

Markus Reischl

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

3,088
citations

201674

27
h-index

182427

51
g-index

126
all docs

126
docs citations

126
times ranked

6673
citing authors

#	ARTICLE	IF	CITATIONS
1	Autophagy Impairment in Muscle Induces Neuromuscular Junction Degeneration and Precocious Aging. <i>Cell Reports</i> , 2014, 8, 1509-1521.	6.4	309
2	Zebrafish embryos as models for embryotoxic and teratological effects of chemicals. <i>Reproductive Toxicology</i> , 2009, 28, 245-253.	2.9	240
3	SOX2 gene amplification and protein overexpression are associated with better outcome in squamous cell lung cancer. <i>Modern Pathology</i> , 2011, 24, 944-953.	5.5	177
4	Automated high-throughput mapping of promoter-enhancer interactions in zebrafish embryos. <i>Nature Methods</i> , 2009, 6, 911-916.	19.0	123
5	Sympathetic innervation controls homeostasis of neuromuscular junctions in health and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 746-750.	7.1	123
6	ERG rearrangement is specific to prostate cancer and does not occur in any other common tumor. <i>Modern Pathology</i> , 2010, 23, 1061-1067.	5.5	114
7	Data mining tools. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2011, 1, 431-443.	6.8	100
8	SOX2 amplification is a common event in squamous cell carcinomas of different organ sites. <i>Human Pathology</i> , 2011, 42, 1078-1088.	2.0	99
9	Role of autophagy, SQSTM1, SH3GLB1, and TRIM63 in the turnover of nicotinic acetylcholine receptors. <i>Autophagy</i> , 2014, 10, 123-136.	9.1	86
10	Targeting Mycobacterium tuberculosis and Other Microbial Pathogens Using Improved Synthetic Antibacterial Peptides. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2295-2303.	3.2	72
11	mTORC1 and PKB/Akt control the muscle response to denervation by regulating autophagy and HDAC4. <i>Nature Communications</i> , 2019, 10, 3187.	12.8	71
12	ERG rearrangement in small cell prostatic and lung cancer. <i>Histopathology</i> , 2010, 56, 937-943.	2.9	64
13	Dysferlin-mediated phosphatidylserine sorting engages macrophages in sarcolemma repair. <i>Nature Communications</i> , 2016, 7, 12875.	12.8	61
14	A hydraulically driven multifunctional prosthetic hand. <i>Robotica</i> , 2005, 23, 293-299.	1.9	59
15	A novel brain tumour model in zebrafish reveals the role of YAP activation in MAPK/PI3K induced malignant growth. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 15-28.	2.4	58
16	Improving short antimicrobial peptides despite elusive rules for activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1024-1033.	2.6	57
17	Genome-wide, whole mount in situ analysis of transcriptional regulators in zebrafish embryos. <i>Developmental Biology</i> , 2013, 380, 351-362.	2.0	54
18	Frequency and clinicopathologic correlates of KRAS amplification in non-small cell lung carcinoma. <i>Lung Cancer</i> , 2011, 74, 118-123.	2.0	53

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19	Myosin Va cooperates with PKA R11± to mediate maintenance of the endplate in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2031-2036.	7.1	52
20	Automatic Zebrafish Heartbeat Detection and Analysis for Zebrafish Embryos. Zebrafish, 2014, 11, 379-383.	1.1	49
21	Machine learning with domain knowledge for predictive quality monitoring in resistance spot welding. Journal of Intelligent Manufacturing, 2022, 33, 1139-1163.	7.3	46
22	Road surface prediction from acoustical measurements in the tire cavity using support vector machine. Applied Acoustics, 2017, 125, 41-48.	3.3	43
23	A Novel Optical Tissue Clearing Protocol for Mouse Skeletal Muscle to Visualize Endplates in Their Tissue Context. Frontiers in Cellular Neuroscience, 2019, 13, 49.	3.7	39
24	Comparison of surface EMG monitoring electrodes for long-term use in rehabilitation device control. , 2009, , .		38
25	Rapsyn mediates subsynaptic anchoring of PKA type I and stabilisation of acetylcholine receptor in vivo. Journal of Cell Science, 2012, 125, 714-723.	2.0	38
26	Night-to-Day: Online Image-to-Image Translation for Object Detection Within Autonomous Driving by Night. IEEE Transactions on Intelligent Vehicles, 2021, 6, 480-489.	12.7	36
27	OrthoJacket: an active FES-hybrid orthosis for the paralysed upper extremity. Biomedizinische Technik, 2011, 56, 35-44.	0.8	35
28	Relevance of cohort design for studying the frequency of the ERG rearrangement in prostate cancer. Histopathology, 2011, 58, 1028-1036.	2.9	33
29	Small angle X-ray scattering as a high-throughput method to classify antimicrobial modes of action. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 918-925.	2.6	33
30	XPIWITâ€™an XML pipeline wrapper for the Insight Toolkit. Bioinformatics, 2016, 32, 315-317.	4.1	28
31	Evaluation of the Droplet-Microarray Platform for High-Throughput Screening of Suspension Cells. SLAS Technology, 2017, 22, 163-175.	1.9	25
32	Droplet microarray: miniaturized platform for rapid formation and high-throughput screening of embryoid bodies. Lab on A Chip, 2018, 18, 2257-2269.	6.0	25
33	A Novel Labeling Approach Identifies Three Stability Levels of Acetylcholine Receptors in the Mouse Neuromuscular Junction In Vivo. PLoS ONE, 2011, 6, e20524.	2.5	23
34	Facilitating Drug Discovery: An Automated High-content Inflammation Assay in Zebrafish. Journal of Visualized Experiments, 2012, , e4203.	0.3	23
35	Benchmarking in classification and regression. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1318.	6.8	23
36	Participation of Myosin Va and Pka Type I in the Regeneration of Neuromuscular Junctions. PLoS ONE, 2012, 7, e40860.	2.5	22

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37	Photovoltaic power forecasting using simple data-driven models without weather data. <i>Computer Science - Research and Development</i> , 2017, 32, 237-246.	2.7	22
38	Steer by ear: Myoelectric auricular control of powered wheelchairs for individuals with spinal cord injury. <i>Restorative Neurology and Neuroscience</i> , 2015, 34, 79-95.	0.7	21
39	Clinical and Molecular Implications of MED15 in Head and Neck Squamous Cell Carcinoma. <i>American Journal of Pathology</i> , 2015, 185, 1114-1122.	3.8	21
40	Prognostic Value of the New Prostate Cancer International Society of Urological Pathology Grade Groups. <i>Frontiers in Medicine</i> , 2017, 4, 157.	2.6	21
41	A Zebrafish Drug-Repurposing Screen Reveals sGC-Dependent and sGC-Independent Pro-Inflammatory Activities of Nitric Oxide. <i>PLoS ONE</i> , 2015, 10, e0137286.	2.5	20
42	The HMG box transcription factors Sox1a and b specify a new class of glycinergic interneurons in the spinal cord of zebrafish embryos. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	20
43	Machine learning methods for automated classification of tumors with papillary thyroid carcinoma-like nuclei: A quantitative analysis. <i>PLoS ONE</i> , 2021, 16, e0257635.	2.5	18
44	Equilibrium droplet shapes on chemically patterned surfaces: theoretical calculation, phase-field simulation, and experiments. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1077-1086.	9.4	18
45	Automatic adaptation of a self-adhesive multi-electrode array for active wrist joint stabilization in tetraplegic SCI individuals. , 2009, , .		17
46	The tumor-associated YB-1 protein: new player in the circadian control of cell proliferation. <i>Oncotarget</i> , 2017, 8, 6193-6205.	1.8	17
47	Automated phenotype pattern recognition of zebrafish for high-throughput screening. <i>Bioengineered</i> , 2016, 7, 261-265.	3.2	16
48	Data mining tools. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019, 9, e1309.	6.8	16
49	Comparison of PD-L1 expression between paired cytologic and histologic specimens from non-small cell lung cancer patients. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2020, 476, 261-271.	2.8	15
50	High-throughput Screening of Cell Transfection Enhancers Using Miniaturized Droplet Microarrays. <i>Advanced Biology</i> , 2020, 4, e1900257.	3.0	14
51	Enhancing deep-learning training for phase identification in powder X-ray diffractograms. <i>IUCr</i> , 2021, 8, 408-420.	2.2	13
52	Performance of Different Diagnostic PD-L1 Clones in Head and Neck Squamous Cell Carcinoma. <i>Frontiers in Medicine</i> , 2021, 8, 640515.	2.6	13
53	A hybrid auricular control system: direct, simultaneous, and proportional myoelectric control of two degrees of freedom in prosthetic hands. <i>Journal of Neural Engineering</i> , 2018, 15, 056028.	3.5	12
54	Data mining in medical time series. <i>Biomedizinische Technik</i> , 2006, 51, 288-293.	0.8	11

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55	Miniaturized Drug Sensitivity and Resistance Test on Patient-Derived Cells Using Droplet-Microarray. SLAS Technology, 2021, 26, 274-286.	1.9	11
56	Data Mining zur Analyse der Auswirkungen von Preissignalen auf Haushaltsstromkunden. Automatisierungstechnik, 2014, 62, 740-752.	0.8	10
57	Machine Learning Methods for Automated Quantification of Ventricular Dimensions. Zebrafish, 2019, 16, 542-545.	1.1	10
58	Distinct amino acid motifs carrying multiple positive charges regulate membrane targeting of dysferlin and MG53. PLoS ONE, 2018, 13, e0202052.	2.5	9
59	DIY Automated Feeding and Motion Recording System for the Analysis of Fish Behavior. SLAS Technology, 2019, 24, 394-398.	1.9	9
60	Automated Annotator Variability Inspection for Biomedical Image Segmentation. IEEE Access, 2022, 10, 2753-2765.	4.2	9
61	Takagi–Sugeno–Kang Fuzzy Classifiers for a Special Class of Time-Varying Systems. IEEE Transactions on Fuzzy Systems, 2008, 16, 1038-1049.	9.8	8
62	Designing Inherently Photodegradable Cell-Adhesive Hydrogels for 3D Cell Culture. Advanced Healthcare Materials, 2021, 10, e2100632.	7.6	8
63	Long photoperiod impairs learning in male but not female medaka. IScience, 2021, 24, 102784.	4.1	8
64	Genetic Algorithm for the Optimal LiDAR Sensor Configuration on a Vehicle. IEEE Sensors Journal, 2022, 22, 2735-2743.	4.7	8
65	Automated prior knowledge-based quantification of neuronal patterns in the spinal cord of zebrafish. Bioinformatics, 2014, 30, 726-733.	4.1	7
66	Evaluation of data mining approaches for the control of multifunctional arm prostheses. Integrated Computer-Aided Engineering, 2011, 18, 235-249.	4.6	6
67	Demand response clustering - How do dynamic prices affect household electricity consumption?. , 2015, , .		6
68	Semi-automated detection of fractional shortening in zebrafish embryo heart videos. Current Directions in Biomedical Engineering, 2016, 2, 233-236.	0.4	6
69	Virtual Storages as Theoretically Motivated Demand Response Models for Enhanced Smart Grid Operations. Energy Technology, 2016, 4, 163-176.	3.8	6
70	Strategies for supplementing recurrent neural network training for spatio-temporal prediction. Automatisierungstechnik, 2019, 67, 545-556.	0.8	6
71	Cuepervision: self-supervised learning for continuous domain adaptation without catastrophic forgetting. Image and Vision Computing, 2021, 106, 104079.	4.5	6
72	Methods for Automated High-Throughput Toxicity Testing Using Zebrafish Embryos. Lecture Notes in Computer Science, 2010, , 219-226.	1.3	6

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73	â€œCellsâ€œtoâ€œDNA on Chipâ€œ: Phenotypic Assessment and Gene Expression Analysis from Live Cells in Nanoliter Volumes Using Droplet Microarrays. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102493.	7.6	6
74	Optimized classification of multiclass problems applied to EMG-control of hand prostheses. , 2004, , .		5
75	Information Fusion of Image Analysis, Video Object Tracking, and Data Mining of Biological Images using the Open Source MATLAB Toolbox Gait-CAD. <i>Biomedizinische Technik</i> , 2012, 57, .	0.8	5
76	Automatic Tuning of Image Segmentation Parameters by Means of Fuzzy Feature Evaluation. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 459-467.	0.6	5
77	Characterization of Road Condition with Data Mining Based on Measured Kinematic Vehicle Parameters. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-10.	1.7	5
78	Automated design process for hybrid regression modeling with a one-class SVM. <i>Automatisierungstechnik</i> , 2019, 67, 843-852.	0.8	5
79	Signal processing concepts for optimal myoelectric sensor placement in a modular hybrid FES orthosis. <i>IFMBE Proceedings</i> , 2009, , 1816-1819.	0.3	5
80	A Benchmark Data Set to Evaluate the Illumination Robustness of Image Processing Algorithms for Object Segmentation and Classification. <i>PLoS ONE</i> , 2015, 10, e0131098.	2.5	5
81	Systematic assessment of the biocompatibility of materials for inkjet-printed ozone sensors for medical therapy. <i>Flexible and Printed Electronics</i> , 2021, 6, 043003.	2.7	5
82	Simple assessment of viability in 2D and 3D cell microarrays using single step digital imaging. <i>SLAS Technology</i> , 2022, 27, 44-53.	1.9	5
83	Methods for the frugal labeler: Multi-class semantic segmentation on heterogeneous labels. <i>PLoS ONE</i> , 2022, 17, e0263656.	2.5	5
84	Concept of a Co-Adaptive Training Environment for Human-Machine Interfaces Based on EMG-Control. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	4
85	Domain is of the Essence: Data Deployment for City-Scale Multi-Camera Vehicle Re-Identification. , 2019, , .		4
86	BeadNet: deep learning-based bead detection and counting in low-resolution microscopy images. <i>Bioinformatics</i> , 2020, 36, 4668-4670.	4.1	4
87	Grid Screener: A Tool for Automated High-Throughput Screening on Biochemical and Biological Analysis Platforms. <i>IEEE Access</i> , 2021, 9, 166027-166038.	4.2	4
88	Cortical representation of auricular muscles in humans: A robot-controlled TMS mapping and fMRI study. <i>PLoS ONE</i> , 2018, 13, e0201277.	2.5	3
89	Development of an Experimental Setup for Real-Time In-Line Dissolved Ozone Measurement for Medical Therapy. <i>Ozone: Science and Engineering</i> , 2022, 44, 499-509.	2.5	3
90	An Automated Experimentation System for the Touch-Response Quantification of Zebrafish Larvae. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 3007-3019.	5.2	3

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91	Evaluation of semi-supervised learning using sparse labeling to segment cell nuclei. Current Directions in Biomedical Engineering, 2020, 6, 398-401.	0.4	3
92	Data-Mining-Analysen mit der Matlab-Toolbox Gait-CAD (Data Mining Analyses with the Matlab Toolbox) Tj ETQq0 0.0 rgBT /Overlock 10	0.8	2
93	DaMoQ: Eine Open-Source-MATLAB-Toolbox zur Bewertung von Daten- und ModellqualitÄt in Regressionen. Automatisierungstechnik, 2017, 65, 207-218.	0.8	2
94	ZebrafishMiner: an open source software for interactive evaluation of domain-specific fluorescence in zebrafish. Current Directions in Biomedical Engineering, 2017, 3, 199-202.	0.4	2
95	A New Feedback-Based Method for Parameter Adaptation in Image Processing Routines. PLoS ONE, 2016, 11, e0165180.	2.5	2
96	High-Throughput Data Acquisition Platform for Multi-Larvae Touch-Response Behavior Screening of Zebrafish. IEEE Robotics and Automation Letters, 2022, 7, 858-865.	5.1	2
97	Droplet Microarray Based Screening Identifies Proteins for Maintaining Pluripotency of hiPSCs. Advanced Healthcare Materials, 2022, 11, .	7.6	2
98	Normics: Proteomic Normalization by Variance and Data-Inherent Correlation Structure. Molecular and Cellular Proteomics, 2022, 21, 100269.	3.8	2
99	Regelungs- und Steuerungskonzepte fÄ¼r Neuroprothesen am Beispiel der oberen ExtremitÄten (Closed-) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Automatisierungstechnik, 2006, 54, 523-536.	0.8	1
100	Automatische Klassifikation von Bildzeitreihen fÄ¼r toxikologische Hochdurchsatz-Untersuchungen. Automatisierungstechnik, 2011, 59, 259-268.	0.8	1
101	Methoden zur datengetriebenen Formulierung und Visualisierung von KausalitÄtshypothesen. Automatisierungstechnik, 2012, 60, 630-640.	0.8	1
102	A prototyping environment for evaluation of man-machine interfaces based on electromyographic activity. Biomedizinische Technik, 2012, 57, .	0.8	1
103	Automation strategies for large-scale 3D image analysis. Automatisierungstechnik, 2016, 64, 555-566.	0.8	1
104	Charakterisierung der Fahrbahnbeschaffenheit durch Data Mining von gemessenen kinematischen FahrzeuggrÄ¼en. Automatisierungstechnik, 2017, 65, 867-877.	0.8	1
105	Fuzzy tissue detection for real-time focal control in corneal confocal microscopy. Automatisierungstechnik, 2019, 67, 879-888.	0.8	1
106	CAD-to-real: enabling deep neural networks for 3D pose estimation of electronic control units. Automatisierungstechnik, 2021, 69, 880-891.	0.8	1
107	Kalibrierungs- und Trainingsstrategien zur individuellen Signalgenerierung fÄ¼r die myoelektrische Steuerung technischer Hilfsmittel. TM Technisches Messen, 2015, 82, 411-421.	0.7	1
108	A novel approach to label road defects in video data: semi-automated video analysis. International Journal on Smart Sensing and Intelligent Systems, 2020, 13, 1-9.	0.7	1

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109	ROBUST TRAINING AND CONTROL STRATEGIES FOR THE GRASP TYPE SELECTION OF HAND PROSTHESES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 478-483.	0.4	0
110	Zeitvariante Klassifikatoren zur Steuerung von Brain Machine Interfaces und Neuroprothesen (Time-variant Classifiers to Control Brain Machine Interfaces and Neuroprotheses). Automatisierungstechnik, 2006, 54, 537-545.	0.8	0
111	Gedanken zur Lehre. Automatisierungstechnik, 2007, 55, 266-268.	0.8	0
112	Asphalt Image Miner: Ein Werkzeug zur automatischen Quantifizierung der Gesteinskörnungen in Asphaltproben. Automatisierungstechnik, 2014, 62, 676-683.	0.8	0
113	Control scheme selection in human-machine- interfaces by analysis of activity signals. Current Directions in Biomedical Engineering, 2016, 2, 707-710.	0.4	0
114	A framework for feedback-based segmentation of 3D image stacks. Current Directions in Biomedical Engineering, 2016, 2, 437-441.	0.4	0
115	Einfluss von Trainingseffekten auf die Parameteradaption für Mensch-Maschine-Schnittstellen in der Medizintechnik. Automatisierungstechnik, 2016, 64, 816-826.	0.8	0
116	Motion prediction enables simulated MR-imaging of freely moving model organisms. PLoS Computational Biology, 2019, 15, e1006997.	3.2	0
117	Evaluation of four point cloud similarity measures for the use in autonomous driving. Automatisierungstechnik, 2021, 69, 499-510.	0.8	0
118	Evaluierung von Merkmalen zur Abbildung von Veränderungen in ungeordneten Bilddaten. Automatisierungstechnik, 2021, 69, 892-902.	0.8	0
119	Beispiele für den Einsatz von Automatisierungstechnik bei der Analyse biologischer Modellorganismen. Automatisierungstechnik, 2016, 64, 915-925.	0.8	0
120	epiTracker: A Framework for Highly Reliable Particle Tracking for the Quantitative Analysis of Fish Movements in Tanks. SLAS Technology, 2021, 26, 367-376.	1.9	0