

# Parastoo Hashemi

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,771  
citations

201674

27  
h-index

182427

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical spreading depression and peri-infarct depolarization in acutely injured human cerebral cortex. <i>Brain</i> , 2006, 129, 778-790.	7.6	374
2	Voltammetric Detection of 5-Hydroxytryptamine Release in the Rat Brain. <i>Analytical Chemistry</i> , 2009, 81, 9462-9471.	6.5	236
3	Spreading depolarizations cycle around and enlarge focal ischaemic brain lesions. <i>Brain</i> , 2010, 133, 1994-2006.	7.6	173
4	Dynamic Changes in Brain Glucose and Lactate in Pericontusional Areas of the Human Cerebral Cortex, Monitored with Rapid Sampling On-Line Microdialysis: Relationship with Depolarisation-Like Events. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 402-413.	4.3	140
5	Dynamic Metabolic Response to Multiple Spreading Depolarizations in Patients with Acute Brain Injury: An Online Microdialysis Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1343-1355.	4.3	110
6	Autism-linked dopamine transporter mutation alters striatal dopamine neurotransmission and dopamine-dependent behaviors. <i>Journal of Clinical Investigation</i> , 2019, 129, 3407-3419.	8.2	103
7	Glutamate receptor-dependent increments in lactate, glucose and oxygen metabolism evoked in rat cerebellum <i>in vivo</i> . <i>Journal of Physiology</i> , 2008, 586, 1337-1349.	2.9	101
8	Persisting Depletion of Brain Glucose following Cortical Spreading Depression, despite Apparent Hyperaemia: Evidence for Risk of an Adverse Effect of LeÅo's Spreading Depression. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 166-175.	4.3	101
9	Brain dopamine and serotonin differ in regulation and its consequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11510-11515.	7.1	96
10	In Vivo Ambient Serotonin Measurements at Carbon-Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2017, 89, 9703-9711.	6.5	87
11	Frontiers in electrochemical sensors for neurotransmitter detection: towards measuring neurotransmitters as chemical diagnostics for brain disorders. <i>Analytical Methods</i> , 2019, 11, 2738-2755.	2.7	78
12	Regrowth of Serotonin Axons in the Adult Mouse Brain Following Injury. <i>Neuron</i> , 2016, 91, 748-762.	8.1	75
13	<i>In vivo</i> electrochemical evidence for simultaneous 5-HT and histamine release in the rat substantia nigra pars reticulata following medial forebrain bundle stimulation. <i>Journal of Neurochemistry</i> , 2011, 118, 749-759.	3.9	72
14	The coaction of tonic and phasic dopamine dynamics. <i>Chemical Communications</i> , 2015, 51, 2235-2238.	4.1	72
15	Fast-Scan Deposition-Stripping Voltammetry at Carbon-Fiber Microelectrodes: Real-Time, Subsecond, Mercury Free Measurements of Copper. <i>Analytical Chemistry</i> , 2012, 84, 6298-6302.	6.5	71
16	Fast-Scan Cyclic Voltammetry Analysis of Dynamic Serotonin Responses to Acute Escitalopram. <i>ACS Chemical Neuroscience</i> , 2013, 4, 715-720.	3.5	61
17	Chronically Implanted, Nafion-Coated Ag/AgCl Reference Electrodes for Neurochemical Applications. <i>ACS Chemical Neuroscience</i> , 2011, 2, 658-666.	3.5	57
18	Voltammetric and mathematical evidence for dual transport mediation of serotonin clearance <i>in vivo</i> . <i>Journal of Neurochemistry</i> , 2014, 130, 351-359.	3.9	53

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19	In vivo Hippocampal Serotonin Dynamics in Male and Female Mice: Determining Effects of Acute Escitalopram Using Fast Scan Cyclic Voltammetry. <i>Frontiers in Neuroscience</i> , 2019, 13, 362.	2.8	46
20	In vivo histamine voltammetry in the mouse preammillary nucleus. <i>Analyst, The</i> , 2015, 140, 3759-3765.	3.5	43
21	Ultrafast Detection and Quantification of Brain Signaling Molecules with Carbon Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2012, 84, 8096-8101.	6.5	38
22	Fiber-Based Electrochemical Biosensors for Monitoring pH and Transient Neurometabolic Lactate. <i>Analytical Chemistry</i> , 2021, 93, 6646-6655.	6.5	38
23	Novel frontiers in voltammetric trace metal analysis: Towards real time, on-site, in situ measurements. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 206-219.	11.4	36
24	Application Of Rapid-Sampling, Online Microdialysis To The Monitoring Of Brain Metabolism During Aneurysm Surgery. <i>Operative Neurosurgery</i> , 2006, 58, ONS-313-ONS-321.	0.8	31
25	Recent Developments in Carbon Sensors for At-Source Electroanalysis. <i>Analytical Chemistry</i> , 2019, 91, 27-43.	6.5	31
26	Treatment of Critical Care Patients with Substantial Acute Ischemic or Traumatic Brain Injury. <i>Critical Care Medicine</i> , 2005, 33, 2147-2149.	0.9	28
27	Fast serotonin voltammetry as a versatile tool for mapping dynamic tissue architecture: I. Responses at carbon fibers describe local tissue physiology. <i>Journal of Neurochemistry</i> , 2020, 153, 33-50.	3.9	28
28	Real-Time Subsecond Voltammetric Analysis of Pb in Aqueous Environmental Samples. <i>Analytical Chemistry</i> , 2013, 85, 7535-7541.	6.5	27
29	Voltammetric evidence for discrete serotonin circuits, linked to specific reuptake domains, in the mouse medial prefrontal cortex. <i>Neurochemistry International</i> , 2019, 123, 50-58.	3.8	27
30	Inflammation-Induced Histamine Impairs the Capacity of Escitalopram to Increase Hippocampal Extracellular Serotonin. <i>Journal of Neuroscience</i> , 2021, 41, 6564-6577.	3.6	26
31	Selective monoaminergic and histaminergic circuit dysregulation following long-term HIV-1 protein exposure. <i>Journal of NeuroVirology</i> , 2019, 25, 540-550.	2.1	25
32	A voltammetric and mathematical analysis of histaminergic modulation of serotonin in the mouse hypothalamus. <i>Journal of Neurochemistry</i> , 2016, 138, 374-383.	3.9	24
33	A tale of two transmitters: serotonin and histamine as in vivo biomarkers of chronic stress in mice. <i>Journal of Neuroinflammation</i> , 2022, 19, .	7.2	22
34	Improved Calibration of Voltammetric Sensors for Studying Pharmacological Effects on Dopamine Transporter Kinetics in Vivo. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1509-1516.	3.5	20
35	Real-Time, Selective Detection of Copper(II) Using Ionophore-Grafted Carbon-Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2016, 88, 6962-6966.	6.5	20
36	High-fat diet induces neuroinflammation and reduces the serotonergic response to escitalopram in the hippocampus of obese rats. <i>Brain, Behavior, and Immunity</i> , 2021, 96, 63-72.	4.1	20

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37	ROS-Scavenging Selenofluoxetine Derivatives Inhibit <i>In Vivo</i> Serotonin Reuptake. ACS Omega, 2022, 7, 8314-8322.	3.5	18
38	Fast voltammetry of metals at carbon-fiber microelectrodes: copper adsorption onto activated carbon aids rapid electrochemical analysis. Analyst, The, 2014, 139, 4673-4680.	3.5	16
39	A mathematical model for histamine synthesis, release, and control in varicosities. Theoretical Biology and Medical Modelling, 2017, 14, 24.	2.1	16
40	Modulation of serotonin dynamics in the dorsal raphe nucleus via high frequency medial prefrontal cortex stimulation. Neurobiology of Disease, 2016, 94, 129-138.	4.4	15
41	A density-controlled scaffolding strategy for covalent functionalization of carbon-fiber microelectrodes. Analytical Methods, 2015, 7, 7352-7357.	2.7	13
42	Glutamate Electropolymerization on Carbon Increases Analytical Sensitivity to Dopamine and Serotonin: An Auspicious <i>In Vivo</i> Phenomenon in Mice?. Analytical Chemistry, 2021, 93, 10762-10771.	6.5	12
43	Fast voltammetry of metals at carbon-fiber microelectrodes: towards an online speciation sensor. Analyst, The, 2016, 141, 6432-6437.	3.5	11
44	Integrating the monoamine and cytokine hypotheses of depression: Is histamine the missing link?. European Journal of Neuroscience, 2022, 55, 2895-2911.	2.6	11
45	Novel, User-Friendly Experimental and Analysis Strategies for Fast Voltammetry: Next Generation FSCAV with Artificial Neural Networks. ACS Measurement Science Au, 2022, 2, 241-250.	4.4	11
46	Analysis of Electrochemically Elusive Trace Metals with Carbon Fiber Microelectrodes. Analytical Chemistry, 2018, 90, 11917-11924.	6.5	10
47	3D carbon nanofiber microelectrode arrays fabricated by plasma-assisted pyrolysis to enhance sensitivity and stability of real-time dopamine detection. Biomedical Microdevices, 2016, 18, 112.	2.8	9
48	Novel, User-Friendly Experimental and Analysis Strategies for Fast Voltammetry: 1. The Analysis Kid for FSCV. ACS Measurement Science Au, 2021, 1, 11-19.	4.4	9
49	Voltammetric Characterization of Cu(II) Complexation in Real-Time. Analytical Chemistry, 2016, 88, 7603-7608.	6.5	5
50	Autoreceptor control of serotonin dynamics. BMC Neuroscience, 2020, 21, 40.	1.9	5
51	Low-Frequency Oscillations of <i>In Vivo</i> Ambient Extracellular Brain Serotonin. Cells, 2022, 11, 1719.	4.1	4
52	Fast voltammetry of metals at carbon-fiber microelectrodes: rapid determination of solution formation constants. Analyst, The, 2016, 141, 6025-6030.	3.5	3
53	Experimental Methods for Investigating Uptake 2 Processes <i>In Vivo</i> . Handbook of Experimental Pharmacology, 2021, 266, 101-117.	1.8	3
54	Voltammetric Approach for Characterizing the Biophysical and Chemical Functionality of Human Induced Pluripotent Stem Cell-Derived Serotonin Neurons. Analytical Chemistry, 2022, 94, 8847-8856.	6.5	3

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55	A simplified LED-driven switch for fast-scan controlled-adsorption voltammetry instrumentation. HardwareX, 2019, 5, e00051.	2.2	2
56	Paying Attention with the Latest Technology. Neuron, 2007, 56, 4-5.	8.1	1
57	PROBING SEROTONIN NEUROTRANSMISSION: IMPLICATIONS FOR NEUROPSYCHIATRIC DISORDERS. , 2015, , 269-285.		1
58	Electrochemical detection of serotonin release in rodents. Handbook of Behavioral Neuroscience, 2020, 31, 157-174.	0.7	1
59	Analytical science in neurochemistry. Analyst, The, 2020, 145, 3774-3775.	3.5	1
60	Brain Chemistry: Neurotransmitters. , 2018, , 316-316.		0
61	Mathematical Models of Serotonin, Histamine, and Depression. , 0, , .		0
62	Initial evidence for peri-infarct depolarization or cortical spreading depression as a cause of neurological deterioration in patients with subarachnoid haemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S116-S116.	4.3	0
63	The application of rapid-sampling, on-line microdialysis to intraoperative brain monitoring during aneurysm surgery. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S565-S565.	4.3	0
64	Detection of cortical spreading depression and peri-infarct depolarisations in the injured human brain. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S427-S427.	4.3	0