39-50.	1.5	21
23	Maternally-derived antibodies do not inhibit swine influenza virus replication in piglets but decrease excreted virus infectivity and impair post-infectious immune responses. Veterinary Microbiology, 2018, 216, 142-152.	0.8	20
24	Better horizontal transmission of a US non-InDel strain compared with a French InDel strain of porcine epidemic diarrhoea virus. Transboundary and Emerging Diseases, 2018, 65, 1720-1732.	1.3	20
25	Maternally-derived neutralizing antibodies reduce vaccine efficacy against porcine reproductive and respiratory syndrome virus infection. Vaccine, 2019, 37, 4318-4324.	1.7	20
26	Influence of husbandry and control measures on porcine circovirus type 2 (PCV-2) dynamics within a farrow-to-finish pig farm: A modelling approach. Preventive Veterinary Medicine, 2009, 92, 38-51.	0.7	19
27	Control of endemic swine flu persistence in farrow-to-finish pig farms: a stochastic metapopulation modeling assessment. Veterinary Research, 2017, 48, 58.	1.1	17
28	Natural viral coâ€infections in pig herds affect hepatitis E virus (HEV) infection dynamics and increase the risk of contaminated livers at slaughter. Transboundary and Emerging Diseases, 2019, 66, 1930-1945.	1.3	17
29	Persistent viremia and presence of hepatitis E virus RNA in pig muscle meat after experimental co-infection with porcine reproductive and respiratory syndrome virus. International Journal of Food Microbiology, 2019, 292, 144-149.	2.1	17
30	Estimation of transmission parameters of a fluoroquinolone-resistant Escherichia coli strain between pigs in experimental conditions. Veterinary Research, 2011, 42, 44.	1.1	16
31	The use of vaccines to control pathogen spread in pig populations. Porcine Health Management, 2017, 3, 8.	0.9	15
32	Modelling infectious viral diseases in swine populations: a state of the art. Porcine Health Management, 2020, 6, 22.	0.9	14
33	Combining network analysis with epidemiological data to inform risk-based surveillance: Application to hepatitis E virus (HEV) in pigs. Preventive Veterinary Medicine, 2018, 149, 125-131.	0.7	13
34	PCV2 co-infection does not impact PRRSV MLV1 safety but enhances virulence of a PRRSV MLV1-like strain in infected SPF pigs. Veterinary Microbiology, 2020, 244, 108656.	0.8	13
35	Mechanical transmission of African swine fever virus by Stomoxys calcitrans : Insights from a mechanistic model. Transboundary and Emerging Diseases, 2021, 68, 1541-1549.	1.3	13
36	Inferring withinâ€flock transmission dynamics of highly pathogenic avian influenza H5N8 virus in France, 2020. Transboundary and Emerging Diseases, 2021, 68, 3151-3155.	1.3	13

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37	Transmission Kinetics and histopathology induced by European Turkey Coronavirus during experimental infection of specific pathogen free turkeys. Transboundary and Emerging Diseases, 2019, 66, 234-242.	1.3	11
38	Impact of porcine circovirus type 2 (PCV2) infection on hepatitis E virus (HEV) infection and transmission under experimental conditions. Veterinary Microbiology, 2019, 234, 1-7.	0.8	11
39	Tackling hepatitis E virus spread and persistence on farrow-to-finish pig farms: Insights from a stochastic individual-based multi-pathogen model. Epidemics, 2020, 30, 100369.	1.5	11
40	Dynamics of livestock-associated methicillin resistant Staphylococcus aureus in pig movement networks: Insight from mathematical modeling and French data. Epidemics, 2020, 31, 100389.	1.5	10
41	Impact of colistin administered before or after inoculation on the transmission of a mcr-1 colistin-resistant Escherichia coli strain between pigs. Veterinary Microbiology, 2019, 230, 164-170.	0.8	9
42	Estimating Parameters Related to the Lifespan of Passively Transferred and Vaccine-Induced Porcine Reproductive and Respiratory Syndrome Virus Type I Antibodies by Modeling Field Data. Frontiers in Veterinary Science, 2018, 5, 9.	0.9	7
43	A between-herd data-driven stochastic model to explore the spatio-temporal spread of hepatitis E virus in the French pig production network. PLoS ONE, 2020, 15, e0230257.	1.1	7
44	Phylodynamic analysis of the highly pathogenic avian influenza H5N8 epidemic in France, 2016â€“2017. Transboundary and Emerging Diseases, 2022, 69, .	1.3	6
45	Are French pig farmers and veterinarians knowledgeable about emerging foodborne pathogens? The case of hepatitis E virus. Preventive Veterinary Medicine, 2018, 156, 1-7.	0.7	5
46	Controlling hepatitis E virus in the pig production sector: Assessment of the technical and behavioural feasibility of on-farm risk mitigation strategies. Preventive Veterinary Medicine, 2020, 175, 104866.	0.7	5
47	Modelling African swine fever virus spread in pigs using timeâ€respective network data: Scientific support for decision makers. Transboundary and Emerging Diseases, 2022, 69, .	1.3	5
48	Phenotypic and Genetic Evolutions of a Porcine Reproductive and Respiratory Syndrome Modified Live Vaccine after Limited Passages in Pigs. Vaccines, 2021, 9, 392.	2.1	4
49	Organization as a Multi-level Design Pattern for Agent-based Simulation of Complex Systems. , 2021, , .		3
50	Modelling the role of mortalityâ€based response triggers on the effectiveness of African swine fever control strategies. Transboundary and Emerging Diseases, 2022, 69, .	1.3	3
51	Complex network analysis to understand trading partnership in French swine production. PLoS ONE, 2022, 17, e0266457.	1.1	3
52	Apport de la modÃ©lisation Ã l'Ã©tude de la dynamique de transmission de virus dans des populationsÂ: application aux virus influenza de type A en Ã©levage porcin. Virologie, 2017, 21, 173-187.	0.1	1