Giuseppe Granata

List of Publications by Year in descending order

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117625 102487 5,039 136 34 66 citations g-index h-index papers 143 143 143 5329 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. Science Translational Medicine, 2014, 6, 222ra19.	12.4	805
2	Biomimetic Intraneural Sensory Feedback Enhances Sensation Naturalness, Tactile Sensitivity, and Manual Dexterity in a Bidirectional Prosthesis. Neuron, 2018, 100, 37-45.e7.	8.1	265
3	The chemotherapy-induced peripheral neuropathy outcome measures standardization study: from consensus to the first validity and reliability findings. Annals of Oncology, 2013, 24, 454-462.	1.2	232
4	A closed-loop hand prosthesis with simultaneous intraneural tactile and position feedback. Science Robotics, $2019, 4, .$	17.6	198
5	Ultrasound as a useful tool in the diagnosis and management of traumatic nerve lesions. Clinical Neurophysiology, 2013, 124, 1237-1243.	1.5	152
6	Heterogeneity of root and nerve ultrasound pattern in CIDP patients. Clinical Neurophysiology, 2014, 125, 160-165.	1.5	142
7	Sixâ€Month Assessment of a Hand Prosthesis with Intraneural Tactile Feedback. Annals of Neurology, 2019, 85, 137-154.	5. 3	140
8	Carpal tunnel syndrome: Ultrasound, neurophysiology, clinical and patient-oriented assessment. Clinical Neurophysiology, 2008, 119, 2064-2069.	1.5	106
9	Intra―and internerve crossâ€sectional area variability: New ultrasound measures. Muscle and Nerve, 2012, 45, 730-733.	2.2	104
10	Multisensory bionic limb to achieve prosthesis embodiment and reduce distorted phantom limb perceptions. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 833-836.	1.9	101
11	Essential oils encapsulated in polymer-based nanocapsules as potential candidates for application in food preservation. Food Chemistry, 2018, 269, 286-292.	8.2	98
12	Cortical connectivity and memory performance in cognitive decline: A study via graph theory from EEG data. Neuroscience, 2016, 316, 143-150.	2.3	95
13	Shared human–robot proportional control of a dexterous myoelectric prosthesis. Nature Machine Intelligence, 2019, 1, 400-411.	16.0	91
14	Focal Muscle Vibration in the Treatment of Upper Limb Spasticity: A Pilot Randomized Controlled Trial in Patients With Chronic Stroke. Archives of Physical Medicine and Rehabilitation, 2012, 93, 1656-1661.	0.9	86
15	"Small World―architecture in brain connectivity and hippocampal volume in Alzheimer's disease: a study via graph theory from EEG data. Brain Imaging and Behavior, 2017, 11, 473-485.	2.1	85
16	Comparison of linear frequency and amplitude modulation for intraneural sensory feedback in bidirectional hand prostheses. Scientific Reports, 2018, 8, 16666.	3.3	85
17	Contribution of ultrasound in the assessment of nerve diseases. European Journal of Neurology, 2012, 19, 47-54.	3.3	82
18	Intraneural sensory feedback restores grip force control and motor coordination while using a prosthetic hand. Journal of Neural Engineering, 2019, 16, 026034.	3.5	66

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19	Prognostic Value of EEG Microstates in Acute Stroke. Brain Topography, 2017, 30, 698-710.	1.8	65
20	Potential Eye Drop Based on a Calix[4]arene Nanoassembly for Curcumin Delivery: Enhanced Drug Solubility, Stability, and Anti-Inflammatory Effect. Molecular Pharmaceutics, 2017, 14, 1610-1622.	4.6	61
21	Oregano (Origanum vulgare L.) essential oil provides anti-inflammatory activity and facilitates wound healing in a human keratinocytes cell model. Food and Chemical Toxicology, 2020, 144, 111586.	3.6	56
22	Ultrasound visualization of nerve morphological alteration at the site of conduction block. Muscle and Nerve, 2009, 40, 1068-1070.	2.2	54
23	Characterization of multi-channel intraneural stimulation in transradial amputees. Scientific Reports, 2019, 9, 19258.	3.3	51
24	Synthesis of water-soluble nucleotide-calixarene conjugates and preliminary investigation of their in vitro DNA replication inhibitory activity. Tetrahedron, 2007, 63, 10758-10763.	1.9	50
25	First Self-Adjuvant Multicomponent Potential Vaccine Candidates by Tethering of Four or Eight MUC1 Antigenic Immunodominant PDTRP Units on a Calixarene Platform: Synthesis and Biological Evaluation. Bioconjugate Chemistry, 2013, 24, 1710-1720.	3.6	45
26	Oregano and Thyme Essential Oils Encapsulated in Chitosan Nanoparticles as Effective Antimicrobial Agents against Foodborne Pathogens. Molecules, 2021, 26, 4055.	3.8	42
27	Prevalence of bifid median nerve at wrist assessed through ultrasound. Neurological Sciences, 2011, 32, 615-618.	1.9	41
28	Ultrasound and neurophysiological correlation in common fibular nerve conduction block at fibular head. Clinical Neurophysiology, 2014, 125, 1491-1495.	1.5	41
29	A bactericidal calix[4]arene-based nanoconstruct with amplified NO photorelease. Organic and Biomolecular Chemistry, 2016, 14, 8047-8052.	2.8	40
30	Design, synthesis and antibacterial evaluation of a polycationic calix[4] arene derivative alone and in combination with antibiotics. MedChemComm, 2018, 9, 160-164.	3.4	40
31	Small World Index in Default Mode Network Predicts Progression from Mild Cognitive Impairment to Dementia. International Journal of Neural Systems, 2020, 30, 2050004.	5 . 2	40
32	Multivalent calixarene-based C-fucosyl derivative: a new Pseudomonas aeruginosa biofilm inhibitor. Tetrahedron Letters, 2011, 52, 5831-5834.	1.4	39
33	Decoding of grasping tasks from intraneural recordings in trans-radial amputee. Journal of Neural Engineering, 2020, 17, 026034.	3 . 5	39
34	Optimal integration of intraneural somatosensory feedback with visual information: a single-case study. Scientific Reports, 2019, 9, 7916.	3. 3	38
35	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.	3 . 5	38
36	Spontaneous Self-Assembly of Water-Soluble Nucleotideâ^'Calixarene Conjugates in Small Micelles Coalescing to Microspheres. Langmuir, 2008, 24, 6194-6200.	3 . 5	37

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37	6MWT can identify type 3 SMA patients with neuromuscular junction dysfunction. Neuromuscular Disorders, 2017, 27, 879-882.	0.6	36
38	Phantom somatosensory evoked potentials following selective intraneural electrical stimulation in two amputees. Clinical Neurophysiology, 2018, 129, 1117-1120.	1.5	35
39	Hydroxycinnamic acids loaded in lipid-core nanocapsules. Food Chemistry, 2018, 245, 551-556.	8.2	35
40	Nerve ultrasound findings in neuropathy associated with antiâ€myelinâ€associated glycoprotein antibodies. European Journal of Neurology, 2015, 22, 193-202.	3.3	34
41	Entrapment neuropathies and polyneuropathies in joint hypermobility syndrome/Ehlers–Danlos syndrome. Clinical Neurophysiology, 2013, 124, 1689-1694.	1.5	32
42	Ultrasound evaluation in transthyretinâ€related amyloid neuropathy. Muscle and Nerve, 2014, 50, 372-376.	2.2	32
43	Design and synthesis of a multivalent fluorescent folate–calix[4]arene conjugate: cancer cell penetration and intracellular localization. Organic and Biomolecular Chemistry, 2015, 13, 3298-3307.	2.8	32
44	Hand Control With Invasive Feedback Is Not Impaired by Increased Cognitive Load. Frontiers in Bioengineering and Biotechnology, 2020, 8, 287.	4.1	31
45	Primary multifocal lymphoma of peripheral nervous system: Case report and review of the literature. Muscle and Nerve, 2014, 50, 1016-1022.	2.2	30
46	Morphological Neural Computation Restores Discrimination of Naturalistic Textures in Trans-radial Amputees. Scientific Reports, 2020, 10, 527.	3.3	30
47	Sonographic diagnosis of anatomical variations associated with carpal tunnel syndrome. Journal of Clinical Ultrasound, 2014, 42, 371-374.	0.8	28
48	Non-invasive electric current stimulation for restoration of vision after unilateral occipital stroke. Contemporary Clinical Trials, 2015, 43, 231-236.	1.8	28
49	Different nerve ultrasound patterns in charcotâ€marieâ€tooth types and hereditary neuropathy with liability to pressure palsies. Muscle and Nerve, 2018, 57, E18-E23.	2.2	28
50	Nanoencapsulated Essential Oils with Enhanced Antifungal Activity for Potential Application on Agri-Food, Material and Environmental Fields. Antibiotics, 2021, 10, 31.	3.7	28
51	Ultrasound evaluation of peripheral neuropathy in POEMS syndrome. Muscle and Nerve, 2011, 44, 868-872.	2.2	27
52	Transcranial direct current stimulation generates a transient increase of small-world in brain connectivity: an EEG graph theoretical analysis. Experimental Brain Research, 2018, 236, 1117-1127.	1.5	27
53	Carob Seeds: Food Waste or Source of Bioactive Compounds?. Pharmaceutics, 2020, 12, 1090.	4.5	27
54	Inhibition of bacterial growth on marble stone of 18th century by treatment of nanoencapsulated essential oils. International Biodeterioration and Biodegradation, 2020, 148, 104909.	3.9	27

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55	Ultrasound assessment of oxaliplatinâ€induced neuropathy and correlations with neurophysiologic findings. European Journal of Neurology, 2013, 20, 188-192.	3.3	26
56	High ultrasound variability in chronic immune-mediated neuropathies. Review of the literature and personal observations. Revue Neurologique, 2013, 169, 984-990.	1.5	25
57	Ultrasound evaluation in traumatic peripheral nerve lesions: from diagnosis to surgical planning and follow-up. Acta Neurochirurgica, 2015, 157, 1947-1951.	1.7	25
58	Fibular nerve damage in knee dislocation: Spectrum of ultrasound patterns. Muscle and Nerve, 2015, 51, 859-863.	2.2	25
59	Muscle Microdialysis to Investigate Inflammatory Biomarkers in Facioscapulohumeral Muscular Dystrophy. Molecular Neurobiology, 2018, 55, 2959-2966.	4.0	25
60	Hydroxycinnamic acid clustered by a calixarene platform: radical scavenging and antioxidant activity. Tetrahedron Letters, 2006, 47, 6611-6614.	1.4	23
61	Design, synthesis, and drug solubilising properties of the first folate–calix[4]arene conjugate. Organic and Biomolecular Chemistry, 2011, 9, 6491.	2.8	23
62	Biofilm inhibition by biocompatible poly($\hat{l}\mu$ -caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. International Journal of Pharmaceutics, 2021, 606, 120846.	5.2	22
63	Electroencephalography-Derived Prognosis of Functional Recovery in Acute Stroke Through Machine Learning Approaches. International Journal of Neural Systems, 2020, 30, 2050067.	5.2	22
64	IN-RATIO: A new test to increase diagnostic sensitivity in ulnar nerve entrapment at elbow. Clinical Neurophysiology, 2008, 119, 1600-1606.	1.5	21
65	Supramolecular activation of the photodynamic properties of porphyrinoid photosensitizers by calix[4] arene nanoassemblies. RSC Advances, 2016, 6, 105573-105577.	3.6	21
66	Short-term effects of local microwave hyperthermia on pain and function in patients with mild to moderate carpal tunnel syndrome: a double blind randomized sham-controlled trial. Clinical Rehabilitation, 2011, 25, 1109-1118.	2.2	20
67	Patients' and physicians' interpretation of chemotherapyâ€induced peripheral neurotoxicity. Journal of the Peripheral Nervous System, 2019, 24, 111-119.	3.1	20
68	Topical Delivery of Curcumin by Choline-Calix[4] arene-Based Nanohydrogel Improves Its Therapeutic Effect on a Psoriasis Mouse Model. International Journal of Molecular Sciences, 2020, 21, 5053.	4.1	20
69	Injectable supramolecular nanohydrogel from a micellar self-assembling calix[4]arene derivative and curcumin for a sustained drug release. Materials Science and Engineering C, 2020, 111, 110842.	7.3	19
70	Ultrasound diagnosis of bony nerve entrapment: Case series and literature review. Muscle and Nerve, 2013, 48, 445-450.	2.2	17
71	From Mild Cognitive Impairment to Alzheimer's Disease: A New Perspective in the "Land―of Human Brain Reactivity and Connectivity. Journal of Alzheimer's Disease, 2016, 53, 1389-1393.	2.6	17
72	Secondary posterior interosseous nerve lesions associated with humeral fractures. Muscle and Nerve, 2016, 53, 375-378.	2.2	17

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73	Sensitivity to temporal parameters of intraneural tactile sensory feedback. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 110.	4.6	15
74	Novel nucleotide–calixarene conjugates via phosphoester linkage. Tetrahedron Letters, 2006, 47, 3245-3249.	1.4	14
75	Atypical double nerve lesion after humeral fracture: Diagnosis by ultrasound. Muscle and Nerve, 2010, 41, 287-288.	2.2	14
76	A new clinical scale to grade the impairment of median nerve in carpal tunnel syndrome. Clinical Neurophysiology, 2010, 121, 1066-1071.	1.5	14
77	Binding Affinity and Driving Forces for the Interaction of Calixarene-Based Micellar Aggregates With Model Antibiotics in Neutral Aqueous Solution. Frontiers in Chemistry, 2020, 8, 626467.	3.6	13
78	Occurrence and characterization of Pain in immuneâ€mediated neuropathies: a multicentre prospective study. European Journal of Neurology, 2011, 18, 177-183.	3.3	12
79	Computational approaches to decode grasping force and velocity level in upper-limb amputee from intraneural peripheral signals. Journal of Neural Engineering, 2021, 18, 055001.	3.5	12
80	Polymeric Nanocapsules Containing Fennel Essential Oil: Their Preparation, Physicochemical Characterization, Stability over Time and in Simulated Gastrointestinal Conditions. Pharmaceutics, 2022, 14, 873.	4.5	12
81	"Dropping objects― a potential index of severe carpal tunnel syndrome. Neurological Sciences, 2010, 31, 437-439.	1.9	11
82	Alcock canal syndrome due to obturator internus muscle fibrosis. Muscle and Nerve, 2010, 42, 431-432.	2.2	11
83	Simultaneous supramolecular activation of NO photodonor/photosensitizer ensembles by a calix[4]arene nanoreactor. New Journal of Chemistry, 2018, 42, 18096-18101.	2.8	11
84	Self-assembly of a nucleotide-calixarene hybrid in a triangular supramolecule. Tetrahedron Letters, 2007, 48, 7974-7977.	1.4	10
85	Does albuterol have an effect on neuromuscular junction dysfunction in spinal muscular atrophy?. Neuromuscular Disorders, 2018, 28, 863-864.	0.6	10
86	Microneurography as a tool to develop decoding algorithms for peripheral neuro-controlled hand prostheses. BioMedical Engineering OnLine, 2019, 18, 44.	2.7	10
87	Synthesis of a calix[4]arene derivative exposing multiple units of fucose and preliminary investigation as a potential broad-spectrum antibiofilm agent. Carbohydrate Research, 2019, 476, 60-64.	2.3	10
88	Non-invasive electrical brain stimulation for vision restoration after stroke: An exploratory randomized trial (REVIS). Restorative Neurology and Neuroscience, 2021, 39, 221-235.	0.7	10
89	Letter to the Editor Referring to "Peripheral Nerve Hypertrophy in Chronic Inflammatory Demyelinating Polyradiculoneuropathy Detected by Ultrasonography". Internal Medicine, 2009, 48, 2049-2049.	0.7	9
90	Prolonged phone-call posture causes changes of ulnar motor nerve conduction across elbow. Clinical Neurophysiology, 2016, 127, 2728-2732.	1.5	9

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91	Sonographic features in hereditary neuropathy with liability to pressure palsies. Muscle and Nerve, 2012, 45, 920-921.	2.2	8
92	Polymer supported calixarene derivative useful for solid-phase synthesis application. Tetrahedron Letters, 2010, 51, 6139-6142.	1.4	7
93	Singleâ€iber conduction velocity test allows earlier detection of abnormalities in diabetes. Muscle and Nerve, 2011, 43, 652-656.	2.2	7
94	Nerve ultrasound in patients with CMT1C: Description of 3 cases. Muscle and Nerve, 2015, 51, 781-782.	2.2	7
95	Antibacterial Nanoassembled Calix[4]arene Exposing Choline Units Inhibits Biofilm and Motility of Gram Negative Bacteria. ACS Medicinal Chemistry Letters, 2022, 13, 916-922.	2.8	7
96	The difficulty in confirming clinical diagnosis of myasthenia gravis in a seronegative patient: A possible neurophysiological approach. Neuromuscular Disorders, 2009, 19, 825-827.	0.6	6
97	Supramolecular assembly of a succinyl-calix[4]arene derivative in multilamellar vesicles. Supramolecular Chemistry, 2016, 28, 377-383.	1.2	6
98	Advanced 56 Channels Stimulation System to Drive Intrafascicular Electrodes. Biosystems and Biorobotics, 2017, , 743-747.	0.3	6
99	Brain reactions to the use of sensorized hand prosthesis in amputees. Brain and Behavior, 2020, 10, e01734.	2.2	6
100	Double site nerve lesion: Ultrasound diagnosed musculocutaneous involvement in traumatic brachial plexus injury. Clinical Neurophysiology, 2013, 124, 629-630.	1.5	5
101	High-frequency ultrasound in guiding needle insertion for microneurography. Clinical Neurophysiology, 2016, 127, 970-971.	1.5	5
102	Calixarene-based micelles. , 2018, , 89-143.		5
103	Cortical plasticity after hand prostheses use: Is the hypothesis of deafferented cortex "invasion― always true?. Clinical Neurophysiology, 2020, 131, 2341-2348.	1.5	5
104	Synthesis of Very Short Chain Lysophosphatidyloligodeoxynucleotidesâ€. Bioconjugate Chemistry, 2006, 17, 1022-1029.	3.6	4
105	Pattern of paresthesia in patients with carpal tunnel syndrome. Clinical Neurophysiology, 2007, 118, 1648.	1.5	4
106	Fibular nerve neurotmesis secondary to knee trauma: A diagnosis requiring nerve ultrasound. Clinical Neurophysiology, 2014, 125, 858-859.	1.5	4
107	Neurophysiological effect of transorbital electrical stimulation: Early results in advanced optic atrophy. Brain Stimulation, 2019, 12, 800-802.	1.6	4
108	Effect of Petal Color, Water Status, and Extraction Method on Qualitative Characteristics of Rosa rugosa Liqueur. Plants, 2022, 11, 1859.	3.5	4

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109	Author's response to Mauro Mondelli. Neurophysiologie Clinique, 2009, 39, 49-50.	2.2	3
110	The purview of multifascicle ulnar nerves in cubital tunnel syndrome: Single ase sonographic observation. Muscle and Nerve, 2010, 42, 298-299.	2.2	3
111	Low-Frequency rTMS of the Primary Motor Area Does Not Modify the Response of the Cerebral Cortex to Phasic Nociceptive Stimuli. Frontiers in Neuroscience, 2018, 12, 878.	2.8	3
112	Letter to Editor: Carpal tunnel syndrome due to an atypical deep soft tissue leiomyoma: The risk of misdiagnosis and mismanagement. World Journal of Surgical Oncology, 2008, 6, 22.	1.9	2
113	In response to "The ultrasonographic wrist-to-forearm median nerve area ratio in carpal tunnel syndrome― Clinical Neurophysiology, 2008, 119, 2414-2415.	1.5	2
114	Chemoenzymatic Synthesis and Some Biological Properties of O-phosphoryl Derivatives of (E)-resveratrol. Natural Product Communications, 2008, 3, 1934578X0800301.	0.5	2
115	Multiple bilateral sciatic compressions due to cast in a patient with leg lengthening diagnosed through ultrasound. Clinical Neurophysiology, 2011, 122, 2539-2540.	1.5	2
116	Multinodular plexiform tumors of major peripheral nerves: A practical overview. Journal of Clinical Neuroscience, 2021, 93, 106-111.	1.5	2
117	Small Fibre Involvement in Multifocal Motor Neuropathy Explored with Sudoscan: A Single-Centre Experience. Diagnostics, 2020, 10, 755.	2.6	2
118	Synthesis of $3\hat{a}\in^2(2\hat{a}\in^2)$ -O-Lysophosphatidylnucleosides \hat{a} a Further Application of a Chemoenzymatic Strategy. European Journal of Organic Chemistry, 2002, 2002, 3622-3631.	2.4	1
119	A dynamic ultrasonographic evaluation of the palmaris anomalous muscle. Clinical Anatomy, 2010, 23, 328-329.	2.7	1
120	An unusual anomaly of flexor carpi ulnaris diagnosed by ultrasound. Clinical Anatomy, 2010, 23, 1001-1002.	2.7	1
121	Reply. Muscle and Nerve, 2013, 47, 148-148.	2.2	1
122	Posterior interosseous nerve syndrome due to radioulnar joint cyst. Muscle and Nerve, 2013, 48, 842-843.	2.2	1
123	US diagnosis of sciatic nerve tumor proximal to gluteal fold. Neurological Sciences, 2014, 35, 1627-1628.	1.9	1
124	Bilateral tarsal tunnel syndrome related to intense cycling activity: proposal of a multimodal diagnostic approach. Neurological Sciences, 2015, 36, 1921-1923.	1.9	1
125	Posterior interosseous nerve anatomical variation: A possible protective factor for injuries. Muscle and Nerve, 2016, 53, 154-155.	2.2	1
126	Carpal tunnel syndrome treatment with palmitoylethanolamide: neurophysiology and ultrasound show small changes in the median nerve. Rheumatology International, 2018, 38, 1307-1309.	3.0	1

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127	The role of primary visual cortex after transorbital alternating current stimulation in low vision patients. Clinical Neurophysiology, 2020, 131, 2327-2328.	1.5	1
128	Ultrasound Aspects of <scp>Neurotoxicityâ€Mediated</scp> Sciatic Nerve Injury After Intramuscular Ketorolac Injection. Journal of Ultrasound in Medicine, 2020, 39, 1877-1878.	1.7	1
129	Re. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 281-282.	1.4	O
130	Sacral arachnoid cyst and perirectal abscess in a case of perineal pain. Neurological Sciences, 2014, 35, 631-632.	1.9	0
131	Toward the Development of a Neuro-Controlled Bidirectional Hand Prosthesis. Lecture Notes in Computer Science, 2015, , 105-110.	1.3	O
132	Peripheral nerve tumors associated with Martin–Gruber anastomosis. Clinical Neurophysiology, 2015, 126, 428-430.	1.5	0
133	Reply to Penelope A. McNulty and Emma F. Hodson-Tole. Clinical Neurophysiology, 2016, 127, 1738-1739.	1.5	O
134	On the Use of Intraneural Transversal Electrodes to Develop Bidirectional Bionic Limbs. Biosystems and Biorobotics, 2017, , 737-741.	0.3	0
135	A case of ultrasound diagnosis of supraorbital neuralgia. Muscle and Nerve, 2019, 59, E32-E33.	2.2	0
136	Quantum Chemical and Molecular Dynamics Studies of MUC1 Calix[4,8]arene Scaffold Based Anticancer Vaccine Candidates. Journal of Chemical Information and Modeling, 2020, 60, 5162-5171.	5.4	0