

Kevin B Wood

List of Publications by Year in descending order

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39
papers

882
citations

643344

15
h-index

620720

26
g-index

55
all docs

55
docs citations

55
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution in alternating environments with tunable interlandscape correlations. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 10-24.	1.1	11
2	Roadmap on biology in time varying environments. <i>Physical Biology</i> , 2021, 18, 041502.	0.8	23
3	Spatial segregation and cooperation in radially expanding microbial colonies under antibiotic stress. <i>ISME Journal</i> , 2021, 15, 3019-3033.	4.4	19
4	Price equation captures the role of drug interactions and collateral effects in the evolution of multidrug resistance. <i>ELife</i> , 2021, 10, .	2.8	18
5	Finding the right sequence of drugs. <i>ELife</i> , 2021, 10, .	2.8	1
6	Using Selection by Nonantibiotic Stressors to Sensitize Bacteria to Antibiotics. <i>Molecular Biology and Evolution</i> , 2020, 37, 1394-1406.	3.5	16
7	Fluorescent reporter plasmids for single-cell and bulk-level composition assays in <i>E. faecalis</i> . <i>PLoS ONE</i> , 2020, 15, e0232539.	1.1	5
8	Antibiotics can be used to contain drug-resistant bacteria by maintaining sufficiently large sensitive populations. <i>PLoS Biology</i> , 2020, 18, e3000713.	2.6	50
9	Antibiotic interactions shape short-term evolution of resistance in <i>E. faecalis</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008278.	2.1	26
10	Delayed antibiotic exposure induces population collapse in enterococcal communities with drug-resistant subpopulations. <i>ELife</i> , 2020, 9, .	2.8	17
11	Title is missing!. , 2020, 18, e3000713.		0
12	Title is missing!. , 2020, 18, e3000713.		0
13	Title is missing!. , 2020, 18, e3000713.		0
14	Title is missing!. , 2020, 18, e3000713.		0
15	Title is missing!. , 2020, 18, e3000713.		0
16	Title is missing!. , 2020, 18, e3000713.		0
17	Antibiotic interactions shape short-term evolution of resistance in <i>E. faecalis</i> . , 2020, 16, e1008278.		0
18	Antibiotic interactions shape short-term evolution of resistance in <i>E. faecalis</i> . , 2020, 16, e1008278.		0

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19	Antibiotic interactions shape short-term evolution of resistance in <i>E. faecalis</i> . , 2020, 16, e1008278.		0
20	Antibiotic interactions shape short-term evolution of resistance in <i>E. faecalis</i> . , 2020, 16, e1008278.		0
21	Microbial Ecology: Complex Bacterial Communities Reduce Selection for Antibiotic Resistance. <i>Current Biology</i> , 2019, 29, R1143-R1145.	1.8	3
22	Pervasive and diverse collateral sensitivity profiles inform optimal strategies to limit antibiotic resistance. <i>PLoS Biology</i> , 2019, 17, e3000515.	2.6	92
23	Interplay between Antibiotic Efficacy and Drug-Induced Lysis Underlies Enhanced Biofilm Formation at Subinhibitory Drug Concentrations. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	48
24	Tuning Spatial Profiles of Selection Pressure to Modulate the Evolution of Drug Resistance. <i>Physical Review Letters</i> , 2018, 120, 238102.	2.9	34
25	Population Density Modulates Drug Inhibition and Gives Rise to Potential Bistability of Treatment Outcomes for Bacterial Infections. <i>PLoS Computational Biology</i> , 2016, 12, e1005098.	1.5	61
26	Pairwise interactions and the battle against combinatorics in multidrug therapies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10231-10233.	3.3	21
27	Synchronization and phase redistribution in self-replicating populations of coupled oscillators and excitable elements. <i>Physical Review E</i> , 2015, 91, 062708.	0.8	5
28	Uncovering Scaling Laws to Infer Multidrug Response of Resistant Microbes and Cancer Cells. <i>Cell Reports</i> , 2014, 6, 1073-1084.	2.9	53
29	Trade-offs between drug toxicity and benefit in the multi-antibiotic resistance system underlie optimal growth of <i>E. coli</i> . <i>BMC Systems Biology</i> , 2012, 6, 48.	3.0	42
30	Mechanism-independent method for predicting response to multidrug combinations in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12254-12259.	3.3	126
31	Synchrony and Critical Behavior: Equilibrium Universality in Nonequilibrium Stochastic Oscillators. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	2
32	Continuous and discontinuous phase transitions and partial synchronization in stochastic three-state oscillators. <i>Physical Review E</i> , 2007, 76, 041132.	0.8	34
33	Effects of disorder on synchronization of discrete phase-coupled oscillators. <i>Physical Review E</i> , 2007, 75, 041107.	0.8	26
34	Noise-induced phase transitions in field-dependent relaxational dynamics: The Gaussian ansatz. <i>Physical Review E</i> , 2007, 76, 051111.	0.8	1
35	Fluctuation theorem for entropy production during effusion of an ideal gas with momentum transfer. <i>Physical Review E</i> , 2007, 75, 061116.	0.8	7
36	Universality of Synchrony: Critical Behavior in a Discrete Model of Stochastic Phase-Coupled Oscillators. <i>Physical Review Letters</i> , 2006, 96, 145701.	2.9	60

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37	Noise-induced oscillatory behavior in field-dependent relaxational dynamics. Physical Review E, 2006, 73, 042101.	0.8	3
38	Critical behavior and synchronization of discrete stochastic phase-coupled oscillators. Physical Review E, 2006, 74, 031113.	0.8	37
39	Comprehensive study of pattern formation in relaxational systems. Physical Review E, 2006, 73, 022101.	0.8	18