

B Jill Venton

List of Publications by Citations

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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 | Review: Carbon nanotube based electrochemical sensors for biomolecules. <i>Analytica Chimica Acta</i> , 2010 , 662, 105-27 | 6.6 | 786 |
| 117 | Detecting subsecond dopamine release with fast-scan cyclic voltammetry in vivo. <i>Clinical Chemistry</i> , 2003 , 49, 1763-73 | 5.5 | 422 |
| 116 | Recent trends in carbon nanomaterial-based electrochemical sensors for biomolecules: A review. <i>Analytica Chimica Acta</i> , 2015 , 887, 17-37 | 6.6 | 341 |
| 115 | Psychoanalytical Electrochemistry: Dopamine and Behavior. <i>Analytical Chemistry</i> , 2003 , 75, 414 A-421 A | 7.8 | 322 |
| 114 | Subsecond adsorption and desorption of dopamine at carbon-fiber microelectrodes. <i>Analytical Chemistry</i> , 2000 , 72, 5994-6002 | 7.8 | 263 |
| 113 | In vivo measurements of neurotransmitters by microdialysis sampling. <i>Analytical Chemistry</i> , 2006 , 78, 1391-9 | 7.8 | 229 |
| 112 | Carbon nanotube-modified microelectrodes for simultaneous detection of dopamine and serotonin in vivo. <i>Analyst, The</i> , 2007 , 132, 876-84 | 5 | 226 |
| 111 | Real-time decoding of dopamine concentration changes in the caudate-putamen during tonic and phasic firing. <i>Journal of Neurochemistry</i> , 2003 , 87, 1284-95 | 6 | 201 |
| 110 | Cocaine increases dopamine release by mobilization of a synapsin-dependent reserve pool. <i>Journal of Neuroscience</i> , 2006 , 26, 3206-9 | 6.6 | 181 |
| 109 | Subsecond detection of physiological adenosine concentrations using fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 2007 , 79, 744-50 | 7.8 | 156 |
| 108 | Carbon-fiber microelectrodes for in vivo applications. <i>Analyst, The</i> , 2009 , 134, 18-24 | 5 | 145 |
| 107 | Response times of carbon fiber microelectrodes to dynamic changes in catecholamine concentration. <i>Analytical Chemistry</i> , 2002 , 74, 539-46 | 7.8 | 137 |
| 106 | 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, 373-81 | 6 | 122 |
| 105 | Sub-second changes in accumbal dopamine during sexual behavior in male rats. <i>NeuroReport</i> , 2001 , 12, 2549-52 | 1.7 | 117 |
| 104 | Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. <i>Analytical Chemistry</i> , 2016 , 88, 645-52 | 7.8 | 90 |
| 103 | A role for presynaptic mechanisms in the actions of nomifensine and haloperidol. <i>Neuroscience</i> , 2003 , 118, 819-29 | 3.9 | 88 |
| 102 | Analytical Techniques in Neuroscience: Recent Advances in Imaging, Separation, and Electrochemical Methods. <i>Analytical Chemistry</i> , 2017 , 89, 314-341 | 7.8 | 81 |

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| 101 | Rapid, sensitive detection of neurotransmitters at microelectrodes modified with self-assembled SWCNT forests. <i>Analytical Chemistry</i> , 2012 , 84, 7816-22 | 7.8 | 81 |
| 100 | Functional groups modulate the sensitivity and electron transfer kinetics of neurochemicals at carbon nanotube modified microelectrodes. <i>Analyst, The</i> , 2011 , 136, 3557-65 | 5 | 77 |
| 99 | Flame etching enhances the sensitivity of carbon-fiber microelectrodes. <i>Analytical Chemistry</i> , 2008 , 80, 3708-15 | 7.8 | 77 |
| 98 | Carbon nanopipette electrodes for dopamine detection in Drosophila. <i>Analytical Chemistry</i> , 2015 , 87, 3849-55 | 7.8 | 76 |
| 97 | Fundamentals of fast-scan cyclic voltammetry for dopamine detection. <i>Analyst, The</i> , 2020 , 145, 1158-1168 | 7.8 | 75 |
| 96 | Synapsins differentially control dopamine and serotonin release. <i>Journal of Neuroscience</i> , 2010 , 30, 9762-70 | 7.0 | 74 |
| 95 | Transient adenosine efflux in the rat caudate-putamen. <i>Journal of Neurochemistry</i> , 2008 , 105, 1253-63 | 6 | 70 |
| 94 | Neurochemistry and electroanalytical probes. <i>Current Opinion in Chemical Biology</i> , 2002 , 6, 696-703 | 9.7 | 69 |
| 93 | High temporal resolution measurements of dopamine with carbon nanotube yarn microelectrodes. <i>Analytical Chemistry</i> , 2014 , 86, 5721-7 | 7.8 | 68 |
| 92 | 3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14255-14259 | 16.4 | 62 |
| 91 | Quantitative evaluation of serotonin release and clearance in Drosophila. <i>Journal of Neuroscience Methods</i> , 2009 , 179, 300-8 | 3 | 60 |
| 90 | Nafion-CNT coated carbon-fiber microelectrodes for enhanced detection of adenosine. <i>Analyst, The</i> , 2012 , 137, 3045-51 | 5 | 59 |
| 89 | Polyethylenimine carbon nanotube fiber electrodes for enhanced detection of neurotransmitters. <i>Analytical Chemistry</i> , 2014 , 86, 8568-75 | 7.8 | 57 |
| 88 | Sawhorse waveform voltammetry for selective detection of adenosine, ATP, and hydrogen peroxide. <i>Analytical Chemistry</i> , 2014 , 86, 7486-93 | 7.8 | 56 |
| 87 | Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine. <i>ACS Sensors</i> , 2016 , 1, 508-515 | 9.2 | 56 |
| 86 | Characterization of spontaneous, transient adenosine release in the caudate-putamen and prefrontal cortex. <i>PLoS ONE</i> , 2014 , 9, e87165 | 3.7 | 54 |
| 85 | Recent advances in fast-scan cyclic voltammetry. <i>Analyst, The</i> , 2020 , 145, 1087-1102 | 5 | 54 |
| 84 | Fast-scan Cyclic Voltammetry for the Characterization of Rapid Adenosine Release. <i>Computational and Structural Biotechnology Journal</i> , 2015 , 13, 47-54 | 6.8 | 53 |

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| 83 | 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 | 6.6 | 52 |
| 82 | Detection of endogenous dopamine changes in <i>Drosophila melanogaster</i> using fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 2009 , 81, 9306-13 | 7.8 | 50 |
| 81 | Review: New insights into optimizing chemical and 3D surface structures of carbon electrodes for neurotransmitter detection. <i>Analytical Methods</i> , 2019 , 11, 247-261 | 3.2 | 48 |
| 80 | Electrochemical Properties of Different Carbon-Fiber Microelectrodes Using Fast-Scan Cyclic Voltammetry. <i>Electroanalysis</i> , 2008 , 20, 2422-2428 | 3 | 48 |
| 79 | Carbon nanospikes grown on metal wires as microelectrode sensors for dopamine. <i>Analyst, The</i> , 2015 , 140, 7283-92 | 5 | 46 |
| 78 | 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, 2704-2711 | 3.2 | 46 |
| 77 | Fast-scan cyclic voltammetry for the detection of tyramine and octopamine. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 329-36 | 4.4 | 46 |
| 76 | 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, 2258-64 | 7.8 | 44 |
| 75 | 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, 14664-9 | 6.6 | 44 |
| 74 | 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 | 11.8 | 42 |
| 73 | O Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. <i>Analytical Chemistry</i> , 2017 , 89, 5605-5611 | 7.8 | 41 |
| 72 | Adenosine Release Evoked by Short Electrical Stimulations in Striatal Brain Slices is Primarily Activity Dependent. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 775-787 | 5.7 | 41 |
| 71 | Adenosine transiently modulates stimulated dopamine release in the caudate-putamen via A1 receptors. <i>Journal of Neurochemistry</i> , 2015 , 132, 51-60 | 6 | 39 |
| 70 | Nanodiamond Coating Improves the Sensitivity and Antifouling Properties of Carbon Fiber Microelectrodes. <i>ACS Sensors</i> , 2019 , 4, 2403-2411 | 9.2 | 39 |
| 69 | Cavity Carbon-Nanopipette Electrodes for Dopamine Detection. <i>Analytical Chemistry</i> , 2019 , 91, 4618-4624 | 7.4 | 39 |
| 68 | Pharmacologically induced, subsecond dopamine transients in the caudate-putamen of the anesthetized rat. <i>Synapse</i> , 2007 , 61, 37-9 | 2.4 | 36 |
| 67 | 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, 236-46 | 6 | 35 |
| 66 | Carbon Nanohorn-Modified Carbon Fiber Microelectrodes for Dopamine Detection. <i>Electroanalysis</i> , 2018 , 30, 1073-1081 | 3 | 33 |

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| 65 | The mechanism of electrically stimulated adenosine release varies by brain region. <i>Purinergic Signalling</i> , 2013 , 9, 167-74 | 3.8 | 33 |
| 64 | Mechanical stimulation evokes rapid increases in extracellular adenosine concentration in the prefrontal cortex. <i>Journal of Neurochemistry</i> , 2014 , 130, 50-60 | 6 | 33 |
| 63 | Dynamic amino acid increases in the basolateral amygdala during acquisition and expression of conditioned fear. <i>European Journal of Neuroscience</i> , 2006 , 23, 3391-8 | 3.5 | 33 |
| 62 | Correlation of transient adenosine release and oxygen changes in the caudate-putamen. <i>Journal of Neurochemistry</i> , 2017 , 140, 13-23 | 6 | 32 |
| 61 | Fast-Scan Cyclic Voltammetry (FSCV) Detection of Endogenous Octopamine in Drosophila melanogaster Ventral Nerve Cord. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 1112-9 | 5.7 | 32 |
| 60 | Both synthesis and reuptake are critical for replenishing the releasable serotonin pool in Drosophila. <i>Journal of Neurochemistry</i> , 2010 , 113, 188-99 | 6 | 32 |
| 59 | Comparison of Nafion- and overoxidized polypyrrole-carbon nanotube electrodes for neurotransmitter detection. <i>Analytical Methods</i> , 2011 , 3, 2379 | 3.2 | 31 |
| 58 | Analysis of neurotransmitter tissue content of Drosophila melanogaster in different life stages. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 117-23 | 5.7 | 30 |
| 57 | Communication-Carbon Nanotube Fiber Microelectrodes for High Temporal Measurements of Dopamine. <i>Journal of the Electrochemical Society</i> , 2018 , 165, G3071-G3073 | 3.9 | 30 |
| 56 | Optogenetic control of serotonin and dopamine release in Drosophila larvae. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 666-73 | 5.7 | 30 |
| 55 | Early changes in transient adenosine during cerebral ischemia and reperfusion injury. <i>PLoS ONE</i> , 2018 , 13, e0196932 | 3.7 | 30 |
| 54 | Epoxy insulated carbon fiber and carbon nanotube fiber microelectrodes. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 652-658 | 8.5 | 29 |
| 53 | Electrochemistry at the Synapse. <i>Annual Review of Analytical Chemistry</i> , 2019 , 12, 297-321 | 12.5 | 29 |
| 52 | A genetically encoded sensor for measuring serotonin dynamics. <i>Nature Neuroscience</i> , 2021 , 24, 746-752 | 25.5 | 29 |
| 51 | A1 receptors self-regulate adenosine release in the striatum: evidence of autoreceptor characteristics. <i>Neuroscience</i> , 2010 , 171, 1006-15 | 3.9 | 28 |
| 50 | Mechanism of Histamine Oxidation and Electropolymerization at Carbon Electrodes. <i>Analytical Chemistry</i> , 2019 , 91, 8366-8373 | 7.8 | 27 |
| 49 | Clearance of rapid adenosine release is regulated by nucleoside transporters and metabolism. <i>Pharmacology Research and Perspectives</i> , 2015 , 3, e00189 | 3.1 | 25 |
| 48 | Automated Algorithm for Detection of Transient Adenosine Release. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 386-393 | 5.7 | 24 |

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| 47 | Drosophila Dopamine ₂ -like receptors function as autoreceptors. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 723-729 | 5.7 | 23 |
| 46 | Carbon nanospikes have better electrochemical properties than carbon nanotubes due to greater surface roughness and defect sites. <i>Carbon</i> , 2019 , 155, 250-257 | 10.4 | 22 |
| 45 | Drosophila as a Model System for Neurotransmitter Measurements. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 1872-1883 | 5.7 | 21 |
| 44 | Kinetics of the dopamine transporter in Drosophila larva. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 832-7 | 5.7 | 20 |
| 43 | Microelectrode Sensing of Adenosine/Adenosine-5'-triphosphate with Fast-Scan Cyclic Voltammetry. <i>Electroanalysis</i> , 2010 , 22, 1167-1174 | 3 | 20 |
| 42 | Regional Variations of Spontaneous, Transient Adenosine Release in Brain Slices. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 505-513 | 5.7 | 20 |
| 41 | Quantification of Histamine and Carcinine in Drosophila melanogaster Tissues. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 407-14 | 5.7 | 19 |
| 40 | Electrochemical Measurements of Acetylcholine-Stimulated Dopamine Release in Adult Drosophila melanogaster Brains. <i>Analytical Chemistry</i> , 2018 , 90, 10318-10325 | 7.8 | 18 |
| 39 | 3D-Printed Carbon Nanoelectrodes for In Vivo Neurotransmitter Sensing. <i>Nano Letters</i> , 2020 , 20, 6831-6836 | 6.3 | 18 |
| 38 | Comparison of dopamine kinetics in the larval Drosophila ventral nerve cord and protocerebrum with improved optogenetic stimulation. <i>Journal of Neurochemistry</i> , 2015 , 135, 695-704 | 6 | 16 |
| 37 | 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 | 7.8 | 15 |
| 36 | Rapid determination of adenosine deaminase kinetics using fast-scan cyclic voltammetry. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10027-32 | 3.6 | 15 |
| 35 | Improving serotonin fast-scan cyclic voltammetry detection: new waveforms to reduce electrode fouling. <i>Analyst, The</i> , 2020 , 145, 7437-7446 | 5 | 15 |
| 34 | Nicotinic acetylcholine receptor (nAChR) mediated dopamine release in larval Drosophila melanogaster. <i>Neurochemistry International</i> , 2018 , 114, 33-41 | 4.4 | 13 |
| 33 | Complex sex and estrous cycle differences in spontaneous transient adenosine. <i>Journal of Neurochemistry</i> , 2020 , 153, 216-229 | 6 | 12 |
| 32 | Characterization of dopamine releasable and reserve pools in Drosophila larvae using ATP/P2X ₂ -mediated stimulation. <i>Journal of Neurochemistry</i> , 2015 , 134, 445-54 | 6 | 12 |
| 31 | Transient Adenosine Release Is Modulated by NMDA and GABA Receptors. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 376-385 | 5.7 | 10 |
| 30 | 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 | 6 | 10 |

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| 29 | Caffeine Modulates Spontaneous Adenosine and Oxygen Changes during Ischemia and Reperfusion. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 1941-1949 | 5.7 | 10 |
| 28 | 3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie</i> , 2018 , 130, 14451-14455 | 4.5 | 10 |
| 27 | Dietary yeast influences ethanol sedation in Drosophila via serotonergic neuron function. <i>Addiction Biology</i> , 2020 , 25, e12779 | 4.6 | 8 |
| 26 | 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 | 5.7 | 7 |
| 25 | Novel carbon-fiber microelectrode batch fabrication using a 3D-printed mold and polyimide resin. <i>Analyst, The</i> , 2016 , 141, 5256-5260 | 5 | 7 |
| 24 | Comparison of spontaneous and mechanically-stimulated adenosine release in mice. <i>Neurochemistry International</i> , 2019 , 124, 46-50 | 4.4 | 7 |
| 23 | Carbon Nanotube-Based Microelectrodes for Enhanced Neurochemical Detection. <i>ECS Transactions</i> , 2017 , 80, 1497-1509 | 1 | 6 |
| 22 | Thin layer cell behavior of CNT yarn and cavity carbon nanopipette electrodes: Effect on catecholamine detection. <i>Electrochimica Acta</i> , 2020 , 361, 137032-137032 | 6.7 | 6 |
| 21 | Influence of Geometry on Thin Layer and Diffusion Processes at Carbon Electrodes. <i>Langmuir</i> , 2021 , 37, 2667-2676 | 4 | 6 |
| 20 | Optimization of graphene oxide-modified carbon-fiber microelectrode for dopamine detection. <i>Analytical Methods</i> , 2020 , 12, 2893-2902 | 3.2 | 5 |
| 19 | Dopaminergic learning and arousal circuits mediate opposing effects on alcohol consumption in Drosophila | | 5 |
| 18 | Addition reaction and characterization of chlorotris(triphenylphosphine)iridium(I) on silicon(1 1 1) surfaces. <i>Applied Surface Science</i> , 2009 , 255, 8533-8538 | 6.7 | 4 |
| 17 | Voltammetry 2020 , 27-50 | | 4 |
| 16 | PEDOT: Nafion Coated Microelectrode Biosensor for in Vivo Monitoring of Glutamate Release in Brain. <i>Procedia Technology</i> , 2017 , 27, 229 | | 3 |
| 15 | A and A Receptors Modulate Spontaneous Adenosine but Not Mechanically Stimulated Adenosine in the Caudate. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 3377-3385 | 5.7 | 3 |
| 14 | Ring Finger Protein 11 (RNF11) Modulates Dopamine Release in Drosophila. <i>Neuroscience</i> , 2021 , 452, 37-48 | 3.9 | 3 |
| 13 | NGenE 2021: Electrochemistry Is Everywhere. <i>ACS Energy Letters</i> , 2022 , 7, 368-374 | 20.1 | 3 |
| 12 | Expanding University Student Outreach: Professional Development Workshops for Teachers Led by Graduate Students. <i>Journal of Chemical Education</i> , 2018 , 95, 1954-1959 | 2.4 | 2 |

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| 11 | High Performance, Low Cost Carbon Nanotube Yarn based 3D Printed Electrodes Compatible with a Conventional Screen Printed Electrode System 2017 , 2017, 100-105 | | 2 |
| 10 | Real-Time Measurement of Stimulated Dopamine Release in Compartments of the Adult Mushroom Body. <i>Analytical Chemistry</i> , 2020 , 92, 14398-14407 | 7.8 | 2 |
| 9 | Electrochemical treatment in KOH renews and activates carbon fiber microelectrode surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 6737-6746 | 4.4 | 2 |
| 8 | Spontaneous Adenosine and Dopamine Cotransmission in the Caudate-Putamen Is Regulated by Adenosine Receptors. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 4371-4379 | 5.7 | 1 |
| 7 | Measurement of natural variation of neurotransmitter tissue content in red harvester ant brains among different colonies. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 6167-6175 | 4.4 | 1 |
| 6 | Carbon Nanomaterials for Neuroanalytical Chemistry 2017 , 55-83 | | 0 |
| 5 | Spontaneous, transient adenosine release is not enhanced in the CA1 region of hippocampus during severe ischemia models. <i>Journal of Neurochemistry</i> , 2021 , 159, 887-900 | 6 | 0 |
| 4 | Pannexin1 channels regulate mechanically stimulated but not spontaneous adenosine release.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1 | 4.4 | 0 |
| 3 | Virtual Issue Highlighting Selected Women Analytical Chemists. <i>Analytical Chemistry</i> , 2018 , 90, 1433 | 7.8 | |
| 2 | ELECTROCHEMICAL DETECTION OF ADENOSINE IN VIVO 2015 , 79-111 | | |
| 1 | Neurotransmission: Measuring Chemical Events1 | | |