

Kevin E Bennet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8002319/publications.pdf>

Version: 2024-02-01

61
papers

1,566
citations

279798

23
h-index

330143

37
g-index

63
all docs

63
docs citations

63
times ranked

1903
citing authors

#	ARTICLE	IF	CITATIONS
1	Cocaine increases stimulation-evoked serotonin efflux in the nucleus accumbens. <i>Journal of Neurophysiology</i> , 2022, 127, 714-724.	1.8	9
2	Assessing Nordihydroguaiaretic Acid Therapeutic Effect for Glioblastoma Multiforme. <i>Sensors</i> , 2022, 22, 2643.	3.8	2
3	The development of ultra-high field MRI guidance technology for neuronavigation. <i>Journal of Neurosurgery</i> , 2022, 137, 1265-1277.	1.6	6
4	Deep Brain Stimulation for Addictive Disorders—Where Are We Now?. <i>Neurotherapeutics</i> , 2022, 19, 1193-1215.	4.4	10
5	The development of an implantable deep brain stimulation device with simultaneous chronic electrophysiological recording and stimulation in humans. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112888.	10.1	60
6	Miniature FSCV Devices: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 13006-13018.	4.7	2
7	Cocaine-Induced Changes in Tonic Dopamine Concentrations Measured Using Multiple-Cyclic Square Wave Voltammetry <i>in vivo</i> . <i>Frontiers in Pharmacology</i> , 2021, 12, 705254.	3.5	17
8	An Investigation Into Miniaturised Closed-Loop DBS Devices. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 671-680.	3.2	3
9	Development and validation of a rapidly deployable CT-guided stereotactic system for external ventricular drainage: preclinical study. <i>Scientific Reports</i> , 2021, 11, 17492.	3.3	3
10	Feasibility of Applying Fourier Transform Electrochemical Impedance Spectroscopy in Fast Cyclic Square Wave Voltammetry for the <i>In Vivo</i> Measurement of Neurotransmitters. <i>Analytical Chemistry</i> , 2021, 93, 15861-15869.	6.5	2
11	Enhanced Dopamine Sensitivity Using Steered Fast-Scan Cyclic Voltammetry. <i>ACS Omega</i> , 2021, 6, 33599-33606.	3.5	3
12	Microdialysis and microperfusion electrodes in neurologic disease monitoring. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 52.	5.0	11
13	Tonic Serotonin Measurements <i>In Vivo</i> Using N-Shaped Multiple Cyclic Square Wave Voltammetry. <i>Analytical Chemistry</i> , 2021, 93, 16987-16994.	6.5	9
14	Sensitive and Selective Measurement of Serotonin <i>in Vivo</i> Using Fast Cyclic Square-Wave Voltammetry. <i>Analytical Chemistry</i> , 2020, 92, 774-781.	6.5	20
15	Evaluation of electrochemical methods for tonic dopamine detection <i>in vivo</i> . <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116049.	11.4	31
16	Assessment of Renal Osteodystrophy via Computational Analysis of Label-free Raman Detection of Multiple Biomarkers. <i>Diagnostics</i> , 2020, 10, 79.	2.6	5
17	A compact stereotactic system for image-guided surgical intervention. <i>Journal of Neural Engineering</i> , 2020, 17, 066014.	3.5	5
18	Clinical applications of neurochemical and electrophysiological measurements for closed-loop neurostimulation. <i>Neurosurgical Focus</i> , 2020, 49, E6.	2.3	27

#	ARTICLE	IF	CITATIONS
19	Simultaneous Detection of Dopamine and Serotonin—A Comparative Experimental and Theoretical Study of Neurotransmitter Interactions. <i>Biosensors</i> , 2019, 9, 3.	4.7	15
20	Development of a miniature device for emerging deep brain stimulation paradigms. <i>PLoS ONE</i> , 2019, 14, e0212554.	2.5	12
21	Analysis of Carbon-Based Microelectrodes for Neurochemical Sensing. <i>Materials</i> , 2019, 12, 3186.	2.9	10
22	Raman Spectroscopic and Microscopic Analysis for Monitoring Renal Osteodystrophy Signatures. <i>Biosensors</i> , 2018, 8, 38.	4.7	7
23	Fast Cyclic Square-Wave Voltammetry To Enhance Neurotransmitter Selectivity and Sensitivity. <i>Analytical Chemistry</i> , 2018, 90, 13348-13355.	6.5	31
24	Comparative Computational and Experimental Detection of Adenosine Using Ultrasensitive Surface-Enhanced Raman Spectroscopy. <i>Sensors</i> , 2018, 18, 2696.	3.8	6
25	Multi-waveform fast-scan cyclic voltammetry mapping of adsorption/desorption kinetics of biogenic amines and their metabolites. <i>Analytical Methods</i> , 2018, 10, 2834-2843.	2.7	8
26	An investigation into closed-loop treatment of neurological disorders based on sensing mitochondrial dysfunction. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 8.	4.6	10
27	Tracking tonic dopamine levels in vivo using multiple cyclic square wave voltammetry. <i>Biosensors and Bioelectronics</i> , 2018, 121, 174-182.	10.1	75
28	A novel re-attachable stereotactic frame for MRI-guided neuronavigation and its validation in a large animal and human cadaver model. <i>Journal of Neural Engineering</i> , 2018, 15, 066003.	3.5	9
29	Antibacterial and Biocompatible Titanium-Copper Oxide Coating May Be a Potential Strategy to Reduce Periprosthetic Infection: An In Vitro Study. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 722-732.	1.5	55
30	Label-Free Raman Imaging to Monitor Breast Tumor Signatures. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 461-469.	1.9	17
31	Noninvasive blood potassium measurement using signal-processed, single-lead ecg acquired from a handheld smartphone. <i>Journal of Electrocardiology</i> , 2017, 50, 620-625.	0.9	33
32	WINCS Harmoni: Closed-loop dynamic neurochemical control of therapeutic interventions. <i>Scientific Reports</i> , 2017, 7, 46675.	3.3	46
33	Instrumentation for electrochemical performance characterization of neural electrodes. <i>Review of Scientific Instruments</i> , 2017, 88, 085101.	1.3	0
34	Detection of norepinephrine in whole blood via fast scan cyclic voltammetry. , 2017, 2017, 111-116.		10
35	Tailoring fast-scan cyclic voltammetry for tonic dopamine concentration measurement. , 2017, , .		0
36	Raman computational and experimental studies of dopamine molecules on silver nanocolloids. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	Analysis of Serotonin Molecules on Silver Nanocolloids—A Raman Computational and Experimental Study. <i>Sensors</i> , 2017, 17, 1471.	3.8	9
38	Raman Computational and Experimental Studies of Dopamine Detection. <i>Biosensors</i> , 2017, 7, 43.	4.7	33
39	A Diamond-Based Electrode for Detection of Neurochemicals in the Human Brain. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 102.	2.0	82
40	Raman and Conductivity Analysis of Graphene for Biomedical Applications. <i>Materials</i> , 2016, 9, 897.	2.9	8
41	Novel Bloodless Potassium Determination Using a Signal-Processed Single-Lead ECG. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	59
42	Dopamine Release in the Nonhuman Primate Caudate and Putamen Depends upon Site of Stimulation in the Subthalamic Nucleus. <i>Journal of Neuroscience</i> , 2016, 36, 6022-6029.	3.6	38
43	Monitoring In Vivo Changes in Tonic Extracellular Dopamine Level by Charge-Balancing Multiple Waveform Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2016, 88, 10962-10970.	6.5	56
44	ELECTROCHEMICAL RECORDINGS DURING DEEP BRAIN STIMULATION IN ANIMALS AND HUMANS: WINCS, MINCS, AND CLOSED-LOOP DBS. , 2015, , 225-250.		0
45	Raman Microscopic Analysis of Internal Stress in Boron-Doped Diamond. <i>Materials</i> , 2015, 8, 2782-2793.	2.9	6
46	Wireless control of intraspinal microstimulation in a rodent model of paralysis. <i>Journal of Neurosurgery</i> , 2015, 123, 232-242.	1.6	11
47	Radio frequency energy harvesting from a feeding source in a passive deep brain stimulation device for murine preclinical research. <i>Medical Engineering and Physics</i> , 2015, 37, 1020-1026.	1.7	3
48	Noninvasive potassium determination using a mathematically processed ECG: Proof of concept for a novel “blood-less, blood test”. <i>Journal of Electrocardiology</i> , 2015, 48, 12-18.	0.9	38
49	A neurochemical closed-loop controller for deep brain stimulation: toward individualized smart neuromodulation therapies. <i>Frontiers in Neuroscience</i> , 2014, 8, 169.	2.8	115
50	Subthalamic Nucleus Deep Brain Stimulation Induces Motor Network BOLD Activation: Use of a High Precision MRI Guided Stereotactic System for Nonhuman Primates. <i>Brain Stimulation</i> , 2014, 7, 603-607.	1.6	44
51	Investigation of the reduction process of dopamine using paired pulse voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 157-164.	3.8	13
52	Implementation of a chronic unilateral intraparenchymal drug delivery system in a swine model. <i>Journal of Neuroscience Methods</i> , 2014, 227, 29-34.	2.5	5
53	Dopamine measurement during prolonged deep brain stimulation: A proof-of-principle study of paired pulse voltammetry. <i>Biomedical Engineering Letters</i> , 2013, 3, 22-31.	4.1	10
54	Centromedian-Parafascicular Deep Brain Stimulation Induces Differential Functional Inhibition of the Motor, Associative, and Limbic Circuits in Large Animals. <i>Biological Psychiatry</i> , 2013, 74, 917-926.	1.3	45

#	ARTICLE	IF	CITATIONS
55	Development of Conductive Boron-Doped Diamond Electrode: A microscopic, Spectroscopic, and Voltammetric Study. <i>Materials</i> , 2013, 6, 5726-5741.	2.9	45
56	Wireless Fast-Scan Cyclic Voltammetry to Monitor Adenosine in Patients With Essential Tremor During Deep Brain Stimulation. <i>Mayo Clinic Proceedings</i> , 2012, 87, 760-765.	3.0	88
57	Wireless Instantaneous Neurotransmitter Concentration System: electrochemical monitoring of serotonin using fast-scan cyclic voltammetry—a proof-of-principle study. <i>Journal of Neurosurgery</i> , 2010, 113, 656-665.	1.6	51
58	Comonitoring of adenosine and dopamine using the Wireless Instantaneous Neurotransmitter Concentration System: proof of principle. <i>Journal of Neurosurgery</i> , 2010, 112, 539-548.	1.6	53
59	Wireless instantaneous neurotransmitter concentration sensing system (WINCS) for intraoperative neurochemical monitoring. , 2009, 2009, 4856-9.		33
60	Wireless Instantaneous Neurotransmitter Concentration System—based amperometric detection of dopamine, adenosine, and glutamate for intraoperative neurochemical monitoring. <i>Journal of Neurosurgery</i> , 2009, 111, 701-711.	1.6	78
61	Development of the Wireless Instantaneous Neurotransmitter Concentration System for intraoperative neurochemical monitoring using fast-scan cyclic voltammetry. <i>Journal of Neurosurgery</i> , 2009, 111, 712-723.	1.6	71