

# B Jill Venton

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118  
papers

6,815  
citations

44  
h-index

81  
g-index

133  
ext. papers

7,876  
ext. citations

6  
avg, IF

6.53  
L-index

#	Paper	IF	Citations
118	Pannexin1 channels regulate mechanically stimulated but not spontaneous adenosine release.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 1	4.4	0
117	NGenE 2021: Electrochemistry Is Everywhere. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 368-374	20.1	3
116	Spontaneous Adenosine and Dopamine Cotransmission in the Caudate-Putamen Is Regulated by Adenosine Receptors. <i>ACS Chemical Neuroscience</i> , <b>2021</b> , 12, 4371-4379	5.7	1
115	A genetically encoded sensor for measuring serotonin dynamics. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 746-752	25.5	29
114	Ring Finger Protein 11 (RNF11) Modulates Dopamine Release in Drosophila. <i>Neuroscience</i> , <b>2021</b> , 452, 37-48	3.9	3
113	Influence of Geometry on Thin Layer and Diffusion Processes at Carbon Electrodes. <i>Langmuir</i> , <b>2021</b> , 37, 2667-2676	4	6
112	Electrochemical treatment in KOH renews and activates carbon fiber microelectrode surfaces. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 6737-6746	4.4	2
111	Spontaneous, transient adenosine release is not enhanced in the CA1 region of hippocampus during severe ischemia models. <i>Journal of Neurochemistry</i> , <b>2021</b> , 159, 887-900	6	0
110	Structural Similarity Image Analysis for Detection of Adenosine and Dopamine in Fast-Scan Cyclic Voltammetry Color Plots. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10485-10494	7.8	15
109	CD73 or CD39 Deletion Reveals Different Mechanisms of Formation for Spontaneous and Mechanically Stimulated Adenosine and Sex Specific Compensations in ATP Degradation. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 919-928	5.7	7
108	Complex sex and estrous cycle differences in spontaneous transient adenosine. <i>Journal of Neurochemistry</i> , <b>2020</b> , 153, 216-229	6	12
107	Voltammetry <b>2020</b> , 27-50		4
106	Optimization of graphene oxide-modified carbon-fiber microelectrode for dopamine detection. <i>Analytical Methods</i> , <b>2020</b> , 12, 2893-2902	3.2	5
105	Measurement of natural variation of neurotransmitter tissue content in red harvester ant brains among different colonies. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 6167-6175	4.4	1
104	Fundamentals of fast-scan cyclic voltammetry for dopamine detection. <i>Analyst, The</i> , <b>2020</b> , 145, 1158-1168	68	75
103	Recent advances in fast-scan cyclic voltammetry. <i>Analyst, The</i> , <b>2020</b> , 145, 1087-1102	5	54
102	A and A Receptors Modulate Spontaneous Adenosine but Not Mechanically Stimulated Adenosine in the Caudate. <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 3377-3385	5.7	3

101	Thin layer cell behavior of CNT yarn and cavity carbon nanopipette electrodes: Effect on catecholamine detection. <i>Electrochimica Acta</i> , <b>2020</b> , 361, 137032-137032	6.7	6
100	Real-Time Measurement of Stimulated Dopamine Release in Compartments of the Adult Mushroom Body. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14398-14407	7.8	2
99	Improving serotonin fast-scan cyclic voltammetry detection: new waveforms to reduce electrode fouling. <i>Analyst, The</i> , <b>2020</b> , 145, 7437-7446	5	15
98	3D-Printed Carbon Nanoelectrodes for In Vivo Neurotransmitter Sensing. <i>Nano Letters</i> , <b>2020</b> , 20, 6831-6836	6.6	18
97	Dietary yeast influences ethanol sedation in Drosophila via serotonergic neuron function. <i>Addiction Biology</i> , <b>2020</b> , 25, e12779	4.6	8
96	Development of a novel micro biosensor for in vivo monitoring of glutamate release in the brain. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 130, 103-109	11.8	42
95	Mechanism of Histamine Oxidation and Electropolymerization at Carbon Electrodes. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8366-8373	7.8	27
94	Nanodiamond Coating Improves the Sensitivity and Antifouling Properties of Carbon Fiber Microelectrodes. <i>ACS Sensors</i> , <b>2019</b> , 4, 2403-2411	9.2	39
93	Carbon nanospikes have better electrochemical properties than carbon nanotubes due to greater surface roughness and defect sites. <i>Carbon</i> , <b>2019</b> , 155, 250-257	10.4	22
92	Review: New insights into optimizing chemical and 3D surface structures of carbon electrodes for neurotransmitter detection. <i>Analytical Methods</i> , <b>2019</b> , 11, 247-261	3.2	48
91	Electrochemistry at the Synapse. <i>Annual Review of Analytical Chemistry</i> , <b>2019</b> , 12, 297-321	12.5	29
90	Cavity Carbon-Nanopipette Electrodes for Dopamine Detection. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 4618-4624	7.4	39
89	Comparison of spontaneous and mechanically-stimulated adenosine release in mice. <i>Neurochemistry International</i> , <b>2019</b> , 124, 46-50	4.4	7
88	Caffeine Modulates Spontaneous Adenosine and Oxygen Changes during Ischemia and Reperfusion. <i>ACS Chemical Neuroscience</i> , <b>2019</b> , 10, 1941-1949	5.7	10
87	Carbon Nanohorn-Modified Carbon Fiber Microelectrodes for Dopamine Detection. <i>Electroanalysis</i> , <b>2018</b> , 30, 1073-1081	3	33
86	Virtual Issue Highlighting Selected Women Analytical Chemists. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 1433	7.8	
85	Drosophila as a Model System for Neurotransmitter Measurements. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 1872-1883	5.7	21
84	Nicotinic acetylcholine receptor (nAChR) mediated dopamine release in larval Drosophila melanogaster. <i>Neurochemistry International</i> , <b>2018</b> , 114, 33-41	4.4	13

83	Electrochemical Measurements of Acetylcholine-Stimulated Dopamine Release in Adult <i>Drosophila melanogaster</i> Brains. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10318-10325	7.8	18
82	Communication-Carbon Nanotube Fiber Microelectrodes for High Temporal Measurements of Dopamine. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, G3071-G3073	3.9	30
81	Expanding University Student Outreach: Professional Development Workshops for Teachers Led by Graduate Students. <i>Journal of Chemical Education</i> , <b>2018</b> , 95, 1954-1959	2.4	2
80	Regional Variations of Spontaneous, Transient Adenosine Release in Brain Slices. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 505-513	5.7	20
79	3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 14451-14455	14.5	10
78	3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14255-14259	16.4	62
77	Early changes in transient adenosine during cerebral ischemia and reperfusion injury. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196932	3.7	30
76	Correlation of transient adenosine release and oxygen changes in the caudate-putamen. <i>Journal of Neurochemistry</i> , <b>2017</b> , 140, 13-23	6	32
75	Transient Adenosine Release Is Modulated by NMDA and GABA Receptors. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 376-385	5.7	10
74	Evaluation of carbon nanotube fiber microelectrodes for neurotransmitter detection: Correlation of electrochemical performance and surface properties. <i>Analytica Chimica Acta</i> , <b>2017</b> , 965, 1-8	6.6	52
73	O Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 5605-5611	7.8	41
72	Carbon Nanomaterials for Neuroanalytical Chemistry <b>2017</b> , 55-83		0
71	PEDOT: Nafion Coated Microelectrode Biosensor for in Vivo Monitoring of Glutamate Release in Brain. <i>Procedia Technology</i> , <b>2017</b> , 27, 229		3
70	Analytical Techniques in Neuroscience: Recent Advances in Imaging, Separation, and Electrochemical Methods. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 314-341	7.8	81
69	Automated Algorithm for Detection of Transient Adenosine Release. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 386-393	5.7	24
68	Carbon Nanotube-Based Microelectrodes for Enhanced Neurochemical Detection. <i>ECS Transactions</i> , <b>2017</b> , 80, 1497-1509	1	6
67	High Performance, Low Cost Carbon Nanotube Yarn based 3D Printed Electrodes Compatible with a Conventional Screen Printed Electrode System <b>2017</b> , 2017, 100-105		2
66	Novel carbon-fiber microelectrode batch fabrication using a 3D-printed mold and polyimide resin. <i>Analyst, The</i> , <b>2016</b> , 141, 5256-5260	5	7

65	Fast-Scan Cyclic Voltammetry (FSCV) Detection of Endogenous Octopamine in <i>Drosophila melanogaster</i> Ventral Nerve Cord. <i>ACS Chemical Neuroscience</i> , <b>2016</b> , 7, 1112-9	5.7	32
64	Quantification of Histamine and Carcine in <i>Drosophila melanogaster</i> Tissues. <i>ACS Chemical Neuroscience</i> , <b>2016</b> , 7, 407-14	5.7	19
63	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 645-52	7.8	90
62	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine. <i>ACS Sensors</i> , <b>2016</b> , 1, 508-515	9.2	56
61	Recent trends in carbon nanomaterial-based electrochemical sensors for biomolecules: A review. <i>Analytica Chimica Acta</i> , <b>2015</b> , 887, 17-37	6.6	341
60	Carbon nanopipette electrodes for dopamine detection in <i>Drosophila</i> . <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3849-55	7.8	76
59	Adenosine transiently modulates stimulated dopamine release in the caudate-putamen via A1 receptors. <i>Journal of Neurochemistry</i> , <b>2015</b> , 132, 51-60	6	39
58	Carbon nanospikes grown on metal wires as microelectrode sensors for dopamine. <i>Analyst, The</i> , <b>2015</b> , 140, 7283-92	5	46
57	Analysis of neurotransmitter tissue content of <i>Drosophila melanogaster</i> in different life stages. <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 117-23	5.7	30
56	ELECTROCHEMICAL DETECTION OF ADENOSINE IN VIVO <b>2015</b> , 79-111		
55	Clearance of rapid adenosine release is regulated by nucleoside transporters and metabolism. <i>Pharmacology Research and Perspectives</i> , <b>2015</b> , 3, e00189	3.1	25
54	Characterization of dopamine releasable and reserve pools in <i>Drosophila</i> larvae using ATP/P2X2-mediated stimulation. <i>Journal of Neurochemistry</i> , <b>2015</b> , 134, 445-54	6	12
53	Comparison of dopamine kinetics in the larval <i>Drosophila</i> ventral nerve cord and protocerebrum with improved optogenetic stimulation. <i>Journal of Neurochemistry</i> , <b>2015</b> , 135, 695-704	6	16
52	Fast-scan Cyclic Voltammetry for the Characterization of Rapid Adenosine Release. <i>Computational and Structural Biotechnology Journal</i> , <b>2015</b> , 13, 47-54	6.8	53
51	Sawhorse waveform voltammetry for selective detection of adenosine, ATP, and hydrogen peroxide. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7486-93	7.8	56
50	Polyethylenimine carbon nanotube fiber electrodes for enhanced detection of neurotransmitters. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8568-75	7.8	57
49	High temporal resolution measurements of dopamine with carbon nanotube yarn microelectrodes. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5721-7	7.8	68
48	Optogenetic control of serotonin and dopamine release in <i>Drosophila</i> larvae. <i>ACS Chemical Neuroscience</i> , <b>2014</b> , 5, 666-73	5.7	30

47	Mechanical stimulation evokes rapid increases in extracellular adenosine concentration in the prefrontal cortex. <i>Journal of Neurochemistry</i> , <b>2014</b> , 130, 50-60	6	33
46	Characterization of spontaneous, transient adenosine release in the caudate-putamen and prefrontal cortex. <i>PLoS ONE</i> , <b>2014</b> , 9, e87165	3.7	54
45	The mechanism of electrically stimulated adenosine release varies by brain region. <i>Purinergic Signalling</i> , <b>2013</b> , 9, 167-74	3.8	33
44	Epoxy insulated carbon fiber and carbon nanotube fiber microelectrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 182, 652-658	8.5	29
43	Quantitation of dopamine, serotonin and adenosine content in a tissue punch from a brain slice using capillary electrophoresis with fast-scan cyclic voltammetry detection. <i>Analytical Methods</i> , <b>2013</b> , 5, 2704-2711	3.2	46
42	Kinetics of the dopamine transporter in Drosophila larva. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 832-7	5.7	20
41	Rapid, sensitive detection of neurotransmitters at microelectrodes modified with self-assembled SWCNT forests. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 7816-22	7.8	81
40	Nafion-CNT coated carbon-fiber microelectrodes for enhanced detection of adenosine. <i>Analyst, The</i> , <b>2012</b> , 137, 3045-51	5	59
39	Fast scan cyclic voltammetry as a novel method for detection of real-time gonadotropin-releasing hormone release in mouse brain slices. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 14664-9	6.6	44
38	Analysis of biogenic amines in a single Drosophila larva brain by capillary electrophoresis with fast-scan cyclic voltammetry detection. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2258-64	7.8	44
37	Comparison of Nafion- and overoxidized polypyrrole-carbon nanotube electrodes for neurotransmitter detection. <i>Analytical Methods</i> , <b>2011</b> , 3, 2379	3.2	31
36	Functional groups modulate the sensitivity and electron transfer kinetics of neurochemicals at carbon nanotube modified microelectrodes. <i>Analyst, The</i> , <b>2011</b> , 136, 3557-65	5	77
35	Drosophila Dopamine <sub>2</sub> -like receptors function as autoreceptors. <i>ACS Chemical Neuroscience</i> , <b>2011</b> , 2, 723-729	5.7	23
34	Both synthesis and reuptake are critical for replenishing the releasable serotonin pool in Drosophila. <i>Journal of Neurochemistry</i> , <b>2010</b> , 113, 188-99	6	32
33	Synapsins differentially control dopamine and serotonin release. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 9762-70	7.0	74
32	Rapid determination of adenosine deaminase kinetics using fast-scan cyclic voltammetry. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 10027-32	3.6	15
31	Adenosine Release Evoked by Short Electrical Stimulations in Striatal Brain Slices is Primarily Activity Dependent. <i>ACS Chemical Neuroscience</i> , <b>2010</b> , 1, 775-787	5.7	41
30	A1 receptors self-regulate adenosine release in the striatum: evidence of autoreceptor characteristics. <i>Neuroscience</i> , <b>2010</b> , 171, 1006-15	3.9	28

29	Review: Carbon nanotube based electrochemical sensors for biomolecules. <i>Analytica Chimica Acta</i> , <b>2010</b> , 662, 105-27	6.6	786
28	Microelectrode Sensing of Adenosine/Adenosine-5'-triphosphate with Fast-Scan Cyclic Voltammetry. <i>Electroanalysis</i> , <b>2010</b> , 22, 1167-1174	3	20
27	Addition reaction and characterization of chlorotris(triphenylphosphine)iridium(I) on silicon(1 1 1) surfaces. <i>Applied Surface Science</i> , <b>2009</b> , 255, 8533-8538	6.7	4
26	Fast-scan cyclic voltammetry for the detection of tyramine and octopamine. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 329-36	4.4	46
25	Quantitative evaluation of serotonin release and clearance in Drosophila. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 179, 300-8	3	60
24	Carbon-fiber microelectrodes for in vivo applications. <i>Analyst, The</i> , <b>2009</b> , 134, 18-24	5	145
23	Detection of endogenous dopamine changes in Drosophila melanogaster using fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 9306-13	7.8	50
22	Transient adenosine efflux in the rat caudate-putamen. <i>Journal of Neurochemistry</i> , <b>2008</b> , 105, 1253-63	6	70
21	Flame etching enhances the sensitivity of carbon-fiber microelectrodes. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3708-15	7.8	77
20	Electrochemical Properties of Different Carbon-Fiber Microelectrodes Using Fast-Scan Cyclic Voltammetry. <i>Electroanalysis</i> , <b>2008</b> , 20, 2422-2428	3	48
19	Subsecond detection of physiological adenosine concentrations using fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 744-50	7.8	156
18	Pharmacologically induced, subsecond dopamine transients in the caudate-putamen of the anesthetized rat. <i>Synapse</i> , <b>2007</b> , 61, 37-9	2.4	36
17	Carbon nanotube-modified microelectrodes for simultaneous detection of dopamine and serotonin in vivo. <i>Analyst, The</i> , <b>2007</b> , 132, 876-84	5	226
16	Cocaine increases dopamine release by mobilization of a synapsin-dependent reserve pool. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 3206-9	6.6	181
15	In vivo measurements of neurotransmitters by microdialysis sampling. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1391-9	7.8	229
14	Dynamic amino acid increases in the basolateral amygdala during acquisition and expression of conditioned fear. <i>European Journal of Neuroscience</i> , <b>2006</b> , 23, 3391-8	3.5	33
13	Transient changes in nucleus accumbens amino acid concentrations correlate with individual responsivity to the predator fox odor 2,5-dihydro-2,4,5-trimethylthiazoline. <i>Journal of Neurochemistry</i> , <b>2006</b> , 96, 236-46	6	35
12	Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 526-526	6	10

11	Correlation of local changes in extracellular oxygen and pH that accompany dopaminergic terminal activity in the rat caudate-putamen. <i>Journal of Neurochemistry</i> , <b>2003</b> , 84, 373-81	6	122
10	Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. <i>Journal of Neurochemistry</i> , <b>2003</b> , 87, 1284-95	6	201
9	Psychoanalytical Electrochemistry: Dopamine and Behavior. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 414 A-421 A	7.8	322
8	A role for presynaptic mechanisms in the actions of nomifensine and haloperidol. <i>Neuroscience</i> , <b>2003</b> , 118, 819-29	3.9	88
7	Detecting subsecond dopamine release with fast-scan cyclic voltammetry in vivo. <i>Clinical Chemistry</i> , <b>2003</b> , 49, 1763-73	5.5	422
6	Neurochemistry and electroanalytical probes. <i>Current Opinion in Chemical Biology</i> , <b>2002</b> , 6, 696-703	9.7	69
5	Response times of carbon fiber microelectrodes to dynamic changes in catecholamine concentration. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 539-46	7.8	137
4	Sub-second changes in accumbal dopamine during sexual behavior in male rats. <i>NeuroReport</i> , <b>2001</b> , 12, 2549-52	1.7	117
3	Subsecond adsorption and desorption of dopamine at carbon-fiber microelectrodes. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 5994-6002	7.8	263
2	Dopaminergic learning and arousal circuits mediate opposing effects on alcohol consumption in <i>Drosophila</i>		5
1	Neurotransmission: Measuring Chemical Events <sup>1</sup>		