Volkmar Liebscher

List of Publications by Year
in descending order

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	Associations of circulating plasma microRNAs with age, body mass index and sex in a population-based study. BMC Medical Genomics, 2015, 8, 61.	1.5	133
2	Copy-Number Variations Measured by Single-Nucleotideâ€"Polymorphism Oligonucleotide Arrays in Patients with Mental Retardation. American Journal of Human Genetics, 2007, 81, 768-779.	6.2	114
3	Consistencies and rates of convergence of jump-penalized least squares estimators. Annals of Statistics, 2009, 37, .	2.6	102
4	Type I product systems of Hilbert modules. Journal of Functional Analysis, 2004, 212, 121-181.	1.4	61
5	Complexity Penalized M-Estimation. Journal of Computational and Graphical Statistics, 2008, 17, 201-224.	1.7	52
6	A matter of dispersal: REVEALSinR introduces state-of-the-art dispersal models to quantitative vegetation reconstruction. Vegetation History and Archaeobotany, 2016, 25, 541-553.	2.1	52
7	Simulation of genetic networks modelled by piecewise deterministic Markov processes. IET Systems Biology, 2008, 2, 113.	1.5	46
8	Modeling the Hes1 Oscillator. Journal of Computational Biology, 2007, 14, 984-1000.	1.6	44
9	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
10	Specificity assessment from fractionation experiments (SAFE): a novel method to evaluate microarray probe specificity based on hybridisation stringencies. Nucleic Acids Research, 2003, 31, 1e-1.	14.5	38
11	Costs of life - Dynamics of the protein inventory of Staphylococcus aureus during anaerobiosis. Scientific Reports, 2016, 6, 28172.	3.3	38
12	An efficient level set method for simultaneous intensity inhomogeneity correction and segmentation of MR images. Computerized Medical Imaging and Graphics, 2016, 48, 9-20.	5.8	28
13	Substrate specificity of thioredoxins and glutaredoxins â€" towards a functional classification. Heliyon, 2019, 5, e02943.	3.2	28
14	MARKOVIAN KMS-STATES FOR ONE-DIMENSIONAL SPIN CHAINS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 645-661.	0.5	26
15	Microarrayâ€based identification of human antibodies against <i>Staphylococcus aureus</i> antigens. Proteomics - Clinical Applications, 2015, 9, 1003-1011.	1.6	21
16	Autocatalytic genetic networks modeled by piecewise-deterministic Markov processes. Journal of Mathematical Biology, 2010, 60, 207-246.	1.9	19
17	A Level Set Based Framework for Quantitative Evaluation of Breast Tissue Density from MRI Data. PLoS ONE, 2014, 9, e112709.	2.5	19
18	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

#	Article	IF	Citations
19	Complexity penalized least squares estimators: Analytical results. Mathematische Nachrichten, 2008, 281, 582-595.	0.8	14
20	Seagull: lasso, group lasso and sparse-group lasso regularization for linear regression models via proximal gradient descent. BMC Bioinformatics, 2020, 21, 407.	2.6	14
21	Strategies for the identification of disease-related patterns of volatile organic compounds: prediction of paratuberculosis in an animal model using random forests. Journal of Breath Research, 2017, 11, 047105.	3.0	13
22	Evaluation of the chicken transcriptome by SAGE of B cells and the DT40 cell line. BMC Genomics, 2004, 5, 98.	2.8	12
23	Subsystems of Fock need not be Fock: Spatial CP-semigroups. Proceedings of the American Mathematical Society, 2010, 138, 2443-2456.	0.8	11
24	Transcription, intercellular variability and correlated random walk. Mathematical Biosciences, 2008, 216, 30-39.	1.9	10
25	NOTE ON ENTANGLED ERGODIC THEOREMS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 301-304.	0.5	9
26	HOW TO GENERATE MARKOVIAN COCYCLES ON BOSON FOCK SPACE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2001, 04, 215-219.	0.5	9
27	Piecewise-Deterministic Markov Processes as Limits of Markov Jump Processes. Advances in Applied Probability, 2012, 44, 729-748.	0.7	9
28	QUANTIFICATION OF BIOFILMS IN MULTI-SPECTRAL DIGITAL1 VOLUMES FROM CONFOCAL LASER-SCANNING MICROSCOPES. Image Analysis and Stereology, 2000, 19, 151.	0.9	9
29	ON A CENTRAL LIMIT THEOREM FOR MONOTONE NOISE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 155-167.	0.5	8
30	Hybrid Modeling of Noise Reduction by a Negatively Autoregulated System. Bulletin of Mathematical Biology, 2009, 71, 1006-1024.	1.9	8
31	Piecewise-Deterministic Markov Processes as Limits of Markov Jump Processes. Advances in Applied Probability, 2012, 44, 729-748.	0.7	8
32	An algebraic analysis of the two state Markov model on tripod trees. Mathematical Biosciences, 2012, 237, 38-48.	1.9	8
33	Non-invasive and label-free 3D-visualization shows in vivo oligomerization of the staphylococcal alkaline shock protein 23 (Asp23). Scientific Reports, 2020, 10, 125.	3.3	8
34	Detection of Mycobacterium avium ssp. paratuberculosis in Cultures From Fecal and Tissue Samples Using VOC Analysis and Machine Learning Tools. Frontiers in Veterinary Science, 2021, 8, 620327.	2.2	7
35	Scale space consistency of piecewise constant least squares estimators â€" another look at the regressogram. , 2007, , 65-84.		7
36	Parsimonious Segmentation of Time Series by Potts Models. , 2005, , 295-302.		7

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37	UNITS FOR THE TIME-ORDERED FOCK MODULE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2001, 04, 545-551.	0.5	6
38	On a Class of Deterministic Population Models withÂStochastic Foundation. Bulletin of Mathematical Biology, 2011, 73, 1559-1582.	1.9	5
39	A fast global variational bias field correction method for MR images. , 2013, , .		5
40	An Elementary Rigorous Introduction to Exact Sampling. , 2005, , 143-161.		4
41	Constructing units in product systems. Proceedings of the American Mathematical Society, 2008, 136, 989-997.	0.8	4
42	Characterization of Classical and Quantum Poisson Systems by Thinnings and Splittings. Mathematische Nachrichten, 2000, 218, 25-47.	0.8	3
43	The spatial product of Arveson systems is intrinsic. Journal of Functional Analysis, 2011, 260, 566-573.	1.4	3
44	CellFateScout â€" 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
45	An approach to model monitoring and surveillance data of wildlife diseasesâ€"Exemplified by Classical Swine Fever in wild boar. Preventive Veterinary Medicine, 2013, 112, 355-369.	1.9	3
46	New Gromov-Inspired Metrics on Phylogenetic Tree Space. Bulletin of Mathematical Biology, 2018, 80, 493-518.	1.9	3
47	The Rosenzweigâ€"MacArthur system via reduction of an individual based model. Journal of Mathematical Biology, 2019, 78, 413-439.	1.9	3
48	An approximate Bayesian significance test for genomic evaluations. Biometrical Journal, 2018, 60, 1096-1109.	1.0	2
49	A LIMIT THEOREM FOR CONDITIONALLY INDEPENDENT BEAM SPLITTINGS. , 2005, , .		2
50	MARKOVIANITY OF QUANTUM RANDOM FIELDS IN THE ${mathcal B}({mathcal H})$ CASE. , 2003, , .		2
51	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
52	Complexity L0-Penalized M-Estimation: Consistency in More Dimensions. Axioms, 2013, 2, 311-344.	1.9	1
53	Identifying Genes Relevant to Specific Biological Conditions in Time Course Microarray Experiments. PLoS ONE, 2013, 8, e76561.	2.5	1
54	The relation of spatial and tensor product of Arveson systems â€" the random set point of view. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2015, 18, 1550029.	0.5	1

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55	On the Isomorphism of Poisson Space and Symmetric Fock Space. QP-PQ, Quantum Probability and White Noise Analysis, 1994, , 295-300.	0.1	1
56	A generalization of the conservation integral. Banach Center Publications, 1998, 43, 273-284.	0.1	1
57	Estimation in the multinomial reencounter model - Where do migrating animals go and how do they survive in their destination area?. Journal of Theoretical Biology, 2022, , 111108.	1.7	1
58	Conditional Local States and Decomposition of Locally Normal States. Mathematische Nachrichten, 1993, 164, 103-117.	0.8	0
59	On relative boundedness in operator spaces. Reports on Mathematical Physics, 1999, 44, 339-344.	0.8	0
60	On the mean value of probability measures on circular graphs. Resultate Der Mathematik, 2001, 39, 58-90.	0.2	0
61	A Limit Theorem for Quantum Markov Chains Associated to Beam Splittings. Open Systems and Information Dynamics, 2001, 08, 261-290.	1.2	0
62	Revealing complex function, process and pathway interactions with high-throughput expression and biological annotation data. Molecular BioSystems, 2016, 12, 3196-3208.	2.9	0
63	Simultaneous Credible Regions for Multiple Changepoint Locations. Journal of Computational and Graphical Statistics, 2019, 28, 290-298.	1.7	0
64	Quantitative Analyse eines von Protozoen erzeugten Strömungsfeldes. Informatik Aktuell, 2000, , 405-411.	0.6	0
65	ISOMETRIC COCYCLES RELATED TO BEAM SPLITTINGS. , 2003, , .		0
66	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
67	Solving a class of linear Skorokhod stochastic differential equations. Communications on Stochastic Analysis, 2015, 9, .	0.1	0
68	Characterization of Classical and Quantum Poisson Systems by Thinnings and Splittings. Mathematische Nachrichten, 2000, 218, 25-47.	0.8	0
69	On exchange mechanisms for bosons. Random Operators and Stochastic Equations, 2004, 12, 331-348.	0.1	0