# Thomas Stieglitz

List of Publications by Year
in descending order



| 421 | 14,313 | 24978 | 28224 |
|---|---|---|---|
| papers | citations | 57 h-index | 105 g-index |

| 454 | 454 | 454 | 10404 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Toward higher-performance bionic limbs for wider clinical use. Nature Biomedical Engineering, 2023, 7, 473-485. | 11.6 | 104 |
| 2 | Unilateral transfemoral amputees exhibit altered strength and dynamics of muscular co-activation modulated by visual feedback. Journal of Neural Engineering, 2022, 19, 016024. | 1.8 | 1 |
| 3 | On the longevity of flexible neural interfaces: Establishing biostability of polyimide-based intracortical implants. Biomaterials, 2022, 281, 121372. | 5.7 | 27 |
| 4 | Bidirectional bionic limbs: a perspective bridging technology and physiology. Journal of Neural Engineering, 2022, 19, 013001. | 1.8 | 7 |
| 5 | Poly(3,4â€ethylenedioxythiophene)â€Based Neural Interfaces for Recording and Stimulation: Fundamental Aspects and In Vivo Applications. Advanced Science, 2022, 9, e2104701. | 5.6 | 32 |
| 6 | An optoelectronic neural interface approach for precise superposition of optical and electrical stimulation in flexible array structures. Biosensors and Bioelectronics, 2022, 205, 114090. | 5.3 | 3 |
| 7 | Predicting Corrosion Delamination Failure in Active Implantable Medical Devices: Analytical Model and Validation Strategy. Bioengineering, 2022, 9, 10. | 1.6 | 4 |
| 8 | Why Neurotechnologies? About the Purposes, Opportunities and Limitations of Neurotechnologies in Clinical Applications. Neuroethics, 2021, 14, 5-16. | 1.7 | 17 |
| 9 | Implantable Device Fabrication and Packaging. , 2021, , 1-49. | | 2 |
| 10 | Therapies of the Future. , 2021, , 355-377. | | 0 |
| 11 | Low-frequency electrical stimulation reduces cortical excitability in the human brain. NeuroImage: Clinical, 2021, 31, 102778. | 1.4 | 15 |
| 12 | 3D-Printed Hermetic Alumina Housings. Materials, 2021, 14, 200. | 1.3 | 15 |
| 13 | Reliability of Neural Implantsâ€"Effective Method for Cleaning and Surface Preparation of Ceramics. Micromachines, 2021, 12, 209. | 1.4 | 5 |
| 14 | A Psychometric Platform to Collect Somatosensory Sensations for Neuroprosthetic Use. Frontiers in Medical Technology, 2021, 3, 619280. | 1.3 | 13 |
| 15 | Computational approaches to decode grasping force and velocity level in upper-limb amputee from intraneural peripheral signals. Journal of Neural Engineering, 2021, 18, 055001. | 1.8 | 12 |
| 16 | Neurotech-Ethics: Suggestions for the Way Forward. , 2021, , . | | 0 |
| 17 | A stepping stone to enable preclinical evaluation of multimodal thin-film probes in small animal models. , 2021, , . | | 0 |
| 18 | An Optimized EEG-Based Seizure Detection Algorithm for Implantable Devices. , 2021, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | On the Stability of Porous Platinum Coatings for In-Ear EEG Applications. , 2021, , . | | 0 |
| 20 | Prediction of Speech Onset by Micro-Electrocorticography of the Human Brain. International Journal of Neural Systems, 2021, 31, 2150025. | 3.2 | 6 |
| 21 | Numerical Evaluation on Residual Thermal Stress-Induced Delamination at PDMSâ€“Metal Interface of Neural Prostheses. Micromachines, 2021, 12, 669. | 1.4 | 4 |
| 22 | Extraction of Radial-Artery Strain and Stiffness by Using Noninvasive Ultrasound and a Low-Power Peak Detector. , 2021, 5, 1-4. | | 1 |
| 23 | Editorial: Wearable and Implantable Technologies in the Rehabilitation of Patients With Sensory Impairments. Frontiers in Neuroscience, 2021, 15, 740263. | 1.4 | 0 |
| 24 | Carbon-based neural electrodes: promises and challenges. Journal of Neural Engineering, 2021, 18, 041007. | 1.8 | 29 |
| 25 | Radium isotopes as submarine groundwater discharge (SGD) tracers: Review and recommendations. Earth-Science Reviews, 2021, 220, 103681. | 4.0 | 51 |
| 26 | Influence of Augmented Visual Feedback on Balance Control in Unilateral Transfemoral Amputees. Frontiers in Neuroscience, 2021, 15, 727527. | 1.4 | 4 |
| 27 | New Stimulation Device to Drive Multiple Transverse Intrafascicular Electrodes and Achieve Highly Selective and Rich Neural Responses. Sensors, 2021, 21, 7219. | 2.1 | 6 |
| 28 | Intrafascicular peripheral nerve stimulation produces fine functional hand movements in primates. Science Translational Medicine, 2021, 13, eabg6463. | 5.8 | 30 |
| 29 | Transcriptional characterization of the glial response due to chronic neural implantation of flexible microprobes. Biomaterials, 2021, 279, 121230. | 5.7 | 12 |
| 30 | Real-Time Multirate Filtering of Digitized Torque Signals on Tiva Microcontroller using Fixed-Point Design with MATLAB. Current Directions in Biomedical Engineering, 2021, 7, 717-720. | 0.2 | 1 |
| 31 | Design of Experiment Evaluation of a 2.5D Printing Process for Implantable PDMS-based Neural Interfaces. , 2021, 2021, 6433-6436. | | 1 |
| 32 | Scalable Batch Transfer of Individual Silicon Dice for Ultra-Flexible Polyimide-Based Bioelectronic Devices. , 2021, 2021, 6880-6883. | | 4 |
| 33 | Low-Temperature Sealing of Titanium for Hermetic Implant Packages. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 2046-2054. | 1.4 | 0 |
| 34 | Automatic detection of high-frequency-oscillations and their sub-groups co-occurring with interictal-epileptic-spikes. Journal of Neural Engineering, 2020, 17, 016030. | 1.8 | 22 |
| 35 | Of Man and Mice: Translational Research in Neurotechnology. Neuron, 2020, 105, 12-15. | 3.8 | 25 |
| 36 | Flexible Bioelectronic Devices Based on Micropatterned Monolithic Carbon Fiber Mats. Advanced Materials Technologies, 2020, 5, 1900713. | 3.0 | 21 |

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| 37 | Tutorial: guidelines for standardized performance tests for electrodes intended for neural interfaces and bioelectronics. Nature Protocols, 2020, 15, 3557-3578. | 5.5 | 142 |
| 38 | Cortical plasticity after hand prostheses use: Is the hypothesis of deafferented cortex â€œinvasionâ€• always true?. Clinical Neurophysiology, 2020, 131, 2341-2348. | 0.7 | 5 |
| 39 | Intermuscular coupling and postural control in unilateral transfemoral amputees â€“ a pilot study*. , 2020, 2020, 3815-3818. | | 0 |
| 40 | Sensitivity to temporal parameters of intraneural tactile sensory feedback. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 110. | 2.4 | 15 |
| 41 | Thin Film Metallization Stacks Serve as Reliable Conductors on Ceramic-Based Substrates for Active Implants. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1803-1813. | 1.4 | 6 |
| 42 | Conformable polyimide-based Î¼ECoGs: Bringing the electrodes closer to the signal source. Biomaterials, 2020, 255, 120178. | 5.7 | 58 |
| 43 | Stability of flexible thin-film metallization stimulation electrodes: analysis of explants after first-in-human study and improvement of in vivo performance. Journal of Neural Engineering, 2020, 17, 046006. | 1.8 | 38 |
| 44 | Decoding of grasping tasks from intraneural recordings in trans-radial amputee. Journal of Neural Engineering, 2020, 17, 026034. | 1.8 | 39 |
| 45 | Highly Porous Platinum Electrodes for Dry Ear-EEG Measurements. Sensors, 2020, 20, 3176. | 2.1 | 15 |
| 46 | Novel desiccant-based very low humidity indicator for condition monitoring in miniaturized hermetic packages of active implants. Sensors and Actuators B: Chemical, 2020, 322, 128555. | 4.0 | 14 |
| 47 | Medial forebrain bundle DBS differentially modulates dopamine release in the nucleus accumbens in a rodent model of depression. Experimental Neurology, 2020, 327, 113224. | 2.0 | 13 |
| 48 | Flexible Bioelectronics: Flexible Bioelectronic Devices Based on Micropatterned Monolithic Carbon Fiber Mats (Adv. Mater. Technol. 2/2020). Advanced Materials Technologies, 2020, 5, 2070009. | 3.0 | 0 |
| 49 | Morphological Neural Computation Restores Discrimination of Naturalistic Textures in Trans-radial Amputees. Scientific Reports, 2020, 10, 527. | 1.6 | 30 |
| 50 | Neural Implants Without Electronics: A Proof-of-Concept Study on a Human Skin Model. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 91-97. | 1.7 | 2 |
| 51 | Nutrient Fluxes Associated With Submarine Groundwater Discharge From Karstic Coastal Aquifers (CÃ´te Bleue, French Mediterranean Coastline). Frontiers in Environmental Science, 2020, 7, . | 1.5 | 11 |
| 52 | Hand Control With Invasive Feedback Is Not Impaired by Increased Cognitive Load. Frontiers in Bioengineering and Biotechnology, 2020, 8, 287. | 2.0 | 31 |
| 53 | Fabrication and validation of reference structures for the localization of subdural standard- and micro-electrodes in MRI. Journal of Neural Engineering, 2020, 17, 046044. | 1.8 | 4 |
| 54 | Obstacles to Prosthetic Careâ€”Legal and Ethical Aspects of Access to Upper and Lower Limb Prosthetics in Germany and the Improvement of Prosthetic Care from a Social Perspective. Societies, 2020, 10, 10. | 0.8 | 5 |

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| 55 | Wenn Technik den Nerv trifft â€“ Strom fÃ¼r elektronische Pillen und fÃ¼hlende Prothesen. , 2020, , 141-158. | | 0 |
| 56 | Investigation of Long-Term Stability of Hybrid Systems-in-Foil (HySiF) for Biomedical Applications. , 2020, , . | | 1 |
| 57 | Polyimide-based Thin Film Conductors for High Frequency Data Transmission in Ultra- Conformable Implants. Current Directions in Biomedical Engineering, 2020, 6, 481-485. | 0.2 | 5 |
| 58 | Multisensory bionic limb to achieve prosthesis embodiment and reduce distorted phantom limb perceptions. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 833-836. | 0.9 | 101 |
| 59 | Solder-free miniaturized interconnection technology for neural interfaces*. , 2019, , . | | 2 |
| 60 | Developing Next-Generation Brain Sensing Technologiesâ€”A Review. IEEE Sensors Journal, 2019, 19, 10163-10175. | 2.4 | 26 |
| 61 | Robust and Precise Alignment Monitoring of Electrode Arrays for Capacitive Energy Supply and Signal Transmission. , 2019, , . | | 2 |
| 62 | Quantitative synchrotron X-ray tomography of the material-tissue interface in rat cortex implanted with neural probes. Scientific Reports, 2019, 9, 7646. | 1.6 | 12 |
| 63 | Electrical connectors for neural implants: design, state of the art and future challenges of an underestimated component. Journal of Neural Engineering, 2019, 16, 061002. | 1.8 | 28 |
| 64 | Temporal variability of lagoonâ€“sea water exchange and seawater circulation through a Mediterranean barrier beach. Limnology and Oceanography, 2019, 64, 2059-2080. | 1.6 | 20 |
| 65 | Experimental Characterization of Optoacoustic Phantoms in Gel Wax and Polyvinyl Alcohol for Blood Pressure Measurements. , 2019, 2019, 5820-5823. | | 1 |
| 66 | Stability of polyimide integrated ITO electrodes. , 2019, , . | | 0 |
| 67 | 3D Patterned Thin-Film Electrodes for Neural Prostheticsâ€“Proof of Concept. , 2019, , . | | 0 |
| 68 | Sensory feedback restoration in leg amputees improves walking speed, metabolic cost and phantom pain. Nature Medicine, 2019, 25, 1356-1363. | 15.2 | 174 |
| 69 | Pulsed electropolymerization of PEDOT enabling controlled branching. Polymer Journal, 2019, 51, 1029-1036. | 1.3 | 18 |
| 70 | Neuromuscular adaptations and sensorimotor integration following a unilateral transfemoral amputation. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 115. | 2.4 | 29 |
| 71 | Enhancing functional abilities and cognitive integration of the lower limb prosthesis. Science Translational Medicine, 2019, 11, . | 5.8 | 133 |
| 72 | Submarine Groundwater Discharge: Updates on Its Measurement Techniques, Geophysical Drivers, Magnitudes, and Effects. Frontiers in Environmental Science, 2019, 7, . | 1.5 | 158 |

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| 73 | Optimal integration of intraneural somatosensory feedback with visual information: a single-case study. Scientific Reports, 2019, 9, 7916. | 1.6 | 38 |
| 74 | Context-specific modulation of intrinsic coupling modes shapes multisensory processing. Science Advances, 2019, 5, eaar7633. | 4.7 | 11 |
| 75 | It's the little things: On the complexity of planar electrode heating in MRI. NeuroImage, 2019, 195, 272-284. | 2.1 | 8 |
| 76 | Long-Term Functionality of Transversal Intraneural Electrodes is Improved by Dexamethasone Treatment. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 457-464. | 2.7 | 15 |
| 77 | Intraneural sensory feedback restores grip force control and motor coordination while using a prosthetic hand. Journal of Neural Engineering, 2019, 16, 026034. | 1.8 | 66 |
| 78 | A closed-loop hand prosthesis with simultaneous intraneural tactile and position feedback. Science Robotics, 2019, 4, . | 9.9 | 198 |
| 79 | Integration of Micro-Patterned Carbon Fiber Mats into Polyimide for the Development of Flexible Implantable Neural Devices. , 2019, 2019, 3931-3934. | | 2 |
| 80 | Electrochemical Characterization and Surface Analysis of Activated Glassy Carbon Neural Electrodes. , 2019, 2019, 3923-3926. | | 2 |
| 81 | Estimation of the epileptogenic-zone with HFO sub-groups exhibiting various levels of epileptogenicity*. , 2019, 2019, 2543-2546. | | 2 |
| 82 | Electrochemical Stability of Thin-Film Platinum as Suitable Material for Neural Stimulation Electrodes. , 2019, 2019, 3762-3765. | | 2 |
| 83 | Characterization of multi-channel intraneural stimulation in transradial amputees. Scientific Reports, 2019, 9, 19258. | 1.6 | 51 |
| 84 | Sixâ€Month Assessment of a Hand Prosthesis with Intraneural Tactile Feedback. Annals of Neurology, 2019, 85, 137-154. | 2.8 | 140 |
| 85 | Development of an Intraneural Peripheral Stimulation Paradigm for the Restoration of Fine Hand Control in Non-human Primates. Biosystems and Biorobotics, 2019, , 112-116. | 0.2 | 0 |
| 86 | Reliability of spring interconnects for high channel-count polyimide electrode arrays. Journal of Micromechanics and Microengineering, 2018, 28, 055007. | 1.5 | 3 |
| 87 | Should patients with brain implants undergo MRI?. Journal of Neural Engineering, 2018, 15, 041002. | 1.8 | 78 |
| 88 | On the use of Parylene C polymer as substrate for peripheral nerve electrodes. Scientific Reports, 2018, 8, 5965. | 1.6 | 57 |
| 89 | Integrated optoelectronic microprobes. Current Opinion in Neurobiology, 2018, 50, 72-82. | 2.0 | 18 |
| 90 | Paradigms for restoration of somatosensory feedback via stimulation of the peripheral nervous system. Clinical Neurophysiology, 2018, 129, 851-862. | 0.7 | 60 |

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| 91 | A single channel sleep-spindle detector based on multivariate classification of EEG epochs: MUSSDET. Journal of Neuroscience Methods, 2018, 297, 31-43. | 1.3 | 16 |
| 92 | Three-beams spring interconnects for long-term high density flexible electrode arrays. , 2018, , . | | 4 |
| 93 | Phantom somatosensory evoked potentials following selective intraneural electrical stimulation in two amputees. Clinical Neurophysiology, 2018, 129, 1117-1120. | 0.7 | 35 |
| 94 | Simulation of effects of the electrode structure and material in the density measuring system of the peripheral nerve based on micro-electrical impedance tomography. Biomedizinische Technik, 2018, 63, 151-161. | 0.9 | 4 |
| 95 | Incorporation of Silicon Carbide and Diamondâ€Like Carbon as Adhesion Promoters Improves In Vitro and In Vivo Stability of Thinâ€Film Glassy Carbon Electrocorticography Arrays. Advanced Biology, 2018, 2, 1700081. | 3.0 | 24 |
| 96 | Deep Learning for micro-Electrocorticographic (ÂµECoG) Data*. , 2018, , . | | 1 |
| 97 | Implantable Glass Waveguides and Coating Materials for Chronic Optical Medical Applications. , 2018, 2018, 4595-4598. | | 0 |
| 98 | Low temperature approach for high density electrical feedthroughs for neural implants using maskless fabrication techniques. , 2018, 2018, 2933-2936. | | 7 |
| 99 | PDMS Gasket Underfill for Long-Term Insulation of High-Density Interconnections in Active Implantable Medical Devices. , 2018, 2018, 2941-2944. | | 1 |
| 100 | Comparison of linear frequency and amplitude modulation for intraneural sensory feedback in bidirectional hand prostheses. Scientific Reports, 2018, 8, 16666. | 1.6 | 85 |
| 101 | Achieving Ultra-Conformability With Polyimide-Based ECoG Arrays. , 2018, 2018, 4464-4467. | | 8 |
| 102 | Integrity Assessment of a Hybrid DBS Probe that Enables Neurotransmitter Detection Simultaneously to Electrical Stimulation and Recording. Micromachines, 2018, 9, 510. | 1.4 | 12 |
| 103 | Neurophysiological Evaluation of a Customizable Î¼ECoG-based Wireless Brain Implant*. , 2018, 2018, 2953-2956. | | 0 |
| 104 | Micro-folded 3D neural electrodes fully integrated in polyimide. , 2018, 2018, 4587-4590. | | 1 |
| 105 | Synchrony surfacing: Epicortical recording of correlated action potentials. European Journal of Neuroscience, 2018, 48, 3583-3596. | 1.2 | 16 |
| 106 | Glassy Carbon Electrocorticography Electrodes on Ultra-Thin and Finger-Like Polyimide Substrate: Performance Evaluation Based on Different Electrode Diameters. Materials, 2018, 11, 2486. | 1.3 | 23 |
| 107 | In Situ Measurement of Stimulus Induced pH Changes Using ThinFilm Embedded IrOx pH Electrodes. , 2018, 2018, 5049-5052. | | 3 |
| 108 | Graphitic Carbon Electrodes on Flexible Substrate for Neural Applications Entirely Fabricated Using Infrared Nanosecond Laser Technology. Scientific Reports, 2018, 8, 14749. | 1.6 | 24 |

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| 109 | Biomimetic Intraneural Sensory Feedback Enhances Sensation Naturalness, Tactile Sensitivity, and Manual Dexterity in a Bidirectional Prosthesis. Neuron, 2018, 100, 37-45.e7. | 3.8 | 265 |
| 110 | A comparison between water circulation and terrestrially-driven dissolved silica fluxes to the Mediterranean Sea traced using radium isotopes. Geochimica Et Cosmochimica Acta, 2018, 238, 496-515. | 1.6 | 35 |
| 111 | How to record highâ€frequency oscillations in epilepsy: A practical guideline. Epilepsia, 2017, 58, 1305-1315. | 2.6 | 127 |
| 112 | Actively controlled release of Dexamethasone from neural microelectrodes in a chronic inÂvivo study. Biomaterials, 2017, 129, 176-187. | 5.7 | 154 |
| 113 | Influence of Anatomical Detail and Tissue Conductivity Variations in Simulations of Multi-Contact Nerve Cuff Recordings. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1653-1662. | 2.7 | 15 |
| 114 | Long-Term Stable Adhesion for Conducting Polymers in Biomedical Applications: IrOx and Nanostructured Platinum Solve the Chronic Challenge. ACS Applied Materials & Interfaces, 2017, 9, 189-197. | 4.0 | 143 |
| 115 | Improved long-term stability of thin-film glassy carbon electrodes through the use of silicon carbide and amorphous carbon. , 2017, , . | | 3 |
| 116 | Closed-loop interaction with the cerebral cortex using a novel micro-ECoG-based implant: the impact of beta vs. gamma stimulation frequencies on cortico-cortical spectral responses. Brain-Computer Interfaces, 2017, 4, 214-224. | 0.9 | 8 |
| 117 | Mapping the fine structure of cortical activity with different micro-ECoG electrode array geometries. Journal of Neural Engineering, 2017, 14, 056004. | 1.8 | 28 |
| 118 | Combining airborne thermal infrared images and radium isotopes to study submarine groundwater discharge along the French Mediterranean coastline. Journal of Hydrology: Regional Studies, 2017, 13, 72-90. | 1.0 | 34 |
| 119 | Dynamic reconfiguration of cortical functional connectivity across brain states. Scientific Reports, 2017, 7, 8797. | 1.6 | 30 |
| 120 | Closed-loop interaction with the cerebral cortex: a review of wireless implant technology. Brain-Computer Interfaces, 2017, 4, 146-154. | 0.9 | 44 |
| 121 | Return of the cadaver. Medicine (United States), 2017, 96, e7528. | 0.4 | 28 |
| 122 | Application of the Acoustic Propagation Model to a deepâ€water crossâ€shelf curtain. Methods in Ecology and Evolution, 2017, 8, 1305-1308. | 2.2 | 3 |
| 123 | Rapid prototyping of flexible intrafascicular electrode arrays by picosecond laser structuring. Journal of Neural Engineering, 2017, 14, 066016. | 1.8 | 21 |
| 124 | Investigations on effects of the hole size to fix electrodes and interconnection lines in polydimethylsiloxane. Journal of Micromechanics and Microengineering, 2017, 27, 115008. | 1.5 | 0 |
| 125 | On the Use of Intraneural Transversal Electrodes to Develop Bidirectional Bionic Limbs. Biosystems and Biorobotics, 2017, , 737-741. | 0.2 | 0 |
| 126 | Advanced 56 Channels Stimulation System to Drive Intrafascicular Electrodes. Biosystems and Biorobotics, 2017, , 743-747. | 0.2 | 6 |

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| 127 | Let There Be Lightâ€"Optoprobes for Neural Implants. Proceedings of the IEEE, 2017, 105, 101-138. | 16.4 | 51 |
| 128 | Design of contact zone topography for implantable high-channel electrical connectors. , 2017, 2017, 238-241. | | 1 |
| 129 | Precise localization of silicone-based intercranial planar electrodes in magnetic resonance imaging. , 2017, 2017, 513-516. | | 0 |
| 130 | Nanostructured platinum as an electrochemically and mechanically stable electrode coating. , 2017, 2017, 1058-1061. | | 4 |
| 131 | Design of experiment evaluation of sputtered thin film platinum surface metallization on alumina substrate for implantable conductive structures. , 2017, 2017, 1066-1069. | | 6 |
| 132 | Building wireless implantable neural interfaces within weeks for neuroscientists. , 2017, 2017, 1078-1081. | | 4 |
| 133 | A 64-channels neural interface for biopotentials recording and PNS stimulation. , 2017, 2017, 1938-1941. | | 1 |
| 134 | Session 27: Bioelectronics and electroceuticals. Biomedizinische Technik, 2017, 62, . | 0.9 | 0 |
| 135 | Depuration, augmentation and balancing of training data for supervised learning based detectors of EEG patterns. , 2017, , . | | 1 |
| 136 | Concept and Development of an Electronic Framework Intended for Electrode and Surrounding Environment Characterization In Vivo. Sensors, 2017, 17, 59. | 2.1 | 3 |
| 137 | Mechanical deformation and chemical degradation of thin-film platinum under aging and electrical stimulation. , 2017, , . | | 5 |
| 138 | Dual-sided process with graded interfaces for adhering underfill and globtop materials to microelectrode arrays. , 2017, , . | | 2 |
| 139 | On Biocompatibility and Stability of Transversal Intrafascicular Multichannel Electrodesâ€"TIME. Biosystems and Biorobotics, 2017, , 731-735. | 0.2 | 5 |
| 140 | Laser-induced carbon pyrolysis of electrodes for neural interface systems. European Journal of Translational Myology, 2016, 26, 6062. | 0.8 | 8 |
| 141 | Laser patterned PDMS gasket as voids-free underfill material for implantable biomedical microsystems. , 2016, , . | | 3 |
| 142 | Epoxy casting used as nonhermetic encapsulation technique for implantable electronic devices. , 2016, 2016, 1938-1941. | | 5 |
| 143 | Investigations on different epoxies for electrical insulation of microflex structures. , 2016, 2016, 1963-1966. | | 3 |
| 144 | Investigation on the hermeticity of an implantable package with 32 feedthroughs for neural prosthetic applications. , 2016, 2016, 1967-1970. | | 4 |

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| 145 | Effect of Cardiac-Cycle-Synchronized Selective Vagal Stimulation on Heart Rate and Blood Pressure in Rats. Advances in Therapy, 2016, 33, 1246-1261. | 1.3 | 18 |
| 146 | Development of a desiccant based dielectric for monitoring humidity conditions in miniaturized hermetic implantable packages. Current Directions in Biomedical Engineering, 2016, 2, 537-541. | 0.2 | 1 |
| 147 | Brachyuran crab community structure and associated sediment reworking activities in pioneer and young mangroves of French Guiana, South America. Estuarine, Coastal and Shelf Science, 2016, 182, 60-71. | 0.9 | 25 |
| 148 | Intracortical polyimide electrodes with a bioresorbable coating. Biomedical Microdevices, 2016, 18, 81. | 1.4 | 13 |
| 149 | The influence of environmental parameters on the performance and detection range of acoustic receivers. Methods in Ecology and Evolution, 2016, 7, 825-835. | 2.2 | 106 |
| 150 | Influence of Clonidine on Antihypertensive Selective Afferent Vagal Nerve Stimulation in Rats. Neuromodulation, 2016, 19, 597-606. | 0.4 | 3 |
| 151 | A double-sided fabrication process for intrafascicular parylene C based electrode arrays. , 2016, 2016, 2798-2801. | | 3 |
| 152 | Differentiation of spindle associated hippocampal HFOs based on a correlation analysis. , 2016, 2016, 5501-5504. | | 5 |
| 153 | In vivo characterization of a versatile 8-channel digital biopotential recording system with sub-Î¼V<inf>RMS</inf> input noise. , 2016, 2016, 6311-6314. | | 1 |
| 154 | Design considerations for miniaturized optical neural probes. , 2016, , . | | 0 |
| 155 | Estimation of the Electrode-Fiber Bioelectrical Coupling From Extracellularly Recorded Single Fiber Action Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 951-960. | 2.7 | 8 |
| 156 | Haemodynamic Responses to Selective Vagal Nerve Stimulation under Enalapril Medication in Rats. PLoS ONE, 2016, 11, e0147045. | 1.1 | 15 |
| 157 | Evaluation of adhesion promoters for Parylene C on gold metallization. Current Directions in Biomedical Engineering, 2015, 1, 493-497. | 0.2 | 11 |
| 158 | Fused silica microlenses for hermetic packages as part of implantable optrodes. , 2015, 2015, 7143-6. | | 5 |
| 159 | Non-hermetic encapsulation for implantable electronic devices based on epoxy. , 2015, 2015, 809-12. | | 13 |
| 160 | Fabrication and implantation of hydrogel coated, flexible polyimide electrodes. , 2015, , . | | 5 |
| 161 | Mechanical deformation of thin film platinum under electrical stimulation. , 2015, 2015, 1045-8. | | 5 |
| 162 | Development of a single-sided Parylene C based intrafascicular multichannel electrode for peripheral nerves. , 2015, , . | | 3 |

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| 163 | Inductive Micro-tunnel for an Efficient Power Transfer. Procedia Engineering, 2015, 120, 511-515. | 1.2 | 0 |
| 164 | Track K. Imaging. Biomedizinische Technik, 2015, 60, s193-226. | 0.9 | 1 |
| 165 | Iridium Oxide (IrOx) serves as adhesion promoter for conducting polymers on neural microelectrodes. , 2015, , . | | 3 |
| 166 | Subchronic Stimulation Performance of Transverse Intrafascicular Multichannel Electrodes in the Median Nerve of the GÃ¶ttingen Minipig. Artificial Organs, 2015, 39, E36-48. | 1.0 | 12 |
| 167 | Development of a bending test procedure for the characterization of flexible ECoG electrode arrays. Current Directions in Biomedical Engineering, 2015, 1, 510-514. | 0.2 | 2 |
| 168 | iNODE in-vivo testing for selective vagus nerve recording and stimulation. , 2015, , . | | 0 |
| 169 | The influence of stimulation parameters on the relative phase clustering index. , 2015, , . | | 0 |
| 170 | Development of a multichannel implantable connector. , 2015, 2015, 805-8. | | 3 |
| 171 | Decreasing stimulation charge by delaying the discharge phase - comparison of efficacy for various stimulation waveforms. , 2015, , . | | 0 |
| 172 | Novel concept for a wireless and batteryless brain implant array. , 2015, , . | | 0 |
| 173 | Delaying discharge after the stimulus significantly decreases muscle activation thresholds with small impact on the selectivity: an in vivo study using TIME. Medical and Biological Engineering and Computing, 2015, 53, 371-379. | 1.6 | 18 |
| 174 | Submarine groundwater discharge from tropical islands: a review. Grundwasser, 2015, 20, 53-67. | 1.4 | 81 |
| 175 | RFID Technology for Continuous Monitoring of Physiological Signals in Small Animals. IEEE Transactions on Biomedical Engineering, 2015, 62, 618-626. | 2.5 | 14 |
| 176 | Nanostructured platinum grass enables superior impedance reduction for neural microelectrodes. Biomaterials, 2015, 67, 346-353. | 5.7 | 130 |
| 177 | Technically assisted rehabilitation â€“ approaches for the upper extremity. Biomedizinische Technik, 2015, 60, 177-8. | 0.9 | 0 |
| 178 | Toward the Development of a Neuro-Controlled Bidirectional Hand Prosthesis. Lecture Notes in Computer Science, 2015, , 105-110. | 1.0 | 0 |
| 179 | Hybrid multimodal Deep Brain probe (DBS array) for advanced brain research. , 2015, , . | | 0 |
| 180 | In-vivo characterization of a 0.8 – 3 µV<inf>RMS</inf> input-noise versatile CMOS pre-amplifier. , 2015, , . | | 3 |

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| 181 | Evaluation of thin-film temperature sensors for integration in neural probes. , 2015, , . | | 1 |
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