Bertha K Madras

List of Publications by Citations

107 papers	5,947 citations	41 h-index	75 g-index
110 ext. papers	6,401 ext. citations	5.4 avg, IF	5.75 L-index

#	Paper	IF	Citations
107	Screening, brief interventions, referral to treatment (SBIRT) for illicit drug and alcohol use at multiple healthcare sites: comparison at intake and 6 months later. *Drug and Alcohol Dependence*, **2009**, 99, 280-95	4.9	525
106	Dopamine transporter density in patients with attention deficit hyperactivity disorder. *Lancet, The*, **1999**, 354, 2132-3	40	519
105	1-(4-Methylphenyl)-2-pyrrolidin-1-yl-pentan-1-one (Pyrovalerone) analogues: a promising class of monoamine uptake inhibitors. *Journal of Medicinal Chemistry*, **2006**, 49, 1420-32	8.3	292
104	The dopamine transporter and attention-deficit/hyperactivity disorder. *Biological Psychiatry*, **2005**, 57, 1397-409	7.9	285
103	Modafinil occupies dopamine and norepinephrine transporters in vivo and modulates the transporters and trace amine activity in vitro. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 319, 561-9	4.7	268
102	Severe depletion of cocaine recognition sites associated with the dopamine transporter in Parkinson'S-diseased striatum. *Synapse*, **1991**, 9, 43-9	2.4	211
101	PET study examining pharmacokinetics, detection and likeability, and dopamine transporter receptor occupancy of short- and long-acting oral methylphenidate. *American Journal of Psychiatry*, **2006**, 163, 387-95	11.9	166
100	In vivo neuroreceptor imaging in attention-deficit/hyperactivity disorder: a focus on the dopamine transporter. *Biological Psychiatry*, **2005**, 57, 1293-300	7.9	143
99	Relevance of free tryptophan in serum to tissue tryptophan concentrations. *Metabolism: Clinical and Experimental*, **1974**, 23, 1107-16	12.7	139
98	MDMA (Ecstasy) and human dopamine, norepinephrine, and serotonin transporters: implications for MDMA-induced neurotoxicity and treatment. *Psychopharmacology*, **2007**, 189, 489-503	4.7	119
97	Methylphenidate elevates resting dopamine which lowers the impulse-triggered release of dopamine: a hypothesis. *Behavioural Brain Research*, **2002**, 130, 79-83	3.4	119
96	Further evidence of dopamine transporter dysregulation in ADHD: a controlled PET imaging study using altropane. *Biological Psychiatry*, **2007**, 62, 1059-61	7.9	116
95	Repetitive behaviors in monkeys are linked to specific striatal activation patterns. *Journal of Neuroscience*, **2004**, 24, 7557-65	6.6	115
94	Melatonin promotes sleep in three species of diurnal nonhuman primates. *Physiology and Behavior*, **2002**, 75, 523-9	3.5	110
93	Rhesus monkey trace amine-associated receptor 1 signaling: enhancement by monoamine transporters and attenuation by the D2 autoreceptor in vitro. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 321, 116-27	4.7	91
92	Autoradiographic localization of cocaine binding sites by [3H]CFT ([3H]WIN 35,428) in the monkey brain. *Synapse*, **1990**, 6, 189-95	2.4	91
91	2-Carbomethoxy-3-aryl-8-oxabicyclo[3.2.1]octanes: potent non-nitrogen inhibitors of monoamine transporters. *Journal of Medicinal Chemistry*, **1997**, 40, 2661-73	8.3	89

90	Primate trace amine receptor 1 modulation by the dopamine transporter. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 313, 983-94	4.7	89
89	The discovery of an unusually selective and novel cocaine analog: difluoropine. Synthesis and inhibition of binding at cocaine recognition sites. *Journal of Medicinal Chemistry*, **1994**, 37, 2001-10	8.3	85
88	The dopamine transporter: relevance to attention deficit hyperactivity disorder (ADHD). *Behavioural Brain Research*, **2002**, 130, 57-63	3.4	83
87	Serum tryptophan level after carbohydrate ingestion: selective decline in non-albumin-bound tryptophan coincident with reduction in serum free fatty acids. *Life Sciences*, **1973**, 12, 57-64	6.8	83
86	Rapid detection of Parkinson's disease by SPECT with altropane: a selective ligand for dopamine transporters. *Synapse*, **1998**, 29, 128-41	2.4	82
85	Cerebellar vermis involvement in cocaine-related behaviors. *Neuropsychopharmacology*, **2006**, 31, 1318-28	4.7	79
84	Cannabinoid receptor agonist and antagonist effects on motor function in normal and 1-methyl-4-phenyl-1,2,5,6-tetrahydropyridine (MPTP)-treated non-human primates. *Psychopharmacology*, **2001**, 156, 79-85	4.7	75
83	Cloning of dopamine, norepinephrine and serotonin transporters from monkey brain: relevance to cocaine sensitivity. *Molecular Brain Research*, **2001**, 87, 124-43		69
82	The Surge of Opioid Use, Addiction, and Overdoses: Responsibility and Response of the US Health Care System. *JAMA Psychiatry*, **2017**, 74, 441-442	14.5	67
81	History of the discovery of the antipsychotic dopamine D2 receptor: a basis for the dopamine hypothesis of schizophrenia. *Journal of the History of the Neurosciences*, **2013**, 22, 62-78	0.7	67
80	D1 and D2 dopamine receptors in caudate-putamen of nonhuman primates (Macaca fascicularis). *Journal of Neurochemistry*, **1988**, 51, 934-43	6	65
79	Nitrogen-based drugs are not essential for blockade of monoamine transporters. *Synapse*, **1996**, 24, 340-4	2.4	59
78	2-Carbomethoxy-3-aryl-8-bicyclo[3.2.1]octanes: potent non-nitrogen inhibitors of monoamine transporters. *Journal of Medicinal Chemistry*, **2000**, 43, 2982-91	8.3	56
77	Distribution of cocaine recognition sites in monkey brain: I. In vitro autoradiography with [3H]CFT. *Synapse*, **1991**, 9, 177-87	2.4	55
76	A technetium-99m SPECT imaging agent which targets the dopamine transporter in primate brain. *Journal of Medicinal Chemistry*, **1997**, 40, 1835-44	8.3	54
75	[(11)C, (127)I] Altropane: a highly selective ligand for PET imaging of dopamine transporter sites. *Synapse*, **2001**, 39, 332-42	2.4	53
74	Technepine: a high-affinity 99m-technetium probe to label the dopamine transporter in brain by SPECT imaging. *Synapse*, **1996**, 22, 239-46	2.4	52
73	Distribution of cocaine recognition sites in monkey brain: II. Ex vivo autoradiography with [3H]CFT and [125I]RTI-55. *Synapse*, **1992**, 12, 99-111	2.4	52

72	Altropane, a SPECT or PET imaging probe for dopamine neurons: III. Human dopamine transporter in postmortem normal and Parkinson's diseased brain. *Synapse*, **1998**, 29, 116-27	2.4	46
71	Cocaine accumulates in dopamine-rich regions of primate brain after i.v. administration: comparison with mazindol distribution. *Synapse*, **1994**, 18, 261-75	2.4	46
70	Synthesis and receptor binding of N-substituted tropane derivatives. High-affinity ligands for the cocaine receptor. *Journal of Medicinal Chemistry*, **1991**, 34, 1728-31	8.3	45
69	2-Carbomethoxy-3-(diarylmethoxy)-1 alpha H, 5 alpha H-tropane analogs: synthesis and inhibition of binding at the dopamine transporter and comparison with piperazines of the GBR series. *Journal of Medicinal Chemistry*, **1996**, 39, 371-9	8.3	43
68	[(3)H]PNU-101958, a D(4) dopamine receptor probe, accumulates in prefrontal cortex and hippocampus of non-human primate brain. *Synapse*, **2000**, 37, 232-44	2.4	42
67	The President's Commission on Combating Drug Addiction and the Opioid Crisis: Origins and Recommendations. *Clinical Pharmacology and Therapeutics*, **2018**, 103, 943-945	6.1	41
66	Functional genomics of attention-deficit/hyperactivity disorder (ADHD) risk alleles on dopamine transporter binding in ADHD and healthy control subjects. *Biological Psychiatry*, **2013**, 74, 84-9	7.9	39
65	The Growing Problem of New Psychoactive Substances (NPS). *Current Topics in Behavioral Neurosciences*, **2017**, 32, 1-18	3.4	38
64	Synthesis of 6- and 7- hydroxy-8-azabicyclo[3.2.1]octanes and their binding affinity for the dopamine and serotonin transporters. *Journal of Medicinal Chemistry*, **2001**, 44, 2619-35	8.3	37
63	Altropane, a SPECT or PET imaging probe for dopamine neurons: I. Dopamine transporter binding in primate brain. *Synapse*, **1998**, 29, 93-104	2.4	35
62	Receptor regulation of gene expression of axon guidance molecules: implications for adaptation. *Molecular Pharmacology*, **2006**, 70, 71-7	4.3	35
61	Formation of respiratory 14CO2 from variously labeled forms of tryptophan-14C in intact and adrenalectomized rats. *Archives of Biochemistry and Biophysics*, **1968**, 125, 829-36	4.1	35
60	Prescription opioid abuse: challenges and opportunities for payers. *American Journal of Managed Care*, **2013**, 19, 295-302	2.1	35
59	Fluorescent probes for dopamine receptors: synthesis and characterization of fluorescein and 7-nitrobenz-2-oxa-1,3-diazol-4-yl conjugates of D-1 and D-2 receptor ligands. *Journal of Medicinal Chemistry*, **1991**, 34, 3235-41	8.3	34
58	Improving Access to Evidence-Based Medical Treatment for Opioid Use Disorder: Strategies to Address Key Barriers within the Treatment System.. *NAM Perspectives*, **2020**, 2020,	2.8	34
57	Quantification of dopamine transporter density in monkeys by dynamic PET imaging of multiple injections of 11C-CFT. *Synapse*, **1996**, 24, 262-72	2.4	32
56	Metabolism of alpha-methyltryptophan. *Biochemical Pharmacology*, **1965**, 14, 1499-506	6	32
55	Pharmacological Research as a Key Component in Mitigating the Opioid Overdose Crisis. *Trends in Pharmacological Sciences*, **2018**, 39, 995-998	13.2	31

54	Altropane, a SPECT or PET imaging probe for dopamine neurons: II. Distribution to dopamine-rich regions of primate brain. *Synapse*, **1998**, 29, 105-15	2.4	30
53	Synthesis and evaluation of dopamine and serotonin transporter inhibition by oxacyclic and carbacyclic analogues of methylphenidate. *Journal of Medicinal Chemistry*, **2003**, 46, 1538-45	8.3	30
52	A primate model of Huntington's disease: functional neural transplantation and CT-guided stereotactic procedures. *Cell Transplantation*, **1992**, 1, 313-22	4	30
51	Bicyclo[3.2.1]octanes: synthesis and inhibition of binding at the dopamine and serotonin transporters. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 857-62	2.9	29
50	Dopamine transporter-dependent induction of C-Fos in HEK cells. *Synapse*, **2002**, 45, 52-65	2.4	26
49	Ephrin/Eph receptor expression in brain of adult nonhuman primates: implications for neuroadaptation. *Brain Research*, **2006**, 1067, 67-77	3.7	24
48	Design and synthesis of an irreversible dopamine-sparing cocaine antagonist. *Bioorganic and Medicinal Chemistry*, **2002**, 10, 3583-91	3.4	22
47	Associations of Parental Marijuana Use With Offspring Marijuana, Tobacco, and Alcohol Use and Opioid Misuse. *JAMA Network Open*, **2019**, 2, e1916015	10.4	22
46	MDMA-induced impairment in primates: antagonism by a selective norepinephrine or serotonin, but not by a dopamine/norepinephrine transport inhibitor. *Journal of Psychopharmacology*, **2008**, 22, 187-202	4.6	21
45	Dopamine transporter (DAT) inhibitors alleviate specific parkinsonian deficits in monkeys: association with DAT occupancy in vivo. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 319, 570-85	4.7	20
44	3-Aryl-2-carbomethoxybicyclo[3.2.1]oct-2-enes inhibit WIN 35,428 binding potently and selectively at the dopamine transporter. *Bioorganic and Medicinal Chemistry*, **2000**, 8, 581-90	3.4	20
43	Sex difference in dopamine D1-D2 receptor complex expression and signaling affects depression- and anxiety-like behaviors. *Biology of Sex Differences*, **2020**, 11, 8	9.3	19
42	O-526, a piperidine analog of GBR 12909, retains high affinity for the dopamine transporter in monkey caudate-putamen. *European Journal of Pharmacology*, **1994**, 267, 167-73		19
41	Drug use among youth: National survey data support a common liability of all drug use. *Preventive Medicine*, **2018**, 113, 68-73	4.3	19
40	[3H]CFT ([3H]WIN 35,428) accumulation in dopamine regions of monkey brain: comparison of a mature and an aged monkey. *Brain Research*, **1993**, 611, 322-5	3.7	18
39	A positron emission tomography study examining the dopaminergic activity of armodafinil in adults using [□□C]altropane and [□□C]raclopride. *Biological Psychiatry*, **2010**, 68, 964-70	7.9	16
38	Effects of drugs on the metabolism of tryptophan. Alpha-hydrazinotryptophan and other amino acid analogs. *Biochemical Pharmacology*, **1968**, 17, 1037-47	6	15
37	Non-amines, drugs without an amine nitrogen, potently block serotonin transport: novel antidepressant candidates?. *Synapse*, **2001**, 42, 129-40	2.4	14

36	Non-amine-based dopamine transporter (reuptake) inhibitors retain properties of amine-based progenitors. *European Journal of Pharmacology*, **2003**, 479, 41-51	5.3	13
35	Effects of skim milk, whole milk and light cream on serum tryptophan binding and brain tryptophan concentrations in rats. *Journal of Nutrition*, **1975**, 105, 1359-62	4.1	13
34	Non-amine dopamine transporter probe [(3)H]tropoxene distributes to dopamine-rich regions of monkey brain. *Synapse*, **1999**, 34, 20-7	2.4	12
33	Drug potencies on partially purified brain D2 dopamine receptors. *Journal of Neurochemistry*, **1985**, 44, 856-61	6	12
32	Tetrahydrocannabinol Increases Dopamine D1-D2 Receptor Heteromer and Elicits Phenotypic Reprogramming in Adult Primate Striatal Neurons. *IScience*, **2020**, 23, 100794	6.1	12
31	Concentration of dopamine transporters: to Bmax or not to Bmax?. *Synapse*, **1999**, 32, 136-40	2.4	11
30	11C-WIN 35,428 for detecting dopamine depletion in mild Parkinsons disease. *Annals of Neurology*, **1994**, 35, 376-7	9.4	11
29	Synthesis of 3-(4-heteroaryl-phenyl)-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters. *Tetrahedron Letters*, **2006**, 47, 599-603	2	10
28	A second-generation 99m technetium single photon emission computed tomography agent that provides in vivo images of the dopamine transporter in primate brain. *Journal of Medicinal Chemistry*, **2003**, 46, 3483-96	8.3	10
27	Solubilized receptors for [3H]dopamine (D3 binding sites) from canine brain. *Biochemical Pharmacology*, **1982**, 31, 1183-7	6	10
26	Dopamine D1-D2 receptor heteromer expression in key brain regions of rat and higher species: Upregulation in rat striatum after cocaine administration. *Neurobiology of Disease*, **2020**, 143, 105017	7.5	10
25	THC and CBD blood and brain concentrations following daily administration to adolescent primates. *Drug and Alcohol Dependence*, **2020**, 213, 108129	4.9	8
24	Synthesis of 8-thiabicyclo[3.2.1]oct-2-enes and their binding affinity for the dopamine and serotonin transporters. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 6007-10	2.9	8
23	Dopamine-transporter density in patients with ADHD. *Lancet, The*, **2000**, 355, 1461-1462	40	8
22	Effects of daily Tetrahydrocannabinol (THC) alone or combined with cannabidiol (CBD) on cognition-based behavior and activity in adolescent nonhuman primates. *Drug and Alcohol Dependence*, **2021**, 221, 108629	4.9	8
21	Synthesis of 8-thiabicyclo[3.2.1]octanes and their binding affinity for the dopamine and serotonin transporters. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 1067-82	3.4	7
20	Variants of the primate vesicular monoamine transporter-2. *Molecular Brain Research*, **2005**, 139, 251-7		7
19	Synthesis and preliminary characterization of a high-affinity novel radioligand for the dopamine transporter. *Synapse*, **2001**, 39, 175-81	2.4	7

18	Office of National Drug Control Policy: a scientist in drug policy in Washington, DC. *Annals of the New York Academy of Sciences*, **2010**, 1187, 370-402	6.5	6
17	Solubilized dopamine/neuroleptic receptors (D2-type). *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, **1981**, 5, 543-8		6
16	The synthesis and biological evaluation of 2-(3-methyl or 3-phenylisoxazol-5-yl)-3-aryl-8-thiabicyclo[3.2.1]octanes. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 48-51	2.9	5
15	Synthesis and biological activity of 2-carbomethoxy-3-catechol-8-azabicyclo[3.2.1]octanes. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 4133-7	2.9	5
14	Psychiatry and the Opioid Overdose Crisis. *Focus (American Psychiatric Publishing)*, **2019**, 17, 128-133	1.1	4
13	Dopamine and norepinephrine transporter-dependent c-Fos production in vitro: relevance to neuroadaptation. *Journal of Neuroscience Methods*, **2005**, 143, 69-78	3	4
12	Molecular and regional targets of cocaine in primate brain: liberation from prosaic views. *Addiction Biology*, **2000**, 5, 351-9	4.6	4
11	Synthesis and structure-activity relationship studies of 3-biaryl-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 2762-72	3.4	3
10	Candidate performance measures for screening for, assessing, and treating unhealthy substance use in hospitals. *Annals of Internal Medicine*, **2011**, 154, 72-3; author reply 73-4	8	3
9	Dopamine challenge reveals neuroadaptive changes in marijuana abusers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11915-6	11.5	2
8	Growth-associated protein-43 and ephrin B3 induction in the brain of adult SIV-infected rhesus macaques. *Journal of NeuroVirology*, **2011**, 17, 455-68	3.9	2
7	Imaging of dopamine transporters in humans with technetium-99m TRODAT-1. *European Journal of Nuclear Medicine and Molecular Imaging*, **1997**, 24, 462-3		2
6	Drug Use and Its Consequences **2014**, 1-35		1
5	In memoriam professor Philip Seeman (February 8, 1934-January 9, 2021). *Neuropsychopharmacology*, **2021**, 46, 1229-1230	8.7	1
4	Ineffective Policies to Address the Opioid Epidemic-Reply. *JAMA Psychiatry*, **2017**, 74, 974-975	14.5	
3	Vesicular monoamine transporter 2 loss in human cocaine abusers confirmed in nonhuman primate brain. *Biological Psychiatry*, **2015**, 77, 421-2	7.9	
2	Cannabinoid and Marijuana Neurobiology **2020**, 25-47		
1	Cannabis and Medicinal Properties. *South Dakota Medicine: the Journal of the South Dakota State Medical Association*, **2016**, No, 34-45	0.2	