# Walter Paulus

## List of Publications by Citations



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|---|---|---|---|
| 438 papers | 46,168 citations | 113 h-index | 205 g-index |
| 467 ext. papers | 53,822 ext. citations | 4.8 avg, IF | 7.52 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 438 | Transcranial direct current stimulation: State of the art 2008. *Brain Stimulation*, **2008**, 1, 206-23 | 5.1 | 2020 |
| 437 | Non-invasive electrical and magnetic stimulation of the brain, spinal cord, roots and peripheral nerves: Basic principles and procedures for routine clinical and research application. An updated report from an I.F.C.N. Committee. *Clinical Neurophysiology*, **2015**, 126, 1071-1107 | 4.3 | 1326 |
| 436 | Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS). *Clinical Neurophysiology*, **2014**, 125, 2150-2206 | 4.3 | 1209 |
| 435 | Pharmacological modulation of cortical excitability shifts induced by transcranial direct current stimulation in humans. *Journal of Physiology*, **2003**, 553, 293-301 | 3.9 | 988 |
| 434 | Pharmacological approach to the mechanisms of transcranial DC-stimulation-induced after-effects of human motor cortex excitability. *Brain*, **2002**, 125, 2238-47 | 11.2 | 949 |
| 433 | Anodal transcranial direct current stimulation of prefrontal cortex enhances working memory. *Experimental Brain Research*, **2005**, 166, 23-30 | 2.3 | 845 |
| 432 | Safety aspects of transcranial direct current stimulation concerning healthy subjects and patients. *Brain Research Bulletin*, **2007**, 72, 208-14 | 3.9 | 752 |
| 431 | Evidence-based guidelines on the therapeutic use of transcranial direct current stimulation (tDCS). *Clinical Neurophysiology*, **2017**, 128, 56-92 | 4.3 | 750 |
| 430 | Facilitation of implicit motor learning by weak transcranial direct current stimulation of the primary motor cortex in the human. *Journal of Cognitive Neuroscience*, **2003**, 15, 619-26 | 3.1 | 735 |
| 429 | A technical guide to tDCS, and related non-invasive brain stimulation tools. *Clinical Neurophysiology* , **2016**, 127, 1031-1048 | 4.3 | 661 |
| 428 | Partially non-linear stimulation intensity-dependent effects of direct current stimulation on motor cortex excitability in humans. *Journal of Physiology*, **2013**, 591, 1987-2000 | 3.9 | 619 |
| 427 | How does transcranial DC stimulation of the primary motor cortex alter regional neuronal activity in the human brain?. *European Journal of Neuroscience*, **2005**, 22, 495-504 | 3.5 | 585 |
| 426 | The effect of lorazepam on the motor cortical excitability in man. *Experimental Brain Research*, **1996** , 109, 127-35 | 2.3 | 585 |
| 425 | Preconditioning of low-frequency repetitive transcranial magnetic stimulation with transcranial direct current stimulation: evidence for homeostatic plasticity in the human motor cortex. *Journal of Neuroscience*, **2004**, 24, 3379-85 | 6.6 | 575 |
| 424 | Shaping the effects of transcranial direct current stimulation of the human motor cortex. *Journal of Neurophysiology*, **2007**, 97, 3109-17 | 3.2 | 546 |
| 423 | Genome-wide association study of restless legs syndrome identifies common variants in three genomic regions. *Nature Genetics*, **2007**, 39, 1000-6 | 36.3 | 545 |
| 422 | Level of action of cathodal DC polarisation induced inhibition of the human motor cortex. *Clinical Neurophysiology*, **2003**, 114, 600-4 | 4.3 | 545 |

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| 421 | Safety criteria for transcranial direct current stimulation (tDCS) in humans. *Clinical Neurophysiology*, **2003**, 114, 2220-2; author reply 2222-3 | 4.3 | 527 |
| 420 | Modulating parameters of excitability during and after transcranial direct current stimulation of the human motor cortex. *Journal of Physiology*, **2005**, 568, 291-303 | 3.9 | 507 |
| 419 | Induction of late LTP-like plasticity in the human motor cortex by repeated non-invasive brain stimulation. *Brain Stimulation*, **2013**, 6, 424-32 | 5.1 | 506 |
| 418 | Low intensity transcranial electric stimulation: Safety, ethical, legal regulatory and application guidelines. *Clinical Neurophysiology*, **2017**, 128, 1774-1809 | 4.3 | 478 |
| 417 | Consensus: Motor cortex plasticity protocols. *Brain Stimulation*, **2008**, 1, 164-82 | 5.1 | 433 |
| 416 | Modulation of cortical excitability by weak direct current stimulation--technical, safety and functional aspects. *Supplements To Clinical Neurophysiology*, **2003**, 56, 255-76 | | 427 |
| 415 | Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): An update (2014-2018). *Clinical Neurophysiology*, **2020**, 131, 474-528 | 4.3 | 411 |
| 414 | Increasing human brain excitability by transcranial high-frequency random noise stimulation. *Journal of Neuroscience*, **2008**, 28, 14147-55 | 6.6 | 406 |
| 413 | Transcranial electrical stimulation (tES - tDCS; tRNS, tACS) methods. *Neuropsychological Rehabilitation*, **2011**, 21, 602-17 | 3.1 | 374 |
| 412 | Comparing cortical plasticity induced by conventional and high-definition 4 □ ring tDCS: a neurophysiological study. *Brain Stimulation*, **2013**, 6, 644-8 | 5.1 | 370 |
| 411 | Determinants of the electric field during transcranial direct current stimulation. *NeuroImage*, **2015**, 109, 140-50 | 7.9 | 370 |
| 410 | The importance of timing in segregated theta phase-coupling for cognitive performance. *Current Biology*, **2012**, 22, 1314-8 | 6.3 | 351 |
| 409 | Transcranial direct current stimulation--update 2011. *Restorative Neurology and Neuroscience*, **2011**, 29, 463-92 | 2.8 | 339 |
| 408 | Demonstration of facilitatory I wave interaction in the human motor cortex by paired transcranial magnetic stimulation. *Journal of Physiology*, **1998**, 511 ( Pt 1), 181-90 | 3.9 | 323 |
| 407 | Disconnection of speech-relevant brain areas in persistent developmental stuttering. *Lancet, The*, **2002**, 360, 380-3 | 40 | 320 |
| 406 | Direct current stimulation over V5 enhances visuomotor coordination by improving motion perception in humans. *Journal of Cognitive Neuroscience*, **2004**, 16, 521-7 | 3.1 | 314 |
| 405 | Comparatively weak after-effects of transcranial alternating current stimulation (tACS) on cortical excitability in humans. *Brain Stimulation*, **2008**, 1, 97-105 | 5.1 | 310 |
| 404 | Modulating functional connectivity patterns and topological functional organization of the human brain with transcranial direct current stimulation. *Human Brain Mapping*, **2011**, 32, 1236-49 | 5.9 | 298 |

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| 403 | Frequency-dependent electrical stimulation of the visual cortex. *Current Biology*, **2008**, 18, 1839-43 | 6.3 | 298 |
| 402 | Excitability changes induced in the human primary visual cortex by transcranial direct current stimulation: direct electrophysiological evidence. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 702-7 | | 291 |
| 401 | Safety limits of cathodal transcranial direct current stimulation in rats. *Clinical Neurophysiology*, **2009**, 120, 1161-7 | 4.3 | 284 |
| 400 | State of the art: Pharmacologic effects on cortical excitability measures tested by transcranial magnetic stimulation. *Brain Stimulation*, **2008**, 1, 151-63 | 5.1 | 284 |
| 399 | Modulating cortico-striatal and thalamo-cortical functional connectivity with transcranial direct current stimulation. *Human Brain Mapping*, **2012**, 33, 2499-508 | 5.9 | 278 |
| 398 | Therapeutic effects of non-invasive brain stimulation with direct currents (tDCS) in neuropsychiatric diseases. *NeuroImage*, **2014**, 85 Pt 3, 948-60 | 7.9 | 276 |
| 397 | Consolidation of human motor cortical neuroplasticity by D-cycloserine. *Neuropsychopharmacology*, **2004**, 29, 1573-8 | 8.7 | 276 |
| 396 | The restless legs syndrome. *Lancet Neurology, The*, **2005**, 4, 465-75 | 24.1 | 276 |
| 395 | Transcranial alternating current stimulation (tACS). *Frontiers in Human Neuroscience*, **2013**, 7, 317 | 3.3 | 268 |
| 394 | Facilitation of visuo-motor learning by transcranial direct current stimulation of the motor and extrastriate visual areas in humans. *European Journal of Neuroscience*, **2004**, 19, 2888-92 | 3.5 | 261 |
| 393 | Facilitation of probabilistic classification learning by transcranial direct current stimulation of the prefrontal cortex in the human. *Neuropsychologia*, **2004**, 42, 113-7 | 3.2 | 261 |
| 392 | GABAergic modulation of DC stimulation-induced motor cortex excitability shifts in humans. *European Journal of Neuroscience*, **2004**, 19, 2720-6 | 3.5 | 260 |
| 391 | Preconditioning with transcranial direct current stimulation sensitizes the motor cortex to rapid-rate transcranial magnetic stimulation and controls the direction of after-effects. *Biological Psychiatry*, **2004**, 56, 634-9 | 7.9 | 257 |
| 390 | Fundamentals of transcranial electric and magnetic stimulation dose: definition, selection, and reporting practices. *Brain Stimulation*, **2012**, 5, 435-53 | 5.1 | 252 |
| 389 | Shaping the optimal repetition interval for cathodal transcranial direct current stimulation (tDCS). *Journal of Neurophysiology*, **2010**, 103, 1735-40 | 3.2 | 242 |
| 388 | Anodal transcranial direct current stimulation of the motor cortex ameliorates chronic pain and reduces short intracortical inhibition. *Journal of Pain and Symptom Management*, **2010**, 39, 890-903 | 4.8 | 231 |
| 387 | Dopaminergic modulation of long-lasting direct current-induced cortical excitability changes in the human motor cortex. *European Journal of Neuroscience*, **2006**, 23, 1651-7 | 3.5 | 231 |
| 386 | Restless legs syndrome: pathophysiology, clinical presentation and management. *Nature Reviews Neurology*, **2010**, 6, 337-46 | 15 | 227 |

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| 385 | Effects of transcranial direct current stimulation over the human motor cortex on corticospinal and transcallosal excitability. *Experimental Brain Research*, **2004**, 156, 439-43 | 2.3 | 226 |
| 384 | Low-frequency repetitive transcranial magnetic stimulation improves intractable epilepsy. *Lancet, The*, **1999**, 353, 2209 | 40 | 220 |
| 383 | Induction of self awareness in dreams through frontal low current stimulation of gamma activity. *Nature Neuroscience*, **2014**, 17, 810-2 | 25.5 | 217 |
| 382 | PTPRD (protein tyrosine phosphatase receptor type delta) is associated with restless legs syndrome. *Nature Genetics*, **2008**, 40, 946-8 | 36.3 | 217 |
| 381 | Diagnostic standards for dopaminergic augmentation of restless legs syndrome: report from a World Association of Sleep Medicine-International Restless Legs Syndrome Study Group consensus conference at the Max Planck Institute. *Sleep Medicine*, **2007**, 8, 520-30 | 4.6 | 212 |
| 380 | Electrode-distance dependent after-effects of transcranial direct and random noise stimulation with extracephalic reference electrodes. *Clinical Neurophysiology*, **2010**, 121, 2165-71 | 4.3 | 209 |
| 379 | Boosting focally-induced brain plasticity by dopamine. *Cerebral Cortex*, **2008**, 18, 648-51 | 5.1 | 200 |
| 378 | Restless legs syndrome associated with major diseases: A systematic review and new concept. *Neurology*, **2016**, 86, 1336-1343 | 6.5 | 197 |
| 377 | External modulation of visual perception in humans. *NeuroReport*, **2001**, 12, 3553-5 | 1.7 | 196 |
| 376 | Impaired motor cortex inhibition in patients with amyotrophic lateral sclerosis. Evidence from paired transcranial magnetic stimulation. *Neurology*, **1997**, 49, 1292-8 | 6.5 | 194 |
| 375 | Transcranial direct current stimulation over the primary motor cortex during fMRI. *NeuroImage*, **2011**, 55, 590-6 | 7.9 | 193 |
| 374 | Introducing graph theory to track for neuroplastic alterations in the resting human brain: a transcranial direct current stimulation study. *NeuroImage*, **2011**, 54, 2287-96 | 7.9 | 192 |
| 373 | Efficacy of repetitive transcranial magnetic stimulation/transcranial direct current stimulation in cognitive neurorehabilitation. *Brain Stimulation*, **2008**, 1, 326-36 | 5.1 | 192 |
| 372 | Consensus: "Can tDCS and TMS enhance motor learning and memory formation?". *Brain Stimulation* , **2008**, 1, 363-369 | 5.1 | 191 |
| 371 | Systematic evaluation of the impact of stimulation intensity on neuroplastic after-effects induced by transcranial direct current stimulation. *Journal of Physiology*, **2017**, 595, 1273-1288 | 3.9 | 189 |
| 370 | Regional modulation of BOLD MRI responses to human sensorimotor activation by transcranial direct current stimulation. *Magnetic Resonance in Medicine*, **2001**, 45, 196-201 | 4.4 | 189 |
| 369 | Simply longer is not better: reversal of theta burst after-effect with prolonged stimulation. *Experimental Brain Research*, **2010**, 204, 181-7 | 2.3 | 188 |
| 368 | Exploring recombinant human erythropoietin in chronic progressive multiple sclerosis. *Brain*, **2007**, 130, 2577-88 | 11.2 | 188 |

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|---|---|---|---|
| 367 | Serotonin affects transcranial direct current-induced neuroplasticity in humans. *Biological Psychiatry*, **2009**, 66, 503-8 | 7.9 | 186 |
| 366 | Towards unravelling task-related modulations of neuroplastic changes induced in the human motor cortex. *European Journal of Neuroscience*, **2007**, 26, 2687-91 | 3.5 | 186 |
| 365 | Manipulation of phosphene thresholds by transcranial direct current stimulation in man. *Experimental Brain Research*, **2003**, 150, 375-8 | 2.3 | 181 |
| 364 | Close to threshold transcranial electrical stimulation preferentially activates inhibitory networks before switching to excitation with higher intensities. *Brain Stimulation*, **2012**, 5, 505-11 | 5.1 | 176 |
| 363 | Brain-derived neurotrophic factor (BDNF) gene polymorphisms shape cortical plasticity in humans. *Brain Stimulation*, **2010**, 3, 230-7 | 5.1 | 175 |
| 362 | Anticonvulsant effects of transcranial direct-current stimulation (tDCS) in the rat cortical ramp model of focal epilepsy. *Epilepsia*, **2006**, 47, 1216-24 | 6.4 | 175 |
| 361 | Changes in human motor cortex excitability induced by dopaminergic and anti-dopaminergic drugs. *Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control*, **1997**, 105, 430-7 | | 174 |
| 360 | Timing-dependent modulation of associative plasticity by general network excitability in the human motor cortex. *Journal of Neuroscience*, **2007**, 27, 3807-12 | 6.6 | 170 |
| 359 | Time course of the induction of homeostatic plasticity generated by repeated transcranial direct current stimulation of the human motor cortex. *Journal of Neurophysiology*, **2011**, 105, 1141-9 | 3.2 | 168 |
| 358 | Effects of tDCS on motor learning and memory formation: A consensus and critical position paper. *Clinical Neurophysiology*, **2017**, 128, 589-603 | 4.3 | 166 |
| 357 | Plasticity induced by non-invasive transcranial brain stimulation: A position paper. *Clinical Neurophysiology*, **2017**, 128, 2318-2329 | 4.3 | 163 |
| 356 | Premotor transcranial direct current stimulation (tDCS) affects primary motor excitability in humans. *European Journal of Neuroscience*, **2008**, 27, 1292-300 | 3.5 | 160 |
| 355 | Dose-dependent inverted U-shaped effect of dopamine (D2-like) receptor activation on focal and nonfocal plasticity in humans. *Journal of Neuroscience*, **2009**, 29, 6124-31 | 6.6 | 158 |
| 354 | Lasting influence of repetitive transcranial magnetic stimulation on intracortical excitability in human subjects. *Neuroscience Letters*, **2000**, 287, 37-40 | 3.3 | 155 |
| 353 | The fade-in--short stimulation--fade out approach to sham tDCS--reliable at 1 mA for naïve and experienced subjects, but not investigators. *Brain Stimulation*, **2012**, 5, 499-504 | 5.1 | 153 |
| 352 | Focusing effect of acetylcholine on neuroplasticity in the human motor cortex. *Journal of Neuroscience*, **2007**, 27, 14442-7 | 6.6 | 146 |
| 351 | Functional MRI of cortical activations induced by transcranial magnetic stimulation (TMS). *NeuroReport*, **2001**, 12, 3543-8 | 1.7 | 142 |
| 350 | Neuromodulation of chronic headaches: position statement from the European Headache Federation. *Journal of Headache and Pain*, **2013**, 14, 86 | 8.8 | 141 |

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| 349 | Limited impact of homeostatic plasticity on motor learning in humans. *Neuropsychologia*, **2008**, 46, 2122-8 | 3.2 | 140 |
| 348 | Pharmacological control of facilitatory I-wave interaction in the human motor cortex. A paired transcranial magnetic stimulation study. *Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control*, **1998**, 109, 321-30 | | 138 |
| 347 | Less is more: pathophysiology of dopaminergic-therapy-related augmentation in restless legs syndrome. *Lancet Neurology, The*, **2006**, 5, 878-86 | 24.1 | 138 |
| 346 | Catecholaminergic consolidation of motor cortical neuroplasticity in humans. *Cerebral Cortex*, **2004**, 14, 1240-5 | 5.1 | 137 |
| 345 | Transcranial direct current stimulation over somatosensory cortex decreases experimentally induced acute pain perception. *Clinical Journal of Pain*, **2008**, 24, 56-63 | 3.5 | 136 |
| 344 | High-frequency repetitive transcranial magnetic stimulation delays rapid eye movement sleep. *NeuroReport*, **1998**, 9, 3439-43 | 1.7 | 136 |
| 343 | Genome-wide association study identifies novel restless legs syndrome susceptibility loci on 2p14 and 16q12.1. *PLoS Genetics*, **2011**, 7, e1002171 | 6 | 135 |
| 342 | The use of repetitive transcranial magnetic stimulation (rTMS) and transcranial direct current stimulation (tDCS) to relieve pain. *Brain Stimulation*, **2008**, 1, 337-44 | 5.1 | 134 |
| 341 | Spatial Working Memory in Humans Depends on Theta and High Gamma Synchronization in the Prefrontal Cortex. *Current Biology*, **2016**, 26, 1513-1521 | 6.3 | 134 |
| 340 | Cathodal transcranial direct current stimulation of the visual cortex in the prophylactic treatment of migraine. *Cephalalgia*, **2011**, 31, 820-8 | 6.1 | 132 |
| 339 | Half sine, monophasic and biphasic transcranial magnetic stimulation of the human motor cortex. *Clinical Neurophysiology*, **2006**, 117, 838-44 | 4.3 | 132 |
| 338 | Physiological observations validate finite element models for estimating subject-specific electric field distributions induced by transcranial magnetic stimulation of the human motor cortex. *NeuroImage*, **2013**, 81, 253-264 | 7.9 | 130 |
| 337 | Safety and recommendations for TMS use in healthy subjects and patient populations, with updates on training, ethical and regulatory issues: Expert Guidelines. *Clinical Neurophysiology*, **2021**, 132, 269-306 | 4.3 | 130 |
| 336 | Dosage-dependent non-linear effect of L-dopa on human motor cortex plasticity. *Journal of Physiology*, **2010**, 588, 3415-24 | 3.9 | 127 |
| 335 | Enhancement of human motor cortex inhibition by the dopamine receptor agonist pergolide: evidence from transcranial magnetic stimulation. *Neuroscience Letters*, **1996**, 208, 187-90 | 3.3 | 126 |
| 334 | Transcranial direct current stimulation disrupts tactile perception. *European Journal of Neuroscience*, **2004**, 20, 313-6 | 3.5 | 124 |
| 333 | The pharmacology of neuroplasticity induced by non-invasive brain stimulation: building models for the clinical use of CNS active drugs. *Journal of Physiology*, **2012**, 590, 4641-62 | 3.9 | 122 |
| 332 | Identification of novel risk loci for restless legs syndrome in genome-wide association studies in individuals of European ancestry: a meta-analysis. *Lancet Neurology, The*, **2017**, 16, 898-907 | 24.1 | 121 |

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| 331 | Boosting brain excitability by transcranial high frequency stimulation in the ripple range. *Journal of Physiology*, **2010**, 588, 4891-904 | 3.9 | 120 |
| 330 | Cutaneous perception thresholds of electrical stimulation methods: comparison of tDCS and tRNS. *Clinical Neurophysiology*, **2010**, 121, 1908-14 | 4.3 | 117 |
| 329 | MRI study of human brain exposed to weak direct current stimulation of the frontal cortex. *Clinical Neurophysiology*, **2004**, 115, 2419-23 | 4.3 | 116 |
| 328 | Transcranial alternating current stimulation (tACS) modulates cortical excitability as assessed by TMS-induced phosphene thresholds. *Clinical Neurophysiology*, **2010**, 121, 1551-1554 | 4.3 | 114 |
| 327 | The role of opioids in restless legs syndrome: an [11C]diprenorphine PET study. *Brain*, **2005**, 128, 906-17 | 11.2 | 114 |
| 326 | Transcranial direct current stimulation applied over the somatosensory cortex - differential effect on low and high frequency SEPs. *Clinical Neurophysiology*, **2006**, 117, 2221-7 | 4.3 | 113 |
| 325 | Frequency specific modulation of human somatosensory cortex. *Frontiers in Psychology*, **2011**, 2, 13 | 3.4 | 112 |
| 324 | A new concept of retinal colour coding. *Vision Research*, **1983**, 23, 529-40 | 2.1 | 111 |
| 323 | ZFYVE27 (SPG33), a novel spastin-binding protein, is mutated in hereditary spastic paraplegia. *American Journal of Human Genetics*, **2006**, 79, 351-7 | 11 | 105 |
| 322 | Transcranial direct current stimulation and the visual cortex. *Brain Research Bulletin*, **2006**, 68, 459-63 | 3.9 | 105 |
| 321 | Diminution of training-induced transient motor cortex plasticity by weak transcranial direct current stimulation in the human. *Neuroscience Letters*, **2000**, 296, 61-3 | 3.3 | 105 |
| 320 | Complete suppression of voluntary motor drive during the silent period after transcranial magnetic stimulation. *Experimental Brain Research*, **1999**, 124, 447-54 | 2.3 | 105 |
| 319 | Individual voxel-based subtype prediction can differentiate progressive supranuclear palsy from idiopathic Parkinson syndrome and healthy controls. *Human Brain Mapping*, **2011**, 32, 1905-15 | 5.9 | 103 |
| 318 | Noninvasive brain stimulation protocols in the treatment of epilepsy: current state and perspectives. *Neurotherapeutics*, **2009**, 6, 244-50 | 6.4 | 100 |
| 317 | Gender-specific modulation of short-term neuroplasticity in the visual cortex induced by transcranial direct current stimulation. *Visual Neuroscience*, **2008**, 25, 77-81 | 1.7 | 99 |
| 316 | Modulation of moving phosphene thresholds by transcranial direct current stimulation of V1 in human. *Neuropsychologia*, **2003**, 41, 1802-7 | 3.2 | 97 |
| 315 | Stimulus intensity and coil characteristics influence the efficacy of rTMS to suppress cortical excitability. *Clinical Neurophysiology*, **2006**, 117, 2292-301 | 4.3 | 95 |
| 314 | Imaging artifacts induced by electrical stimulation during conventional fMRI of the brain. *NeuroImage*, **2014**, 85 Pt 3, 1040-7 | 7.9 | 94 |

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|---|---|---|---|
| 313 | Thermal hypoaesthesia differentiates secondary restless legs syndrome associated with small fibre neuropathy from primary restless legs syndrome. *Brain*, **2010**, 133, 762-70 | 11.2 | 93 |
| 312 | Variants in the neuronal nitric oxide synthase (nNOS, NOS1) gene are associated with restless legs syndrome. *Movement Disorders*, **2008**, 23, 350-8 | 7 | 91 |
| 311 | A proposal for new diagnostic criteria for ALS. *Clinical Neurophysiology*, **2020**, 131, 1975-1978 | 4.3 | 91 |
| 310 | The tumorigenicity of mouse embryonic stem cells and in vitro differentiated neuronal cells is controlled by the recipients' immune response. *PLoS ONE*, **2008**, 3, e2622 | 3.7 | 88 |
| 309 | Subcutaneous immunoglobulin infusion: a new therapeutic option in chronic inflammatory demyelinating polyneuropathy. *Muscle and Nerve*, **2008**, 37, 406-9 | 3.4 | 88 |
| 308 | Changes in 5-HT1A and NMDA binding sites by a single rapid transcranial magnetic stimulation procedure in rats. *Brain Research*, **1999**, 826, 309-12 | 3.7 | 88 |
| 307 | D1-receptor impact on neuroplasticity in humans. *Journal of Neuroscience*, **2009**, 29, 2648-53 | 6.6 | 87 |
| 306 | Transcranial direct current stimulation reveals inhibitory deficiency in migraine. *Cephalalgia*, **2007**, 27, 833-9 | 6.1 | 86 |
| 305 | Effects of frontal transcranial direct current stimulation on emotional state and processing in healthy humans. *Frontiers in Psychiatry*, **2012**, 3, 58 | 5 | 85 |
| 304 | Pathophysiological concepts of restless legs syndrome. *Movement Disorders*, **2007**, 22, 1451-1456 | 7 | 84 |
| 303 | Oscillatory brain activity and transcranial direct current stimulation in humans. *NeuroReport*, **2004**, 15, 1307-10 | 1.7 | 83 |
| 302 | Sex differences in cortical neuroplasticity in humans. *NeuroReport*, **2006**, 17, 1703-7 | 1.7 | 82 |
| 301 | Predominant affection of the blue cone pathway in Parkinson's disease. *Brain*, **1995**, 118 ( Pt 3), 771-8 | 11.2 | 82 |
| 300 | Neuronal tissue polarization induced by repetitive transcranial magnetic stimulation?. *NeuroReport*, **2002**, 13, 809-11 | 1.7 | 80 |
| 299 | Altered motion perception in migraineurs: evidence for interictal cortical hyperexcitability. *Cephalalgia*, **2005**, 25, 788-94 | 6.1 | 79 |
| 298 | Reorganizing the intrinsic functional architecture of the human primary motor cortex during rest with non-invasive cortical stimulation. *PLoS ONE*, **2012**, 7, e30971 | 3.7 | 79 |
| 297 | Consensus: New methodologies for brain stimulation. *Brain Stimulation*, **2009**, 2, 2-13 | 5.1 | 77 |
| 296 | The associative brain at work: Evidence from paired associative stimulation studies in humans. *Clinical Neurophysiology*, **2017**, 128, 2140-2164 | 4.3 | 76 |

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| 295 | Comparative assessment of best conventional with best theta burst repetitive transcranial magnetic stimulation protocols on human motor cortex excitability. *Clinical Neurophysiology*, **2008**, 119, 1393-9 | 4.3 | 76 |
| 294 | Deficient motor control in children with tic disorder: evidence from transcranial magnetic stimulation. *Neuroscience Letters*, **1999**, 272, 37-40 | 3.3 | 73 |
| 293 | Transcranial direct current stimulation of the motor cortex induces distinct changes in thermal and mechanical sensory percepts. *Clinical Neurophysiology*, **2010**, 121, 2083-9 | 4.3 | 72 |
| 292 | Nicotinergic impact on focal and non-focal neuroplasticity induced by non-invasive brain stimulation in non-smoking humans. *Neuropsychopharmacology*, **2011**, 36, 879-86 | 8.7 | 72 |
| 291 | Automated MR image classification in temporal lobe epilepsy. *NeuroImage*, **2012**, 59, 356-62 | 7.9 | 71 |
| 290 | Ceiling effects prevent further improvement of transcranial stimulation in skilled musicians. *Journal of Neuroscience*, **2014**, 34, 13834-9 | 6.6 | 70 |
| 289 | Contribution of the premotor cortex to consolidation of motor sequence learning in humans during sleep. *Journal of Neurophysiology*, **2010**, 104, 2603-14 | 3.2 | 68 |
| 288 | Outlasting excitability shifts induced by direct current stimulation of the human brain. *Supplements To Clinical Neurophysiology*, **2004**, 57, 708-14 | | 68 |
| 287 | Transcranial alternating stimulation in a high gamma frequency range applied over V1 improves contrast perception but does not modulate spatial attention. *Brain Stimulation*, **2012**, 5, 484-91 | 5.1 | 67 |
| 286 | Effects of transcranial direct current stimulation of the primary sensory cortex on somatosensory perception. *Brain Stimulation*, **2011**, 4, 253-60 | 5.1 | 67 |
| 285 | Neuroplasticity in cigarette smokers is altered under withdrawal and partially restituted by nicotine exposition. *Journal of Neuroscience*, **2012**, 32, 4156-62 | 6.6 | 67 |
| 284 | Transcranial direct current stimulation and visual perception. *Perception*, **2008**, 37, 367-74 | 1.2 | 67 |
| 283 | Augmentation as a treatment complication of restless legs syndrome: concept and management. *Movement Disorders*, **2007**, 22 Suppl 18, S476-84 | 7 | 67 |
| 282 | Alternating Current Stimulation for Vision Restoration after Optic Nerve Damage: A Randomized Clinical Trial. *PLoS ONE*, **2016**, 11, e0156134 | 3.7 | 67 |
| 281 | Effect of serotonin on paired associative stimulation-induced plasticity in the human motor cortex. *Neuropsychopharmacology*, **2013**, 38, 2260-7 | 8.7 | 65 |
| 280 | Impact of repetitive theta burst stimulation on motor cortex excitability. *Brain Stimulation*, **2011**, 4, 145-51 | 5.1 | 64 |
| 279 | Direct current stimulation over MT+/V5 modulates motion aftereffect in humans. *NeuroReport*, **2004**, 15, 2491-4 | 1.7 | 64 |
| 278 | Cortical hypoexcitability in chronic smokers? A transcranial magnetic stimulation study. *Neuropsychopharmacology*, **2008**, 33, 2517-23 | 8.7 | 63 |

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|---|---|---|---|
| 277 | Association of daytime sleepiness with nigrostriatal dopaminergic degeneration in early Parkinson's disease. *Journal of Neurology*, **2007**, 254, 1037-43 | 5.5 | 63 |
| 276 | Transcranial random noise stimulation-induced plasticity is NMDA-receptor independent but sodium-channel blocker and benzodiazepines sensitive. *Frontiers in Neuroscience*, **2015**, 9, 125 | 5.1 | 62 |
| 275 | Extensive exercise is not harmful in amyotrophic lateral sclerosis. *European Journal of Neuroscience*, **2004**, 20, 3115-20 | 3.5 | 62 |
| 274 | Surmounting retraining limits in musicians' dystonia by transcranial stimulation. *Annals of Neurology*, **2014**, 75, 700-7 | 9.4 | 61 |
| 273 | Evaluating aftereffects of short-duration transcranial random noise stimulation on cortical excitability. *Neural Plasticity*, **2011**, 2011, 105927 | 3.3 | 61 |
| 272 | Restless legs syndrome-current therapies and management of augmentation. *Nature Reviews Neurology*, **2015**, 11, 434-45 | 15 | 60 |
| 271 | Impact of transcranial direct current stimulation on fatigue in multiple sclerosis. *Restorative Neurology and Neuroscience*, **2014**, 32, 423-36 | 2.8 | 60 |
| 270 | Nonlinear dose-dependent impact of D1 receptor activation on motor cortex plasticity in humans. *Journal of Neuroscience*, **2014**, 34, 2744-53 | 6.6 | 60 |
| 269 | Transcranial alternating current stimulation in the low kHz range increases motor cortex excitability. *Restorative Neurology and Neuroscience*, **2011**, 29, 167-75 | 2.8 | 60 |
| 268 | Dose-dependent nonlinear effect of L-DOPA on paired associative stimulation-induced neuroplasticity in humans. *Journal of Neuroscience*, **2011**, 31, 5294-9 | 6.6 | 60 |
| 267 | Homeostatic metaplasticity of the motor cortex is altered during headache-free intervals in migraine with aura. *Cerebral Cortex*, **2008**, 18, 2701-5 | 5.1 | 60 |
| 266 | Intracortical excitability in the hand motor representation in hand dystonia and blepharospasm. *Movement Disorders*, **2002**, 17, 1017-25 | 7 | 60 |
| 265 | Focal reduction of intracortical inhibition in the motor cortex by selective proprioceptive stimulation. *Experimental Brain Research*, **2003**, 149, 9-16 | 2.3 | 60 |
| 264 | Repetitive transcranial magnetic stimulation in stroke rehabilitation: review of the current evidence and pitfalls. *Therapeutic Advances in Neurological Disorders*, **2019**, 12, 1756286419878317 | 6.6 | 59 |
| 263 | Reproducibility of the Structural Brain Connectome Derived from Diffusion Tensor Imaging. *PLoS ONE*, **2015**, 10, e0135247 | 3.7 | 59 |
| 262 | Combining functional magnetic resonance imaging with transcranial electrical stimulation. *Frontiers in Human Neuroscience*, **2013**, 7, 435 | 3.3 | 59 |
| 261 | Modulatory effects of transcranial direct current stimulation on laser-evoked potentials. *Pain Medicine*, **2009**, 10, 122-32 | 2.8 | 59 |
| 260 | Isometric contraction interferes with transcranial direct current stimulation (tDCS) induced plasticity: evidence of state-dependent neuromodulation in human motor cortex. *Restorative Neurology and Neuroscience*, **2011**, 29, 311-20 | 2.8 | 58 |

| | | | |
|---|---|---|---|
| 259 | D-Cycloserine in Neuropsychiatric Diseases: A Systematic Review. *International Journal of Neuropsychopharmacology*, **2016**, 19, | 5.8 | 57 |
| 258 | Dopamine and the spinal cord in restless legs syndrome: does spinal cord physiology reveal a basis for augmentation?. *Sleep Medicine Reviews*, **2006**, 10, 185-96 | 10.2 | 56 |
| 257 | Can epilepsies be improved by repetitive transcranial magnetic stimulation?--interim analysis of a controlled study. *Supplements To Clinical Neurophysiology*, **2003**, 56, 400-5 | | 56 |
| 256 | Propagation of spreading depression inversely correlates with cortical myelin content. *Annals of Neurology*, **2009**, 66, 355-65 | 9.4 | 55 |
| 255 | Bidirectional modulation of primary visual cortex excitability: a combined tDCS and rTMS study. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 5782-7 | | 55 |
| 254 | Visual thresholds to low-contrast pattern displacement, color contrast, and luminance contrast stimuli in Parkinson's disease. *Movement Disorders*, **1994**, 9, 563-70 | 7 | 55 |
| 253 | Effects of transcutaneous spinal direct current stimulation in idiopathic restless legs patients. *Brain Stimulation*, **2014**, 7, 636-42 | 5.1 | 54 |
| 252 | Toward establishing a therapeutic window for rTMS by theta burst stimulation. *Neuron*, **2005**, 45, 181-3 | 13.9 | 54 |
| 251 | Cisternal S100 protein and neuron-specific enolase are elevated and site-specific markers in intractable temporal lobe epilepsy. *Epilepsy Research*, **1999**, 36, 75-82 | 3 | 54 |
| 250 | Central and peripheral nervous system excitability in restless legs syndrome. *Sleep Medicine*, **2017**, 31, 49-60 | 4.6 | 52 |
| 249 | Higher variability of phosphene thresholds in migraineurs than in controls: a consecutive transcranial magnetic stimulation study. *Cephalalgia*, **2006**, 26, 865-70 | 6.1 | 52 |
| 248 | Dosage-dependent effect of dopamine D2 receptor activation on motor cortex plasticity in humans. *Journal of Neuroscience*, **2014**, 34, 10701-9 | 6.6 | 51 |
| 247 | Transcranial electric and magnetic stimulation: technique and paradigms. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2013**, 116, 329-42 | 3 | 49 |
| 246 | Chronic Enhancement of Serotonin Facilitates Excitatory Transcranial Direct Current Stimulation-Induced Neuroplasticity. *Neuropsychopharmacology*, **2016**, 41, 1223-30 | 8.7 | 48 |
| 245 | Structural connectivity of right frontal hyperactive areas scales with stuttering severity. *Brain*, **2018** , 141, 191-204 | 11.2 | 48 |
| 244 | Repetitive paired-pulse transcranial magnetic stimulation affects corticospinal excitability and finger tapping in Parkinson's disease. *Clinical Neurophysiology*, **2002**, 113, 944-50 | 4.3 | 48 |
| 243 | Speech dynamics are coded in the left motor cortex in fluent speakers but not in adults who stutter. *Brain*, **2015**, 138, 712-25 | 11.2 | 47 |
| 242 | Transcranial direct current stimulation effects on I-wave activity in humans. *Journal of Neurophysiology*, **2011**, 105, 2802-10 | 3.2 | 47 |

| | | | |
|---|---|---|---|
| 241 | Pergolide increases the efficacy of cathodal direct current stimulation to reduce the amplitude of laser-evoked potentials in humans. *Journal of Pain and Symptom Management*, **2008**, 36, 79-91 | 4.8 | 47 |
| 240 | Relationship between lamotrigine oral dose, serum level and its inhibitory effect on CNS: insights from transcranial magnetic stimulation. *Epilepsy Research*, **2003**, 56, 67-77 | 3 | 47 |
| 239 | Validating computationally predicted TMS stimulation areas using direct electrical stimulation in patients with brain tumors near precentral regions. *NeuroImage: Clinical*, **2014**, 4, 500-7 | 5.3 | 46 |
| 238 | Membrane resistance and shunting inhibition: where biophysics meets state-dependent human neurophysiology. *Journal of Physiology*, **2016**, 594, 2719-28 | 3.9 | 46 |
| 237 | Blinding is compromised for transcranial direct current stimulation at 1 mA for 20 min in young healthy adults. *European Journal of Neuroscience*, **2019**, 50, 3261-3268 | 3.5 | 45 |
| 236 | Prior state of cortical activity influences subsequent practicing of a visuomotor coordination task. *Neuropsychologia*, **2008**, 46, 3157-61 | 3.2 | 45 |
| 235 | Update of the pathophysiology of the restless-legs-syndrome. *Movement Disorders*, **2007**, 22 Suppl 18, S431-9 | 7 | 45 |
| 234 | Embolus detection in different degrees of carotid disease. *Neurological Research*, **1995**, 17, 181-4 | 2.7 | 45 |
| 233 | Short-duration transcranial random noise stimulation induces blood oxygenation level dependent response attenuation in the human motor cortex. *Experimental Brain Research*, **2009**, 198, 439-44 | 2.3 | 44 |
| 232 | Robot-assisted image-guided transcranial magnetic stimulation for somatotopic mapping of the motor cortex: a clinical pilot study. *Acta Neurochirurgica*, **2010**, 152, 333-43 | 3 | 44 |
| 231 | Safety aspects of chronic low-frequency transcranial magnetic stimulation based on localized proton magnetic resonance spectroscopy and histology of the rat brain. *Journal of Psychiatric Research*, **2003**, 37, 277-86 | 5.2 | 44 |
| 230 | Clinical and electrophysiological impact of repetitive low-frequency transcranial magnetic stimulation on the sensory-motor network in patients with restless legs syndrome. *Therapeutic Advances in Neurological Disorders*, **2018**, 11, 1756286418759973 | 6.6 | 43 |
| 229 | Attenuation of N2 amplitude of laser-evoked potentials by theta burst stimulation of primary somatosensory cortex. *Experimental Brain Research*, **2008**, 185, 611-21 | 2.3 | 43 |
| 228 | Impairment of retinal increment thresholds in Huntington's disease. *Annals of Neurology*, **1993**, 34, 574-8 | 9.4 | 42 |
| 227 | Opposite optimal current flow directions for induction of neuroplasticity and excitation threshold in the human motor cortex. *Brain Stimulation*, **2013**, 6, 363-70 | 5.1 | 41 |
| 226 | The effect of 10 Hz transcranial alternating current stimulation (tACS) on corticomuscular coherence. *Frontiers in Human Neuroscience*, **2013**, 7, 511 | 3.3 | 41 |
| 225 | Right-shift for non-speech motor processing in adults who stutter. *Cortex*, **2011**, 47, 945-54 | 3.8 | 41 |
| 224 | Circadian modulation of GABA-mediated cortical inhibition. *Cerebral Cortex*, **2011**, 21, 2299-306 | 5.1 | 41 |

| | | | |
|---|---|---|---|
| 223 | Dopaminergic potentiation of rTMS-induced motor cortex inhibition. *Biological Psychiatry*, **2008**, 63, 231-7 | 7.9 | 41 |
| 222 | Motor cortex fatigue in sports measured by transcranial magnetic double stimulation. *Medicine and Science in Sports and Exercise*, **2000**, 32, 1942-8 | 1.2 | 41 |
| 221 | Orientation-specific fast rTMS maximizes corticospinal inhibition and facilitation. *Experimental Brain Research*, **2005**, 164, 323-33 | 2.3 | 40 |
| 220 | Hyponatremic coma under oxcarbazepine therapy. *Epilepsy Research*, **1992**, 11, 67-70 | 3 | 40 |
| 219 | Idiopathic-generalized epilepsy shows profound white matter diffusion-tensor imaging alterations. *Human Brain Mapping*, **2014**, 35, 3332-42 | 5.9 | 39 |
| 218 | The influence of established and new antiepileptic drugs on visual perception. II. A controlled study in patients with epilepsy under long-term antiepileptic medication. *Epilepsy Research*, **1997**, 29, 49-58 | 3 | 39 |
| 217 | Left posterior-dorsal area 44 couples with parietal areas to promote speech fluency, while right area 44 activity promotes the stopping of motor responses. *NeuroImage*, **2016**, 142, 628-644 | 7.9 | 38 |
| 216 | Electrical stimulation and visual network plasticity. *Restorative Neurology and Neuroscience*, **2011**, 29, 365-74 | 2.8 | 38 |
| 215 | The enhancement of cortical excitability over the DLPFC before and during training impairs categorization in the prototype distortion task. *Neuropsychologia*, **2011**, 49, 1974-80 | 3.2 | 38 |
| 214 | Modulation of human trigeminal and extracranial nociceptive processing by transcranial direct current stimulation of the motor cortex. *Cephalalgia*, **2011**, 31, 661-70 | 6.1 | 38 |
| 213 | Dopamine D3 receptor specifically modulates motor and sensory symptoms in iron-deficient mice. *Journal of Neuroscience*, **2011**, 31, 70-7 | 6.6 | 38 |
| 212 | D2 receptor block abolishes theta burst stimulation-induced neuroplasticity in the human motor cortex. *Neuropsychopharmacology*, **2011**, 36, 2097-102 | 8.7 | 38 |
| 211 | A rat model of Charcot-Marie-Tooth disease 1A recapitulates disease variability and supplies biomarkers of axonal loss in patients. *Brain*, **2012**, 135, 72-87 | 11.2 | 38 |
| 210 | Acquired colour deficiency in patients with Parkinson's disease. *Vision Research*, **1998**, 38, 3421-6 | 2.1 | 38 |
| 209 | Pulse configuration-dependent effects of repetitive transcranial magnetic stimulation on visual perception. *NeuroReport*, **2002**, 13, 2229-33 | 1.7 | 38 |
| 208 | Facilitating myoelectric-control with transcranial direct current stimulation: a preliminary study in healthy humans. *Journal of NeuroEngineering and Rehabilitation*, **2014**, 11, 13 | 5.3 | 37 |
| 207 | Exteroceptive suppression of temporalis muscle activity in various types of headache. *Headache*, **1992**, 32, 41-4 | 4.2 | 37 |
| 206 | Comparing cutaneous perception induced by electrical stimulation using rectangular and round shaped electrodes. *Clinical Neurophysiology*, **2011**, 122, 803-7 | 4.3 | 36 |

| | | | |
|---|---|---|---|
| 205 | Functional neuroimaging and transcranial electrical stimulation. *Clinical EEG and Neuroscience*, **2012** , 43, 200-8 | 2.3 | 36 |
| 204 | Cathodal stimulation of human MT+ leads to elevated fMRI signal: a tDCS-fMRI study. *Restorative Neurology and Neuroscience*, **2012**, 30, 255-63 | 2.8 | 36 |
| 203 | No correlation between moving phosphene and motor thresholds: a transcranial magnetic stimulation study. *NeuroReport*, **2004**, 15, 297-302 | 1.7 | 36 |
| 202 | Transcranial electrical stimulation modifies the neuronal response to psychosocial stress exposure. *Human Brain Mapping*, **2014**, 35, 3750-9 | 5.9 | 35 |
| 201 | When size matters: large electrodes induce greater stimulation-related cutaneous discomfort than smaller electrodes at equivalent current density. *Brain Stimulation*, **2014**, 7, 460-7 | 5.1 | 35 |
| 200 | Cortical excitability in smoking and not smoking individuals with and without nicotine. *Psychopharmacology*, **2013**, 229, 653-64 | 4.7 | 35 |
| 199 | A case of refractory orofacial pain treated by transcranial direct current stimulation applied over hand motor area in combination with NMDA agonist drug intake. *Brain Stimulation*, **2011**, 4, 117-21 | 5.1 | 35 |
| 198 | Efficacy of EMG-triggered electrical arm stimulation in chronic hemiparetic stroke patients. *Restorative Neurology and Neuroscience*, **2009**, 27, 189-97 | 2.8 | 34 |
| 197 | Failure of cathodal direct current stimulation to improve fine motor control in musician's dystonia. *Movement Disorders*, **2010**, 25, 389-94 | 7 | 34 |
| 196 | Behavioral changes in unilaterally 6-hydroxy-dopamine lesioned rats after transplantation of differentiated mouse embryonic stem cells without morphological integration. *Stem Cells*, **2004**, 22, 396-404 | 5.8 | 34 |
| 195 | Differential inhibition of chromatic and achromatic perception by transcranial magnetic stimulation of the human visual cortex. *NeuroReport*, **1999**, 10, 1245-8 | 1.7 | 34 |
| 194 | Transcranial electrical stimulation of the occipital cortex during visual perception modifies the magnitude of BOLD activity: A combined tES-fMRI approach. *NeuroImage*, **2016**, 140, 110-7 | 7.9 | 33 |
| 193 | Noninvasively decoding the contents of visual working memory in the human prefrontal cortex within high-gamma oscillatory patterns. *Journal of Cognitive Neuroscience*, **2012**, 24, 304-14 | 3.1 | 33 |
| 192 | High-frequency TRNS reduces BOLD activity during visuomotor learning. *PLoS ONE*, **2013**, 8, e59669 | 3.7 | 33 |
| 191 | The effect of rTMS over left and right dorsolateral premotor cortex on movement timing of either hand. *European Journal of Neuroscience*, **2008**, 27, 757-64 | 3.5 | 33 |
| 190 | Transcranial magnetic stimulation (TMS) of the brain in patients with mesiotemporal epileptic foci. *Clinical EEG (electroencephalography)*, **1993**, 24, 1-5 | | 33 |
| 189 | Double dissociation of working memory and attentional processes in smokers and non-smokers with and without nicotine. *Psychopharmacology*, **2015**, 232, 2491-501 | 4.7 | 32 |
| 188 | The influence of established and new antiepileptic drugs on visual perception. 1. A placebo-controlled, double-blind, single-dose study in healthy volunteers. *Epilepsy Research*, **1997**, 29, 35-47 | 3 | 32 |

| | | | |
|---|---|---|---|
| 187 | Central nervous system involvement in Leber's optic neuropathy. *Journal of Neurology*, **1993**, 240, 251-3 | 5.5 | 32 |
| 186 | Differential activation of the middle-temporal complex to visual stimulation in migraineurs. *Cephalalgia*, **2011**, 31, 338-45 | 6.1 | 31 |
| 185 | H-coil: Induced electric field properties and input/output curves on healthy volunteers, comparison with a standard figure-of-eight coil. *Clinical Neurophysiology*, **2009**, 120, 1174-82 | 4.3 | 31 |
| 184 | Pregabalin exerts oppositional effects on different inhibitory circuits in human motor cortex: a double-blind, placebo-controlled transcranial magnetic stimulation study. *Epilepsia*, **2006**, 47, 813-9 | 6.4 | 31 |
| 183 | Intrahemispheric theta rhythm desynchronization impairs working memory. *Restorative Neurology and Neuroscience*, **2017**, 35, 147-158 | 2.8 | 30 |
| 182 | The effect of anti-epileptic drugs on visual perception in patients with epilepsy. *Brain*, **1996**, 119 ( Pt 2), 539-49 | 11.2 | 30 |
| 181 | Increasing human leg motor cortex excitability by transcranial high frequency random noise stimulation. *Restorative Neurology and Neuroscience*, **2014**, 32, 403-10 | 2.8 | 29 |
| 180 | Rapid effect of nicotine intake on neuroplasticity in non-smoking humans. *Frontiers in Pharmacology*, **2012**, 3, 186 | 5.6 | 29 |
| 179 | Modulating neuronal excitability in the motor cortex with tDCS shows moderate hemispheric asymmetry due to subjects' handedness: a pilot study. *Restorative Neurology and Neuroscience*, **2012**, 30, 191-8 | 2.8 | 29 |
| 178 | A highly sensitive automated complex running wheel test to detect latent motor deficits in the mouse MPTP model of Parkinson's disease. *Experimental Neurology*, **2007**, 205, 207-13 | 5.7 | 29 |
| 177 | Training effects outweigh effects of single-session conventional rTMS and theta burst stimulation in PD patients. *Neurorehabilitation and Neural Repair*, **2009**, 23, 373-81 | 4.7 | 28 |
| 176 | Parietal transcranial direct current stimulation modulates primary motor cortex excitability. *European Journal of Neuroscience*, **2015**, 41, 845-55 | 3.5 | 27 |
| 175 | Acute and chronic effects of noradrenergic enhancement on transcranial direct current stimulation-induced neuroplasticity in humans. *Journal of Physiology*, **2017**, 595, 1305-1314 | 3.9 | 27 |
| 174 | Iron-deficiency sensitizes mice to acute pain stimuli and formalin-induced nociception. *Journal of Nutrition*, **2009**, 139, 2087-92 | 4.1 | 27 |
| 173 | Single-session tDCS-supported retraining does not improve fine motor control in musician's dystonia. *Restorative Neurology and Neuroscience*, **2011**, 29, 85-90 | 2.8 | 27 |
| 172 | Temporal pattern of source activities evoked by different types of motion onset stimuli. *NeuroImage*, **2006**, 31, 1567-79 | 7.9 | 27 |
| 171 | Paired-pulse repetitive transcranial magnetic stimulation of the human motor cortex. *Experimental Brain Research*, **2001**, 139, 465-72 | 2.3 | 27 |
| 170 | Riluzole does not have an acute effect on motor thresholds and the intracortical excitability in amyotrophic lateral sclerosis. *Journal of Neurology*, **1999**, 246 Suppl 3, III22-6 | 5.5 | 27 |

| | | | |
|---|---|---|---|
| 169 | TMS of primary motor cortex with a biphasic pulse activates two independent sets of excitable neurones. *Brain Stimulation*, **2018**, 11, 558-565 | 5.1 | 26 |
| 168 | Is sham cTBS real cTBS? The effect on EEG dynamics. *Frontiers in Human Neuroscience*, **2014**, 8, 1043 | 3.3 | 26 |
| 167 | Separating recognition processes of declarative memory via anodal tDCS: boosting old item recognition by temporal and new item detection by parietal stimulation. *PLoS ONE*, **2015**, 10, e0123085 | 3.7 | 26 |
| 166 | Prophylactic treatment in menstrual migraine: A proof-of-concept study. *Journal of the Neurological Sciences*, **2015**, 354, 103-9 | 3.2 | 26 |
| 165 | Right hemisphere advantage in statistical learning: evidence from a probabilistic sequence learning task. *Brain Stimulation*, **2015**, 8, 277-82 | 5.1 | 26 |
| 164 | Does a single session of theta-burst transcranial magnetic stimulation of inferior temporal cortex affect tinnitus perception?. *BMC Neuroscience*, **2009**, 10, 54 | 3.2 | 26 |
| 163 | Theta burst stimulation of the motor cortex reduces laser-evoked pain perception. *NeuroReport*, **2008**, 19, 193-6 | 1.7 | 26 |
| 162 | Normal intracortical excitability in developmental stuttering. *Movement Disorders*, **2003**, 18, 826-30 | 7 | 26 |
| 161 | Fate of pre-differentiated mouse embryonic stem cells transplanted in unilaterally 6-hydroxydopamine lesioned rats: histological characterization of the grafted cells. *Brain Research*, **2005**, 1045, 80-7 | 3.7 | 26 |
| 160 | Repeated anodal transcranial direct current stimulation induces neural plasticity-associated gene expression in the rat cortex and hippocampus. *Restorative Neurology and Neuroscience*, **2017**, 35, 137-146 | 2.8 | 25 |
| 159 | Effects of Cathode Location and the Size of Anode on Anodal Transcranial Direct Current Stimulation Over the Leg Motor Area in Healthy Humans. *Frontiers in Neuroscience*, **2018**, 12, 443 | 5.1 | 25 |
| 158 | Dopaminergic impact on cortical excitability in humans. *Reviews in the Neurosciences*, **2010**, 21, 289-98 | 4.7 | 25 |
| 157 | Effects of transcranial theta-burst stimulation on acute pain perception. *Restorative Neurology and Neuroscience*, **2010**, 28, 477-84 | 2.8 | 25 |
| 156 | Plasma exchange in polyradiculoneuropathy. *Annals of Neurology*, **1980**, 8, 205-6 | 9.4 | 24 |
| 155 | Application of Transcranial Electric Stimulation (tDCS, tACS, tRNS). *European Psychologist*, **2016**, 21, 4-14 | 4.4 | 24 |
| 154 | Current intensity- and polarity-specific online and aftereffects of transcranial direct current stimulation: An fMRI study. *Human Brain Mapping*, **2020**, 41, 1644-1666 | 5.9 | 24 |
| 153 | Effect of the Nicotinic $\alpha 4\beta 2$-receptor Partial Agonist Varenicline on Non-invasive Brain Stimulation-Induced Neuroplasticity in the Human Motor Cortex. *Cerebral Cortex*, **2015**, 25, 3249-59 | 5.1 | 23 |
| 152 | Perturbation of theta-gamma coupling at the temporal lobe hinders verbal declarative memory. *Brain Stimulation*, **2018**, 11, 509-517 | 5.1 | 22 |

| | | | |
|---|---|---|---|
| 151 | Selected items from the Charcot-Marie-Tooth (CMT) Neuropathy Score and secondary clinical outcome measures serve as sensitive clinical markers of disease severity in CMT1A patients. *Neuromuscular Disorders*, **2014**, 24, 1003-17 | 2.9 | 22 |
| 150 | Plasma exchange therapy for steroid-refractory superimposed relapses in secondary progressive multiple sclerosis. *Journal of Neurology*, **2007**, 254, 1288-9 | 5.5 | 22 |
| 149 | Early optimization in finger dexterity of skilled pianists: implication of transcranial stimulation. *BMC Neuroscience*, **2013**, 14, 35 | 3.2 | 21 |
| 148 | Safety of 5 kHz tACS. *Brain Stimulation*, **2014**, 7, 92-6 | 5.1 | 20 |
| 147 | Piracetam affects facilitatory I-wave interaction in the human motor cortex. *Clinical Neurophysiology*, **2001**, 112, 275-9 | 4.3 | 20 |
| 146 | Electrophysiological correlates of reduced pain perception after theta-burst stimulation. *NeuroReport*, **2009**, 20, 1051-5 | 1.7 | 19 |
| 145 | Treatment of restless legs syndrome with the dopamine agonist alpha-dihydroergocryptine. *Movement Disorders*, **2001**, 16, 731-5 | 7 | 19 |
| 144 | Selective activation of human cortical area V5A by a rotating visual stimulus in fMRI; implication of attentional mechanisms. *NeuroReport*, **1998**, 9, 611-4 | 1.7 | 19 |
| 143 | Cardiac microembolism: prevalence and clinical outcome. *Journal of the Neurological Sciences*, **1996**, 136, 143-7 | 3.2 | 19 |
| 142 | Evidence for Cognitive Placebo and Nocebo Effects in Healthy Individuals. *Scientific Reports*, **2018**, 8, 17443 | 4.9 | 19 |
| 141 | Monitoring transcranial direct current stimulation induced changes in cortical excitability during the serial reaction time task. *Neuroscience Letters*, **2016**, 616, 98-104 | 3.3 | 18 |
| 140 | Pharmacological blockade and genetic absence of the dopamine D2 receptor specifically modulate voluntary locomotor activity in mice. *Behavioural Brain Research*, **2013**, 242, 117-24 | 3.4 | 17 |
| 139 | Towards a rationale of platelet aggregation monitoring in stroke prophylaxis?. *Journal of Stroke and Cerebrovascular Diseases*, **2009**, 18, 111-5 | 2.8 | 17 |
| 138 | Exploration of motor cortex excitability in a diabetic patient with hemiballism-hemichorea. *Movement Disorders*, **2000**, 15, 1000-5 | 7 | 17 |
| 137 | Modification of the silent period by double transcranial magnetic stimulation. *Clinical Neurophysiology*, **2000**, 111, 1868-72 | 4.3 | 17 |
| 136 | Risk assessment of alcohol withdrawal seizures with a Kohonen feature map. *NeuroReport*, **2001**, 12, 1235-8 | 1.7 | 17 |
| 135 | Effects of electrode angle-orientation on the impact of transcranial direct current stimulation on motor cortex excitability. *Brain Stimulation*, **2019**, 12, 263-266 | 5.1 | 17 |
| 134 | Increased HCN channel driven inward rectification in benign cramp fasciculation syndrome. *Brain*, **2015**, 138, 3168-79 | 11.2 | 16 |

| | | | |
|---|---|---|---|
| 133 | Do manual and voxel-based morphometry measure the same? A proof of concept study. *Frontiers in Psychiatry*, **2014**, 5, 39 | 5 | 16 |
| 132 | Normal interhemispheric inhibition in persistent developmental stuttering. *Movement Disorders*, **2009**, 24, 769-73 | 7 | 16 |
| 131 | Reduced speech perceptual acuity for stop consonants in individuals who stutter. *Journal of Speech, Language, and Hearing Research*, **2012**, 55, 276-89 | 2.8 | 16 |
| 130 | Solving the orientation specific constraints in transcranial magnetic stimulation by rotating fields. *PLoS ONE*, **2014**, 9, e86794 | 3.7 | 15 |
| 129 | Diurnal time course of heat pain perception in healthy humans. *Neuroscience Letters*, **2011**, 489, 122-5 | 3.3 | 15 |
| 128 | Restless Legs Syndrome induced by impairment of sensory spinal pathways. *Journal of Neurology*, **2003**, 250, 499-500 | 5.5 | 15 |
| 127 | Personalized repetitive transcranial magnetic stimulation temporarily alters default mode network in healthy subjects. *Scientific Reports*, **2019**, 9, 5631 | 4.9 | 14 |
| 126 | Biomarkers predict outcome in Charcot-Marie-Tooth disease 1A. *Journal of Neurology, Neurosurgery and Psychiatry*, **2017**, 88, 941-952 | 5.5 | 14 |
| 125 | Impairment of motor cortex plasticity in Parkinson's disease, as revealed by theta-burst-transcranial magnetic stimulation and transcranial random noise stimulation. *Parkinsonism and Related Disorders*, **2011**, 17, 297-8 | 3.6 | 14 |
| 124 | Transcranial magnetic stimulation and PAS-induced cortical neuroplasticity in the awake rhesus monkey. *Clinical Neurophysiology*, **2010**, 121, 2143-51 | 4.3 | 14 |
| 123 | Circadian distribution of motor-activity in unilaterally 6-hydroxy-dopamine lesioned rats. *Experimental Brain Research*, **2006**, 169, 283-8 | 2.3 | 14 |
| 122 | Modulation of motor consolidation by external DC stimulation. *Supplements To Clinical Neurophysiology*, **2003**, 56, 277-81 | | 14 |
| 121 | Nicotine modulates human brain plasticity via calcium-dependent mechanisms. *Journal of Physiology*, **2018**, 596, 5429-5441 | 3.9 | 14 |
| 120 | Acute and Chronic Noradrenergic Effects on Cortical Excitability in Healthy Humans. *International Journal of Neuropsychopharmacology*, **2017**, 20, 634-643 | 5.8 | 13 |
| 119 | Transcranial Direct Current Stimulation: Protocols and Physiological Mechanisms of Action **2015**, 101-111 | | 13 |
| 118 | Transcranial direct current stimulation over the left prefrontal cortex increases randomness of choice in instrumental learning. *Cortex*, **2015**, 63, 145-54 | 3.8 | 13 |
| 117 | Anodal tDCS Over the Left DLPFC Did Not Affect the Encoding and Retrieval of Verbal Declarative Information. *Frontiers in Neuroscience*, **2017**, 11, 452 | 5.1 | 13 |
| 116 | Bi-frontal transcranial alternating current stimulation in the ripple range reduced overnight forgetting. *Frontiers in Cellular Neuroscience*, **2015**, 9, 374 | 6.1 | 13 |

| | | | |
|---|---|---|---|
| 115 | Mechanisms of Nicotinic Modulation of Glutamatergic Neuroplasticity in Humans. *Cerebral Cortex*, **2017**, 27, 544-553 | 5.1 | 13 |
| 114 | Transcranial static magnetic field stimulation in man: making things as simple as possible?. *Journal of Physiology*, **2011**, 589, 5917-8 | 3.9 | 13 |
| 113 | Weak rTMS-induced electric fields produce neural entrainment in humans. *Scientific Reports*, **2020**, 10, 11994 | 4.9 | 13 |
| 112 | Mechanisms of Acute and After Effects of Transcranial Direct Current Stimulation **2019**, 81-113 | | 12 |
| 111 | Postural imbalance: an early sign in HIV-1 infected patients. *European Archives of Psychiatry and Clinical Neuroscience*, **1992**, 241, 267-72 | 5.1 | 12 |
| 110 | Strength-Duration Relationship in Paired-pulse Transcranial Magnetic Stimulation (TMS) and Its Implications for Repetitive TMS. *Brain Stimulation*, **2016**, 9, 755-761 | 5.1 | 12 |
| 109 | Effects of anodal transcranial direct current stimulation over lower limb primary motor cortex on motor learning in healthy individuals. *European Journal of Neuroscience*, **2018**, 47, 779-789 | 3.5 | 11 |
| 108 | Shifted dynamic interactions between subcortical nuclei and inferior frontal gyri during response preparation in persistent developmental stuttering. *Brain Structure and Function*, **2018**, 223, 165-182 | 4 | 11 |
| 107 | Modulation of Conflict Processing by Theta-Range tACS over the Dorsolateral Prefrontal Cortex. *Neural Plasticity*, **2019**, 2019, 6747049 | 3.3 | 11 |
| 106 | Carbamazepine reduces short-interval interhemispheric inhibition in healthy humans. *Clinical Neurophysiology*, **2012**, 123, 351-7 | 4.3 | 11 |
| 105 | Retraining and transcranial direct current stimulation in musician's dystonia - a case report. *Movement Disorders*, **2010**, 25, 1758-60 | 7 | 11 |
| 104 | Clinical trials in restless legs syndrome--recommendations of the European RLS Study Group (EURLSSG). *Movement Disorders*, **2007**, 22 Suppl 18, S495-504 | 7 | 11 |
| 103 | Task-related temporal and topographical changes of cortical activity during ultra-rapid visual categorization. *Brain Research*, **2006**, 1112, 191-200 | 3.7 | 11 |
| 102 | Impact of regular LDL apheresis on the development of restless legs syndrome. *Movement Disorders*, **2004**, 19, 1072-5 | 7 | 11 |
| 101 | Volume flow rate evaluation in patients with obstructive arteriosclerotic disease. *Cerebrovascular Diseases*, **2004**, 18, 312-7 | 3.2 | 11 |
| 100 | After-effects of anodal transcranial direct current stimulation on the excitability of the motor cortex in rats. *Restorative Neurology and Neuroscience*, **2016**, 34, 859-68 | 2.8 | 11 |
| 99 | Placebo Intervention Enhances Reward Learning in Healthy Individuals. *Scientific Reports*, **2017**, 7, 41028 | 4.9 | 10 |
| 98 | Dopamine D3 receptor status modulates sexual dimorphism in voluntary wheel running behavior in mice. *Behavioural Brain Research*, **2017**, 333, 235-241 | 3.4 | 10 |

| | | | |
|---|---|---|---|
| 97 | Efficient Killing of Murine Pluripotent Stem Cells by Natural Killer (NK) Cells Requires Activation by Cytokines and Partly Depends on the Activating NK Receptor NKG2D. *Frontiers in Immunology*, **2017**, 8, 870 | 8.4 | 10 |
| 96 | 5 kHz Transcranial Alternating Current Stimulation: Lack of Cortical Excitability Changes When Grouped in a Theta Burst Pattern. *Frontiers in Human Neuroscience*, **2016**, 10, 683 | 3.3 | 10 |
| 95 | Neuroplastic effects of transcranial near-infrared stimulation (tNIRS) on the motor cortex. *Frontiers in Behavioral Neuroscience*, **2015**, 9, 147 | 3.5 | 10 |
| 94 | Neuroscientists do not use non-invasive brain stimulation on themselves for neural enhancement. *Brain Stimulation*, **2014**, 7, 618-9 | 5.1 | 10 |
| 93 | Pulse configuration and rTMS efficacy: a review of clinical studies. *Supplements To Clinical Neurophysiology*, **2003**, 56, 33-41 | | 10 |
| 92 | Transcranial magnetic and direct current stimulation of the visual cortex. *Supplements To Clinical Neurophysiology*, **2003**, 56, 291-304 | | 10 |
| 91 | Pharmacological Characterisation and Modulation of Neuroplasticity in Humans. *Current Neuropharmacology*, **2005**, 3, 217-229 | 7.6 | 10 |
| 90 | Cross-Frequency Transcranial Alternating Current Stimulation over the Trough Impairs Cognitive Control. *ENeuro*, **2020**, 7, | 3.9 | 10 |
| 89 | Training in the practice of noninvasive brain stimulation: Recommendations from an IFCN committee. *Clinical Neurophysiology*, **2021**, 132, 819-837 | 4.3 | 10 |
| 88 | Diverging effects of nicotine on motor learning performance: Improvement in deprived smokers and attenuation in non-smokers. *Addictive Behaviors*, **2017**, 74, 90-97 | 4.2 | 9 |
| 87 | Current direction-dependent modulation of human hand motor function by intermittent theta burst stimulation (iTBS). *Neuroscience Letters*, **2017**, 650, 109-113 | 3.3 | 9 |
| 86 | Homocysteine in restless legs syndrome. *Sleep Medicine*, **2008**, 9, 388-92 | 4.6 | 9 |
| 85 | Restless legs syndrome: diagnostic assessment and the advantages and risks of dopaminergic treatment. *Journal of Neurology*, **2006**, 253 Suppl 4, IV22-8 | 5.5 | 9 |
| 84 | Embryonic stem cell-derived neural progenitors as non-tumorigenic source for dopaminergic neurons. *World Journal of Stem Cells*, **2014**, 6, 248-55 | 5.6 | 9 |
| 83 | Identification of Restless Legs Syndrome Genes by Mutational Load Analysis. *Annals of Neurology*, **2020**, 87, 184-193 | 9.4 | 9 |
| 82 | Minocycline exerts acute inhibitory effects on cerebral cortex excitability in humans. *Epilepsy Research*, **2013**, 107, 302-5 | 3 | 8 |
| 81 | The second exteroceptive suppression is affected by psychophysiological factors. *Journal of Psychosomatic Research*, **2009**, 66, 521-9 | 4.1 | 8 |
| 80 | Parallel increase of heterochromatic increment threshold and postadaptation thresholds in Parkinson's disease and in neuroleptic treatment. *Vision Research*, **1997**, 37, 3535-47 | 2.1 | 8 |

| | | | |
|---|---|---|---|
| 79 | Levodopa treatment does not affect low-dose apomorphine test in patients with Parkinson's disease. *Movement Disorders*, **2004**, 19, 1511-5 | 7 | 8 |
| 78 | Influence of magnetic resonance imaging on evoked potentials and nerve conduction velocities in humans. *Investigative Radiology*, **1991**, 26, 432-7 | 10.1 | 8 |
| 77 | Model-driven neuromodulation of the right posterior region promotes encoding of long-term memories. *Brain Stimulation*, **2020**, 13, 474-483 | 5.1 | 8 |
| 76 | The effect of current flow direction on motor hot spot allocation by transcranial magnetic stimulation. *Physiological Reports*, **2016**, 4, e12666 | 2.6 | 8 |
| 75 | On ways to overcome the magical capacity limit of working memory. *PLoS Biology*, **2018**, 16, e2005867 | 9.7 | 8 |
| 74 | Accurate quantification of tetanus neurotoxin-induced focal spasticity in mice using complex running wheels. *Journal of Neuroscience Methods*, **2012**, 205, 45-8 | 3 | 7 |
| 73 | Botulinum toxin-induced focal paresis in mice is unaffected by muscle activity. *Muscle and Nerve*, **2011**, 44, 930-6 | 3.4 | 7 |
| 72 | Constrained maximum intensity optimized multi-electrode tDCS targeting of human somatosensory network. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 5894-5897 | 0.9 | 7 |
| 71 | Neuronal tuning: Selective targeting of neuronal populations via manipulation of pulse width and directionality. *Brain Stimulation*, **2019**, 12, 1244-1252 | 5.1 | 6 |
| 70 | Nicotinic Restoration of Excitatory Neuroplasticity Is Linked to Improved Implicit Motor Learning Skills in Deprived Smokers. *Frontiers in Neurology*, **2018**, 9, 367 | 4.1 | 6 |
| 69 | Translational Methods for Non-Invasive Electrical Stimulation to Facilitate Gait Rehabilitation Following Stroke - The Future Directions. *Neuroscience and Biomedical Engineering*, **2013**, 1, 22-33 | | 6 |
| 68 | Mechanisms of human motor cortex facilitation induced by subthreshold 5-Hz repetitive transcranial magnetic stimulation. *Journal of Neurophysiology*, **2013**, 109, 3060-6 | 3.2 | 6 |
| 67 | Dyskinesias due to intravenous apomorphine abuse in a patient without basal ganglia disorder. *Movement Disorders*, **2005**, 20, 105-8 | 7 | 6 |
| 66 | New-Onset Headache in Patients With Autoimmune Encephalitis Is Associated With anti-NMDA-Receptor Antibodies. *Headache*, **2016**, 56, 995-1003 | 4.2 | 6 |
| 65 | Default mode network alterations after intermittent theta burst stimulation in healthy subjects. *Translational Psychiatry*, **2020**, 10, 75 | 8.6 | 5 |
| 64 | Altered morphology of the nucleus accumbens in persistent developmental stuttering. *Journal of Fluency Disorders*, **2018**, 55, 84-93 | 2.3 | 5 |
| 63 | Traumatic dissection of the vertebral artery--value of sonographic diagnostics. *Cerebrovascular Diseases*, **2006**, 22, 209-13 | 3.2 | 5 |
| 62 | Increased transcranial magnetic motor threshold after ECT. A case report. *European Archives of Psychiatry and Clinical Neuroscience*, **2002**, 252, 250-2 | 5.1 | 5 |

| | | | |
|---|---|---|---|
| 61 | Possible role of backpropagating action potentials in corticospinal neurons in I-wave periodicity following a TMS pulse. *Neuroscience Research*, **2020**, 156, 234-236 | 2.9 | 5 |
| 60 | When battery exhaustion lets the lame walk: a case report on the importance of long-term stimulator monitoring in deep brain stimulation. *BMC Neurology*, **2015**, 15, 113 | 3.1 | 4 |
| 59 | Less Might Be More: Conduction Failure as a Factor Possibly Limiting the Efficacy of Higher Frequencies in rTMS Protocols. *Frontiers in Neuroscience*, **2018**, 12, 358 | 5.1 | 4 |
| 58 | Growth hormone response to low-dose apomorphine in restless legs syndrome. *Growth Hormone and IGF Research*, **2007**, 17, 323-7 | 2 | 4 |
| 57 | Exteroceptive Suppression of Temporalis Muscle Activity in Different Types of Headache. *Cephalalgia*, **1991**, 11, 32-32 | 6.1 | 4 |
| 56 | Transkranielle Gleichstromstimulation **2007**, 533-542 | | 4 |
| 55 | Adults who stutter lack the specialised pre-speech facilitation found in non-stutterers. *PLoS ONE*, **2018**, 13, e0202634 | 3.7 | 4 |
| 54 | New Results on Brain Stimulation in Chronic Pain. *Neurology International Open*, **2017**, 01, E312-E315 | | 3 |
| 53 | Influence of Concurrent Finger Movements on Transcranial Direct Current Stimulation (tDCS)-Induced Aftereffects. *Frontiers in Behavioral Neuroscience*, **2017**, 11, 169 | 3.5 | 3 |
| 52 | Reply to Motor evoked potential latency, motor threshold and electric field measurements as indices of transcranial magnetic stimulation depth *Clinical Neurophysiology*, **2010**, 121, 258-259 | 4.3 | 3 |
| 51 | Impairment of brainstem implicit learning paradigms differentiates multiple system atrophy (MSA) from idiopathic Parkinson syndrome. *BMJ Open*, **2013**, 3, e003098 | 3 | 3 |
| 50 | Modulation of Functional Connectivity with Transcranial Direct Current Stimulation **2012**, 133-144 | | 3 |
| 49 | Seizure and cardiac arrest during bupropion SR treatment. *Journal of Clinical Psychopharmacology*, **2002**, 22, 630-1 | 1.7 | 3 |
| 48 | transcranial Direct Current Stimulation Studies Open Database (tDCS-OD) | | 3 |
| 47 | Transcranial alternating current stimulation induced excitatory aftereffects are abolished by decaffeinated espresso and reversed into inhibition by espresso with caffeine. *Clinical Neurophysiology*, **2020**, 131, 778-779 | 4.3 | 3 |
| 46 | Selecting stimulation intensity in repetitive transcranial magnetic stimulation studies: A systematic review between 1991 and 2020. *European Journal of Neuroscience*, **2021**, 53, 3404-3415 | 3.5 | 3 |
| 45 | Treatment of Chronic inflammatory polyneuropathy may improve associated hearing loss: a case report and review of The literature. *Muscle and Nerve*, **2016**, 53, 828-9 | 3.4 | 3 |
| 44 | Two cortical representations of voice control are differentially involved in speech fluency. *Brain Communications*, **2021**, 3, fcaa232 | 4.5 | 3 |

| | | | |
|---|---|---|---|
| 43 | Stuttering severity relates to frontotemporal low-beta synchronization during pre-speech preparation.. *Clinical Neurophysiology*, **2022**, 138, 84-96 | 4.3 | 3 |
| 42 | Serial transcranial Doppler monitoring after transient ischemic attack **1996**, 6, 174-6 | | 2 |
| 41 | Low Intensity, Transcranial, Alternating Current Stimulation Reduces Migraine Attack Burden in a Home Application Set-Up: A Double-Blinded, Randomized Feasibility Study. *Brain Sciences*, **2020**, 10, | 3.4 | 2 |
| 40 | Confounding effects of caffeine on neuroplasticity induced by transcranial alternating current stimulation and paired associative stimulation. *Clinical Neurophysiology*, **2021**, 132, 1367-1379 | 4.3 | 2 |
| 39 | I contributes to increased motoneuron excitability in restless legs syndrome. *Journal of Physiology*, **2019**, 597, 599-609 | 3.9 | 2 |
| 38 | Enlarged Area of Mesencephalic Iron Deposits in Adults Who Stutter. *Frontiers in Human Neuroscience*, **2021**, 15, 639269 | 3.3 | 2 |
| 37 | Riluzole does not have an acute effect on motor thresholds and the intracortical excitability in amyotrophic lateral sclerosis. *Journal of Neurology*, **1999**, 246, s022-s026 | 5.5 | 2 |
| 36 | Paired associative stimulation goes spinal. *Journal of Physiology*, **2017**, 595, 6805-6806 | 3.9 | 1 |
| 35 | Current Methods and Approaches of Noninvasive Direct CurrentBased Neuromodulation Techniques **2019**, 115-131 | | 1 |
| 34 | Pharmacological treatments of augmentation in restless legs syndrome patients. *Advances in Pharmacology*, **2019**, 84, 255-265 | 5.7 | 1 |
| 33 | Hand Motor Cortex Excitability During Speaking in Persistent Developmental Stuttering. *Frontiers in Human Neuroscience*, **2019**, 13, 349 | 3.3 | 1 |
| 32 | Effects of Transcranial Electrical Stimulation on Sensory Functions **2014**, 181-205 | | 1 |
| 31 | Induction of Cortical Plasticity: Clinical Applications. *Biosystems and Biorobotics*, **2014**, 3-7 | 0.2 | 1 |
| 30 | Transcranial brain stimulation: potential and limitations. *E-Neuroforum*, **2014**, 20, | | 1 |
| 29 | Transcranial stimulation techniques: which genetics is the best for which purpose?. *Journal of Physiology*, **2011**, 589, 1245 | 3.9 | 1 |
| 28 | Nichtinvasive Hirnstimulation zur Behandlung von Epilepsien. *Zeitschrift Fur Epileptologie*, **2009**, 22, 58-64 | 0.1 | 1 |
| 27 | Invasive Hirnstimulationsverfahren in der Epilepsietherapie. *Zeitschrift Fur Epileptologie*, **2009**, 22, 80-88 | 0.1 | 1 |
| 26 | Nicht invasive transkranielle Stimulation des Gehirns bei Schmerzpatienten. *Klinische Neurophysiologie*, **2004**, 35, 241-244 | 0.2 | 1 |

| | | | |
|---|---|---|---|
| 25 | Erzeugung und Modulation von Neuroplastizität durch transkranielle Gleichstromstimulation beim Menschen. *Klinische Neurophysiologie*, **2004**, 35, 55-60 | 0.2 | 1 |
| 24 | Chapter 25 Visual dysfunction in disorders with altered dopaminergic neurotransmission. *Handbook of Clinical Neurophysiology*, **2005**, 467-490 | | 1 |
| 23 | Inverse correlation of intracortical inhibition and brain-stem inhibition in humans. *Clinical Neurophysiology*, **2002**, 113, 120-3 | 4.3 | 1 |
| 22 | Effect of Pulse Duration and Direction on Plasticity Induced by 5 Hz Repetitive Transcranial Magnetic Stimulation in Correlation With Neuronal Depolarization.. *Frontiers in Neuroscience*, **2021**, 15, 773792 | 5.1 | 1 |
| 21 | Fluency shaping increases integration of the command-to-execution and the auditory-to-motor pathways in persistent developmental stuttering. *NeuroImage*, **2021**, 245, 118736 | 7.9 | 1 |
| 20 | Sicherheitsaspekte und Anwerdungsrichtlinien **2007**, 47-56 | | 1 |
| 19 | Selecting stimulation intensity in repetitive transcranial magnetic stimulation studies: A systematic review between 1991 and 2020 | | 1 |
| 18 | Blood cis-eQTL analysis fails to identify novel association signals among sub-threshold candidates from genome-wide association studies in restless legs syndrome. *PLoS ONE*, **2014**, 9, e98092 | 3.7 | 1 |
| 17 | The roles of caffeine and corticosteroids in modulating cortical excitability after paired associative stimulation (PAS) and transcranial alternating current stimulation (tACS) in caffeine-naïve and caffeine-adapted subjects. *Psychoneuroendocrinology*, **2021**, 127, 105201 | 5 | 1 |
| 16 | No Evidence for Dystonia-Like Sensory Overflow of Tongue Representations in Adults Who Stutter. *Frontiers in Human Neuroscience*, **2019**, 13, 336 | 3.3 | 1 |
| 15 | A novel likely pathogenic heterozygous HECW2 missense variant in a family with variable expressivity of neurodevelopmental delay, hypotonia, and epileptiform EEG patterns. *American Journal of Medical Genetics, Part A*, **2021**, 185, 3838-3843 | 2.5 | 1 |
| 14 | The New Modalities of Transcranial Electric Stimulation: tACS, tRNS, and Other Approaches **2016**, 21-28 | | 0 |
| 13 | Noradrenergic Enhancement of Motor Learning, Attention, and Working Memory in Humans. *International Journal of Neuropsychopharmacology*, **2021**, 24, 490-498 | 5.8 | 0 |
| 12 | Isometric agonist and antagonist muscle activation interacts differently with 140-Hz transcranial alternating current stimulation aftereffects at different intensities. *Journal of Neurophysiology*, **2021**, 126, 340-348 | 3.2 | 0 |
| 11 | Directionality of the injected current targeting the P20/N20 source determines the efficacy of 140 Hz transcranial alternating current stimulation (tACS)-induced aftereffects in the somatosensory cortex.. *PLoS ONE*, **2022**, 17, e0266107 | 3.7 | 0 |
| 10 | Sicherheit der transkraniellen magnetischen oder elektrischen Hirnstimulation. *Klinische Neurophysiologie*, **2017**, 48, 17-20 | 0.2 | |
| 9 | Neues zur Hirnstimulation bei chronischen Schmerzen. *Aktuelle Neurologie*, **2017**, 44, 728-732 | | |
| 8 | Transkranielle Hirnstimulation: Möglichkeiten und Grenzen. *E-Neuroforum*, **2014**, 20, 202-211 | | |

| | | |
|---|---|---|
| 7 | Remission of acute psychotic anxious depression in a patient with Parkinson's disease after treatment with quetiapine. *Movement Disorders*, **2009**, 24, 2431-2 | 7 |
| 6 | Methode und Mechanismen der transkraniellen Gleichstromstimulation. *Klinische Neurophysiologie*, **2007**, 38, 136-140 | 0.2 |
| 5 | 6. Source Analysis of Color-Evoked Potentials in a Realistic Head Model Confirmed by Functional MRI **1998**, 121-130 | |
| 4 | Short-lived Alpha Power Suppression Induced by Low-intensity Arrhythmic rTMS. *Neuroscience*, **2021**, 466, 1-9 | 3.9 |
| 3 | Basic Mechanisms of Transcranial Alternating Current and Random Noise Stimulation **2021**, 21-28 | |
| 2 | The role of the TMS parameters for activation of the corticospinal pathway to the diaphragm.. *Clinical Neurophysiology*, **2022**, 138, 173-185 | 4.3 |
| 1 | Focal visual status epilepticus **2019**, 21, 102-107 | |