

R Mark Wightman

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.

186
papers

21,537
citations

82
h-index

144
g-index

190
ext. papers

23,358
ext. citations

7.8
avg, IF

6.81
L-index

#	Paper	IF	Citations
186	Simultaneous fMRI and fast-scan cyclic voltammetry bridges evoked oxygen and neurotransmitter dynamics across spatiotemporal scales. <i>NeuroImage</i> , 2021 , 244, 118634	7.9	1
185	Dopamine's Effects on Corticostriatal Synapses during Reward-Based Behaviors. <i>Neuron</i> , 2018 , 97, 494-510	10.9	60
184	How intravesicular composition affects exocytosis. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 135-141	4.6	9
183	Measurement of Basal Neurotransmitter Levels Using Convolution-Based Nonfaradaic Current Removal. <i>Analytical Chemistry</i> , 2018 , 90, 7181-7189	7.8	17
182	Hitchhiker's Guide to Voltammetry: Acute and Chronic Electrodes for in Vivo Fast-Scan Cyclic Voltammetry. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 221-234	5.7	104
181	Effects of Glutamate Receptor Activation on Local Oxygen Changes. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 1598-1608	5.7	7
180	Removal of Differential Capacitive Interferences in Fast-Scan Cyclic Voltammetry. <i>Analytical Chemistry</i> , 2017 , 89, 6166-6174	7.8	33
179	Cyclic Voltammetric Measurements of Neurotransmitters. <i>Electrochemical Society Interface</i> , 2017 , 26, 53-57	3.6	6
178	Comparison of Spreading Depolarizations in the Motor Cortex and Nucleus Accumbens: Similar Patterns of Oxygen Responses and the Role of Dopamine. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 2512-2521	5.7	8
177	Multivariate Curve Resolution for Signal Isolation from Fast-Scan Cyclic Voltammetric Data. <i>Analytical Chemistry</i> , 2017 , 89, 10547-10555	7.8	11
176	An implantable multimodal sensor for oxygen, neurotransmitters, and electrophysiology during spreading depolarization in the deep brain. <i>Analyst, The</i> , 2017 , 142, 2912-2920	5	22
175	Contrasting Regulation of Catecholamine Neurotransmission in the Behaving Brain: Pharmacological Insights from an Electrochemical Perspective. <i>Pharmacological Reviews</i> , 2017 , 69, 12-32	22.5	12
174	Reciprocal Catecholamine Changes during Opiate Exposure and Withdrawal. <i>Neuropsychopharmacology</i> , 2017 , 42, 671-681	8.7	17
173	Dopamine Dynamics during Continuous Intracranial Self-Stimulation: Effect of Waveform on Fast-Scan Cyclic Voltammetry Data. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 1508-1518	5.7	18
172	Medullary Norepinephrine Projections Release Norepinephrine into the Contralateral Bed Nucleus of the Stria Terminalis. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 1681-1689	5.7	7
171	Cue-Evoked Dopamine Release Rapidly Modulates D2 Neurons in the Nucleus Accumbens During Motivated Behavior. <i>Journal of Neuroscience</i> , 2016 , 36, 6011-21	6.6	37
170	Cross-hemispheric dopamine projections have functional significance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6985-90	11.5	48

169	Failure of Standard Training Sets in the Analysis of Fast-Scan Cyclic Voltammetry Data. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 349-59	5.7	26
168	Evaluation of Drug Concentrations Delivered by Microiontophoresis. <i>Analytical Chemistry</i> , 2016 , 88, 6492-8	7.8	4
167	Design and characterization of a microfabricated hydrogen clearance blood flow sensor. <i>Journal of Neuroscience Methods</i> , 2016 , 267, 132-40	3	
166	One month of cocaine abstinence potentiates rapid dopamine signaling in the nucleus accumbens core. <i>Neuropharmacology</i> , 2016 , 111, 223-230	5.5	12
165	Electrochemical Analysis of Neurotransmitters. <i>Annual Review of Analytical Chemistry</i> , 2015 , 8, 239-61	12.5	188
164	Norepinephrine and dopamine transmission in 2 limbic regions differentially respond to acute noxious stimulation. <i>Pain</i> , 2015 , 156, 318-327	8	30
163	Microfabricated Collector-Generator Electrode Sensor for Measuring Absolute pH and Oxygen Concentrations. <i>Analytical Chemistry</i> , 2015 , 87, 10556-64	7.8	22
162	Construction of Training Sets for Valid Calibration of in Vivo Cyclic Voltammetric Data by Principal Component Analysis. <i>Analytical Chemistry</i> , 2015 , 87, 11484-91	7.8	38
161	Differential Dopamine Release Dynamics in the Nucleus Accumbens Core and Shell Reveal Complementary Signals for Error Prediction and Incentive Motivation. <i>Journal of Neuroscience</i> , 2015 , 35, 11572-82	6.6	106
160	Phasic dopamine signals: from subjective reward value to formal economic utility. <i>Current Opinion in Behavioral Sciences</i> , 2015 , 5, 147-154	4	56
159	Stress and Drug Dependence Differentially Modulate Norepinephrine Signaling in Animals with Varied HPA Axis Function. <i>Neuropsychopharmacology</i> , 2015 , 40, 1752-61	8.7	17
158	Monitoring molecules: insights and progress. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 5-7	5.7	4
157	Characterization of solute distribution following iontophoresis from a micropipet. <i>Analytical Chemistry</i> , 2014 , 86, 9909-16	7.8	14
156	Dynamics of rapid dopamine release in the nucleus accumbens during goal-directed behaviors for cocaine versus natural rewards. <i>Neuropharmacology</i> , 2014 , 86, 319-28	5.5	70
155	Facilitation of serotonin signaling by SSRIs is attenuated by social isolation. <i>Neuropsychopharmacology</i> , 2014 , 39, 2928-37	8.7	16
154	Medullary norepinephrine neurons modulate local oxygen concentrations in the bed nucleus of the stria terminalis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1128-37	7.3	16
153	Opposing catecholamine changes in the bed nucleus of the stria terminalis during intracranial self-stimulation and its extinction. <i>Biological Psychiatry</i> , 2013 , 74, 69-76	7.9	28
152	Controlled iontophoresis coupled with fast-scan cyclic voltammetry/electrophysiology in awake, freely moving animals. <i>ACS Chemical Neuroscience</i> , 2013 , 4, 761-71	5.7	35

151	Flexible software platform for fast-scan cyclic voltammetry data acquisition and analysis. <i>Analytical Chemistry</i> , 2013 , 85, 10344-53	7.8	59
150	Noradrenergic synaptic function in the bed nucleus of the stria terminalis varies in animal models of anxiety and addiction. <i>Neuropsychopharmacology</i> , 2013 , 38, 1665-73	8.7	36
149	Monitoring serotonin signaling on a subsecond time scale. <i>Frontiers in Integrative Neuroscience</i> , 2013 , 7, 44	3.2	38
148	Differential dopamine release dynamics in the nucleus accumbens core and shell track distinct aspects of goal-directed behavior for sucrose. <i>Neuropharmacology</i> , 2012 , 62, 2050-6	5.5	48
147	Phasic nucleus accumbens dopamine encodes risk-based decision-making behavior. <i>Biological Psychiatry</i> , 2012 , 71, 199-205	7.9	102
146	Catecholamines in the bed nucleus of the stria terminalis reciprocally respond to reward and aversion. <i>Biological Psychiatry</i> , 2012 , 71, 327-34	7.9	68
145	Monitoring extracellular pH, oxygen, and dopamine during reward delivery in the striatum of primates. <i>Frontiers in Behavioral Neuroscience</i> , 2012 , 6, 36	3.5	38
144	Sources contributing to the average extracellular concentration of dopamine in the nucleus accumbens. <i>Journal of Neurochemistry</i> , 2012 , 121, 252-62	6	108
143	In vivo voltammetry monitoring of electrically evoked extracellular norepinephrine in subregions of the bed nucleus of the stria terminalis. <i>Journal of Neurophysiology</i> , 2012 , 107, 1731-7	3.2	39
142	Pathway-specific dopaminergic deficits in a mouse model of Angelman syndrome. <i>Journal of Clinical Investigation</i> , 2012 , 122, 4544-54	15.9	38
141	Cocaine cues drive opposing context-dependent shifts in reward processing and emotional state. <i>Biological Psychiatry</i> , 2011 , 69, 1067-74	7.9	94
140	Higher sensitivity dopamine measurements with faster-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 2011 , 83, 3563-71	7.8	126
139	In vivo comparison of norepinephrine and dopamine release in rat brain by simultaneous measurements with fast-scan cyclic voltammetry. <i>Journal of Neurochemistry</i> , 2011 , 119, 932-44	6	95
138	Chronically Implanted, Nafion-Coated Ag/AgCl Reference Electrodes for Neurochemical Applications. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 658-666	5.7	48
137	Assessing principal component regression prediction of neurochemicals detected with fast-scan cyclic voltammetry. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 514-525	5.7	60
136	Rapid dopamine signaling differentially modulates distinct microcircuits within the nucleus accumbens during sucrose-directed behavior. <i>Journal of Neuroscience</i> , 2011 , 31, 13860-9	6.6	50
135	Instrumentation for fast-scan cyclic voltammetry combined with electrophysiology for behavioral experiments in freely moving animals. <i>Review of Scientific Instruments</i> , 2011 , 82, 074302	1.7	45
134	Sensitization of rapid dopamine signaling in the nucleus accumbens core and shell after repeated cocaine in rats. <i>Journal of Neurophysiology</i> , 2010 , 104, 922-31	3.2	41

133	Microfabricated FSCV-compatible microelectrode array for real-time monitoring of heterogeneous dopamine release. <i>Analyst, The</i> , 2010 , 135, 1556-63	5	68
132	Synapsins differentially control dopamine and serotonin release. <i>Journal of Neuroscience</i> , 2010 , 30, 9762-70	7.0	74
131	Real-time monitoring of chemical transmission in slices of the murine adrenal gland. <i>Endocrinology</i> , 2010 , 151, 1773-83	4.8	26
130	Rank estimation and the multivariate analysis of in vivo fast-scan cyclic voltammetric data. <i>Analytical Chemistry</i> , 2010 , 82, 5541-51	7.8	35
129	Characterization of local pH changes in brain using fast-scan cyclic voltammetry with carbon microelectrodes. <i>Analytical Chemistry</i> , 2010 , 82, 9892-900	7.8	96
128	Basolateral amygdala modulates terminal dopamine release in the nucleus accumbens and conditioned responding. <i>Biological Psychiatry</i> , 2010 , 67, 737-44	7.9	83
127	Phasic nucleus accumbens dopamine release encodes effort- and delay-related costs. <i>Biological Psychiatry</i> , 2010 , 68, 306-9	7.9	121
126	Neuropeptide Release is Impaired in a Mouse Model of Fragile X Mental Retardation Syndrome. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 306-314	5.7	19
125	Carbon microelectrodes with a renewable surface. <i>Analytical Chemistry</i> , 2010 , 82, 2020-8	7.8	166
124	Probing presynaptic regulation of extracellular dopamine with iontophoresis. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 627-638	5.7	24
123	Simultaneous monitoring of dopamine concentration at spatially different brain locations in vivo. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1179-85	11.8	66
122	Synaptic overflow of dopamine in the nucleus accumbens arises from neuronal activity in the ventral tegmental area. <i>Journal of Neuroscience</i> , 2009 , 29, 1735-42	6.6	184
121	In vivo measurement of somatodendritic release of dopamine in the ventral tegmental area. <i>Synapse</i> , 2009 , 63, 951-60	2.4	24
120	Neural encoding of cocaine-seeking behavior is coincident with phasic dopamine release in the accumbens core and shell. <i>European Journal of Neuroscience</i> , 2009 , 30, 1117-27	3.5	102
119	In vivo voltammetric monitoring of norepinephrine release in the rat ventral bed nucleus of the stria terminalis and anteroventral thalamic nucleus. <i>European Journal of Neuroscience</i> , 2009 , 30, 2121-33	3.5	80
118	Regional specificity in the real-time development of phasic dopamine transmission patterns during acquisition of a cue-cocaine association in rats. <i>European Journal of Neuroscience</i> , 2009 , 30, 1889-99	3.5	95
117	Disparity between tonic and phasic ethanol-induced dopamine increases in the nucleus accumbens of rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2009 , 33, 1187-96	3.7	77
116	Multivariate concentration determination using principal component regression with residual analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 1127-1136	14.6	124

115	Simultaneous decoupled detection of dopamine and oxygen using pyrolyzed carbon microarrays and fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 2009 , 81, 6258-65	7.8	76
114	Real-time chemical responses in the nucleus accumbens differentiate rewarding and aversive stimuli. <i>Nature Neuroscience</i> , 2008 , 11, 1376-7	25.5	460
113	Monitoring rapid chemical communication in the brain. <i>Chemical Reviews</i> , 2008 , 108, 2554-84	68.1	488
112	Electroosmotic flow and its contribution to iontophoretic delivery. <i>Analytical Chemistry</i> , 2008 , 80, 8635-41	4.8	32
111	Fluorinated xerogel-derived microelectrodes for amperometric nitric oxide sensing. <i>Analytical Chemistry</i> , 2008 , 80, 6850-9	7.8	80
110	Dopamine detection with fast-scan cyclic voltammetry used with analog background subtraction. <i>Analytical Chemistry</i> , 2008 , 80, 4040-8	7.8	109
109	Increased amphetamine-induced hyperactivity and reward in mice overexpressing the dopamine transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4405-10	11.5	139
108	Preferential enhancement of dopamine transmission within the nucleus accumbens shell by cocaine is attributable to a direct increase in phasic dopamine release events. <i>Journal of Neuroscience</i> , 2008 , 28, 8821-31	6.6	380
107	Dynamic changes in accumbens dopamine correlate with learning during intracranial self-stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11957-62	11.5	100
106	Microelectrodes for studying neurobiology. <i>Current Opinion in Chemical Biology</i> , 2008 , 12, 491-6	9.7	33
105	Electrochemical Dopamine Detection: Comparing Gold and Carbon Fiber Microelectrodes using Background Subtracted Fast Scan Cyclic Voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 614, 113-120	4.1	98
104	Facilitation of quantal release induced by a D1-like receptor on bovine chromaffin cells. <i>Biochemistry</i> , 2007 , 46, 3881-7	3.2	9
103	Pharmacologically induced, subsecond dopamine transients in the caudate-putamen of the anesthetized rat. <i>Synapse</i> , 2007 , 61, 37-9	2.4	36
102	Associative learning mediates dynamic shifts in dopamine signaling in the nucleus accumbens. <i>Nature Neuroscience</i> , 2007 , 10, 1020-8	25.5	472
101	Dopamine release is heterogeneous within microenvironments of the rat nucleus accumbens. <i>European Journal of Neuroscience</i> , 2007 , 26, 2046-54	3.5	147
100	Paradoxical modulation of short-term facilitation of dopamine release by dopamine autoreceptors. <i>Journal of Neurochemistry</i> , 2007 , 102, 1115-24	6	44
99	Phasic dopamine release evoked by abused substances requires cannabinoid receptor activation. <i>Journal of Neuroscience</i> , 2007 , 27, 791-5	6.6	286
98	Coordinated accumbal dopamine release and neural activity drive goal-directed behavior. <i>Neuron</i> , 2007 , 54, 237-44	13.9	165

97	Paying attention with the latest technology. <i>Neuron</i> , 2007 , 56, 4-5	13.9	1
96	Synapsin II negatively regulates catecholamine release. <i>Brain Cell Biology</i> , 2006 , 35, 125-36		19
95	Cocaine increases dopamine release by mobilization of a synapsin-dependent reserve pool. <i>Journal of Neuroscience</i> , 2006 , 26, 3206-9	6.6	181
94	Conical tungsten tips as substrates for the preparation of ultramicroelectrodes. <i>Langmuir</i> , 2006 , 22, 10348-53		27
93	Detection technologies. Probing cellular chemistry in biological systems with microelectrodes. <i>Science</i> , 2006 , 311, 1570-4	33.3	345
92	Vesicular Ca(2+) -induced secretion promoted by intracellular pH-gradient disruption. <i>Biophysical Chemistry</i> , 2006 , 123, 20-4	3.5	29
91	Extinction of cocaine self-administration reveals functionally and temporally distinct dopaminergic signals in the nucleus accumbens. <i>Neuron</i> , 2005 , 46, 661-9	13.9	371
90	Acute ethanol decreases dopamine transporter velocity in rat striatum: in vivo and in vitro electrochemical measurements. <i>Alcoholism: Clinical and Experimental Research</i> , 2005 , 29, 746-55	3.7	37
89	Rapid dopamine signaling in the nucleus accumbens during contingent and noncontingent cocaine administration. <i>Neuropsychopharmacology</i> , 2005 , 30, 853-63	8.7	183
88	Real-time measurement of dopamine fluctuations after cocaine in the brain of behaving rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10023-8	11.5	363
87	Simultaneous dopamine and single-unit recordings reveal accumbens GABAergic responses: implications for intracranial self-stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 19150-5	11.5	112
86	Dynamic gain control of dopamine delivery in freely moving animals. <i>Journal of Neuroscience</i> , 2004 , 24, 1754-9	6.6	134
85	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
84	Nomifensine amplifies subsecond dopamine signals in the ventral striatum of freely-moving rats. <i>Journal of Neurochemistry</i> , 2004 , 90, 894-903	6	54
83	Functional microcircuitry in the accumbens underlying drug addiction: insights from real-time signaling during behavior. <i>Current Opinion in Neurobiology</i> , 2004 , 14, 763-8	7.6	81
82	Cannabinoids enhance subsecond dopamine release in the nucleus accumbens of awake rats. <i>Journal of Neuroscience</i> , 2004 , 24, 4393-400	6.6	266
81	Resolving neurotransmitters detected by fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 2004 , 76, 5697-704	7.8	282
80	Dopamine operates as a subsecond modulator of food seeking. <i>Journal of Neuroscience</i> , 2004 , 24, 1265-716		559

79	Presynaptic dopaminergic function is largely unaltered in mesolimbic and mesostriatal terminals of adult rats that were prenatally exposed to cocaine. <i>Brain Research</i> , 2003 , 961, 63-72	3.7	32
78	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
77	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
76	Subsecond dopamine release promotes cocaine seeking. <i>Nature</i> , 2003 , 422, 614-8	50.4	904
75	Detecting subsecond dopamine release with fast-scan cyclic voltammetry in vivo. <i>Clinical Chemistry</i> , 2003 , 49, 1763-73	5.5	422
74	Overoxidation of carbon-fiber microelectrodes enhances dopamine adsorption and increases sensitivity. <i>Analyst, The</i> , 2003 , 128, 1413-9	5	284
73	Real-time measurements of phasic changes in extracellular dopamine concentration in freely moving rats by fast-scan cyclic voltammetry. <i>Methods in Molecular Medicine</i> , 2003 , 79, 443-64		71
72	Temporal separation of vesicle release from vesicle fusion during exocytosis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 29101-7	5.4	43
71	Frequency of dopamine concentration transients increases in dorsal and ventral striatum of male rats during introduction of conspecifics. <i>Journal of Neuroscience</i> , 2002 , 22, 10477-86	6.6	222
70	Neurochemistry and electroanalytical probes. <i>Current Opinion in Chemical Biology</i> , 2002 , 6, 696-703	9.7	69
69	Transient changes in mesolimbic dopamine and their association with reward. <i>Journal of Neurochemistry</i> , 2002 , 82, 721-35	6	209
68	Release and uptake of catecholamines in the bed nucleus of the stria terminalis measured in the mouse brain slice. <i>Synapse</i> , 2002 , 44, 188-97	2.4	33
67	Separating vesicle fusion and exocytosis in hypertonic conditions. <i>Annals of the New York Academy of Sciences</i> , 2002 , 971, 251-3	6.5	3
66	The association of vesicular contents and its effects on release. <i>Annals of the New York Academy of Sciences</i> , 2002 , 971, 620-6	6.5	23
65	Response times of carbon fiber microelectrodes to dynamic changes in catecholamine concentration. <i>Analytical Chemistry</i> , 2002 , 74, 539-46	7.8	137
64	Catecholamine release and uptake in the mouse prefrontal cortex. <i>Journal of Neurochemistry</i> , 2001 , 79, 130-42	6	95
63	Terminal effects of ethanol on dopamine dynamics in rat nucleus accumbens: an in vitro voltammetric study. <i>Synapse</i> , 2001 , 42, 77-9	2.4	53
62	Dopamine Adsorption at Surface Modified Carbon-Fiber Electrodes. <i>Langmuir</i> , 2001 , 17, 7032-7039	4	85

61	Sub-second changes in accumbal dopamine during sexual behavior in male rats. <i>NeuroReport</i> , 2001 , 12, 2549-52	1.7	117
60	Adrenaline Release by Chromaffin Cells: Constrained Swelling of the Vesicle Matrix Leads to Full Fusion At the ENS, this work has been supported in part by the CNRS (UMR 8640, Ultimatech and the program "Physique et Chimie du Vivant"), by the ENS, and by the French Ministry of Research and Education (MENESR). At the UNC, this work was supported by the NIH. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 111-115	16.4	37
59	Real-time amperometric measurements of zeptomole quantities of dopamine released from neurons. <i>Analytical Chemistry</i> , 2000 , 72, 489-96	7.8	113
58	Subsecond adsorption and desorption of dopamine at carbon-fiber microelectrodes. <i>Analytical Chemistry</i> , 2000 , 72, 5994-6002	7.8	263
57	Amine weak bases disrupt vesicular storage and promote exocytosis in chromaffin cells. <i>Journal of Neurochemistry</i> , 1999 , 73, 2397-405	6	67
56	Dopamine neuronal transport kinetics and effects of amphetamine. <i>Journal of Neurochemistry</i> , 1999 , 73, 2406-14	6	108
55	Loss of autoreceptor functions in mice lacking the dopamine transporter. <i>Nature Neuroscience</i> , 1999 , 2, 649-55	25.5	211
54	Dissociation of dopamine release in the nucleus accumbens from intracranial self-stimulation. <i>Nature</i> , 1999 , 398, 67-9	50.4	301
53	Improving data acquisition for fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 1999 , 71, 3941-7	7.8	70
52	Effect of pH and surface functionalities on the cyclic voltammetric responses of carbon-fiber microelectrodes. <i>Analytical Chemistry</i> , 1999 , 71, 2782-9	7.8	93
51	Release and uptake rates of 5-hydroxytryptamine in the dorsal raphe and substantia nigra reticulata of the rat brain. <i>Journal of Neurochemistry</i> , 1998 , 70, 1077-87	6	76
50	Simultaneous detection of catecholamine exocytosis and Ca ²⁺ release from single bovine chromaffin cells using a dual microsensor. <i>Analytical Chemistry</i> , 1998 , 70, 1677-81	7.8	50
49	Quantal corelease of histamine and 5-hydroxytryptamine from mast cells and the effects of prior incubation. <i>Biochemistry</i> , 1998 , 37, 1046-52	3.2	25
48	Color images for fast-scan CV measurements in biological systems. <i>Analytical Chemistry</i> , 1998 , 70, 586A-592A	7.8	93
47	Imaging Microelectrodes with High-Frequency Electrogenerated Chemiluminescence. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9991-9996	3.4	40
46	Spatio-temporal resolution of exocytosis from individual cells. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1998 , 27, 77-103		139
45	Quantitative evaluation of 5-hydroxytryptamine (serotonin) neuronal release and uptake: an investigation of extrasynaptic transmission. <i>Journal of Neuroscience</i> , 1998 , 18, 4854-60	6.6	244
44	Solid State Electrochemically Generated Luminescence Based on Serial Frozen Concentration Gradients of Ru(III/II) and Ru(II/I) Couples in a Molten Ruthenium 2,2-Bipyridine Complex. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3987-3993	16.4	98

43	Effects of external osmotic pressure on vesicular secretion from bovine adrenal medullary cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 8325-31	5.4	67
42	Real-time measurement of electrically evoked extracellular dopamine in the striatum of freely moving rats. <i>Journal of Neurochemistry</i> , 1997 , 68, 152-61	6	142
41	Vesicular quantal size measured by amperometry at chromaffin, mast, pheochromocytoma, and pancreatic beta-cells. <i>Journal of Neurochemistry</i> , 1996 , 66, 1914-23	6	105
40	Overoxidized polypyrrole-coated carbon fiber microelectrodes for dopamine measurements with fast-scan cyclic voltammetry. <i>Analytical Chemistry</i> , 1996 , 68, 2084-9	7.8	215
39	Microelectrodes for the measurement of catecholamines in biological systems. <i>Analytical Chemistry</i> , 1996 , 68, 3180-6	7.8	256
38	Functional and anatomical evidence for different dopamine dynamics in the core and shell of the nucleus accumbens in slices of rat brain. <i>Synapse</i> , 1996 , 23, 224-31	2.4	94
37	Development of dopamine neurotransmission and uptake inhibition in the caudate nucleus as measured by fast-cyclic voltammetry. <i>Synapse</i> , 1996 , 24, 305-7	2.4	10
36	Hyperlocomotion and indifference to cocaine and amphetamine in mice lacking the dopamine transporter. <i>Nature</i> , 1996 , 379, 606-12	50.4	1985
35	Comparison of dopamine uptake in the basolateral amygdaloid nucleus, caudate-putamen, and nucleus accumbens of the rat. <i>Journal of Neurochemistry</i> , 1995 , 64, 2581-9	6	146
34	Distinct pharmacological regulation of evoked dopamine efflux in the amygdala and striatum of the rat in vivo. <i>Synapse</i> , 1995 , 20, 269-79	2.4	57
33	Correlation of real-time catecholamine release and cytosolic Ca ²⁺ at single bovine chromaffin cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 5353-9	5.4	30
32	Fast-scan cyclic voltammetry of 5-hydroxytryptamine. <i>Analytical Chemistry</i> , 1995 , 67, 1115-20	7.8	201
31	Regional Differences in Dopamine Release, Uptake, and Diffusion Measured by Fast-Scan Cyclic Voltammetry 1995 , 179-220		26
30	Extracellular ionic composition alters kinetics of vesicular release of catecholamines and quantal size during exocytosis at adrenal medullary cells. <i>Journal of Neurochemistry</i> , 1994 , 63, 1739-47	6	52
29	Interference by pH and Ca ²⁺ ions during measurements of catecholamine release in slices of rat amygdala with fast-scan cyclic voltammetry. <i>Journal of Neuroscience Methods</i> , 1994 , 52, 1-10	3	47
28	Evoked extracellular dopamine in vivo in the medial prefrontal cortex. <i>Journal of Neurochemistry</i> , 1993 , 61, 637-47	6	124
27	Real-time monitoring of electrically stimulated norepinephrine release in rat thalamus: II. Modeling of release and reuptake characteristics of stimulated norepinephrine overflow. <i>Journal of Neurochemistry</i> , 1993 , 60, 449-53	6	20
26	Electrochemiluminescence at Band Array Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 70-74	3.9	42

25	Analysis of diffusional broadening of vesicular packets of catecholamines released from biological cells during exocytosis. <i>Analytical Chemistry</i> , 1992 , 64, 3077-83	7.8	130
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18	Heterogeneity of stimulated dopamine overflow within rat striatum as observed with in vivo voltammetry. <i>Brain Research</i> , 1989 , 487, 311-20	3.7	71
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