

B Jill Venton

List of Publications by Year in descending order

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128
papers

8,822
citations

44069

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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, , .	3.5	3
2	Atomistic Simulations of Dopamine Diffusion Dynamics on a Pristine Graphene Surface**. ChemPhysChem, 2022, 23, .	2.1	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.	2.9	8
4	Pannexin1 channels regulate mechanically stimulated but not spontaneous adenosine release. Analytical and Bioanalytical Chemistry, 2022, 414, 3781-3789.	3.7	4
5	NGenE 2021: Electrochemistry Is Everywhere. ACS Energy Letters, 2022, 7, 368-374.	17.4	6
6	<scp>SSRI</scp> antidepressants differentially modulate serotonin reuptake and release in <i>Drosophila</i>. Journal of Neurochemistry, 2022, 162, 404-416.	3.9	4
7	Structure and Dynamics of Adsorbed Dopamine on Solvated Carbon Nanotubes and in a CNT Groove. Molecules, 2022, 27, 3768.	3.8	0
8	Carbon microelectrodes with customized shapes for neurotransmitter detection: A review. Analytica Chimica Acta, 2022, 1223, 340165.	5.4	13
9	Ring Finger Protein 11 (RNF11) Modulates Dopamine Release in Drosophila. Neuroscience, 2021, 452, 37-48.	2.3	3
10	Influence of Geometry on Thin Layer and Diffusion Processes at Carbon Electrodes. Langmuir, 2021, 37, 2667-2676.	3.5	31
11	A genetically encoded sensor for measuring serotonin dynamics. Nature Neuroscience, 2021, 24, 746-752.	14.8	148
12	Electrochemical treatment in KOH renews and activates carbon fiber microelectrode surfaces. Analytical and Bioanalytical Chemistry, 2021, 413, 6737-6746.	3.7	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.	3.9	6
14	Strategies for enhancing remote student engagement through active learning. Analytical and Bioanalytical Chemistry, 2021, 413, 1507-1512.	3.7	36
15	Spontaneous Adenosine and Dopamine Cotransmission in the Caudate-Putamen Is Regulated by Adenosine Receptors. ACS Chemical Neuroscience, 2021, 12, 4371-4379.	3.5	6
16	Carbon nanospikes coated nanoelectrodes for measurements of neurotransmitters. Faraday Discussions, 2021, 233, 303-314.	3.2	7
17	Dietary yeast influences ethanol sedation in Drosophila via serotonergic neuron function. Addiction Biology, 2020, 25, e12779.	2.6	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.	3.7	1

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19	Fundamentals of fast-scan cyclic voltammetry for dopamine detection. <i>Analyst, The</i> , 2020, 145, 1158-1168.	3.5	184
20	Recent advances in fast-scan cyclic voltammetry. <i>Analyst, The</i> , 2020, 145, 1087-1102.	3.5	124
21	A ₁ and A _{2A} Receptors Modulate Spontaneous Adenosine but Not Mechanically Stimulated Adenosine in the Caudate. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3377-3385.	3.5	7
22	Thin layer cell behavior of CNT yarn and cavity carbon nanopipette electrodes: Effect on catecholamine detection. <i>Electrochimica Acta</i> , 2020, 361, 137032.	5.2	18
23	Real-Time Measurement of Stimulated Dopamine Release in Compartments of the Adult <i>Drosophila melanogaster</i> Mushroom Body. <i>Analytical Chemistry</i> , 2020, 92, 14398-14407.	6.5	12
24	Improving serotonin fast-scan cyclic voltammetry detection: new waveforms to reduce electrode fouling. <i>Analyst, The</i> , 2020, 145, 7437-7446.	3.5	41
25	3D-Printed Carbon Nanoelectrodes for In Vivo Neurotransmitter Sensing. <i>Nano Letters</i> , 2020, 20, 6831-6836.	9.1	45
26	Structural Similarity Image Analysis for Detection of Adenosine and Dopamine in Fast-Scan Cyclic Voltammetry Color Plots. <i>Analytical Chemistry</i> , 2020, 92, 10485-10494.	6.5	20
27	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> , 2020, 11, 919-928.	3.5	13
28	Complex sex and estrous cycle differences in spontaneous transient adenosine. <i>Journal of Neurochemistry</i> , 2020, 153, 216-229.	3.9	21
29	Optimization of graphene oxide-modified carbon-fiber microelectrode for dopamine detection. <i>Analytical Methods</i> , 2020, 12, 2893-2902.	2.7	14
30	Voltammetry. , 2020, , 27-50.		18
31	Nanodiamond Coating Improves the Sensitivity and Antifouling Properties of Carbon Fiber Microelectrodes. <i>ACS Sensors</i> , 2019, 4, 2403-2411.	7.8	62
32	Carbon nanospikes have better electrochemical properties than carbon nanotubes due to greater surface roughness and defect sites. <i>Carbon</i> , 2019, 155, 250-257.	10.3	44
33	Review: new insights into optimizing chemical and 3D surface structures of carbon electrodes for neurotransmitter detection. <i>Analytical Methods</i> , 2019, 11, 247-261.	2.7	68
34	Development of a novel micro biosensor for in vivo monitoring of glutamate release in the brain. <i>Biosensors and Bioelectronics</i> , 2019, 130, 103-109.	10.1	78
35	Mechanism of Histamine Oxidation and Electropolymerization at Carbon Electrodes. <i>Analytical Chemistry</i> , 2019, 91, 8366-8373.	6.5	48
36	Introduction to electrochemistry for health applications. <i>Analytical Methods</i> , 2019, 11, 2736-2737.	2.7	5

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37	Cavity Carbon-Nanopipette Electrodes for Dopamine Detection. <i>Analytical Chemistry</i> , 2019, 91, 4618-4624.	6.5	72
38	Comparison of spontaneous and mechanically-stimulated adenosine release in mice. <i>Neurochemistry International</i> , 2019, 124, 46-50.	3.8	15
39	Caffeine Modulates Spontaneous Adenosine and Oxygen Changes during Ischemia and Reperfusion. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1941-1949.	3.5	16
40	Electrochemistry at the Synapse. <i>Annual Review of Analytical Chemistry</i> , 2019, 12, 297-321.	5.4	60
41	(Invited) New Carbon Electrodes for Neurochemistry. <i>ECS Meeting Abstracts</i> , 2019, MA2019-02, 2419-2419.	0.0	0
42	Carbon Nanohorn-Modified Carbon Fiber Microelectrodes for Dopamine Detection. <i>Electroanalysis</i> , 2018, 30, 1073-1081.	2.9	49
43	Virtual Issue Highlighting Selected Women Analytical Chemists. <i>Analytical Chemistry</i> , 2018, 90, 1433-1433.	6.5	0
44	<i>Drosophila</i> as a Model System for Neurotransmitter Measurements. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1872-1883.	3.5	38
45	Nicotinic acetylcholine receptor (nAChR) mediated dopamine release in larval <i>Drosophila melanogaster</i> . <i>Neurochemistry International</i> , 2018, 114, 33-41.	3.8	24
46	Regional Variations of Spontaneous, Transient Adenosine Release in Brain Slices. <i>ACS Chemical Neuroscience</i> , 2018, 9, 505-513.	3.5	31
47	3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie</i> , 2018, 130, 14451-14455.	2.0	13
48	3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14255-14259.	13.8	94
49	Early changes in transient adenosine during cerebral ischemia and reperfusion injury. <i>PLoS ONE</i> , 2018, 13, e0196932.	2.5	43
50	Electrochemical Measurements of Acetylcholine-Stimulated Dopamine Release in Adult <i>Drosophila melanogaster</i> Brains. <i>Analytical Chemistry</i> , 2018, 90, 10318-10325.	6.5	26
51	Communication Carbon Nanotube Fiber Microelectrodes for High Temporal Measurements of Dopamine. <i>Journal of the Electrochemical Society</i> , 2018, 165, G3071-G3073.	2.9	34
52	Expanding University Student Outreach: Professional Development Workshops for Teachers Led by Graduate Students. <i>Journal of Chemical Education</i> , 2018, 95, 1954-1959.	2.3	3
53	Correlation of transient adenosine release and oxygen changes in the caudate putamen. <i>Journal of Neurochemistry</i> , 2017, 140, 13-23.	3.9	34
54	Transient Adenosine Release Is Modulated by NMDA and GABA _B Receptors. <i>ACS Chemical Neuroscience</i> , 2017, 8, 376-385.	3.5	12

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55	Evaluation of carbon nanotube fiber microelectrodes for neurotransmitter detection: Correlation of electrochemical performance and surface properties. <i>Analytica Chimica Acta</i> , 2017, 965, 1-8.	5.4	75
56	O ₂ Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. <i>Analytical Chemistry</i> , 2017, 89, 5605-5611.	6.5	56
57	PEDOT: Nafion Coated Microelectrode Biosensor for in Vivo Monitoring of Glutamate Release in Brain. <i>Procedia Technology</i> , 2017, 27, 229.	1.1	3
58	Comparison of Polyethylenimine/CNT Fiber, Chlorosulfonic Acid/CNT Fiber, and CNT Yarn Microelectrodes for Neurotransmitter Detection. <i>Procedia Technology</i> , 2017, 27, 72-73.	1.1	1
59	Analytical Techniques in Neuroscience: Recent Advances in Imaging, Separation, and Electrochemical Methods. <i>Analytical Chemistry</i> , 2017, 89, 314-341.	6.5	109
60	Automated Algorithm for Detection of Transient Adenosine Release. <i>ACS Chemical Neuroscience</i> , 2017, 8, 386-393.	3.5	25
61	(Invited) Carbon Nanotube-Based Microelectrodes for Enhanced Neurochemical Detection. <i>ECS Transactions</i> , 2017, 80, 1497-1509.	0.5	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. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
64	(Invited) Tunable CNT Fiber and Yarn Microelectrodes for Measurements of Different Neurochemicals. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
65	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine in Vivo. <i>ACS Sensors</i> , 2016, 1, 508-515.	7.8	74
66	Novel carbon-fiber microelectrode batch fabrication using a 3D-printed mold and polyimide resin. <i>Analyst</i> , The, 2016, 141, 5256-5260.	3.5	11
67	Fast-Scan Cyclic Voltammetry (FSCV) Detection of Endogenous Octopamine in <i>Drosophila melanogaster</i> Ventral Nerve Cord. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1112-1119.	3.5	41
68	Quantification of Histamine and Carcinine in <i>Drosophila melanogaster</i> Tissues. <i>ACS Chemical Neuroscience</i> , 2016, 7, 407-414.	3.5	26
69	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. <i>Analytical Chemistry</i> , 2016, 88, 645-652.	6.5	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. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00189.	2.4	31
72	Characterization of dopamine releasable and reserve pools in <i>Drosophila</i> larvae using $\text{ATP}/\text{P2X}_2$ -mediated stimulation. <i>Journal of Neurochemistry</i> , 2015, 134, 445-454.	3.9	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. <i>Journal of Neurochemistry</i> , 2015, 135, 695-704.	3.9	21
74	Fast-scan Cyclic Voltammetry for the Characterization of Rapid Adenosine Release. <i>Computational and Structural Biotechnology Journal</i> , 2015, 13, 47-54.	4.1	74
75	Recent trends in carbon nanomaterial-based electrochemical sensors for biomolecules: A review. <i>Analytica Chimica Acta</i> , 2015, 887, 17-37.	5.4	441
76	Carbon Nanopipette Electrodes for Dopamine Detection in <i>Drosophila</i> . <i>Analytical Chemistry</i> , 2015, 87, 3849-3855.	6.5	92
77	Adenosine transiently modulates stimulated dopamine release in the caudate-putamen via A1 receptors. <i>Journal of Neurochemistry</i> , 2015, 132, 51-60.	3.9	49
78	Carbon nanospikes grown on metal wires as microelectrode sensors for dopamine. <i>Analyst</i> , 2015, 140, 7283-7292.	3.5	56
79	Analysis of Neurotransmitter Tissue Content of <i>Drosophila melanogaster</i> in Different Life Stages. <i>ACS Chemical Neuroscience</i> , 2015, 6, 117-123.	3.5	35
80	Mechanical stimulation evokes rapid increases in extracellular adenosine concentration in the prefrontal cortex. <i>Journal of Neurochemistry</i> , 2014, 130, 50-60.	3.9	43
81	Sawhorse Waveform Voltammetry for Selective Detection of Adenosine, ATP, and Hydrogen Peroxide. <i>Analytical Chemistry</i> , 2014, 86, 7486-7493.	6.5	67
82	Polyethylenimine Carbon Nanotube Fiber Electrodes for Enhanced Detection of Neurotransmitters. <i>Analytical Chemistry</i> , 2014, 86, 8568-8575.	6.5	77
83	High Temporal Resolution Measurements of Dopamine with Carbon Nanotube Yarn Microelectrodes. <i>Analytical Chemistry</i> , 2014, 86, 5721-5727.	6.5	91
84	Optogenetic Control of Serotonin and Dopamine Release in <i>Drosophila</i> Larvae. <i>ACS Chemical Neuroscience</i> , 2014, 5, 666-673.	3.5	40
85	Characterization of Spontaneous, Transient Adenosine Release in the Caudate-Putamen and Prefrontal Cortex. <i>PLoS ONE</i> , 2014, 9, e87165.	2.5	64
86	The mechanism of electrically stimulated adenosine release varies by brain region. <i>Purinergic Signalling</i> , 2013, 9, 167-174.	2.2	37
87	Epoxy insulated carbon fiber and carbon nanotube fiber microelectrodes. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 652-658.	7.8	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. <i>Analytical Methods</i> , 2013, 5, 2704.	2.7	54
89	Kinetics of the Dopamine Transporter in <i>Drosophila</i> Larva. <i>ACS Chemical Neuroscience</i> , 2013, 4, 832-837.	3.5	24
90	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> , 2012, 32, 14664-14669.	3.6	51

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91	Rapid, Sensitive Detection of Neurotransmitters at Microelectrodes Modified with Self-assembled SWCNT Forests. <i>Analytical Chemistry</i> , 2012, 84, 7816-7822.	6.5	93
92	Nafion [®] -CNT coated carbon-fiber microelectrodes for enhanced detection of adenosine. <i>Analyst, The</i> , 2012, 137, 3045.	3.5	72
93	Comparison of Nafion- and overoxidized polypyrrole-carbon nanotube electrodes for neurotransmitter detection. <i>Analytical Methods</i> , 2011, 3, 2379.	2.7	37
94	Functional groups modulate the sensitivity and electron transfer kinetics of neurochemicals at carbon nanotube modified microelectrodes. <i>Analyst, The</i> , 2011, 136, 3557.	3.5	99
95	<i>Drosophila</i> Dopamine-like Receptors Function as Autoreceptors. <i>ACS Chemical Neuroscience</i> , 2011, 2, 723-729.	3.5	33
96	Analysis of Biogenic Amines in a Single <i>Drosophila</i> Larva Brain by Capillary Electrophoresis with Fast-Scan Cyclic Voltammetry Detection. <i>Analytical Chemistry</i> , 2011, 83, 2258-2264.	6.5	47
97	Review: Carbon nanotube based electrochemical sensors for biomolecules. <i>Analytica Chimica Acta</i> , 2010, 662, 105-127.	5.4	890
98	Microelectrode Sensing of Adenosine/Adenosine ^{5'} -triphosphate with Fast-Scan Cyclic Voltammetry. <i>Electroanalysis</i> , 2010, 22, 1167-1174.	2.9	21
99	Both synthesis and reuptake are critical for replenishing the releasable serotonin pool in <i>Drosophila</i> . <i>Journal of Neurochemistry</i> , 2010, 113, 188-199.	3.9	37
100	Synapsins Differentially Control Dopamine and Serotonin Release. <i>Journal of Neuroscience</i> , 2010, 30, 9762-9770.	3.6	100
101	Rapid determination of adenosine deaminase kinetics using fast-scan cyclic voltammetry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10027.	2.8	15
102	Adenosine Release Evoked by Short Electrical Stimulations in Striatal Brain Slices Is Primarily Activity Dependent. <i>ACS Chemical Neuroscience</i> , 2010, 1, 775-787.	3.5	48
103	A1 receptors self-regulate adenosine release in the striatum: evidence of autoreceptor characteristics. <i>Neuroscience</i> , 2010, 171, 1006-1015.	2.3	30
104	Addition reaction and characterization of chlorotris(triphenylphosphine)iridium(I) on silicon(111) surfaces. <i>Applied Surface Science</i> , 2009, 255, 8533-8538.	6.1	4
105	Fast-scan cyclic voltammetry for the detection of tyramine and octopamine. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 329-336.	3.7	54
106	Quantitative evaluation of serotonin release and clearance in <i>Drosophila</i> . <i>Journal of Neuroscience Methods</i> , 2009, 179, 300-308.	2.5	74
107	Carbon-fiber microelectrodes for in vivo applications. <i>Analyst, The</i> , 2009, 134, 18-24.	3.5	190
108	Detection of Endogenous Dopamine Changes in <i>Drosophila melanogaster</i> Using Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2009, 81, 9306-9313.	6.5	60

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109	Electrochemical Properties of Different Carbon-Fiber Microelectrodes Using Fast-Scan Cyclic Voltammetry. <i>Electroanalysis</i> , 2008, 20, 2422-2428.	2.9	57
110	Transient adenosine efflux in the rat caudate-putamen. <i>Journal of Neurochemistry</i> , 2008, 105, 1253-1263.	3.9	75
111	Flame Etching Enhances the Sensitivity of Carbon-Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2008, 80, 3708-3715.	6.5	85
112	Carbon nanotube-modified microelectrodes for simultaneous detection of dopamine and serotonin in vivo. <i>Analyst</i> , 2007, 132, 876.	3.5	274
113	Subsecond Detection of Physiological Adenosine Concentrations Using Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2007, 79, 744-750.	6.5	184
114	Pharmacologically induced, subsecond dopamine transients in the caudate-putamen of the anesthetized rat. <i>Synapse</i> , 2007, 61, 37-39.	1.2	38
115	In Vivo Measurements of Neurotransmitters by Microdialysis Sampling. <i>Analytical Chemistry</i> , 2006, 78, 1391-1399.	6.5	251
116	Dynamic amino acid increases in the basolateral amygdala during acquisition and expression of conditioned fear. <i>European Journal of Neuroscience</i> , 2006, 23, 3391-3398.	2.6	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. <i>Journal of Neurochemistry</i> , 2006, 96, 236-246.	3.9	35
118	Cocaine Increases Dopamine Release by Mobilization of a Synapsin-Dependent Reserve Pool. <i>Journal of Neuroscience</i> , 2006, 26, 3206-3209.	3.6	213
119	Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. <i>Journal of Neurochemistry</i> , 2004, 89, 526-526.	3.9	10
120	Correlation of local changes in extracellular oxygen and pH that accompany dopaminergic terminal activity in the rat caudate-putamen. <i>Journal of Neurochemistry</i> , 2003, 84, 373-381.	3.9	142
121	Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. <i>Journal of Neurochemistry</i> , 2003, 87, 1284-1295.	3.9	232
122	Psychoanalytical Electrochemistry: Dopamine and Behavior. <i>Analytical Chemistry</i> , 2003, 75, 414 A-421 A.	6.5	366
123	A role for presynaptic mechanisms in the actions of nomifensine and haloperidol. <i>Neuroscience</i> , 2003, 118, 819-829.	2.3	99
124	Detecting Subsecond Dopamine Release with Fast-Scan Cyclic Voltammetry in Vivo. <i>Clinical Chemistry</i> , 2003, 49, 1763-1773.	3.2	499
125	Response Times of Carbon Fiber Microelectrodes to Dynamic Changes in Catecholamine Concentration. <i>Analytical Chemistry</i> , 2002, 74, 539-546.	6.5	160
126	Neurochemistry and electroanalytical probes. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 696-703.	6.1	78

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127	Sub-second changes in accumbal dopamine during sexual behavior in male rats. <i>NeuroReport</i> , 2001, 12, 2549-2552.	1.2	133
128	Subsecond Adsorption and Desorption of Dopamine at Carbon-Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2000, 72, 5994-6002.	6.5	311