B Jill Venton

List of Publications by Year
in descending order

128 papers	8,822 citations	43973 48 h-index	45213 90 g-index
133 all docs	133 docs citations	133 times ranked	7163 citing authors

#	Article	IF	Citations
1	Dual-Channel Electrochemical Measurements Reveal Rapid Adenosine is Localized in Brain Slices. ACS Chemical Neuroscience, 2022, , .	1.7	3
2	Atomistic Simulations of Dopamine Diffusion Dynamics on a Pristine Graphene Surface**. ChemPhysChem, 2022, 23, .	1.0	4
3	Different Electrochemical Behavior of Cationic Dopamine from Anionic Ascorbic Acid and DOPAC at CNT Yarn Microelectrodes. Journal of the Electrochemical Society, 2022, 169, 026506.	1.3	8
4	Pannexin1 channels regulate mechanically stimulated but not spontaneous adenosine release. Analytical and Bioanalytical Chemistry, 2022, 414, 3781-3789.	1.9	4
5	NGenE 2021: Electrochemistry Is Everywhere. ACS Energy Letters, 2022, 7, 368-374.	8.8	6
6	<scp>SSRI</scp> antidepressants differentially modulate serotonin reuptake and release in <i>Drosophila</i>. Journal of Neurochemistry, 2022, 162, 404-416.	2.1	4
7	Structure and Dynamics of Adsorbed Dopamine on Solvated Carbon Nanotubes and in a CNT Groove. Molecules, 2022, 27, 3768.	1.7	0
8	Carbon microelectrodes with customized shapes for neurotransmitter detection: A review. Analytica Chimica Acta, 2022, 1223, 340165.	2.6	13
9	Ring Finger Protein 11 (RNF11) Modulates Dopamine Release in Drosophila. Neuroscience, 2021, 452, 37-48.	1.1	3
10	Influence of Geometry on Thin Layer and Diffusion Processes at Carbon Electrodes. Langmuir, 2021, 37, 2667-2676.	1.6	31
11	A genetically encoded sensor for measuring serotonin dynamics. Nature Neuroscience, 2021, 24, 746-752.	7.1	148
12	Electrochemical treatment in KOH renews and activates carbon fiber microelectrode surfaces. Analytical and Bioanalytical Chemistry, 2021, 413, 6737-6746.	1.9	13
13	Spontaneous, transient adenosine release is not enhanced in the CA1 region of hippocampus during severe ischemia models. Journal of Neurochemistry, 2021, 159, 887-900.	2.1	6
14	Strategies for enhancing remote student engagement through active learning. Analytical and Bioanalytical Chemistry, 2021, 413, 1507-1512.	1.9	36
15	Spontaneous Adenosine and Dopamine Cotransmission in the Caudate-Putamen Is Regulated by Adenosine Receptors. ACS Chemical Neuroscience, 2021, 12, 4371-4379.	1.7	6
16	Carbon nanospike coated nanoelectrodes for measurements of neurotransmitters. Faraday Discussions, 2021, 233, 303-314.	1.6	7
17	Dietary yeast influences ethanol sedation in Drosophila via serotonergic neuron function. Addiction Biology, 2020, 25, e12779.	1.4	8
18	Measurement of natural variation of neurotransmitter tissue content in red harvester ant brains among different colonies. Analytical and Bioanalytical Chemistry, 2020, 412, 6167-6175.	1.9	1

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19	Fundamentals of fast-scan cyclic voltammetry for dopamine detection. Analyst, The, 2020, 145, 1158-1168.	1.7	184
20	Recent advances in fast-scan cyclic voltammetry. Analyst, The, 2020, 145, 1087-1102.	1.7	124
21	A₁ and A_{2A} Receptors Modulate Spontaneous Adenosine but Not Mechanically Stimulated Adenosine in the Caudate. ACS Chemical Neuroscience, 2020, 11, 3377-3385.	1.7	7
22	Thin layer cell behavior of CNT yarn and cavity carbon nanopipette electrodes: Effect on catecholamine detection. Electrochimica Acta, 2020, 361, 137032.	2.6	18
23	Real-Time Measurement of Stimulated Dopamine Release in Compartments of the Adult <i>Drosophila melanogaster</i> Mushroom Body. Analytical Chemistry, 2020, 92, 14398-14407.	3.2	12
24	Improving serotonin fast-scan cyclic voltammetry detection: new waveforms to reduce electrode fouling. Analyst, The, 2020, 145, 7437-7446.	1.7	41
25	3D-Printed Carbon Nanoelectrodes for In Vivo Neurotransmitter Sensing. Nano Letters, 2020, 20, 6831-6836.	4.5	45
26	Structural Similarity Image Analysis for Detection of Adenosine and Dopamine in Fast-Scan Cyclic Voltammetry Color Plots. Analytical Chemistry, 2020, 92, 10485-10494.	3.2	20
27	CD73 or CD39 Deletion Reveals Different Mechanisms of Formation for Spontaneous and Mechanically Stimulated Adenosine and Sex Specific Compensations in ATP Degradation. ACS Chemical Neuroscience, 2020, 11, 919-928.	1.7	13
28	Complex sex and estrous cycle differences in spontaneous transient adenosine. Journal of Neurochemistry, 2020, 153, 216-229.	2.1	21
29	Optimization of graphene oxide-modified carbon-fiber microelectrode for dopamine detection. Analytical Methods, 2020, 12, 2893-2902.	1.3	14
30	Voltammetry. , 2020, , 27-50.		18
31	Nanodiamond Coating Improves the Sensitivity and Antifouling Properties of Carbon Fiber Microelectrodes. ACS Sensors, 2019, 4, 2403-2411.	4.0	62
32	Carbon nanospikes have better electrochemical properties than carbon nanotubes due to greater surface roughness and defect sites. Carbon, 2019, 155, 250-257.	5.4	44
33	Review: new insights into optimizing chemical and 3D surface structures of carbon electrodes for neurotransmitter detection. Analytical Methods, 2019, 11, 247-261.	1.3	68
34	Development of a novel micro biosensor for in vivo monitoring of glutamate release in the brain. Biosensors and Bioelectronics, 2019, 130, 103-109.	5.3	78
35	Mechanism of Histamine Oxidation and Electropolymerization at Carbon Electrodes. Analytical Chemistry, 2019, 91, 8366-8373.	3.2	48
36	Introduction to electrochemistry for health applications. Analytical Methods, 2019, 11, 2736-2737.	1.3	5

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37	Cavity Carbon-Nanopipette Electrodes for Dopamine Detection. Analytical Chemistry, 2019, 91, 4618-4624.	3.2	72
38	Comparison of spontaneous and mechanically-stimulated adenosine release in mice. Neurochemistry International, 2019, 124, 46-50.	1.9	15
39	Caffeine Modulates Spontaneous Adenosine and Oxygen Changes during Ischemia and Reperfusion. ACS Chemical Neuroscience, 2019, 10, 1941-1949.	1.7	16
40	Electrochemistry at the Synapse. Annual Review of Analytical Chemistry, 2019, 12, 297-321.	2.8	60
41	(Invited)ÂNew Carbon Electrodes for Neurochemistry. ECS Meeting Abstracts, 2019, MA2019-02, 2419-2419.	0.0	0
42	Carbon Nanohornâ€modified Carbon Fiber Microelectrodes for Dopamine Detection. Electroanalysis, 2018, 30, 1073-1081.	1.5	49
43	Virtual Issue Highlighting Selected Women Analytical Chemists. Analytical Chemistry, 2018, 90, 1433-1433.	3.2	0
44	Drosophila as a Model System for Neurotransmitter Measurements. ACS Chemical Neuroscience, 2018, 9, 1872-1883.	1.7	38
45	Nicotinic acetylcholine receptor (nAChR) mediated dopamine release in larval Drosophila melanogaster. Neurochemistry International, 2018, 114, 33-41.	1.9	24
46	Regional Variations of Spontaneous, Transient Adenosine Release in Brain Slices. ACS Chemical Neuroscience, 2018, 9, 505-513.	1.7	31
47	3Dâ€Printed Carbon Electrodes for Neurotransmitter Detection. Angewandte Chemie, 2018, 130, 14451-14455.	1.6	13
48	3Dâ€Printed Carbon Electrodes for Neurotransmitter Detection. Angewandte Chemie - International Edition, 2018, 57, 14255-14259.	7.2	94
49	Early changes in transient adenosine during cerebral ischemia and reperfusion injury. PLoS ONE, 2018, 13, e0196932.	1.1	43
50	Electrochemical Measurements of Acetylcholine-Stimulated Dopamine Release in Adult <i>Drosophila melanogaster</i> Brains. Analytical Chemistry, 2018, 90, 10318-10325.	3.2	26
51	Communicationâ€"Carbon Nanotube Fiber Microelectrodes for High Temporal Measurements of Dopamine. Journal of the Electrochemical Society, 2018, 165, G3071-G3073.	1.3	34
52	Expanding University Student Outreach: Professional Development Workshops for Teachers Led by Graduate Students. Journal of Chemical Education, 2018, 95, 1954-1959.	1.1	3
53	Correlation of transient adenosine release and oxygen changes in the caudateâ€putamen. Journal of Neurochemistry, 2017, 140, 13-23.	2.1	34
54	Transient Adenosine Release Is Modulated by NMDA and GABA_B Receptors. ACS Chemical Neuroscience, 2017, 8, 376-385.	1.7	12

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55	Evaluation of carbon nanotube fiber microelectrodes for neurotransmitter detection: Correlation of electrochemical performance and surface properties. Analytica Chimica Acta, 2017, 965, 1-8.	2.6	75
56	O₂ Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. Analytical Chemistry, 2017, 89, 5605-5611.	3.2	56
57	PEDOT: Nafion Coated Microelectrode Biosensor for in Vivo Monitoring of Glutamate Release in Brain. Procedia Technology, 2017, 27, 229.	1.1	3
58	Comparison of Polyethylenimine/CNT Fiber, Chlorosulfonic Acid/CNT Fiber, and CNT Yarn Microelectrodes for Neurotransmitter Detection. Procedia Technology, 2017, 27, 72-73.	1.1	1
59	Analytical Techniques in Neuroscience: Recent Advances in Imaging, Separation, and Electrochemical Methods. Analytical Chemistry, 2017, 89, 314-341.	3.2	109
60	Automated Algorithm for Detection of Transient Adenosine Release. ACS Chemical Neuroscience, 2017, 8, 386-393.	1.7	25
61	(Invited) Carbon Nanotube-Based Microelectrodes for Enhanced Neurochemical Detection. ECS Transactions, 2017, 80, 1497-1509.	0.3	10
62	High performance, low cost carbon nanotube yarn based 3D printed electrodes compatible with a conventional screen printed electrode system. , 2017, 2017, 100-105.		5
63	(Invited) New Methods to Fabricate Electrodes for Neurotransmitter Measurements. ECS Meeting Abstracts, 2017, , .	0.0	0
64	(Invited) Tunable CNT Fiber and Yarn Microelectrodes for Measurements of Different Neurochemicals. ECS Meeting Abstracts, 2017, , .	0.0	0
65	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine in Vivo. ACS Sensors, 2016, 1, 508-515.	4.0	74
66	Novel carbon-fiber microelectrode batch fabrication using a 3D-printed mold and polyimide resin. Analyst, The, 2016, 141, 5256-5260.	1.7	11
67	Fast-Scan Cyclic Voltammetry (FSCV) Detection of Endogenous Octopamine inDrosophila melanogasterVentral Nerve Cord. ACS Chemical Neuroscience, 2016, 7, 1112-1119.	1.7	41
68	Quantification of Histamine and Carcinine in <i>Drosophila melanogaster</i> Tissues. ACS Chemical Neuroscience, 2016, 7, 407-414.	1.7	26
69	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. Analytical Chemistry, 2016, 88, 645-652.	3.2	113
70	ELECTROCHEMICAL DETECTION OF ADENOSINE IN VIVO. , 2015, , 79-111.		0
71	Clearance of rapid adenosine release is regulated by nucleoside transporters and metabolism. Pharmacology Research and Perspectives, 2015, 3, e00189.	1.1	31
72	Characterization of dopamine releasable and reserve pools in <i>Drosophila</i> larvae using <scp>ATP</scp>/P2X₂â€mediated stimulation. Journal of Neurochemistry, 2015, 134, 445-454.	2.1	17

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73	Comparison of dopamine kinetics in the larval <i>Drosophila</i> ventral nerve cord and protocerebrum with improved optogenetic stimulation. Journal of Neurochemistry, 2015, 135, 695-704.	2.1	21
74	Fast-scan Cyclic Voltammetry for the Characterization of Rapid Adenosine Release. Computational and Structural Biotechnology Journal, 2015, 13, 47-54.	1.9	74
75	Recent trends in carbon nanomaterial-based electrochemical sensors for biomolecules: A review. Analytica Chimica Acta, 2015, 887, 17-37.	2.6	441
76	Carbon Nanopipette Electrodes for Dopamine Detection in <i>Drosophila</i>. Analytical Chemistry, 2015, 87, 3849-3855.	3.2	92
77	Adenosine transiently modulates stimulated dopamine release in the caudateâ€“putamen via A1 receptors. Journal of Neurochemistry, 2015, 132, 51-60.	2.1	49
78	Carbon nanospikes grown on metal wires as microelectrode sensors for dopamine. Analyst, The, 2015, 140, 7283-7292.	1.7	56
79	Analysis of Neurotransmitter Tissue Content of <i>Drosophila melanogaster</i> in Different Life Stages. ACS Chemical Neuroscience, 2015, 6, 117-123.	1.7	35
80	Mechanical stimulation evokes rapid increases in extracellular adenosine concentration in the prefrontal cortex. Journal of Neurochemistry, 2014, 130, 50-60.	2.1	43
81	Sawhorse Waveform Voltammetry for Selective Detection of Adenosine, ATP, and Hydrogen Peroxide. Analytical Chemistry, 2014, 86, 7486-7493.	3.2	67
82	Polyethylenimine Carbon Nanotube Fiber Electrodes for Enhanced Detection of Neurotransmitters. Analytical Chemistry, 2014, 86, 8568-8575.	3.2	77
83	High Temporal Resolution Measurements of Dopamine with Carbon Nanotube Yarn Microelectrodes. Analytical Chemistry, 2014, 86, 5721-5727.	3.2	91
84	Optogenetic Control of Serotonin and Dopamine Release in <i>Drosophila</i> Larvae. ACS Chemical Neuroscience, 2014, 5, 666-673.	1.7	40
85	Characterization of Spontaneous, Transient Adenosine Release in the Caudate-Putamen and Prefrontal Cortex. PLoS ONE, 2014, 9, e87165.	1.1	64
86	The mechanism of electrically stimulated adenosine release varies by brain region. Purinergic Signalling, 2013, 9, 167-174.	1.1	37
87	Epoxy insulated carbon fiber and carbon nanotube fiber microelectrodes. Sensors and Actuators B: Chemical, 2013, 182, 652-658.	4.0	31
88	Quantitation of dopamine, serotonin and adenosine content in a tissue punch from a brain slice using capillary electrophoresis with fast-scan cyclic voltammetry detection. Analytical Methods, 2013, 5, 2704.	1.3	54
89	Kinetics of the Dopamine Transporter in Drosophila Larva. ACS Chemical Neuroscience, 2013, 4, 832-837.	1.7	24
90	Fast Scan Cyclic Voltammetry as a Novel Method for Detection of Real-Time Gonadotropin-Releasing Hormone Release in Mouse Brain Slices. Journal of Neuroscience, 2012, 32, 14664-14669.	1.7	51

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91	Rapid, Sensitive Detection of Neurotransmitters at Microelectrodes Modified with Self-assembled SWCNT Forests. Analytical Chemistry, 2012, 84, 7816-7822.	3.2	93
92	Nafionâ€“CNT coated carbon-fiber microelectrodes for enhanced detection of adenosine. Analyst, The, 2012, 137, 3045.	1.7	72
93	Comparison of Nafion- and overoxidized polypyrrole-carbon nanotube electrodes for neurotransmitter detection. Analytical Methods, 2011, 3, 2379.	1.3	37
94	Functional groups modulate the sensitivity and electron transfer kinetics of neurochemicals at carbon nanotube modified microelectrodes. Analyst, The, 2011, 136, 3557.	1.7	99
95	<i>Drosophila</i> Dopamine2-like Receptors Function as Autoreceptors. ACS Chemical Neuroscience, 2011, 2, 723-729.	1.7	33
96	Analysis of Biogenic Amines in a Single <i>Drosophila</i> Larva Brain by Capillary Electrophoresis with Fast-Scan Cyclic Voltammetry Detection. Analytical Chemistry, 2011, 83, 2258-2264.	3.2	47
97	Review: Carbon nanotube based electrochemical sensors for biomolecules. Analytica Chimica Acta, 2010, 662, 105-127.	2.6	890
98	Microelectrode Sensing of Adenosine/Adenosineâ€5â€²â€triphosphate with Fastâ€Scan Cyclic Voltammetry. Electroanalysis, 2010, 22, 1167-1174.	1.5	21
99	Both synthesis and reuptake are critical for replenishing the releasable serotonin pool in <i>Drosophila</i>. Journal of Neurochemistry, 2010, 113, 188-199.	2.1	37
100	Synapsins Differentially Control Dopamine and Serotonin Release. Journal of Neuroscience, 2010, 30, 9762-9770.	1.7	100
101	Rapid determination of adenosine deaminase kinetics using fast-scan cyclic voltammetry. Physical Chemistry Chemical Physics, 2010, 12, 10027.	1.3	15
102	Adenosine Release Evoked by Short Electrical Stimulations in Striatal Brain Slices Is Primarily Activity Dependent. ACS Chemical Neuroscience, 2010, 1, 775-787.	1.7	48
103	A1 receptors self-regulate adenosine release in the striatum: evidence of autoreceptor characteristics. Neuroscience, 2010, 171, 1006-1015.	1.1	30
104	Addition reaction and characterization of chlorotris(triphenylphosphine)iridium(I) on silicon(111) surfaces. Applied Surface Science, 2009, 255, 8533-8538.	3.1	4
105	Fast-scan cyclic voltammetry for the detection of tyramine and octopamine. Analytical and Bioanalytical Chemistry, 2009, 394, 329-336.	1.9	54
106	Quantitative evaluation of serotonin release and clearance in Drosophila. Journal of Neuroscience Methods, 2009, 179, 300-308.	1.3	74
107	Carbon-fiber microelectrodes for in vivo applications. Analyst, The, 2009, 134, 18-24.	1.7	190
108	Detection of Endogenous Dopamine Changes in <i>Drosophila melanogaster</i> Using Fast-Scan Cyclic Voltammetry. Analytical Chemistry, 2009, 81, 9306-9313.	3.2	60

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109	Electrochemical Properties of Different Carbonâ€Fiber Microelectrodes Using Fastâ€Scan Cyclic Voltammetry. Electroanalysis, 2008, 20, 2422-2428.	1.5	57
110	Transient adenosine efflux in the rat caudateâ€“putamen. Journal of Neurochemistry, 2008, 105, 1253-1263.	2.1	75
111	Flame Etching Enhances the Sensitivity of Carbon-Fiber Microelectrodes. Analytical Chemistry, 2008, 80, 3708-3715.	3.2	85
112	Carbon nanotube-modified microelectrodes for simultaneous detection of dopamine and serotonin in vivo. Analyst, The, 2007, 132, 876.	1.7	274
113	Subsecond Detection of Physiological Adenosine Concentrations Using Fast-Scan Cyclic Voltammetry. Analytical Chemistry, 2007, 79, 744-750.	3.2	184
114	Pharmacologically induced, subsecond dopamine transients in the caudateâ€“putamen of the anesthetized rat. Synapse, 2007, 61, 37-39.	0.6	38
115	In Vivo Measurements of Neurotransmitters by Microdialysis Sampling. Analytical Chemistry, 2006, 78, 1391-1399.	3.2	251
116	Dynamic amino acid increases in the basolateral amygdala during acquisition and expression of conditioned fear. European Journal of Neuroscience, 2006, 23, 3391-3398.	1.2	35
117	Transient changes in nucleus accumbens amino acid concentrations correlate with individual responsivity to the predator fox odor 2,5-dihydro-2,4,5-trimethylthiazoline. Journal of Neurochemistry, 2006, 96, 236-246.	2.1	35
118	Cocaine Increases Dopamine Release by Mobilization of a Synapsin-Dependent Reserve Pool. Journal of Neuroscience, 2006, 26, 3206-3209.	1.7	213
119	Real-time decoding of dopamine concentration changes in the caudate?putamen during tonic and phasic firing. Journal of Neurochemistry, 2004, 89, 526-526.	2.1	10
120	Correlation of local changes in extracellular oxygen and pH that accompany dopaminergic terminal activity in the rat caudate-putamen. Journal of Neurochemistry, 2003, 84, 373-381.	2.1	142
121	Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. Journal of Neurochemistry, 2003, 87, 1284-1295.	2.1	232
122	Psychoanalytical Electrochemistry: Dopamine and Behavior. Analytical Chemistry, 2003, 75, 414 A-421 A.	3.2	366
123	A role for presynaptic mechanisms in the actions of nomifensine and haloperidol. Neuroscience, 2003, 118, 819-829.	1.1	99
124	Detecting Subsecond Dopamine Release with Fast-Scan Cyclic Voltammetry in Vivo. Clinical Chemistry, 2003, 49, 1763-1773.	1.5	499
125	Response Times of Carbon Fiber Microelectrodes to Dynamic Changes in Catecholamine Concentration. Analytical Chemistry, 2002, 74, 539-546.	3.2	160
126	Neurochemistry and electroanalytical probes. Current Opinion in Chemical Biology, 2002, 6, 696-703.	2.8	78

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127	Sub-second changes in accumbal dopamine during sexual behavior in male rats. NeuroReport, 2001, 12, 2549-2552.	0.6	133
128	Subsecond Adsorption and Desorption of Dopamine at Carbon-Fiber Microelectrodes. Analytical Chemistry, 2000, 72, 5994-6002.	3.2	311