Elke Genersch

List of Publications by Citations

87 papers	7,125 citations	44 h-index	84 g-index
93 ext. papers	8,220 ext. citations	4.9 avg, IF	6.23 L-index

#	Paper	IF	Citations
87	The German bee monitoring project: a long term study to understand periodically high winter losses of honey bee colonies. *Apidologie*, **2010**, 41, 332-352	2.3	463
86	Widespread dispersal of the microsporidian Nosema ceranae, an emergent pathogen of the western honey bee, Apis mellifera. *Journal of Invertebrate Pathology*, **2007**, 96, 1-10	2.6	393
85	Country-specific effects of neonicotinoid pesticides on honey bees and wild bees. *Science*, **2017**, 356, 1393-1395	33.3	367
84	Deformed wing virus. *Journal of Invertebrate Pathology*, **2010**, 103 Suppl 1, S48-61	2.6	356
83	American Foulbrood in honeybees and its causative agent, Paenibacillus larvae. *Journal of Invertebrate Pathology*, **2010**, 103 Suppl 1, S10-9	2.6	306
82	RT-PCR analysis of Deformed wing virus in honeybees (Apis mellifera) and mites (Varroa destructor). *Journal of General Virology*, **2005**, 86, 3419-3424	4.9	249
81	Honey bee pathology: current threats to honey bees and beekeeping. *Applied Microbiology and Biotechnology*, **2010**, 87, 87-97	5.7	247
80	Reclassification of Paenibacillus larvae subsp. pulvifaciens and Paenibacillus larvae subsp. larvae as Paenibacillus larvae without subspecies differentiation. *International Journal of Systematic and Evolutionary Microbiology*, **2006**, 56, 501-511	2.2	240
79	Standard methods for Nosema research. *Journal of Apicultural Research*, **2013**, 52, 1-28	2	222
78	Standard methods for artificial rearing of Apis mellifera larvae. *Journal of Apicultural Research*, **2013**, 52, 1-16	2	188
77	Emerging and re-emerging viruses of the honey bee (Apis mellifera L.). *Veterinary Research*, **2010**, 41, 54	3.8	185
76	Deformed wing virus: replication and viral load in mites (Varroa destructor). *Journal of General Virology*, **2009**, 90, 463-467	4.9	184
75	Standard methods for virus research in Apis mellifera. *Journal of Apicultural Research*, **2013**, 52, 1-56	2	176
74	Five-year cohort study of Nosema spp. in Germany: does climate shape virulence and assertiveness of Nosema ceranae?. *Applied and Environmental Microbiology*, **2010**, 76, 3032-8	4.8	168
73	Honey bee colony losses and associated viruses. *Current Opinion in Insect Science*, **2015**, 8, 121-129	5.1	164
72	Detection of Deformed wing virus, a honey bee viral pathogen, in bumble bees (Bombus terrestris and Bombus pascuorum) with wing deformities. *Journal of Invertebrate Pathology*, **2006**, 91, 61-3	2.6	154
71	Varroosis□the Ongoing Crisis in Bee Keeping. *Journal Fur Verbraucherschutz Und Lebensmittelsicherheit*, **2008**, 3, 221-228	2.3	150

70	Strain- and genotype-specific differences in virulence of Paenibacillus larvae subsp. larvae, a bacterial pathogen causing American foulbrood disease in honeybees. *Applied and Environmental Microbiology*, **2005**, 71, 7551-5	4.8	141
69	Vertical-transmission routes for deformed wing virus of honeybees (Apis mellifera). *Journal of General Virology*, **2007**, 88, 2329-2336	4.9	128
68	Effect of bosentan on NF-kappaB, inflammation, and tissue factor in angiotensin II-induced end-organ damage. *Hypertension*, **2000**, 36, 282-90	8.5	127
67	Horizontal transmission of deformed wing virus: pathological consequences in adult bees (Apis mellifera) depend on the transmission route. *Journal of General Virology*, **2011**, 92, 370-7	4.9	119
66	Standard methods for molecular research in Apis mellifera. *Journal of Apicultural Research*, **2013**, 52, 1-54	2	113
65	Fluorescence in situ hybridization (FISH) analysis of the interactions between honeybee larvae and Paenibacillus larvae, the causative agent of American foulbrood of honeybees (Apis mellifera). *Environmental Microbiology*, **2008**, 10, 1612-20	5.2	103
64	Standard methods for American foulbrood research. *Journal of Apicultural Research*, **2013**, 52, 1-28	2	76
63	A cell culture model for Nosema ceranae and Nosema apis allows new insights into the life cycle of these important honey bee-pathogenic microsporidia. *Environmental Microbiology*, **2011**, 13, 404-13	5.2	75
62	Dominance of Nosema ceranae in honey bees in the Balkan countries in the absence of symptoms of colony collapse disorder. *Apidologie*, **2011**, 42, 49-58	2.3	73
61	Negative correlation between individual-insect-level virulence and colony-level virulence of Paenibacillus larvae, the etiological agent of American foulbrood of honeybees. *Applied and Environmental Microbiology*, **2009**, 75, 3344-7	4.8	73
60	The use of repetitive element PCR fingerprinting (rep-PCR) for genetic subtyping of German field isolates of Paenibacillus larvae subsp. larvae. *Apidologie*, **2003**, 34, 195-206	2.3	73
59	Biochemical characterization of different genotypes of Paenibacillus larvae subsp. larvae, a honey bee bacterial pathogen. *Microbiology (United Kingdom)*, **2004**, 150, 2381-2390	2.9	69
58	How to kill the honey bee larva: genomic potential and virulence mechanisms of Paenibacillus larvae. *PLoS ONE*, **2014**, 9, e90914	3.7	68
57	Detection of adenovirus nucleic acid sequences in human tonsils in the absence of infectious virus. *Virus Research*, **1987**, 7, 93-7	6.4	66
56	Unity in defence: honeybee workers exhibit conserved molecular responses to diverse pathogens. *BMC Genomics*, **2017**, 18, 207	4.5	63
55	Evidence for damage-dependent hygienic behaviour towards Varroa destructor-parasitised brood in the western honey bee, Apis mellifera. *Journal of Experimental Biology*, **2012**, 215, 264-71	3	63
54	Opposing roles of integrin alpha6Abeta1 and dystroglycan in laminin-mediated extracellular signal-regulated kinase activation. *Molecular Biology of the Cell*, **2003**, 14, 2088-103	3.5	61
53	Identification and functional analysis of the S-layer protein SplA of Paenibacillus larvae, the causative agent of American Foulbrood of honey bees. *PLoS Pathogens*, **2012**, 8, e1002716	7.6	59

52	Evidence for emerging parasites and pathogens influencing outbreaks of stress-related diseases like chalkbrood. *Journal of Invertebrate Pathology*, **2011**, 108, 167-73	2.6	57
51	Paenilamicin: structure and biosynthesis of a hybrid nonribosomal peptide/polyketide antibiotic from the bee pathogen Paenibacillus larvae. *Angewandte Chemie - International Edition*, **2014**, 53, 10821-5	16.4	55
50	Development of a rapid and sensitive RT-PCR method for the detection of deformed wing virus, a pathogen of the honeybee (Apis mellifera). *Veterinary Journal*, **2005**, 169, 121-3	2.5	51
49	Biogeography of Paenibacillus larvae, the causative agent of American foulbrood, using a new multilocus sequence typing scheme. *Environmental Microbiology*, **2015**, 17, 1414-24	5.2	50
48	Paenibacillus larvae chitin-degrading protein PlCBP49 is a key virulence factor in American Foulbrood of honey bees. *PLoS Pathogens*, **2014**, 10, e1004284	7.6	50
47	Laminin-1 promotes angiogenesis in synergy with fibroblast growth factor by distinct regulation of the gene and protein expression profile in endothelial cells. *Journal of Biological Chemistry*, **2004**, 279, 23766-72	5.4	48
46	Honey bee disease overview. *Journal of Invertebrate Pathology*, **2010**, 103 Suppl 1, S2-4	2.6	47
45	Reclassification, genotypes and virulence ofPaenibacillus larvae, the etiological agent of American foulbrood in honeybees a review. *Apidologie*, **2006**, 37, 411-420	2.3	47
44	Viruses of commercialized insect pollinators. *Journal of Invertebrate Pathology*, **2017**, 147, 51-59	2.6	46
43	Biology of Paenibacillus larvae, a deadly pathogen of honey bee larvae. *Applied Microbiology and Biotechnology*, **2016**, 100, 7387-95	5.7	44
42	In vivo evolution of viral virulence: switching of deformed wing virus between hosts results in virulence changes and sequence shifts. *Environmental Microbiology*, **2018**, 20, 4612-4628	5.2	42
41	Identification and characterization of two novel toxins expressed by the lethal honey bee pathogen Paenibacillus larvae, the causative agent of American foulbrood. *Environmental Microbiology*, **2013**, 15, 2951-65	5.2	40
40	Production of the catechol type siderophore bacillibactin by the honey bee pathogen Paenibacillus larvae. *PLoS ONE*, **2014**, 9, e108272	3.7	39
39	Honey bee larval peritrophic matrix degradation during infection with Paenibacillus larvae, the aetiological agent of American foulbrood of honey bees, is a key step in pathogenesis. *Environmental Microbiology*, **2013**, 15, 2894-901	5.2	39
38	Paenibacillus larvae and American Foulbrood long since known and still surprising. *Journal Fur Verbraucherschutz Und Lebensmittelsicherheit*, **2008**, 3, 429-434	2.3	37
37	Laminin isoforms differentially regulate adhesion, spreading, proliferation, and ERK activation of beta1 integrin-null cells. *Experimental Cell Research*, **2004**, 300, 94-108	4.2	37
36	Biological effects of paenilamicin, a secondary metabolite antibiotic produced by the honey bee pathogenic bacterium Paenibacillus larvae. *MicrobiologyOpen*, **2014**, 3, 642-56	3.4	36
35	Differential effects of DNA-binding proteins on bidirectional transcription from the common promoter region of human collagen type IV genes COL4A1 and COL4A2. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1993**, 1174, 1-10		35

34	Elucidation of sevadicin, a novel non-ribosomal peptide secondary metabolite produced by the honey bee pathogenic bacterium Paenibacillus larvae. *Environmental Microbiology*, **2014**, 16, 1297-309	5.2	34
33	Rapid identification of differentially virulent genotypes of Paenibacillus larvae, the causative organism of American foulbrood of honey bees, by whole cell MALDI-TOF mass spectrometry. *Veterinary Microbiology*, **2014**, 170, 291-7	3.3	33
32	Molecular differentiation of Nosema apis and Nosema ceranae based on species-specific sequence differences in a protein coding gene. *Journal of Invertebrate Pathology*, **2013**, 113, 1-6	2.6	31
31	Long-Term Temporal Trends of spp. Infection Prevalence in Northeast Germany: Continuous Spread of , an Emerging Pathogen of Honey Bees (), but No General Replacement of. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 301	5.9	31
30	Involvement of secondary metabolites in the pathogenesis of the American foulbrood of honey bees caused by Paenibacillus larvae. *Natural Product Reports*, **2015**, 32, 765-78	15.1	28
29	American foulbrood of the honey bee: occurrence and distribution of different genotypes of Paenibacillus larvae in the administrative district of Arnsberg (North Rhine-Westphalia). *Zoonoses and Public Health*, **2006**, 53, 100-4		28
28	Use of suppression subtractive hybridization to identify genetic differences between differentially virulent genotypes of Paenibacillus larvae, the etiological agent of American Foulbrood of honeybees. *Environmental Microbiology Reports*, **2009**, 1, 240-50	3.7	27
27	Proteome analysis of Paenibacillus larvae reveals the existence of a putative S-layer protein. *Environmental Microbiology Reports*, **2012**, 4, 194-202	3.7	25
26	Molecular pathogenesis of American Foulbrood: how Paenibacillus larvae kills honey bee larvae. *Current Opinion in Insect Science*, **2015**, 10, 29-36	5.1	25
25	Standard methods for cell cultures in Apis mellifera research. *Journal of Apicultural Research*, **2013**, 52, 1-8	2	25
24	Integrin alphavbeta3 binding to human alpha5-laminins facilitates FGF-2- and VEGF-induced proliferation of human ECV304 carcinoma cells. *European Journal of Cell Biology*, **2003**, 82, 105-17	6.1	24
23	Bacterial pathogens of bees. *Current Opinion in Insect Science*, **2018**, 26, 89-96	5.1	23
22	Signaling by epidermal growth factor differentially affects integrin-mediated adhesion of tumor cells to extracellular matrix proteins. *Journal of Molecular Medicine*, **1996**, 74, 609-16	5.5	23
21	Identification of candidate agents active against N. ceranae infection in honey bees: establishment of a medium throughput screening assay based on N. ceranae infected cultured cells. *PLoS ONE*, **2015**, 10, e0117200	3.7	22
20	Proposal to reclassify Paenibacillus larvae subsp. pulvifaciens DSM 3615 (ATCC 49843) as Paenibacillus larvae subsp. larvae. Results of a comparative biochemical and genetic study. *Veterinary Microbiology*, **2004**, 104, 31-42	3.3	21
19	Heterologous expression of green fluorescent protein in Paenibacillus larvae, the causative agent of American Foulbrood of honey bees. *Journal of Applied Microbiology*, **2012**, 112, 430-5	4.7	17
18	Prevention of EGF-modulated adhesion of tumor cells to matrix proteins by specific EGF receptor inhibition. *International Journal of Cancer*, **1998**, 75, 205-9	7.5	15
17	Biological Role of Paenilarvins, Iturin-Like Lipopeptide Secondary Metabolites Produced by the Honey Bee Pathogen Paenibacillus larvae. *PLoS ONE*, **2016**, 11, e0164656	3.7	15

16	Rapid Gastrointestinal Passage May Protect Bombus terrestris from Becoming a True Host for Nosema ceranae. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	14
15	Swarming motility and biofilm formation of Paenibacillus larvae, the etiological agent of American Foulbrood of honey bees (Apis mellifera). *Scientific Reports*, **2018**, 8, 8840	4.9	14
14	Characterization of the toxin Plx2A, a RhoA-targeting ADP-ribosyltransferase produced by the honey bee pathogen Paenibacillus larvae. *Environmental Microbiology*, **2017**, 19, 5100-5116	5.2	14
13	Morphologic and molecular data help adopting the insect-pathogenic nephridiophagids (Nephridiophagidae) among the early diverging fungal lineages, close to the Chytridiomycota. *MycoKeys*,25, 31-50	2.4	12
12	Direct Evidence for Infection of Mites with the Bee-Pathogenic Deformed Wing Virus Variant B - but Not Variant A - via Fluorescence--Hybridization Analysis. *Journal of Virology*, **2020**,	6.6	10
11	The biological role of the enigmatic C3larvinAB toxin of the honey bee pathogenic bacterium Paenibacillus larvae. *Environmental Microbiology*, **2019**, 21, 3091-3106	5.2	5
10	Characterization of C3larvinA, a novel RhoA-targeting ADP-ribosyltransferase toxin produced by the honey bee pathogen, Paenibacillus larvae. *Bioscience Reports*, **2020**, 40,	4.1	5
9	Development of a loop-mediated isothermal amplification (LAMP) and a direct LAMP for the specific detection of Nosema ceranae, a parasite of honey bees. *Parasitology Research*, **2020**, 119, 3947-3956	2.4	3
8	Foulbrood Diseases of Honey Bees: From Science to Practice **2017**, 157-174		2
7	Cold case: The disappearance of Egypt bee virus, a fourth distinct master strain of deformed wing virus linked to honeybee mortality in 1970s Egypt.. *Virology Journal*, **2022**, 19, 12	6.1	2
6	The Buzz about ADP-Ribosylation Toxins from , the Causative Agent of American Foulbrood in Honey Bees. *Toxins*, **2021**, 13,	4.9	2
5	Total Synthesis and Biological Evaluation of Paenilamicins from the Honey Bee Pathogen .. *Journal of the American Chemical Society*, **2021**,	16.4	2
4	Tripartite interactions: How immunity, microbiota and pathogens interact and affect pathogen virulence evolution.. *Current Opinion in Insect Science*, **2022**, 50, 100871-100871	5.1	1
3	Molecular Basis of Antibiotic Self-Resistance in a Bee Larvae Pathogen		1
2	Molecular basis of antibiotic self-resistance in a bee larvae pathogen.. *Nature Communications*, **2022**, 13, 2349	17.4	0
1	Die Amerikanische Faulbrut, eine ernsthafte Bedrohung der Honigbiene. *BioSpektrum*, **2015**, 21, 154-157	0.1	