

Volkmar Liebscher

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,102
citations

471509

17
h-index

414414

32
g-index

70
all docs

70
docs citations

70
times ranked

1793
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation in the multinomial reencounter model - Where do migrating animals go and how do they survive in their destination area?. <i>Journal of Theoretical Biology</i> , 2022, , 111108.	1.7	1
2	Detection of <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> in Cultures From Fecal and Tissue Samples Using VOC Analysis and Machine Learning Tools. <i>Frontiers in Veterinary Science</i> , 2021, 8, 620327.	2.2	7
3	Seagull: lasso, group lasso and sparse-group lasso regularization for linear regression models via proximal gradient descent. <i>BMC Bioinformatics</i> , 2020, 21, 407.	2.6	14
4	Non-invasive and label-free 3D-visualization shows in vivo oligomerization of the staphylococcal alkaline shock protein 23 (Asp23). <i>Scientific Reports</i> , 2020, 10, 125.	3.3	8
5	Simultaneous Credible Regions for Multiple Changepoint Locations. <i>Journal of Computational and Graphical Statistics</i> , 2019, 28, 290-298.	1.7	0
6	The Rosenzweigâ€“MacArthur system via reduction of an individual based model. <i>Journal of Mathematical Biology</i> , 2019, 78, 413-439.	1.9	3
7	Substrate specificity of thioredoxins and glutaredoxins â€“ towards a functional classification. <i>Heliyon</i> , 2019, 5, e02943.	3.2	28
8	New Gromov-Inspired Metrics on Phylogenetic Tree Space. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 493-518.	1.9	3
9	An approximate Bayesian significance test for genomic evaluations. <i>Biometrical Journal</i> , 2018, 60, 1096-1109.	1.0	2
10	Strategies for the identification of disease-related patterns of volatile organic compounds: prediction of paratuberculosis in an animal model using random forests. <i>Journal of Breath Research</i> , 2017, 11, 047105.	3.0	13
11	Revealing complex function, process and pathway interactions with high-throughput expression and biological annotation data. <i>Molecular BioSystems</i> , 2016, 12, 3196-3208.	2.9	0
12	Costs of life - Dynamics of the protein inventory of <i>Staphylococcus aureus</i> during anaerobiosis. <i>Scientific Reports</i> , 2016, 6, 28172.	3.3	38
13	A matter of dispersal: REVEALSinR introduces state-of-the-art dispersal models to quantitative vegetation reconstruction. <i>Vegetation History and Archaeobotany</i> , 2016, 25, 541-553.	2.1	52
14	An efficient level set method for simultaneous intensity inhomogeneity correction and segmentation of MR images. <i>Computerized Medical Imaging and Graphics</i> , 2016, 48, 9-20.	5.8	28
15	Associations of circulating plasma microRNAs with age, body mass index and sex in a population-based study. <i>BMC Medical Genomics</i> , 2015, 8, 61.	1.5	133
16	The relation of spatial and tensor product of Arveson systems â€” the random set point of view. <i>Infinite Dimensional Analysis, Quantum Probability and Related Topics</i> , 2015, 18, 1550029.	0.5	1
17	Microarrayâ€“based identification of human antibodies against <i>Staphylococcus aureus</i> antigens. <i>Proteomics - Clinical Applications</i> , 2015, 9, 1003-1011.	1.6	21
18	Solving a class of linear Skorokhod stochastic differential equations. <i>Communications on Stochastic Analysis</i> , 2015, 9, .	0.1	0

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19	A Level Set Based Framework for Quantitative Evaluation of Breast Tissue Density from MRI Data. PLoS ONE, 2014, 9, e112709.	2.5	19
20	CellFateScout – a bioinformatics tool for elucidating small molecule signaling pathways that drive cells in a specific direction. Cell Communication and Signaling, 2013, 11, 85.	6.5	3
21	A fast global variational bias field correction method for MR images. , 2013, , .		5
22	An approach to model monitoring and surveillance data of wildlife diseases – Exemplified by Classical Swine Fever in wild boar. Preventive Veterinary Medicine, 2013, 112, 355-369.	1.9	3
23	Complexity L0-Penalized M-Estimation: Consistency in More Dimensions. Axioms, 2013, 2, 311-344.	1.9	1
24	Identifying Genes Relevant to Specific Biological Conditions in Time Course Microarray Experiments. PLoS ONE, 2013, 8, e76561.	2.5	1
25	Piecewise-Deterministic Markov Processes as Limits of Markov Jump Processes. Advances in Applied Probability, 2012, 44, 729-748.	0.7	9
26	Piecewise-Deterministic Markov Processes as Limits of Markov Jump Processes. Advances in Applied Probability, 2012, 44, 729-748.	0.7	8
27	An algebraic analysis of the two state Markov model on tripod trees. Mathematical Biosciences, 2012, 237, 38-48.	1.9	8
28	Prior Shape Level Set Segmentation on Multistep Generated Probability Maps of MR Datasets for Fully Automatic Kidney Parenchyma Volumetry. IEEE Transactions on Medical Imaging, 2012, 31, 312-325.	8.9	39
29	On a Class of Deterministic Population Models with Stochastic Foundation. Bulletin of Mathematical Biology, 2011, 73, 1559-1582.	1.9	5
30	The spatial product of Arveson systems is intrinsic. Journal of Functional Analysis, 2011, 260, 566-573.	1.4	3
31	Autocatalytic genetic networks modeled by piecewise-deterministic Markov processes. Journal of Mathematical Biology, 2010, 60, 207-246.	1.9	19
32	Subsystems of Fock need not be Fock: Spatial CP-semigroups. Proceedings of the American Mathematical Society, 2010, 138, 2443-2456.	0.8	11
33	Consistencies and rates of convergence of jump-penalized least squares estimators. Annals of Statistics, 2009, 37, .	2.6	102
34	Hybrid Modeling of Noise Reduction by a Negatively Autoregulated System. Bulletin of Mathematical Biology, 2009, 71, 1006-1024.	1.9	8
35	Random sets and invariants for (type II) continuous tensor product systems of Hilbert spaces. Memoirs of the American Mathematical Society, 2009, 199, 0-0.	0.9	16
36	Complexity penalized least squares estimators: Analytical results. Mathematische Nachrichten, 2008, 281, 582-595.	0.8	14

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37	Transcription, intercellular variability and correlated random walk. <i>Mathematical Biosciences</i> , 2008, 216, 30-39.	1.9	10
38	Simulation of genetic networks modelled by piecewise deterministic Markov processes. <i>IET Systems Biology</i> , 2008, 2, 113.	1.5	46
39	Complexity Penalized M-Estimation. <i>Journal of Computational and Graphical Statistics</i> , 2008, 17, 201-224.	1.7	52
40	Constructing units in product systems. <i>Proceedings of the American Mathematical Society</i> , 2008, 136, 989-997.	0.8	4
41	Modeling the Hes1 Oscillator. <i>Journal of Computational Biology</i> , 2007, 14, 984-1000.	1.6	44
42	Copy-Number Variations Measured by Single-Nucleotide Polymorphism Oligonucleotide Arrays in Patients with Mental Retardation. <i>American Journal of Human Genetics</i> , 2007, 81, 768-779.	6.2	114
43	Scale space consistency of piecewise constant least squares estimators – another look at the regressogram. , 2007, , 65-84.		7
44	An Elementary Rigorous Introduction to Exact Sampling. , 2005, , 143-161.		4
45	A LIMIT THEOREM FOR CONDITIONALLY INDEPENDENT BEAM SPLITTINGS. , 2005, , .		2
46	Parsimonious Segmentation of Time Series by Potts Models. , 2005, , 295-302.		7
47	Evaluation of the chicken transcriptome by SAGE of B cells and the DT40 cell line. <i>BMC Genomics</i> , 2004, 5, 98.	2.8	12
48	Type I product systems of Hilbert modules. <i>Journal of Functional Analysis</i> , 2004, 212, 121-181.	1.4	61
49	On exchange mechanisms for bosons. <i>Random Operators and Stochastic Equations</i> , 2004, 12, 331-348.	0.1	0
50	Specificity assessment from fractionation experiments (SAFE): a novel method to evaluate microarray probe specificity based on hybridisation stringencies. <i>Nucleic Acids Research</i> , 2003, 31, 1e-1.	14.5	38
51	MARKOVIANITY OF QUANTUM RANDOM FIELDS IN THE $\mathcal{B}(\mathcal{H})$ CASE. , 2003, , .		2
52	ISOMETRIC COCYCLES RELATED TO BEAM SPLITTINGS. , 2003, , .		0
53	On the mean value of probability measures on circular graphs. <i>Resultate Der Mathematik</i> , 2001, 39, 58-90.	0.2	0
54	A Limit Theorem for Quantum Markov Chains Associated to Beam Splittings. <i>Open Systems and Information Dynamics</i> , 2001, 08, 261-290.	1.2	0

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55	UNITS FOR THE TIME-ORDERED FOCK MODULE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2001, 04, 545-551.	0.5	6
56	HOW TO GENERATE MARKOVIAN COCYCLES ON BOSON FOCK SPACE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2001, 04, 215-219.	0.5	9
57	Characterization of Classical and Quantum Poisson Systems by Thinnings and Splittings. Mathematische Nachrichten, 2000, 218, 25-47.	0.8	3
58	QUANTIFICATION OF BIOFILMS IN MULTI-SPECTRAL DIGITAL VOLUMES FROM CONFOCAL LASER-SCANNING MICROSCOPES. Image Analysis and Stereology, 2000, 19, 151.	0.9	9
59	Quantitative Analyse eines von Protozoen erzeugten Strömungsfeldes. Informatik Aktuell, 2000, , 405-411.	0.6	0
60	Characterization of Classical and Quantum Poisson Systems by Thinnings and Splittings. Mathematische Nachrichten, 2000, 218, 25-47.	0.8	0
61	ON A CENTRAL LIMIT THEOREM FOR MONOTONE NOISE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 155-167.	0.5	8
62	NOTE ON ENTANGLED ERGODIC THEOREMS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 301-304.	0.5	9
63	MARKOVIAN KMS-STATES FOR ONE-DIMENSIONAL SPIN CHAINS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 645-661.	0.5	26
64	On relative boundedness in operator spaces. Reports on Mathematical Physics, 1999, 44, 339-344.	0.8	0
65	Diagonal versions and quantum stochastic integrals on the symmetric Fock space with nonadapted integrands. Probability Theory and Related Fields, 1998, 112, 255-295.	1.8	1
66	A generalization of the conservation integral. Banach Center Publications, 1998, 43, 273-284.	0.1	1
67	MULTIPLE INTEGRALS AND THE ISOMORPHISM BETWEEN A GENERAL WHITE NOISE SPACE AND A SYMMETRIC FOCK SPACE. QP-PQ, Quantum Probability and White Noise Analysis, 1998, , 245-259.	0.1	0
68	On the Isomorphism of Poisson Space and Symmetric Fock Space. QP-PQ, Quantum Probability and White Noise Analysis, 1994, , 295-300.	0.1	1
69	Conditional Local States and Decomposition of Locally Normal States. Mathematische Nachrichten, 1993, 164, 103-117.	0.8	0