

Ken Yoshida

List of Publications by Year in descending order

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81
papers

3,250
citations

147566

31
h-index

155451

55
g-index

86
all docs

86
docs citations

86
times ranked

2613
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo peripheral nerve activation using sinusoidal low-frequency alternating currents. Artificial Organs, 2022, 46, 2055-2065.	1.0	3
2	The International Functional Electrical Stimulation Society (<sc>IFESS</sc>): Current and future developments. Artificial Organs, 2022, 46, 1968-1969.	1.0	0
3	Peripheral Nerve Signal Processing, Denoising. , 2022, , 2703-2706.		0
4	In-vivo application of low frequency alternating currents on porcine cervical vagus nerve evokes reversible nerve conduction block. Bioelectronic Medicine, 2021, 7, 9.	1.0	6
5	A Reversible Low Frequency Alternating Current Nerve Conduction Block Applied to Mammalian Autonomic Nerves. Sensors, 2021, 21, 4521.	2.1	5
6	Referred Sensation Areas in a Bilateral Toes Amputee. , 2020, 2020, 3569-3572.		1
7	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
8	Low Frequency Alternating Current Block - A New Method to Stop or Slow Conduction of Action Potentials. , 2019, , .		2
9	Referred Sensation Areas in Transpelvic Amputee. , 2019, 2019, 6458-6461.		3
10	Reversible Conduction Block in Peripheral Mammalian Nerve Using Low Frequency Alternating Current. , 2019, , .		4
11	Hybrid and Fast: A Novel in Silico Approach with Reduced Computational Cost to Predict Failures of in Vivo Needle-Based implantations. Biosystems and Biorobotics, 2019, , 127-131.	0.2	0
12	Interactions among biotic and abiotic factors affect the reliability of tungsten microneedles puncturing in vitro and in vivo peripheral nerves: A hybrid computational approach. Materials Science and Engineering C, 2016, 59, 1089-1099.	3.8	13
13	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
14	Accurate and representative decoding of the neural drive to muscles in humans with multi-channel intramuscular thin-film electrodes. Journal of Physiology, 2015, 593, 3789-3804.	1.3	87
15	Subchronic Stimulation Performance of Transverse Intrafascicular Multichannel Electrodes in the Median Nerve of the Göttingen Minipig. Artificial Organs, 2015, 39, E36-48.	1.0	12
16	Bioelectric interfaces for the peripheral nervous system. , 2014, 2014, 5272-5.		1
17	Stimulation Selectivity of the "Thin-Film Longitudinal Intrafascicular Electrode" (tlLIFE) and the "Transverse Intrafascicular Multi-Channel Electrode" (TIME) in the Large Nerve Animal Model. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 400-410.	2.7	65
18	Influence of unit distance and conduction velocity on the spectra of extracellular action potentials recorded with intrafascicular electrodes. Medical Engineering and Physics, 2013, 35, 116-124.	0.8	14

#	ARTICLE	IF	CITATIONS
19	Development of Multi-Channel Intramuscular EMG Recording Electrodes. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	2
20	Effect of the nerve fiber path eccentricity on the single fiber action potential. , 2013, , .		0
21	Identification of spectral landmarks on the single fiber action potential waveform for unit tracking. , 2013, , .		0
22	Evaluation of sensation evoked by electrocutaneous stimulation on forearm in nondisabled subjects. Journal of Rehabilitation Research and Development, 2012, 49, 297.	1.6	55
23	Development of a neurotechnological system for relieving phantom limb pain using transverse intrafascicular electrodes (TIME). Biomedizinische Technik, 2012, 57, 457-65.	0.9	8
24	In vivo interactions between tungsten microneedles and peripheral nerves. Medical Engineering and Physics, 2012, 34, 747-755.	0.8	15
25	Determination of electrode to nerve fiber distance and nerve conduction velocity through spectral analysis of the extracellular action potentials recorded from earthworm giant fibers. Medical and Biological Engineering and Computing, 2012, 50, 867-875.	1.6	11
26	Stationary wavelet transform and higher order statistical analyses of intrafascicular nerve recordings. Journal of Neural Engineering, 2012, 9, 056014.	1.8	8
27	Estimation of Grasping Force from Features of Intramuscular EMG Signals with Mirrored Bilateral Training. Annals of Biomedical Engineering, 2012, 40, 648-656.	1.3	64
28	Multiscale modeling of skeletal muscle properties and experimental validations in isometric conditions. Biological Cybernetics, 2011, 105, 121-138.	0.6	20
29	Decoding of grasping information from neural signals recorded using peripheral intrafascicular interfaces. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 53.	2.4	89
30	Impacts of selected stimulation patterns on the perception threshold in electrocutaneous stimulation. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 9.	2.4	41
31	Nanoscale topography reduces fibroblast growth, focal adhesion size and migration-related gene expression on platinum surfaces. Colloids and Surfaces B: Biointerfaces, 2011, 85, 189-197.	2.5	60
32	Point-process analysis of neural spiking activity of muscle spindles recorded from thin-film longitudinal intrafascicular electrodes. , 2011, 2011, 2311-4.		2
33	Analysis of light-induced transmembrane ion gradients and membrane potential in Photosystem I proteoliposomes. Biophysical Chemistry, 2010, 146, 13-24.	1.5	10
34	Multichannel Intraneural and Intramuscular Techniques for Multiunit Recording and Use in Active Prostheses. Proceedings of the IEEE, 2010, 98, 432-449.	16.4	46
35	Decoding Information From Neural Signals Recorded Using Intraneural Electrodes: Toward the Development of a Neurocontrolled Hand Prosthesis. Proceedings of the IEEE, 2010, 98, 407-417.	16.4	84
36	A criterion for signal-based selection of wavelets for denoising intrafascicular nerve recordings. Journal of Neuroscience Methods, 2010, 186, 274-280.	1.3	22

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37	A transverse intrafascicular multichannel electrode (TIME) to interface with the peripheral nerve. <i>Biosensors and Bioelectronics</i> , 2010, 26, 62-69.	5.3	396
38	Spike Sorting of Muscle Spindle Afferent Nerve Activity Recorded with Thin-Film Intrafascicular Electrodes. <i>Computational Intelligence and Neuroscience</i> , 2010, 2010, 1-13.	1.1	12
39	Responses of fibroblasts and glial cells to nanostructured platinum surfaces. <i>Nanotechnology</i> , 2009, 20, 385103.	1.3	42
40	The influence of glancing angle deposited nano-rough platinum surfaces on the adsorption of fibrinogen and the proliferation of primary human fibroblasts. <i>Nanotechnology</i> , 2009, 20, 095101.	1.3	52
41	Interpretation of Muscle Spindle Afferent Nerve Response to Passive Muscle Stretch Recorded With Thin-Film Longitudinal Intrafascicular Electrodes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2009, 17, 445-453.	2.7	9
42	Guest Editorial Interfacing With the Peripheral Nervous System to Develop Innovative Neuroprostheses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2009, 17, 417-419.	2.7	7
43	Incorporation of Photosynthetic Reaction Centers in the Membrane of Human Cells: Toward a New Tool for Optical Control of Cell Activity. <i>Cellular and Molecular Bioengineering</i> , 2009, 2, 156-165.	1.0	5
44	Experimental validation of the nerve conduction velocity selective recording technique using a multi-contact cuff electrode. <i>Medical Engineering and Physics</i> , 2009, 31, 1261-1270.	0.8	34
45	Relationship between grasping force and features of single-channel intramuscular EMG signals. <i>Journal of Neuroscience Methods</i> , 2009, 185, 143-150.	1.3	63
46	Variance-based signal conditioning technique: Comparison to a wavelet-based technique to improve spike detection in multiunit intrafascicular recordings. <i>Biomedical Signal Processing and Control</i> , 2009, 4, 118-126.	3.5	6
47	On the use of wavelet denoising and spike sorting techniques to process electroneurographic signals recorded using intraneural electrodes. <i>Journal of Neuroscience Methods</i> , 2008, 172, 294-302.	1.3	105
48	On the Use of Longitudinal Intrafascicular Peripheral Interfaces for the Control of Cybernetic Hand Prostheses in Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 453-472.	2.7	106
49	Spatial Distribution of the Electric Potential From Photosystem I Reaction Centers in Lipid Vesicles. <i>IEEE Transactions on Nanobioscience</i> , 2008, 7, 164-171.	2.2	7
50	Inferring the stability of LIFE through Brain Machine Interfaces. , 2008, 2008, 2008-11.		1
51	Simultaneous monitoring of cellular depolarization and contraction: a new method to investigate excitability and contractility in isolated smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G648-G654.	1.6	3
52	Multichannel thin-film electrode for intramuscular electromyographic recordings. <i>Journal of Applied Physiology</i> , 2008, 104, 821-827.	1.2	69
53	Ordinary surface ECG electrodes accurately reflect cardiac electric activity at hypothermia. <i>European Journal of Emergency Medicine</i> , 2008, 15, 256-260.	0.5	1
54	Neurobiological evaluation of thin-film longitudinal intrafascicular electrodes as a peripheral nerve interface. , 2007, , .		20

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55	Recording experience with the thin-film Longitudinal Intra-Fascicular Electrode, a multichannel peripheral nerve interface. , 2007, , .		3
56	Improving the signal-to-noise ratio in recordings with thin-film longitudinal intra-fascicular electrodes using shielding cuffs. , 2007, , .		11
57	Quasi-trapezoidal pulses to selectively block the activation of intrinsic laryngeal muscles during vagal nerve stimulation. Journal of Neural Engineering, 2007, 4, 205-212.	1.8	38
58	Shape Memory Alloy Microactuation of tf-LIFEs: Preliminary Results. IEEE Transactions on Biomedical Engineering, 2007, 54, 1115-1120.	2.5	25
59	In vivo implant mechanics of single-shaft microelectrodes in peripheral nervous tissue. , 2007, , .		4
60	Assessment of Biocompatibility of Chronically Implanted Polyimide and Platinum Intrafascicular Electrodes. IEEE Transactions on Biomedical Engineering, 2007, 54, 281-290.	2.5	197
61	Implantation mechanics of tungsten microneedles into peripheral nerve trunks. Medical and Biological Engineering and Computing, 2007, 45, 413-420.	1.6	24
62	Viscoelastic properties of isolated rat colon smooth muscle cells. Cell Biology International, 2006, 30, 854-858.	1.4	10
63	Closed-loop control of the heart rate by electrical stimulation of the vagus nerve. Medical and Biological Engineering and Computing, 2006, 44, 161-169.	1.6	66
64	In-vivo implant mechanics of flexible, silicon-based ACREO microelectrode arrays in rat cerebral cortex. IEEE Transactions on Biomedical Engineering, 2006, 53, 934-940.	2.5	100
65	A Novel High Channel-Count System for Acute Multisite Neuronal Recordings. IEEE Transactions on Biomedical Engineering, 2006, 53, 1672-1677.	2.5	18
66	Electrostatics of Photosynthetic Reaction Centers in Membranes. , 2006, 2006, 4209-12.		1
67	Current Density Imaging and Electrically Induced Skin Burns Under Surface Electrodes. IEEE Transactions on Biomedical Engineering, 2005, 52, 2024-2031.	2.5	25
68	Effects of monomer and electrolyte concentrations on actuation of PPy(DBS) bilayers. Synthetic Metals, 2005, 155, 18-26.	2.1	50
69	Acute peripheral nerve recording Characteristics of polymer-based longitudinal intrafascicular electrodes. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 345-348.	2.7	92
70	THE THEORY OF PERIPHERAL NERVE RECORDING. Series on Bioengineering and Biomedical Engineering, 2004, , 342-428.	0.1	10
71	PERIPHERAL NERVE RECORDING ELECTRODES AND TECHNIQUES. Series on Bioengineering and Biomedical Engineering, 2004, , 683-744.	0.1	11
72	A 32-site neural recording probe fabricated by DRIE of SOI substrates. Journal of Micromechanics and Microengineering, 2002, 12, 414-419.	1.5	160

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73	The effects of varying deposition current density on bending behaviour in PPy(DBS)-actuated bending beams. <i>Sensors and Actuators A: Physical</i> , 2001, 89, 175-184.	2.0	60
74	Intrafascicular electrodes for stimulation and recording from mudpuppy spinal roots. <i>Journal of Neuroscience Methods</i> , 2000, 96, 47-55.	1.3	45
75	Characterization of signals and noise rejection with bipolar longitudinal intrafascicular electrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 1999, 46, 226-234.	2.5	63
76	Localization and Modulation of Rhythmogenic Locomotor Network in the Mudpuppy (Necturus) Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 6	1.8	2
77	Identification, Localization, and Modulation of Neural Networks for Walking in the Mudpuppy (<i>Necturus Maculatus</i>) Spinal Cord. <i>Journal of Neuroscience</i> , 1998, 18, 4295-4304.	1.7	138
78	Closed-loop control of ankle position using muscle afferent feedback with functional neuromuscular stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 1996, 43, 167-176.	2.5	109
79	Selective stimulation of peripheral nerve fibers using dual intrafascicular electrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 1993, 40, 492-494.	2.5	185
80	Reduced fatigue in electrically stimulated muscle using dual channel intrafascicular electrodes with interleaved stimulation. <i>Annals of Biomedical Engineering</i> , 1993, 21, 709-714.	1.3	57
81	Control of ankle position using neural feedback. , 0, , .		1