Anne M Andrews

List of Publications by Year
in descending order

105 papers	8,388 citations	53794 45 h-index	45317 90 g-index
109 all docs	109 docs citations	109 times ranked	11822 citing authors

#	Article	IF	Citations
1	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
2	Altered Brain Serotonin Homeostasis and Locomotor Insensitivity to 3,4-Methylenedioxymethamphetamine (â€œEcstasyâ€) in Serotonin Transporter-Deficient Mice. Molecular Pharmacology, 1998, 53, 649-655.	2.3	659
3	Aptamerâ€"field-effect transistors overcome Debye length limitations for small-molecule sensing. Science, 2018, 362, 319-324.	12.6	570
4	Molecular mechanisms of cocaine reward: Combined dopamine and serotonin transporter knockouts eliminate cocaine place preference. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5300-5305.	7.1	435
5	Chemistry and the BRAIN Initiative. Journal of the American Chemical Society, 2014, 136, 1-2.	13.7	364
6	Nanotools for Neuroscience and Brain Activity Mapping. ACS Nano, 2013, 7, 1850-1866.	14.6	323
7	Gene dose-dependent alterations in extraneuronal serotonin but not dopamine in mice with reduced serotonin transporter expression. Journal of Neuroscience Methods, 2004, 140, 169-181.	2.5	256
8	Interplay between materials and microfluidics. Nature Reviews Materials, 2017, 2, .	48.7	236
9	How the serotonin story is being rewritten by new gene-based discoveries principally related to SLC6A4, the serotonin transporter gene, which functions to influence all cellular serotonin systems. Neuropharmacology, 2008, 55, 932-960.	4.1	199
10	Genetic perspectives on the serotonin transporter. Brain Research Bulletin, 2001, 56, 487-494.	3.0	193
11	Altered serotonin synthesis, turnover and dynamic regulation in multiple brain regions of mice lacking the serotonin transporter. Neuropharmacology, 2005, 49, 798-810.	4.1	168
12	Fabrication of High-Performance Ultrathin In₂O₃ Film Field-Effect Transistors and Biosensors Using Chemical Lift-Off Lithography. ACS Nano, 2015, 9, 4572-4582.	14.6	156
13	From the bottom up: dimensional control and characterization in molecular monolayers. Chemical Society Reviews, 2013, 42, 2725-2745.	38.1	153
14	Subtractive Patterning via Chemical Lift-Off Lithography. Science, 2012, 337, 1517-1521.	12.6	139
15	Biomarkers to Predict Antidepressant Response. Current Psychiatry Reports, 2010, 12, 553-562.	4.5	136
16	Exploring the relationship between serotonin and brain-derived neurotrophic factor: analysis of BDNF protein and extraneuronal 5-HT in mice with reduced serotonin transporter or BDNF expression. Journal of Neuroscience Methods, 2004, 140, 81-92.	2.5	128
17	Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. ACS Nano, 2015, 9, 12174-12181.	14.6	126
18	Î³-Aminobutyric Acid-Type A Receptor Deficits Cause Hypothalamic-Pituitary-Adrenal Axis Hyperactivity and Antidepressant Drug Sensitivity Reminiscent of Melancholic Forms of Depression. Biological Psychiatry, 2010, 68, 512-520.	1.3	124

#	Article	IF	Citations
19	Wearable aptamer-field-effect transistor sensing system for noninvasive cortisol monitoring. Science Advances, 2022, 8, eabk0967.	10.3	118
20	Locomotor hyperactivity and alterations in dopamine neurotransmission are associated with overexpression of A53T mutant human Î±-synuclein in mice. Neurobiology of Disease, 2006, 21, 431-443.	4.4	113
21	Emerging Trends in Micro- and Nanoscale Technologies in Medicine: From Basic Discoveries to Translation. ACS Nano, 2017, 11, 5195-5214.	14.6	104
22	GAP-43 Is Critical for Normal Development of the Serotonergic Innervation in Forebrain. Journal of Neuroscience, 2002, 22, 3543-3552.	3.6	93
23	Head-to-Head Comparisons of Carbon Fiber Microelectrode Coatings for Sensitive and Selective Neurotransmitter Detection by Voltammetry. Analytical Chemistry, 2011, 83, 6658-6666.	6.5	87
24	High-Affinity Nucleic-Acid-Based Receptors for Steroids. ACS Chemical Biology, 2017, 12, 3103-3112.	3.4	82
25	Analyzing Spin Selectivity in DNA-Mediated Charge Transfer <i>via</i> Fluorescence Microscopy. ACS Nano, 2017, 11, 7516-7526.	14.6	82
26	Kappa Opioid Receptors Drive a Tonic Aversive Component of Chronic Pain. Journal of Neuroscience, 2019, 39, 4162-4178.	3.6	81
27	Differential Reinforcing Effects of Cocaine and GBR-12909: Biochemical Evidence for Divergent Neuroadaptive Changes in the Mesolimbic Dopaminergic System. Journal of Neuroscience, 1996, 16, 7416-7427.	3.6	78
28	Rethinking 5-HT_{1A} Receptors: Emerging Modes of Inhibitory Feedback of Relevance to Emotion-Related Behavior. ACS Chemical Neuroscience, 2013, 4, 72-83.	3.5	76
29	The real catecholamine content of secretory vesicles in the CNS revealed by electrochemical cytometry. Scientific Reports, 2013, 3, 1447.	3.3	75
30	Overexpression of human copper/zinc superoxide dismutase in transgenic mice attenuates oxidative stress caused by methylenedioxymethamphetamine (Ecstasy). Neuroscience, 1999, 91, 1379-1387.	2.3	74
31	Scanning Electron Microscopy of Nanoscale Chemical Patterns. ACS Nano, 2007, 1, 191-201.	14.6	73
32	Implantable aptamerâ€“field-effect transistor neuroprobes for in vivo neurotransmitter monitoring. Science Advances, 2021, 7, eabj7422.	10.3	68
33	A pharmacological analysis of mice with a targeted disruption of the serotonin transporter. Psychopharmacology, 2007, 195, 147-166.	3.1	63
34	Reduced brainâ€derived neurotrophic factor is associated with a loss of serotonergic innervation in the hippocampus of aging mice. Genes, Brain and Behavior, 2007, 6, 482-490.	2.2	60
35	Cellular localization and expression of the serotonin transporter in mouse brain. Brain Research, 1997, 778, 338-345.	2.2	57
36	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. ACS Nano, 2018, 12, 4761-4774.	14.6	57

#	Article	IF	Citations
37	Phenylalanine Monitoring via Aptamer-Field-Effect Transistor Sensors. ACS Sensors, 2019, 4, 3308-3317.	7.8	57
38	Physiologically Relevant Changes in Serotonin Resolved by Fast Microdialysis. ACS Chemical Neuroscience, 2013, 4, 790-798.	3.5	56
39	Boron-Doped Diamond Microelectrodes Reveal Reduced Serotonin Uptake Rates in Lymphocytes from Adult Rhesus Monkeys Carrying the Short Allele of the <i>5-HTTLPR</i>. ACS Chemical Neuroscience, 2010, 1, 49-64.	3.5	55
40	Brain-derived neurotrophic factor-deficient mice exhibit a hippocampal hyperserotonergic phenotype. International Journal of Neuropsychopharmacology, 2008, 11, 79-92.	2.1	54
41	Capillary Ultrahigh Performance Liquid Chromatography with Elevated Temperature for Sub-One Minute Separations of Basal Serotonin in Submicroliter Brain Microdialysate Samples. Analytical Chemistry, 2010, 82, 9611-9616.	6.5	52
42	Gene structure and 5â€²-flanking regulatory region of the murine serotonin transporter. Molecular Brain Research, 1997, 44, 286-292.	2.3	50
43	Microcontact insertion printing. Applied Physics Letters, 2007, 90, 063114.	3.3	50
44	Dark Classics in Chemical Neuroscience: 3,4-Methylenedioxymethamphetamine. ACS Chemical Neuroscience, 2018, 9, 2408-2427.	3.5	50
45	Perinatal vs Genetic Programming of Serotonin States Associated with Anxiety. Neuropsychopharmacology, 2015, 40, 1456-1470.	5.4	49
46	Serotonin Uptake Is Largely Mediated by Platelets versus Lymphocytes in Peripheral Blood Cells. ACS Chemical Neuroscience, 2013, 4, 161-170.	3.5	47
47	Detecting DNA and RNA and Differentiating Single-Nucleotide Variations via Field-Effect Transistors. Nano Letters, 2020, 20, 5982-5990.	9.1	47
48	Chronoamperometry To Determine Differential Reductions in Uptake in Brain Synaptosomes from Serotonin Transporter Knockout Mice. Analytical Chemistry, 2005, 77, 818-826.	6.5	46
49	Flexible Multiplexed In2O3 Nanoribbon Aptamer-Field-Effect Transistors for Biosensing. IScience, 2020, 23, 101469.	4.1	45
50	Common and rare alleles of the serotonin transporter gene, <i>SLC6A4</i>, associated with Tourette's disorder. Movement Disorders, 2013, 28, 1263-1270.	3.9	44
51	Controlled DNA Patterning by Chemical Lift-Off Lithography: Matrix Matters. ACS Nano, 2015, 9, 11439-11454.	14.6	42
52	Double-Sided Opportunities Using Chemical Lift-Off Lithography. Accounts of Chemical Research, 2016, 49, 1449-1457.	15.6	42
53	Divalent Cation Dependence Enhances Dopamine Aptamer Biosensing. ACS Applied Materials & Interfaces, 2021, 13, 9425-9435.	8.0	42
54	Late onset loss of hippocampal 5-HT and NE is accompanied by increases in BDNF protein expression in mice co-expressing mutant APP and PS1. Neurobiology of Disease, 2004, 16, 572-580.	4.4	40

#	Article	IF	Citations
55	Polymer-Pen Chemical Lift-Off Lithography. Nano Letters, 2017, 17, 3302-3311.	9.1	39
56	Biospecific Recognition of Tethered Small Molecules Diluted in Selfâ€Assembled Monolayers. Advanced Materials, 2008, 20, 164-167.	21.0	37
57	Sex- and SERT-Mediated Differences in Stimulated Serotonin Revealed by Fast Microdialysis. ACS Chemical Neuroscience, 2015, 6, 1487-1501.	3.5	36
58	Sustained Depletion of Cortical and Hippocampal Serotonin and Norepinephrine but Not Striatal Dopamine by 1-Methyl-4-(2'-Aminophenyl)-1,2,3,6-Tetrahydropyridine (2'-NH2-MPTP): A Comparative Study with 2'-CH3-MPTP and MPTP. Journal of Neurochemistry, 1993, 60, 1167-1170.	3.9	34
59	Native Serotonin Membrane Receptors Recognize 5-Hydroxytryptophan-Functionalized Substrates: Enabling Small-Molecule Recognition. ACS Chemical Neuroscience, 2010, 1, 495-504.	3.5	34
60	Narrower Nanoribbon Biosensors Fabricated by Chemical Lift-off Lithography Show Higher Sensitivity. ACS Nano, 2021, 15, 904-915.	14.6	33
61	Differentiating Siblings: The Case of Dopamine and Norepinephrine. ACS Chemical Neuroscience, 2017, 8, 218-220.	3.5	29
62	Aptamer Recognition of Multiplexed Small-Molecule-Functionalized Substrates. ACS Applied Materials & Interfaces, 2018, 10, 23490-23500.	8.0	28
63	Large-Area, Ultrathin Metal-Oxide Semiconductor Nanoribbon Arrays Fabricated by Chemical Lift-Off Lithography. Nano Letters, 2018, 18, 5590-5595.	9.1	27
64	Nano in the Brain: Nano-Neuroscience. ACS Nano, 2012, 6, 8463-8464.	14.6	25
65	Neuronal and Astroglial Responses to the Serotonin and Norepinephrine Neurotoxin: 1-Methyl-4-(2â€²-aminophenyl)-1,2,3,6-tetrahydropyridine. Journal of Pharmacology and Experimental Therapeutics, 2003, 307, 923-931.	2.5	24
66	Patterning small-molecule biocapture surfaces: microcontact insertion printing vs. photolithography. Chemical Communications, 2011, 47, 10641.	4.1	24
67	Advancing Biocapture Substrates via Chemical Lift-Off Lithography. Chemistry of Materials, 2017, 29, 6829-6839.	6.7	24
68	Filtration disrupts synaptosomes during radiochemical analysis of serotonin uptake: Comparison with chronoamperometry in SERT knockout mice. Journal of Neuroscience Methods, 2006, 154, 245-255.	2.5	23
69	Tuning Stamp Surface Energy for Soft Lithography of Polar Molecules to Fabricate Bioactive Smallâ€Molecule Microarrays. Small, 2011, 7, 1471-1479.	10.0	23
70	Self-Collapse Lithography. Nano Letters, 2017, 17, 5035-5042.	9.1	19
71	Scalable Fabrication of Quasi-One-Dimensional Gold Nanoribbons for Plasmonic Sensing. Nano Letters, 2020, 20, 1747-1754.	9.1	19
72	Hybrid approaches to nanometer-scale patterning: Exploiting tailored intermolecular interactions. Journal of Nanoparticle Research, 2008, 10, 1231-1240.	1.9	18

#	Article	IF	Citations
73	<i>In Utero</i> Exposure to Citalopram Mitigates Maternal Stress Effects on Fetal Brain Development. ACS Chemical Neuroscience, 2019, 10, 3307-3317.	3.5	17
74	The BRAIN Initiative: Toward a Chemical Connectome. ACS Chemical Neuroscience, 2013, 4, 645-645.	3.5	16
75	Patterning of supported gold monolayers via chemical lift-off lithography. Beilstein Journal of Nanotechnology, 2017, 8, 2648-2661.	2.8	16
76	Fluoxetine and desipramine selectively attenuate 2â€²-NH2-MPTP-induced depletions in serotonin and norepinephrine. European Journal of Pharmacology, 1993, 250, 215-221.	3.5	15
77	Comparison of Oligo(ethylene glycol)alkanethiols versus <i>n</i>-Alkanethiols: Self-Assembly, Insertion, and Functionalization. Journal of Physical Chemistry C, 2011, 115, 24778-24787.	3.1	15
78	Differential serotonin transport is linked to the rh5-HTTLPR in peripheral blood cells. Translational Psychiatry, 2012, 2, e77-e77.	4.8	15
79	Thin Gold Film-Assisted Fluorescence Spectroscopy for Biomolecule Sensing. Analytical Chemistry, 2011, 83, 7451-7456.	6.5	14
80	Small-Molecule Patterning via Prefunctionalized Alkanethiols. Chemistry of Materials, 2018, 30, 4017-4030.	6.7	14
81	Chemical Lift-Off Lithography of Metal and Semiconductor Surfaces. , 2020, 2, 76-83.		14
82	The neurotoxin 2â€²-NH2-MPTP degenerates serotonin axons and evokes increases in hippocampal BDNF. Neuropharmacology, 2006, 50, 297-308.	4.1	12
83	A physical model of axonal damage due to oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5262-5266.	7.1	12
84	Small-Molecule Arrays for Sorting G-Protein-Coupled Receptors. Journal of Physical Chemistry C, 2013, 117, 22362-22368.	3.1	11
85	2â€²-NH2-MPTP [1-Methyl-4-(2â€²-aminophenyl)-1,2,3,6-tetrahydropyridine] Depletes Serotonin and Norepinephrine in Rats: A Comparison with 2â€²-CH3-MPTP [1-Methyl-4-(2â€²-methylphenyl)-1,2,3,6-tetrahydropyridine]. Journal of Pharmacology and Experimental Therapeutics, 2002, 303, 527-533.	2.5	10
86	Serotonin States and Social Anxiety. JAMA Psychiatry, 2015, 72, 845.	11.0	10
87	Simultaneous serotonin and dopamine monitoring across timescales by rapid pulse voltammetry with partial least squares regression. Analytical and Bioanalytical Chemistry, 2021, 413, 6747-6767.	3.7	9
88	Why Monitor Molecules in Neuroscience?. ACS Chemical Neuroscience, 2017, 8, 211-212.	3.5	8
89	Bad Behavior: Improving Reproducibility in Behavior Testing. ACS Chemical Neuroscience, 2018, 9, 1904-1906.	3.5	6
90	Neurochips Enable Nanoscale Devices for High-Resolution In Vivo Neurotransmitter Sensing. Neuropsychopharmacology, 2016, 41, 378-379.	5.4	5

#	Article	IF	Citations
91	Functional characterization of the S41Y (C2755A) polymorphism of tryptophan hydroxylase 2. Journal of Neurochemistry, 2014, 130, 748-758.	3.9	4
92	The Future of Monitoring Molecules. ACS Chemical Neuroscience, 2015, 6, 1-2.	3.5	4
93	A Model For Teaching Advanced Neuroscience Methods: A Student-Run Seminar to Increase Practical Understanding and Confidence. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2016, 15, A5-A10.	0.0	3
94	Visual Inspiration and Cover Art. ACS Chemical Neuroscience, 2012, 3, 492-492.	3.5	2
95	Editorsâ€™ Favorites of 2017. ACS Chemical Neuroscience, 2018, 9, 1-4.	3.5	2
96	ADVANCED MICRODIALYSIS APPROACHES RESOLVE DIFFERENCES IN SEROTONIN HOMEOSTASIS AND SIGNALING. , 2017, , 119-140.		2
97	Optogenetic Stimulation of Midbrain Dopamine Neurons Produces Striatal Serotonin Release. ACS Chemical Neuroscience, 2022, 13, 946-958.	3.5	2
98	Editorsâ€™ Favorites of 2016. ACS Chemical Neuroscience, 2017, 8, 1-3.	3.5	1
99	Nanoscience and Nanotechnology at UCLA. ACS Nano, 2019, 13, 6127-6129.	14.6	1
100	Whatâ€™s Old is New. ACS Chemical Neuroscience, 2013, 4, 1-2.	3.5	0
101	Prefrontal Cortex Vistas: A Serotonin Safari. ACS Chemical Neuroscience, 2015, 6, 936-937.	3.5	0
102	Editorsâ€™ Favorites: Best of 2018. ACS Chemical Neuroscience, 2019, 10, 1-4.	3.5	0
103	Electrochemical Techniques and Advances in Psychopharmacology. , 2013, , 1-6.		0
104	2â€²-NH2-MPTP: A Serotonin and Norepinephrine Neurotoxin. , 2014, , 327-346.		0
105	Flow Cytometry to Determine Serotonin Transporter Function in Human Peripheral Blood Cells. Neuromethods, 2015, , 151-167.	0.3	0