

# Gerald E Loeb

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146  
papers

5,431  
citations

43  
h-index

70  
g-index

161  
ext. papers

6,218  
ext. citations

3.9  
avg, IF

5.94  
L-index

| #   | Paper                                                                                                                                                                                                                     | IF   | Citations |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 146 | Spinal Cord, Integrated (Non CPG) Models of <b>2022</b> , 3270-3281                                                                                                                                                       |      |           |
| 145 | Physiology and Computational Principles of Muscle Force Generation <b>2022</b> , 2779-2795                                                                                                                                |      | 0         |
| 144 | : A Bio-Inspired Machine Learning Approach to Estimating Posture in Robots Driven by Compliant Tendons. <i>Frontiers in Neurorobotics</i> , <b>2021</b> , 15, 679122                                                      | 3.4  | 0         |
| 143 | Force variability is mostly not motor noise: Theoretical implications for motor control. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008707                                                                   | 5    | 2         |
| 142 | The influence of temporal predictability on express visuomotor responses. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 731-747                                                                                  | 3.2  | 5         |
| 141 | A new approach to medical diagnostic decision support. <i>Journal of Biomedical Informatics</i> , <b>2021</b> , 116, 103723                                                                                               | 10.2 | 2         |
| 140 | A Non-spiking Neuron Model With Dynamic Leak to Avoid Instability in Recurrent Networks. <i>Frontiers in Computational Neuroscience</i> , <b>2021</b> , 15, 656401                                                        | 3.5  | 0         |
| 139 | Learning to use Muscles. <i>Journal of Human Kinetics</i> , <b>2021</b> , 76, 9-33                                                                                                                                        | 2.6  | 3         |
| 138 | Shoulder kinematics plus contextual target information enable control of multiple distal joints of a simulated prosthetic arm and hand. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2021</b> , 18, 3       | 5.3  | 5         |
| 137 | Trial-by-trial modulation of express visuomotor responses induced by symbolic or barely detectable cues. <i>Journal of Neurophysiology</i> , <b>2021</b> , 126, 1507-1523                                                 | 3.2  | 1         |
| 136 | Turning Neural Prosthetics Into Viable Products. <i>Frontiers in Robotics and AI</i> , <b>2021</b> , 8, 754114                                                                                                            | 2.8  | 0         |
| 135 | Evaluating the use of a tactile sensor for measuring carton compliance. <i>Nordic Pulp and Paper Research Journal</i> , <b>2020</b> , 35, 362-369                                                                         | 1.1  | 1         |
| 134 | Prenatal diagnosis and management of congenital complete heart block. <i>Birth Defects Research</i> , <b>2019</b> , 111, 380-388                                                                                          | 2.9  | 16        |
| 133 | Relationships between full-day arm movement characteristics and developmental status in infants with typical development as they learn to reach: An observational study. <i>Gates Open Research</i> , <b>2018</b> , 2, 17 | 2.4  | 9         |
| 132 | Neural Prosthetics: A Review of Empirical vs. Systems Engineering Strategies. <i>Applied Bionics and Biomechanics</i> , <b>2018</b> , 2018, 1435030                                                                       | 1.6  | 18        |
| 131 | Learning Manipulation Graphs from Demonstrations Using Multimodal Sensory Signals <b>2018</b> ,                                                                                                                           |      | 8         |
| 130 | Minimally Invasive Implantation of a Micropacemaker Into the Pericardial Space. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2018</b> , 11, e006307                                                          | 6.4  | 10        |

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| 129 | Neuromorphic meets neuromechanics, part II: the role of fusimotor drive. <i>Journal of Neural Engineering</i> , <b>2017</b> , 14, 025002                                                                                                                    | 5   | 18 |
| 128 | Analytical Modeling for Computing Lead Stress in a Novel Epicardial Micropacemaker. <i>Cardiovascular Engineering and Technology</i> , <b>2017</b> , 8, 96-105                                                                                              | 2.2 | 3  |
| 127 | Muscle and Limb Mechanics. <i>Comprehensive Physiology</i> , <b>2017</b> , 7, 429-462                                                                                                                                                                       | 7.7 | 5  |
| 126 | Accelerated life-test methods and results for implantable electronic devices with adhesive encapsulation. <i>Biomedical Microdevices</i> , <b>2017</b> , 19, 46                                                                                             | 3.7 | 13 |
| 125 | Learning to Switch Between Sensorimotor Primitives Using Multimodal Haptic Signals. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 170-182                                                                                                        | 0.9 | 7  |
| 124 | Minimally invasive implantable fetal micropacemaker: mechanical testing and technical refinements. <i>Medical and Biological Engineering and Computing</i> , <b>2016</b> , 54, 1819-1830                                                                    | 3.1 | 7  |
| 123 | Preclinical testing and optimization of a novel fetal micropacemaker. <i>Heart Rhythm</i> , <b>2015</b> , 12, 1683-90                                                                                                                                       | 6.7 | 19 |
| 122 | Force estimation and slip detection/classification for grip control using a biomimetic tactile sensor <b>2015</b> ,                                                                                                                                         |     | 87 |
| 121 | Major remaining gaps in models of sensorimotor systems. <i>Frontiers in Computational Neuroscience</i> , <b>2015</b> , 9, 70                                                                                                                                | 3.5 | 14 |
| 120 | Using the BioTac as a tumor localization tool <b>2014</b> ,                                                                                                                                                                                                 |     | 16 |
| 119 | Useful properties of spinal circuits for learning and performing planar reaches. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 056006                                                                                                            | 5   | 26 |
| 118 | Bayesian action&perception: representing the world in the brain. <i>Frontiers in Neuroscience</i> , <b>2014</b> , 8, 341                                                                                                                                    | 5.1 | 16 |
| 117 | A percutaneously implantable fetal pacemaker. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4459-63 | 0.9 | 7  |
| 116 | Multimodal Tactile Sensor. <i>Springer Tracts in Advanced Robotics</i> , <b>2014</b> , 405-429                                                                                                                                                              | 0.5 | 27 |
| 115 | Elastomeric skin selection for a fluid-filled artificial fingertip. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 4624-4633                                                                                                                | 2.9 | 12 |
| 114 | Evaluation of a noninvasive command scheme for upper-limb prostheses in a virtual reality reach and grasp task. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 792-802                                                              | 5   | 23 |
| 113 | Sparse optimal motor estimation (SOME) for extracting commands for prosthetic limbs. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2013</b> , 21, 104-111                                                                  | 4.8 | 5  |
| 112 | Design and testing of a percutaneously implantable fetal pacemaker. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 17-27                                                                                                                       | 4.7 | 15 |

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| 111 | Utility of contact detection reflexes in prosthetic hand control <b>2013</b> ,                                                                                                                                                                                                                          |     | 12  |
| 110 | Tactile identification of objects using Bayesian exploration <b>2013</b> ,                                                                                                                                                                                                                              |     | 82  |
| 109 | Are muscle synergies useful for neural control?. <i>Frontiers in Computational Neuroscience</i> , <b>2013</b> , 7, 19                                                                                                                                                                                   | 3.5 | 70  |
| 108 | Mammalian muscle model for predicting force and energetics during physiological behaviors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2012</b> , 20, 117-33                                                                                                         | 4.8 | 34  |
| 107 | Real-time animation software for customized training to use motor prosthetic systems. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2012</b> , 20, 134-42                                                                                                              | 4.8 | 22  |
| 106 | Natural and accelerated recovery from brain damage: experimental and theoretical approaches. <i>IEEE Pulse</i> , <b>2012</b> , 3, 61-5                                                                                                                                                                  | 0.7 | 1   |
| 105 | Toward Perceiving Robots as Humans: Three Handshake Models Face the Turing-Like Handshake Test. <i>IEEE Transactions on Haptics</i> , <b>2012</b> , 5, 196-207                                                                                                                                          | 2.7 | 44  |
| 104 | Haptic Human-Robot Interaction. <i>IEEE Transactions on Haptics</i> , <b>2012</b> , 5, 193-195                                                                                                                                                                                                          | 2.7 | 3   |
| 103 | Optimal isn't good enough. <i>Biological Cybernetics</i> , <b>2012</b> , 106, 757-65                                                                                                                                                                                                                    | 2.8 | 134 |
| 102 | A two-joint human posture control model with realistic neural delays. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2012</b> , 20, 738-48                                                                                                                              | 4.8 | 26  |
| 101 | Muscle coordination is habitual rather than optimal. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 7384-91                                                                                                                                                                                         | 6.6 | 158 |
| 100 | Bayesian exploration for intelligent identification of textures. <i>Frontiers in Neurobotics</i> , <b>2012</b> , 6, 4                                                                                                                                                                                   | 3.4 | 206 |
| 99  | Use of tactile feedback to control exploratory movements to characterize object compliance. <i>Frontiers in Neurobotics</i> , <b>2012</b> , 6, 7                                                                                                                                                        | 3.4 | 69  |
| 98  | BioTac — Biomimetic Multi-modal Tactile Sensor —. <i>Journal of the Robotics Society of Japan</i> , <b>2012</b> , 30, 496-498                                                                                                                                                                           | 0.1 | 7   |
| 97  | Development of a Physics-Based Target Shooting Game to Train Amputee Users of Multijoint Upper Limb Prostheses. <i>Presence: Teleoperators and Virtual Environments</i> , <b>2012</b> , 21, 85-95                                                                                                       | 2.9 | 10  |
| 96  | Percutaneously injectable fetal pacemaker: electrodes, mechanical design and implantation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 6600-3 | 0.9 | 2   |
| 95  | Sensing tactile microvibrations with the BioTac — Comparison with human sensitivity <b>2012</b> ,                                                                                                                                                                                                       |     | 57  |
| 94  | Estimation of excitatory drive from sparse motoneuron sampling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 3628-31                           | 0.9 | 1   |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 93 | Cognitive signals for brain-machine interfaces in posterior parietal cortex include continuous 3D trajectory commands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 17075-80                                                               | 11.5 | 75 |
| 92 | Percutaneously injectable fetal pacemaker: electronics, pacing thresholds, and power budget. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 5730-3 | 0.9  | 1  |
| 91 | Dissemination: Getting BCIs to the People Who Need Them <b>2012</b> , 338-349                                                                                                                                                                                                                             |      | 1  |
| 90 | Virtual biomechanics: a new method for online reconstruction of force from EMG recordings. <i>Journal of Neurophysiology</i> , <b>2012</b> , 108, 3333-41                                                                                                                                                 | 3.2  | 9  |
| 89 | Preventing Ischial Pressure Ulcers: II. Biomechanics. <i>Applied Bionics and Biomechanics</i> , <b>2011</b> , 8, 333-343                                                                                                                                                                                  | 1.6  | 0  |
| 88 | Preventing Ischial Pressure Ulcers: III. Clinical Pilot Study of Chronic Neuromuscular Electrical Stimulation. <i>Applied Bionics and Biomechanics</i> , <b>2011</b> , 8, 345-359                                                                                                                         | 1.6  | 3  |
| 87 | <b>2011</b> ,                                                                                                                                                                                                                                                                                             |      | 9  |
| 86 | Modeling the potentiality of spinal-like circuitry for stabilization of a planar arm system. <i>Progress in Brain Research</i> , <b>2011</b> , 194, 203-13                                                                                                                                                | 2.9  | 13 |
| 85 | Understanding haptics by evolving mechatronic systems. <i>Progress in Brain Research</i> , <b>2011</b> , 192, 129-44                                                                                                                                                                                      | 2.9  | 9  |
| 84 | <b>2011</b> ,                                                                                                                                                                                                                                                                                             |      | 46 |
| 83 | Spinal-like regulator facilitates control of a two-degree-of-freedom wrist. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 9431-44                                                                                                                                                                    | 6.6  | 68 |
| 82 | Percutaneous fiber-optic sensor for the detection of chemotherapy-induced apoptosis in vivo <b>2010</b> ,                                                                                                                                                                                                 |      | 2  |
| 81 | Is There an Equilibrium Point Hypothesis?. <i>Motor Control</i> , <b>2010</b> , 14, e19-e22                                                                                                                                                                                                               | 1.3  |    |
| 80 | Taking control of prosthetic arms. <i>JAMA - Journal of the American Medical Association</i> , <b>2009</b> , 301, 670-1                                                                                                                                                                                   | 27.4 | 7  |
| 79 | Design and fabrication of an injection tool for neuromuscular microstimulators. <i>Annals of Biomedical Engineering</i> , <b>2009</b> , 37, 1858-70                                                                                                                                                       | 4.7  | 6  |
| 78 | Signal processing and fabrication of a biomimetic tactile sensor array with thermal, force and microvibration modalities <b>2009</b> ,                                                                                                                                                                    |      | 45 |
| 77 | Grip Control Using Biomimetic Tactile Sensing Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2009</b> , 14, 718-723                                                                                                                                                                          | 5.5  | 85 |
| 76 | Single- and Triaxis Piezoelectric-Bimorph Accelerometers. <i>Journal of Microelectromechanical Systems</i> , <b>2008</b> , 17, 45-57                                                                                                                                                                      | 2.5  | 66 |

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| 75 | Prediction of Distal Arm Posture in 3-D Space From Shoulder Movements for Control of Upper Limb Prostheses. <i>Proceedings of the IEEE</i> , <b>2008</b> , 96, 1217-1225                                                                                           | 14.3 | 15  |
| 74 | Predicting EMG with generalized Volterra kernel model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 201-4 | 0.9  | 8   |
| 73 | Deformable skin design to enhance response of a biomimetic tactile sensor <b>2008</b> ,                                                                                                                                                                            |      | 14  |
| 72 | A robust micro-vibration sensor for biomimetic fingertips <b>2008</b> ,                                                                                                                                                                                            |      | 49  |
| 71 | General-purpose technology for a general-purpose nervous system <b>2008</b> ,                                                                                                                                                                                      |      | 1   |
| 70 | A FAILURE ANALYSIS OF INTRAMUSCULAR RIGID IMPLANTS FOR MUSCLE CONTRACTIONS. <i>Modern Physics Letters B</i> , <b>2008</b> , 22, 791-796                                                                                                                            | 1.6  | 1   |
| 69 | On the use of musculoskeletal models to interpret motor control strategies from performance data. <i>Journal of Neural Engineering</i> , <b>2008</b> , 5, 232-53                                                                                                   | 5    | 18  |
| 68 | PREDICTION OF ELBOW TRAJECTORY FROM SHOULDER ANGLES USING NEURAL NETWORKS. <i>International Journal of Computational Intelligence and Applications</i> , <b>2008</b> , 07, 333-349                                                                                 | 1.2  | 5   |
| 67 | Biomimetic Tactile Sensor Array. <i>Advanced Robotics</i> , <b>2008</b> , 22, 829-849                                                                                                                                                                              | 1.7  | 244 |
| 66 | Percutaneous fiber-optic sensor for chronic glucose monitoring in vivo. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 1458-65                                                                                                                           | 11.8 | 57  |
| 65 | A virtual reality environment for designing and fitting neural prosthetic limbs. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2007</b> , 15, 9-15                                                                                | 4.8  | 53  |
| 64 | Feasibility of prosthetic posture sensing via injectable electronic modules. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2007</b> , 15, 295-309                                                                                 | 4.8  | 9   |
| 63 | Recruitment and comfort of BION implanted electrical stimulation: implications for FES applications. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2007</b> , 15, 577-86                                                          | 4.8  | 13  |
| 62 | Model-based development of neural prostheses for movement. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 1909-18                                                                                                                          | 5    | 39  |
| 61 | Mechanical loading of rigid intramuscular implants. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 901-10                                                                                                                                                       | 3.7  | 6   |
| 60 | Biomimetic Tactile Sensor for Control of Grip <b>2007</b> ,                                                                                                                                                                                                        |      | 10  |
| 59 | Flexible communication and control protocol for injectable neuromuscular interfaces. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2007</b> , 1, 19-27                                                                                          | 5.1  | 3   |
| 58 | Development of a BIONic muscle spindle for prosthetic proprioception. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 1031-41                                                                                                               | 5    | 12  |

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| 57 | BCI Meeting 2005--workshop on signals and recording methods. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2006</b> , 14, 138-41                                                                              | 4.8 | 81  |
| 56 | The effects of training set on prediction of elbow trajectory from shoulder trajectory during reaching to targets. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 5483-6 |     | 3   |
| 55 | Design and fabrication of a disposable, percutaneous glucose sensor <b>2006</b> ,                                                                                                                                                              |     | 1   |
| 54 | Mathematical models of proprioceptors. I. Control and transduction in the muscle spindle. <i>Journal of Neurophysiology</i> , <b>2006</b> , 96, 1772-88                                                                                        | 3.2 | 119 |
| 53 | The BION devices: injectable interfaces with peripheral nerves and muscles. <i>Neurosurgical Focus</i> , <b>2006</b> , 20, E2                                                                                                                  | 4.2 | 63  |
| 52 | Mathematical models of proprioceptors. II. Structure and function of the Golgi tendon organ. <i>Journal of Neurophysiology</i> , <b>2006</b> , 96, 1789-802                                                                                    | 3.2 | 62  |
| 51 | Design and fabrication of disposable percutaneous chemical sensors <b>2005</b> ,                                                                                                                                                               |     | 7   |
| 50 | Are cochlear implant patients suffering from perceptual dissonance?. <i>Ear and Hearing</i> , <b>2005</b> , 26, 435-50                                                                                                                         | 3.4 | 19  |
| 49 | The functional reanimation of paralyzed limbs. <i>IEEE Engineering in Medicine and Biology Magazine</i> , <b>2005</b> , 24, 45-51                                                                                                              |     | 37  |
| 48 | BIONic WalkAide for correcting foot drop. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2005</b> , 13, 242-6                                                                                                  | 4.8 | 64  |
| 47 | Biomimetic posture sensing and feedback for proprioception. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2005</b> , 2005, 7389-92                                                       |     | 2   |
| 46 | First Clinical Experience with BION Implants for Therapeutic Electrical Stimulation. <i>Neuromodulation</i> , <b>2004</b> , 7, 38-47                                                                                                           | 3.1 | 49  |
| 45 | Prevention of muscle disuse atrophy by low-frequency electrical stimulation in rats. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2003</b> , 11, 218-26                                                      | 4.8 | 35  |
| 44 | Effects of muscle immobilization at different lengths on tetrodotoxin-induced disuse atrophy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2003</b> , 11, 209-17                                             | 4.8 | 12  |
| 43 | A Software Tool for Faster Development of Complex Models of Musculoskeletal Systems and Sensorimotor Controllers in Simulink™. <i>Journal of Applied Biomechanics</i> , <b>2002</b> , 18, 357-365                                              | 1.2 | 22  |
| 42 | The importance of biomechanics. <i>Advances in Experimental Medicine and Biology</i> , <b>2002</b> , 508, 481-7                                                                                                                                | 3.6 | 7   |
| 41 | BION system for distributed neural prosthetic interfaces. <i>Medical Engineering and Physics</i> , <b>2001</b> , 23, 9-18                                                                                                                      | 2.4 | 184 |
| 40 | Real-time sonography to estimate muscle thickness: comparison with MRI and CT. <i>Journal of Clinical Ultrasound</i> , <b>2001</b> , 29, 230-6                                                                                                 | 1   | 126 |

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| 39 | Overcomplete musculature or underspecified tasks?. <i>Motor Control</i> , <b>2000</b> , 4, 81-3; discussion 97-116                                                                                                                                               | 1.3  | 27  |
| 38 | Virtual muscle: a computational approach to understanding the effects of muscle properties on motor control. <i>Journal of Neuroscience Methods</i> , <b>2000</b> , 101, 117-30                                                                                  | 3    | 140 |
| 37 | Measured and modeled properties of mammalian skeletal muscle: III. the effects of stimulus frequency on stretch-induced force enhancement and shortening-induced force depression. <i>Journal of Muscle Research and Cell Motility</i> , <b>2000</b> , 21, 21-31 | 3.5  | 37  |
| 36 | Measured and modeled properties of mammalian skeletal muscle: IV. dynamics of activation and deactivation. <i>Journal of Muscle Research and Cell Motility</i> , <b>2000</b> , 21, 33-47                                                                         | 3.5  | 63  |
| 35 | What do reflex and voluntary mean? Modern views on an ancient debate. <i>Experimental Brain Research</i> , <b>2000</b> , 130, 417-32                                                                                                                             | 2.3  | 115 |
| 34 | A Reductionist Approach to Creating and Using Neuromusculoskeletal Models <b>2000</b> , 148-163                                                                                                                                                                  |      | 87  |
| 33 | BIONImplants for Therapeutic and Functional Electrical Stimulation. <i>Frontiers in Neuroscience</i> , <b>2000</b> ,                                                                                                                                             |      | 8   |
| 32 | Measured and modeled properties of mammalian skeletal muscle. II. The effects of stimulus frequency on force-length and force-velocity relationships. <i>Journal of Muscle Research and Cell Motility</i> , <b>1999</b> , 20, 627-43                             | 3.5  | 113 |
| 31 | Measured and modeled properties of mammalian skeletal muscle. I. The effects of post-activation potentiation on the time course and velocity dependencies of force production. <i>Journal of Muscle Research and Cell Motility</i> , <b>1999</b> , 20, 443-56    | 3.5  | 50  |
| 30 | What might the brain know about muscles, limbs and spinal circuits?. <i>Progress in Brain Research</i> , <b>1999</b> , 123, 405-9                                                                                                                                | 2.9  | 11  |
| 29 | Relating Muscle Activity to Movement in Animals <b>1999</b> , 777-786                                                                                                                                                                                            |      |     |
| 28 | The effect of sarcomere length on triad location in intact feline caudofemoralis muscle fibres. <i>Journal of Muscle Research and Cell Motility</i> , <b>1998</b> , 19, 473-7                                                                                    | 3.5  | 11  |
| 27 | Feline caudofemoralis muscle. Muscle fibre properties, architecture, and motor innervation. <i>Experimental Brain Research</i> , <b>1998</b> , 121, 76-91                                                                                                        | 2.3  | 42  |
| 26 | Design for an inexpensive but effective cochlear implant. <i>Otolaryngology - Head and Neck Surgery</i> , <b>1998</b> , 118, 235-41                                                                                                                              | 5.5  | 12  |
| 25 | Post-Activation Potentiation A Clue for Simplifying Models of Muscle Dynamics. <i>American Zoologist</i> , <b>1998</b> , 38, 743-754                                                                                                                             |      | 41  |
| 24 | An Information Highway To the Auditory Nerve. <i>Seminars in Hearing</i> , <b>1996</b> , 17, 309-316                                                                                                                                                             | 2    | 4   |
| 23 | Directional motor control. <i>Trends in Neurosciences</i> , <b>1996</b> , 19, 137-8                                                                                                                                                                              | 13.3 | 9   |
| 22 | Mechanics of feline soleus: I. Effect of fascicle length and velocity on force output. <i>Journal of Muscle Research and Cell Motility</i> , <b>1996</b> , 17, 207-19                                                                                            | 3.5  | 90  |



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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 21 | Mechanics of feline soleus: II. Design and validation of a mathematical model. <i>Journal of Muscle Research and Cell Motility</i> , <b>1996</b> , 17, 221-33                | 3.5  | 89  |
| 20 | Relationships between range of motion, lo, and passive force in five strap-like muscles of the feline hind limb. <i>Journal of Morphology</i> , <b>1996</b> , 230, 69-77     | 1.6  | 45  |
| 19 | What can we expect from models of motor control?. <i>Behavioral and Brain Sciences</i> , <b>1995</b> , 18, 767-768                                                           | 0.9  |     |
| 18 | Mechanical properties of aponeurosis and tendon of the cat soleus muscle during whole-muscle isometric contractions. <i>Journal of Morphology</i> , <b>1995</b> , 224, 73-86 | 1.6  | 118 |
| 17 | Architectural features of multiarticular muscles. <i>Human Movement Science</i> , <b>1994</b> , 13, 545-556                                                                  | 2.4  | 4   |
| 16 | Why cats pace on the treadmill. <i>Physiology and Behavior</i> , <b>1993</b> , 53, 501-7                                                                                     | 3.5  | 36  |
| 15 | Issues in cochlear prosthetics from an international survey of opinions. <i>International Journal of Technology Assessment in Health Care</i> , <b>1991</b> , 7, 403-10      | 1.8  | 3   |
| 14 | Architecture and consequent physiological properties of the semitendinosus muscle in domestic goats. <i>Journal of Morphology</i> , <b>1989</b> , 199, 287-97                | 1.6  | 138 |
| 13 | Neural prosthetic interfaces with the nervous system. <i>Trends in Neurosciences</i> , <b>1989</b> , 12, 195-201                                                             | 13.3 | 43  |
| 12 | Motor partitioning: Epiphenomena masquerading as control theory. <i>Behavioral and Brain Sciences</i> , <b>1989</b> , 12, 660-661                                            | 0.9  | 2   |
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| 8  | The Control and Responses of Mammalian Muscle Spindles During Normally Executed Motor Tasks. <i>Exercise and Sport Sciences Reviews</i> , <b>1984</b> , 12, 157-204          | 6.7  | 221 |
| 7  | Spatial cross-correlation. A proposed mechanism for acoustic pitch perception. <i>Biological Cybernetics</i> , <b>1983</b> , 47, 149-63                                      | 2.8  | 107 |
| 6  | Biophysical considerations in electrical stimulation of the auditory nervous system. <i>Annals of the New York Academy of Sciences</i> , <b>1983</b> , 405, 123-36           | 6.5  | 50  |
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| 4  | Parylene as a chronically stable, reproducible microelectrode insulator. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1977</b> , 24, 121-8                        | 5    | 195 |

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| 3 | Ventral root projections of myelinated dorsal root ganglion cells in the cat. <i>Brain Research</i> , <b>1976</b> , 106, 159-65                                 | 3-7 | 36 |
| 2 | Decreased conduction velocity in the proximal projections of myelinated dorsal root ganglion cells in the cat. <i>Brain Research</i> , <b>1976</b> , 103, 381-5 | 3-7 | 40 |
| 1 | Biomimetic design of neural prostheses587-601                                                                                                                   |     | 1  |