

# Kemal Sitki TÃ¼rker

## List of Publications by Year in descending order

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135  
papers

2,532  
citations

236925

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254184

43  
g-index

140  
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140  
docs citations

140  
times ranked

1858  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromyography: Some Methodological Problems and Issues. <i>Physical Therapy</i> , 1993, 73, 698-710.	2.4	210
2	EMG and strength correlates of selected shoulder muscles during rotations of the glenohumeral joint. <i>Clinical Biomechanics</i> , 2000, 15, 95-102.	1.2	131
3	R<sc>eflex</sc> C<sc>ontrol of</sc> H<sc>uman</sc> J<sc>aw</sc> M<sc>uscles</sc>. <i>Critical Reviews in Oral Biology and Medicine</i> , 2002, 13, 85-104.	4.4	127
4	A review of the H-reflex and M-wave in the human triceps surae. <i>Human Movement Science</i> , 2005, 24, 667-688.	1.4	96
5	A method for quantifying reflex responses from intra-muscular and surface electromyogram. <i>Journal of Neuroscience Methods</i> , 2003, 122, 179-193.	2.5	77
6	Effect of gender, age, fatigue and contraction level on electromechanical delay. <i>Clinical Neurophysiology</i> , 2010, 121, 1700-1706.	1.5	66
7	Motor-unit firing frequency can be used for the estimation of synaptic potentials in human motoneurons. <i>Journal of Neuroscience Methods</i> , 1994, 53, 225-234.	2.5	60
8	Standardization of H-reflex analyses. <i>Journal of Neuroscience Methods</i> , 2007, 162, 1-7.	2.5	58
9	Changes in H-reflex and V-waves following spinal manipulation. <i>Experimental Brain Research</i> , 2015, 233, 1165-1173.	1.5	57
10	Conditions for excitatory or inhibitory masseteric reflexes elicited by tooth pressure in man. <i>Archives of Oral Biology</i> , 1997, 42, 121-128.	1.8	53
11	A new method to estimate signal cancellation in the human maximal M-wave. <i>Journal of Neuroscience Methods</i> , 2005, 149, 31-41.	2.5	50
12	Estimating reflex responses in large populations of motor units by decomposition of the high-density surface electromyogram. <i>Journal of Physiology</i> , 2015, 593, 4305-4318.	2.9	46
13	Twitch tension in the jaw muscles of the cat at various degrees of mouth opening. <i>Archives of Oral Biology</i> , 1978, 23, 917-920.	1.8	45
14	The lip-clip: A simple, low-impedance ground electrode for use in human electrophysiology. <i>Brain Research Bulletin</i> , 1988, 21, 139-141.	3.0	45
15	HEADACHES AND NECK PAIN IN FARMERS. <i>Australian Journal of Rural Health</i> , 1997, 5, 2-5.	1.5	44
16	The role of periodontal mechanoreceptors in mastication. <i>Archives of Oral Biology</i> , 2007, 52, 361-364.	1.8	44
17	Cross-talk from other muscles can contaminate EMG signals in reflex studies of the human leg. <i>Neuroscience Letters</i> , 1990, 111, 164-169.	2.1	43
18	The effects of a single session of spinal manipulation on strength and cortical drive in athletes. <i>European Journal of Applied Physiology</i> , 2018, 118, 737-749.	2.5	38

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19	Reflex Responses Induced by Tooth Unloading. <i>Journal of Neurophysiology</i> , 2000, 84, 1088-1092.	1.8	37
20	Perceptual distortion of face deletion by local anaesthesia of the human lips and teeth. <i>Experimental Brain Research</i> , 2005, 165, 37-43.	1.5	37
21	Rectification of SEMG as a tool to demonstrate synchronous motor unit activity during vibration. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 275-284.	1.7	37
22	Is Myofascial Pain in Temporomandibular Disorder Patients a Manifestation of Delayed-onset Muscle Soreness?. <i>Clinical Journal of Pain</i> , 2013, 29, 712-716.	1.9	37
23	Impact of Spinal Manipulation on Cortical Drive to Upper and Lower Limb Muscles. <i>Brain Sciences</i> , 2017, 7, 2.	2.3	37
24	The effect of stimulus intensity and gape on electrically-evoked jaw reflexes in man. <i>Archives of Oral Biology</i> , 1985, 30, 621-626.	1.8	34
25	Simple reaction-time responses to mechanical and electrical stimuli in human masseter muscle. <i>Archives of Oral Biology</i> , 1993, 38, 221-226.	1.8	28
26	Compound group I excitatory input is differentially distributed to motoneurons of the human tibialis anterior. <i>Neuroscience Letters</i> , 1994, 178, 206-210.	2.1	25
27	Interference of tonic muscle activity on the EEG: a single motor unit study. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 504.	2.0	23
28	The contemporary model of vertebral column joint dysfunction and impact of high-velocity, low-amplitude controlled vertebral thrusts on neuromuscular function. <i>European Journal of Applied Physiology</i> , 2021, 121, 2675-2720.	2.5	22
29	Surface electromyography, force and single motor-unit data for inhibitory reflex responses in human masseter at two levels of excitatory drive. <i>Archives of Oral Biology</i> , 1989, 34, 731-737.	1.8	21
30	Onion Skin or Common Drive?. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 2.	3.7	20
31	Posture modulates the sensitivity of the H-reflex. <i>Experimental Brain Research</i> , 2018, 236, 829-835.	1.5	20
32	Motor units as tools to evaluate profile of human Renshaw inhibition. <i>Journal of Physiology</i> , 2019, 597, 2185-2199.	2.9	20
33	Human stretch reflex pathways reexamined. <i>Journal of Neurophysiology</i> , 2014, 111, 602-612.	1.8	19
34	The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients. <i>Scientific Reports</i> , 2019, 9, 2673.	3.3	19
35	Harmaline disrupts acquisition of conditioned nictitating membrane responses. <i>Brain Research Bulletin</i> , 1984, 13, 229-233.	3.0	18
36	Evocation of either excitatory or inhibitory reflex responses in human masseter muscle by electrical stimulation of the lip at varying intensities. <i>Archives of Oral Biology</i> , 1994, 39, 701-706.	1.8	18

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37	Cutaneous silent period in human FDI motor units. <i>Experimental Brain Research</i> , 2010, 205, 455-463.	1.5	18
38	Provocation of delayed-onset muscle soreness in the human jaw-closing muscles. <i>Archives of Oral Biology</i> , 2010, 55, 621-626.	1.8	18
39	Periodontal anaesthesia reduces common 8ÂHz input to masseters during isometric biting. <i>Experimental Brain Research</i> , 2006, 169, 326-337.	1.5	17
40	What Can Be Learned About Motoneurone Properties from Studying Firing Patterns?. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 199-205.	1.6	17
41	Response of human jaw muscles to axial stimulation of the incisor. <i>Journal of Physiology</i> , 2003, 547, 233-245.	2.9	17
42	A comparison of the masseteric silent period in temporomandibular joint dysfunction and normal human subjects by surface electromyography and single motor-unit recordings. <i>Archives of Oral Biology</i> , 1989, 34, 943-948.	1.8	16
43	The role of the muscle spindles in human masseter. <i>Human Movement Science</i> , 2001, 20, 489-497.	1.4	16
44	Illusion caused by vibration of muscle spindles reveals an involvement of muscle spindle inputs in regulating isometric contraction of masseter muscles. <i>Journal of Neurophysiology</i> , 2012, 108, 2524-2533.	1.8	16
45	Chiropractic spinal manipulation alters TMS induced I-wave excitability and shortens the cortical silent period. <i>Journal of Electromyography and Kinesiology</i> , 2018, 42, 24-35.	1.7	16
46	Properties of synaptic noise in tonically active human motoneurons. <i>Journal of Electromyography and Kinesiology</i> , 1992, 2, 189-202.	1.7	15
47	Muscle Spindle Afferent Input to Motoneurons in Human Masseter. <i>Journal of Neurophysiology</i> , 1999, 82, 505-507.	1.8	15
48	Deciphering the contribution of intrinsic and synaptic currents to the effects of transient synaptic inputs on human motor unit discharge. <i>Clinical Neurophysiology</i> , 2010, 121, 1643-1654.	1.5	15
49	Whole-body vibration-induced muscular reflex: Is it a stretch-induced reflex?. <i>Journal of Physical Therapy Science</i> , 2015, 27, 2279-2284.	0.6	15
50	Whole-body vibration induces distinct reflex patterns in human soleus muscle. <i>Journal of Electromyography and Kinesiology</i> , 2017, 34, 93-101.	1.7	15
51	Correlated changes in the firing rate of human motor units during voluntary contraction. <i>Experimental Brain Research</i> , 1996, 111, 455-64.	1.5	14
52	Methods of time and frequency domain examination of physiological tremor in the human jaw. <i>Human Movement Science</i> , 2005, 24, 657-666.	1.4	14
53	A study of synaptic connection between low threshold afferent fibres in common peroneal nerve and motoneurons in human tibialis anterior. <i>Experimental Brain Research</i> , 2008, 191, 465-472.	1.5	14
54	Threshold for Detection of Incisal Forces Is Increased by Jaw Movement. <i>Journal of Dental Research</i> , 2010, 89, 395-399.	5.2	14

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55	Modulation of an inhibitory reflex in single motor units in human masseter at different joint angles. <i>Neuroscience Letters</i> , 1989, 100, 157-163.	2.1	13
56	Triceps surae stretch and voluntary contraction alters maximal M-wave magnitude. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 203-211.	1.7	13
57	Influence of tooth clench on the soleus H-reflex. <i>Archives of Oral Biology</i> , 2007, 52, 374-376.	1.8	13
58	Tonic activity of the human temporalis muscle at mandibular rest position. <i>Archives of Oral Biology</i> , 2015, 60, 1645-1649.	1.8	13
59	Threshold depolarization measurements in resting human motoneurons. <i>Journal of Neuroscience Methods</i> , 1991, 39, 103-107.	2.5	12
60	Effects of Twin-block therapy on protrusive muscle functions. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2000, 118, 392-396.	1.7	12
61	A study on synaptic coupling between single orofacial mechanoreceptors and human masseter muscle. <i>Experimental Brain Research</i> , 2006, 170, 488-500.	1.5	12
62	Periodontal anaesthetisation decreases rhythmic synchrony between masseteric motor units at the frequency of jaw tremor. <i>Experimental Brain Research</i> , 2007, 179, 673-682.	1.5	12
63	Tendon reflex is suppressed during whole-body vibration. <i>Journal of Electromyography and Kinesiology</i> , 2016, 30, 191-195.	1.7	12
64	Optimal location for eliciting the tibial H-reflex and motor response. <i>Muscle and Nerve</i> , 2018, 58, 828-833.	2.2	12
65	A new method for eliciting and studying H-reflexes in the human masseter. <i>Archives of Oral Biology</i> , 1997, 42, 371-376.	1.8	11
66	Response of human jaw muscles to axial stimulation of a molar tooth. <i>Experimental Brain Research</i> , 2004, 159, 214-224.	1.5	11
67	A device for investigating neuromuscular control in the human masticatory system. <i>Journal of Neuroscience Methods</i> , 2004, 136, 141-149.	2.5	11
68	Responses of human soleus motor units to low-threshold stimulation of the tibial nerve. <i>Experimental Brain Research</i> , 2011, 213, 73-86.	1.5	11
69	Comparison of the inhibitory response to tendon and cutaneous afferent stimulation in the human lower limb. <i>Journal of Neurophysiology</i> , 2012, 107, 564-572.	1.8	11
70	Transcranial magnetic stimulation and peristimulus frequencygram. <i>Clinical Neurophysiology</i> , 2012, 123, 1002-1009.	1.5	11
71	A new method to determine reflex latency induced by high rate stimulation of the nervous system. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 536.	2.0	11
72	Standardization of the Jendrassik maneuver in Achilles tendon tap reflex. <i>Clinical Neurophysiology Practice</i> , 2018, 3, 1-5.	1.4	11

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73	Amyotrophic lateral sclerosis weakens spinal recurrent inhibition and post-activation depression. <i>Clinical Neurophysiology</i> , 2020, 131, 2875-2886.	1.5	11
74	Reflex responses to periodontal and auditory stimulation in human masseter. <i>Journal of Oral Rehabilitation</i> , 1994, 21, 287-297.	3.0	10
75	Chiropractic Manipulation Increases Maximal Bite Force in Healthy Individuals. <i>Brain Sciences</i> , 2018, 8, 76.	2.3	10
76	The shape of the membrane potential trajectory in tonically-active human motoneurons. <i>Journal of Electromyography and Kinesiology</i> , 1995, 5, 3-14.	1.7	9
77	Intracortical inhibition in the human trigeminal motor system. <i>Clinical Neurophysiology</i> , 2007, 118, 1785-1793.	1.5	9
78	Synaptic potentials contributing to reflex inhibition in gastrocnemius following tendon electrical stimulation. <i>Clinical Neurophysiology</i> , 2011, 122, 1190-1196.	1.5	9
79	Activation properties of trigeminal motoneurons in participants with and without bruxism. <i>Journal of Neurophysiology</i> , 2013, 110, 2863-2872.	1.8	9
80	Mimicking human neuronal pathways in silico: an emergent model on the effective connectivity. <i>Journal of Computational Neuroscience</i> , 2014, 36, 235-257.	1.0	9
81	Jaw movement alters the reaction of human jaw muscles to incisor stimulation. <i>Experimental Brain Research</i> , 2005, 164, 165-176.	1.5	8
82	Modulation of human exteroceptive jaw reflexes during simulated mastication. <i>Clinical Neurophysiology</i> , 2009, 120, 398-406.	1.5	8
83	Simulating Human Single Motor Units Using Self-Organizing Agents. , 2012, , .		8
84	Double discharges in human soleus muscle. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 843.	2.0	8
85	Jaw tremor as a physiological biomarker of bruxism. <i>Clinical Neurophysiology</i> , 2015, 126, 1746-1753.	1.5	8
86	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. <i>PLoS ONE</i> , 2019, 14, e0225535.	2.5	8
87	Distribution of periodontal afferent input to motoneurons of human masseter. <i>Archives of Oral Biology</i> , 2001, 46, 989-996.	1.8	7
88	Compound group I excitatory input is differentially distributed to human soleus motoneurons. <i>Clinical Neurophysiology</i> , 2012, 123, 2192-2199.	1.5	7
89	Teeth clenching reduces arm abduction force. <i>Experimental Brain Research</i> , 2014, 232, 2281-2291.	1.5	7
90	Vibration parameters affecting vibration-induced reflex muscle activity. <i>Somatosensory &amp; Motor Research</i> , 2017, 34, 47-51.	0.9	7

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91	Mandibular physiological tremor is reduced by increasing-force ramp contractions and periodontal anaesthesia. <i>Experimental Brain Research</i> , 2007, 184, 71-82.	1.5	6
92	Modulation of Masseteric Reflexes by Simulated Mastication. <i>Journal of Dental Research</i> , 2010, 89, 61-65.	5.2	6
93	Masseter length determines muscle spindle reflex excitability during jaw-closing movements. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2011, 139, e305-e313.	1.7	6
94	A method for protrusive mandibular force measurement in children. <i>Archives of Oral Biology</i> , 2000, 45, 113-121.	1.8	5
95	Estimating relative motoneurone size in human masseter muscle. <i>Archives of Oral Biology</i> , 2000, 45, 617-620.	1.8	5
96	Reflexes as tools to study human neuromuscular system. <i>Clinical Neurophysiology</i> , 2010, 121, 1599-1601.	1.5	5
97	Cutaneous silent period evoked in human first dorsal interosseous muscle motor units by laser stimulation. <i>Journal of Electromyography and Kinesiology</i> , 2016, 31, 104-110.	1.7	5
98	EEG-like signals can be synthesized from surface representations of single motor units of facial muscles. <i>Experimental Brain Research</i> , 2018, 236, 1007-1017.	1.5	5
99	Facial muscle activity contaminates EEG signal at rest: evidence from frontalis and temporalis motor units. <i>Journal of Neural Engineering</i> , 2019, 16, 066029.	3.5	5
100	Jendrassik maneuver effect on spinal and brainstem reflexes. <i>Experimental Brain Research</i> , 2019, 237, 3265-3271.	1.5	5
101	Periodontal mechanoreceptors and bruxism at low bite forces. <i>Archives of Oral Biology</i> , 2019, 98, 87-91.	1.8	5
102	Cross-training effect of chronic whole-body vibration exercise: a randomized controlled study. <i>Somatosensory &amp; Motor Research</i> , 2020, 37, 51-58.	0.9	5
103	Exploring the receptor origin of vibration-induced reflexes. <i>Spinal Cord</i> , 2020, 58, 716-723.	1.9	5
104	EMG, force and discharge rate analysis of human jaw reflexes in response to axial stimulation of the incisor. <i>Experimental Brain Research</i> , 2005, 161, 145-154.	1.5	4
105	Mandibular tremor during isometric contractions. <i>Archives of Oral Biology</i> , 2007, 52, 353-356.	1.8	4
106	Medium latency excitatory reflex of soleus re-examined. <i>Experimental Brain Research</i> , 2019, 237, 1717-1725.	1.5	4
107	Effect of aging on H-reflex response to fatigue. <i>Experimental Brain Research</i> , 2020, 238, 273-282.	1.5	4
108	Representation of human masseter motor unit action potentials on the EMG and its implication for trigeminal reflex investigation. <i>Archives of Oral Biology</i> , 2001, 46, 569-572.	1.8	3

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109	Periodontal-Masseteric Reflexes Decrease with Tooth Pre-load. Journal of Dental Research, 2008, 87, 175-179.	5.2	3
110	Post-activation depression of primary afferents reevaluated in humans. Journal of Electromyography and Kinesiology, 2020, 54, 102460.	1.7	3
111	Estimating Exercise-Induced Changes in Human Neuronal Networks. Exercise and Sport Sciences Reviews, 2021, 49, 147-156.	3.0	3
112	Understanding disorders of the masticatory system. Archives of Oral Biology, 2006, 51, 711-712.	1.8	2
113	Reevaluation of reflex responses of the human masseter muscle to electrical lip stimulation. Journal of Neurophysiology, 2017, 118, 1082-1091.	1.8	2
114	Assessment of the corticospinal fiber integrity in mirror movement disorder. Journal of Clinical Neuroscience, 2018, 54, 69-76.	1.5	2
115	A stimulus rate that is not influenced by homosynaptic post-activation depression in chronic stroke. Somatosensory & Motor Research, 2020, 37, 271-276.	0.9	2
116	The effect of temperature on the contraction characteristics of jaw muscles in the cat. Archives of Oral Biology, 1984, 29, 477-478.	1.8	1
117	Two different analyzing methods for inhibitory reflexes: Do they yield comparable outcomes?. Journal of Neuroscience Methods, 2016, 274, 49-52.	2.5	1
118	Using first bout effect to study the mechanisms underlying eccentric exercise induced force loss. Journal of Bodywork and Movement Therapies, 2019, 23, 48-53.	1.2	1
119	A new method to determine stretch reflex latency. Muscle and Nerve, 2021, 64, 726-733.	2.2	1
120	Electromyographical Recordings During Vibration. , 2020, , 109-120.		1
121	Assessing Reflex Latencies in Responses to Vibration: Evidence for the Involvement of More Than One Receptor. , 2020, , 135-142.		1
122	The reflex mechanism underlying the neuromuscular effects of whole-body vibration: Is it the tonic vibration reflex?. Journal of Musculoskeletal Neuronal Interactions, 2022, 22, 37-42.	0.1	1
123	Reflex control of human mastication by periodontal mechanoreceptors. Australian Dental Journal, 2007, 52, S43-S43.	1.5	0
124	Chiropractic Alters TMS Induced Motor Neuronal Excitability: Preliminary Findings. Biosystems and Biorobotics, 2014, , 35-37.	0.3	0
125	High pass filtering and rectification of SEMG as a tool to demonstrate synchronous motor unit activity during vibration. Journal of Electromyography and Kinesiology, 2014, 24, 488.	1.7	0
126	Comparison of the temporal properties of medium latency responses induced by cortical and peripheral stimulation. Journal of Electromyography and Kinesiology, 2020, 55, 102477.	1.7	0



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127	Investigating the Synaptic Control of Human Motoneurons. <i>Frontiers in Neuroscience</i> , 2001, , 106-132.	0.0	0
128	Reflex Circuitry Originating from the Muscle Spindles to the Tibialis Anterior Muscle. <i>Biosystems and Biorobotics</i> , 2017, , 177-181.	0.3	0
129	An opinion on the 'delayed spikes' in human motoneurons. <i>Experimental Brain Research</i> , 2022, 240, 1-3.	1.5	0
130	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. , 2019, 14, e0225535.		0
131	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. , 2019, 14, e0225535.		0
132	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. , 2019, 14, e0225535.		0
133	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. , 2019, 14, e0225535.		0
134	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. , 2019, 14, e0225535.		0
135	Transcranial magnetic stimulation induced early silent period and rebound activity re-examined. , 2019, 14, e0225535.		0