

Rudolf N Cardinal

List of Publications by Year in descending order

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116
papers

10,120
citations

76326

40
h-index

51608

86
g-index

145
all docs

145
docs citations

145
times ranked

8978
citing authors

#	ARTICLE	IF	CITATIONS
1	Emotion and motivation: the role of the amygdala, ventral striatum, and prefrontal cortex. <i>Neuroscience and Biobehavioral Reviews</i> , 2002, 26, 321-352.	6.1	1,870
2	Prefrontal executive and cognitive functions in rodents: neural and neurochemical substrates. <i>Neuroscience and Biobehavioral Reviews</i> , 2004, 28, 771-784.	6.1	1,153
3	Impulsive Choice Induced in Rats by Lesions of the Nucleus Accumbens Core. <i>Science</i> , 2001, 292, 2499-2501.	12.6	783
4	Contrasting Roles of Basolateral Amygdala and Orbitofrontal Cortex in Impulsive Choice. <i>Journal of Neuroscience</i> , 2004, 24, 4718-4722.	3.6	509
5	Differential Involvement of NMDA, AMPA/Kainate, and Dopamine Receptors in the Nucleus Accumbens Core in the Acquisition and Performance of Pavlovian Approach Behavior. <i>Journal of Neuroscience</i> , 2001, 21, 9471-9477.	3.6	301
6	The effects of d -amphetamine, chlordiazepoxide, $\hat{1}\pm$ -flupenthixol and behavioural manipulations on choice of signalled and unsignalled delayed reinforcement in rats. <i>Psychopharmacology</i> , 2000, 152, 362-375.	3.1	287
7	Appetitive Behavior. <i>Annals of the New York Academy of Sciences</i> , 2003, 985, 233-250.	3.8	282
8	Neural systems implicated in delayed and probabilistic reinforcement. <i>Neural Networks</i> , 2006, 19, 1277-1301.	5.9	272
9	Nucleus accumbens dopamine depletion impairs both acquisition and performance of appetitive Pavlovian approach behaviour: implications for mesoaccumbens dopamine function. <i>Behavioural Brain Research</i> , 2002, 137, 149-163.	2.2	258
10	Distinct Changes in Cortical Acetylcholine and Noradrenaline Efflux during Contingent and Noncontingent Performance of a Visual Attentional Task. <i>Journal of Neuroscience</i> , 2001, 21, 4908-4914.	3.6	254
11	Double Dissociation between Serotonergic and Dopaminergic Modulation of Medial Prefrontal and Orbitofrontal Cortex during a Test of Impulsive Choice. <i>Cerebral Cortex</i> , 2006, 16, 106-114.	2.9	238
12	Limbic Corticostriatal Systems and Delayed Reinforcement. <i>Annals of the New York Academy of Sciences</i> , 2004, 1021, 33-50.	3.8	227
13	Neural and psychological mechanisms underlying appetitive learning: links to drug addiction. <i>Current Opinion in Neurobiology</i> , 2004, 14, 156-162.	4.2	187
14	Effects of lesions of the nucleus accumbens core on choice between small certain rewards and large uncertain rewards in rats. <i>BMC Neuroscience</i> , 2005, 6, 37.	1.9	179
15	Effects of selective excitotoxic lesions of the nucleus accumbens core, anterior cingulate cortex, and central nucleus of the amygdala on autoshaping performance in rats.. <i>Behavioral Neuroscience</i> , 2002, 116, 553-567.	1.2	171
16	Appetitive behavior: impact of amygdala-dependent mechanisms of emotional learning. <i>Annals of the New York Academy of Sciences</i> , 2003, 985, 233-50.	3.8	165
17	Decision making and neuropsychiatry. <i>Trends in Cognitive Sciences</i> , 2001, 5, 271-277.	7.8	160
18	Replicable and Coupled Changes in Innate and Adaptive Immune Gene Expression in Two Case-Control Studies of Blood Microarrays in Major Depressive Disorder. <i>Biological Psychiatry</i> , 2018, 83, 70-80.	1.3	158

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19	Cortical Cholinergic Function and Deficits in Visual Attentional Performance in Rats Following 192 IgG-Saporin-induced Lesions of the Medial Prefrontal Cortex. <i>Cerebral Cortex</i> , 2004, 14, 922-932.	2.9	157
20	Explaining the Escalation of Drug Use in Substance Dependence: Models and Appropriate Animal Laboratory Tests. <i>Pharmacology</i> , 2007, 80, 65-119.	2.2	127
21	Whisker: A client-server high-performance multimedia research control system. <i>Behavior Research Methods</i> , 2010, 42, 1059-1071.	4.0	123
22	Limbic cortical-ventral striatal systems underlying appetitive conditioning. <i>Progress in Brain Research</i> , 2000, 126, 263-285.	1.4	121
23	Hippocampal lesions facilitate instrumental learning with delayed reinforcement but induce impulsive choice in rats. <i>BMC Neuroscience</i> , 2005, 6, 36.	1.9	114
24	Effects of selective excitotoxic lesions of the nucleus accumbens core, anterior cingulate cortex, and central nucleus of the amygdala on autoshaping performance in rats.. <i>Behavioral Neuroscience</i> , 2002, 116, 553-567.	1.2	107
25	The early impact of COVID-19 on mental health and community physical health services and their patients' mortality in Cambridgeshire and Peterborough, UK. <i>Journal of Psychiatric Research</i> , 2020, 131, 244-254.	3.1	100
26	Role of the anterior cingulate cortex in the control over behavior by Pavlovian conditioned stimuli in rats.. <i>Behavioral Neuroscience</i> , 2003, 117, 566-587.	1.2	85
27	Nucleus accumbens core lesions retard instrumental learning and performance with delayed reinforcement in the rat. <i>BMC Neuroscience</i> , 2005, 6, 9.	1.9	82
28	Opposing roles of primate areas 25 and 32 and their putative rodent homologs in the regulation of negative emotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4075-E4084.	7.1	79
29	Prevalence and correlates of low-grade systemic inflammation in adult psychiatric inpatients: An electronic health record-based study. <i>Psychoneuroendocrinology</i> , 2018, 91, 226-234.	2.7	75
30	Evidence for a Long-Lasting Compulsive Alcohol Seeking Phenotype in Rats. <i>Neuropsychopharmacology</i> , 2018, 43, 728-738.	5.4	74
31	Mortality in dementia with Lewy bodies compared with Alzheimer's dementia: a retrospective naturalistic cohort study. <i>BMJ Open</i> , 2017, 7, e017504.	1.9	73
32	Dissociable effects of acute SSRI (escitalopram) on executive, learning and emotional functions in healthy humans. <i>Neuropsychopharmacology</i> , 2018, 43, 2645-2651.	5.4	72
33	Role of Central Serotonin in Anticipation of Rewarding and Punishing Outcomes: Effects of Selective Amygdala or Orbitofrontal 5-HT Depletion. <i>Cerebral Cortex</i> , 2015, 25, 3064-3076.	2.9	70
34	Computational modelling reveals contrasting effects on reinforcement learning and cognitive flexibility in stimulant use disorder and obsessive-compulsive disorder: remediating effects of dopaminergic D2/3 receptor agents. <i>Psychopharmacology</i> , 2019, 236, 2337-2358.	3.1	64
35	Counterfactual Processing of Economic Action-Outcome Alternatives in Obsessive-Compulsive Disorder: Further Evidence of Impaired Goal-Directed Behavior. <i>Biological Psychiatry</i> , 2014, 75, 639-646.	1.3	60
36	Impulsivity in borderline personality disorder. <i>Psychological Medicine</i> , 2015, 45, 1955-1964.	4.5	60

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37	Local analysis of behaviour in the adjusting-delay task for assessing choice of delayed reinforcement. <i>Neural Networks</i> , 2002, 15, 617-634.	5.9	55
38	ANOVA for the Behavioral Sciences Researcher. , 0, , .		52
39	Orbitofrontal Dopamine Depletion Upregulates Caudate Dopamine and Alters Behavior via Changes in Reinforcement Sensitivity. <i>Journal of Neuroscience</i> , 2014, 34, 7663-7676.	3.6	50
40	The contribution of the amygdala, nucleus accumbens, and prefrontal cortex to emotion and motivated behaviour. <i>International Congress Series</i> , 2003, 1250, 347-370.	0.2	43
41	Lack of deleterious effects of buspirone on cognition in healthy male volunteers. <i>Journal of Psychopharmacology</i> , 2007, 21, 210-215.	4.0	40
42	Clinical records anonymisation and text extraction (CRATE): an open-source software system. <i>BMC Medical Informatics and Decision Making</i> , 2017, 17, 50.	3.0	38
43	The Medium-Term Impact of COVID-19 Lockdown on Referrals to Secondary Care Mental Health Services: A Controlled Interrupted Time Series Study. <i>Frontiers in Psychiatry</i> , 2020, 11, 585915.	2.6	38
44	Mental health outcomes after SARS-CoV-2 vaccination in the United States: A national cross-sectional study. <i>Journal of Affective Disorders</i> , 2022, 298, 396-399.	4.1	38
45	Impaired awareness of action-outcome contingency and causality during healthy ageing and following ventromedial prefrontal cortex lesions. <i>Neuropsychologia</i> , 2019, 128, 282-289.	1.6	32
46	Generation and evaluation of artificial mental health records for Natural Language Processing. <i>Npj Digital Medicine</i> , 2020, 3, 69.	10.9	32
47	Action-Outcome Knowledge Dissociates From Behavior in Obsessive-Compulsive Disorder Following Contingency Degradation. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 200-209.	1.5	30
48	Hippocampal Interaction With Area 25, but not Area 32, Regulates Marmoset Approach-Avoidance Behavior. <i>Cerebral Cortex</i> , 2019, 29, 4818-4830.	2.9	28
49	Glutamate Within the Marmoset Anterior Hippocampus Interacts with Area 25 to Regulate the Behavioral and Cardiovascular Correlates of High-Trait Anxiety. <i>Journal of Neuroscience</i> , 2019, 39, 3094-3107.	3.6	28
50	Changes in daily mental health service use and mortality at the commencement and lifting of COVID-19 "lockdown" policy in 10 UK sites: a regression discontinuity in time design. <i>BMJ Open</i> , 2021, 11, e049721.	1.9	28
51	Early life stress produces compulsive-like, but not impulsive, behavior in females.. <i>Behavioral Neuroscience</i> , 2015, 129, 300-308.	1.2	25
52	Dopamine D2-like receptor stimulation blocks negative feedback in visual and spatial reversal learning in the rat: behavioural and computational evidence. <i>Psychopharmacology</i> , 2019, 236, 2307-2323.	3.1	25
53	Serotonin depletion amplifies distinct human social emotions as a function of individual differences in personality. <i>Translational Psychiatry</i> , 2021, 11, 81.	4.8	25
54	Association between lithium use and the incidence of dementia and its subtypes: A retrospective cohort study. <i>PLoS Medicine</i> , 2022, 19, e1003941.	8.4	24

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55	Controlling one's world: Identification of sub-regions of primate PFC underlying goal-directed behavior. <i>Neuron</i> , 2021, 109, 2485-2498.e5.	8.1	23
56	Impairments in reinforcement learning do not explain enhanced habit formation in cocaine use disorder. <i>Psychopharmacology</i> , 2019, 236, 2359-2371.	3.1	22
57	Computational psychopharmacology: a translational and pragmatic approach. <i>Psychopharmacology</i> , 2019, 236, 2295-2305.	3.1	22
58	Serotonin depletion impairs both Pavlovian and instrumental reversal learning in healthy humans. <i>Molecular Psychiatry</i> , 2021, 26, 7200-7210.	7.9	22
59	Negative Allosteric Modulators Selective for The NR2B Subtype of The NMDA Receptor Impair Cognition in Multiple Domains. <i>Neuropsychopharmacology</i> , 2016, 41, 568-577.	5.4	19
60	Clinical Presentation, Diagnostic Features, and Mortality in Dementia with Lewy Bodies. <i>Journal of Alzheimer's Disease</i> , 2019, 67, 995-1005.	2.6	16
61	Individual differences in the engagement of habitual control over alcohol seeking predict the development of compulsive alcohol seeking and drinking. <i>Addiction Biology</i> , 2021, 26, e13041.	2.6	16
62	Patient and public involvement to build trust in artificial intelligence: A framework, tools, and case studies. <i>Patterns</i> , 2022, 3, 100506.	5.9	16
63	Psychosis and catatonia as a first presentation of antiphospholipid syndrome. <i>British Journal of Psychiatry</i> , 2009, 195, 272-272.	2.8	15
64	Inflammatory and cardiometabolic markers at presentation with first episode psychosis and long-term clinical outcomes: A longitudinal study using electronic health records. <i>Brain, Behavior, and Immunity</i> , 2021, 91, 117-127.	4.1	13
65	Choosing Delayed Rewards. , 2003, , 183-218.		12
66	Novel Smartphone Interventions Improve Cognitive Flexibility and Obsessive-Compulsive Disorder Symptoms in Individuals with Contamination Fears. <i>Scientific Reports</i> , 2018, 8, 14923.	3.3	12
67	Public opinion on sharing data from health services for clinical and research purposes without explicit consent: an anonymous online survey in the UK. <i>BMJ Open</i> , 2022, 12, e057579.	1.9	12
68	Impaired Learning From Negative Feedback in Stimulant Use Disorder: Dopaminergic Modulation. <i>International Journal of Neuropsychopharmacology</i> , 2021, 24, 867-878.	2.1	11
69	Neuroscience of Drugs and Addiction. , 2007, , 11-87.		9
70	Osteomalacia and vitamin D deficiency in a psychiatric rehabilitation unit: case report and survey. <i>BMC Research Notes</i> , 2009, 2, 82.	1.4	9
71	Birth weight, family history of diabetes and diabetes onset in schizophrenia. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e001036.	2.8	9
72	Difficulty and help with activities of daily living among older adults living alone during the COVID-19 pandemic: a multi-country population-based study. <i>BMC Geriatrics</i> , 2022, 22, 181.	2.7	9

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73	Prevalence, progress, and subgroup disparities in pharmacological antidepressant treatment of those who screen positive for depressive symptoms: A repetitive cross-sectional study in 19 European countries. <i>Lancet Regional Health - Europe</i> , 2022, 17, 100368.	5.6	9
74	Association between antipsychotic/antidepressant drug treatments and hospital admissions in schizophrenia assessed using a mental health case register. <i>NPJ Schizophrenia</i> , 2015, 1, 15035.	3.6	8
75	Probabilistic reversal learning under acute tryptophan depletion in healthy humans: a conventional analysis. <i>Journal of Psychopharmacology</i> , 2020, 34, 580-583.	4.0	8
76	Survey of CAMHS clinicians about their experience of remote consultation: brief report. <i>BJPsych Open</i> , 2021, 7, e34.	0.7	8
77	Effect of Tryptophan Depletion on Conditioned Threat Memory Expression: Role of Intolerance of Uncertainty. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 590-598.	1.5	8
78	Accessibility and efficiency of mental health services, United Kingdom of Great Britain and Northern Ireland. <i>Bulletin of the World Health Organization</i> , 2021, 99, 674-679.	3.3	8
79	Risk factors for excess deaths during lockdown among older users of secondary care mental health services without confirmed COVID-19: A retrospective cohort study. <i>International Journal of Geriatric Psychiatry</i> , 2021, 36, 1899-1907.	2.7	6
80	Longer-term mortality following SARS-CoV-2 infection in people with severe mental illness: retrospective case-matched study. <i>BJPsych Open</i> , 2021, 7, e201.	0.7	6
81	Causes of death in clozapine-treated patients in a catchment area: a 10-year retrospective case-control study. <i>European Neuropsychopharmacology</i> , 2020, 36, 160-166.	0.7	5
82	Early versus late risk factors for deficit and nondeficit schizophrenia. <i>Revista De Psiquiatria Y Salud Mental</i> , 2022, 15, 38-46.	1.8	5
83	The Effect of Clozapine on Self-reported Duration of Sleep and Its Interaction With 23 Other Medications. <i>Journal of Clinical Psychopharmacology</i> , 2021, 41, 534-539.	1.4	5
84	Investigation of risk of dementia diagnosis and death in patients in older people's secondary care mental health services. <i>International Journal of Geriatric Psychiatry</i> , 2021, 36, 573-582.	2.7	4
85	Clozapine-related obsessive-compulsive symptoms and their impact on wellbeing: a naturalistic longitudinal study. <i>Psychological Medicine</i> , 2023, 53, 2936-2945.	4.5	4
86	Simulating a Community Mental Health Service During the COVID-19 Pandemic: Effects of Clinician-Clinician Encounters, Clinician-Patient Family Encounters, Symptom-Triggered Protective Behaviour, and Household Clustering. <i>Frontiers in Psychiatry</i> , 2021, 12, 620842.	2.6	3
87	A class-contrastive human-interpretable machine learning approach to predict mortality in severe mental illness. <i>NPJ Schizophrenia</i> , 2021, 7, 60.	3.6	2
88	AMPHETAMINE INTERACTS WITH CUE STIMULI TO AFFECT PREFERENCE FOR DELAYED REINFORCEMENT. <i>Behavioural Pharmacology</i> , 1999, 10, S16.	1.7	1
89	Neural Systems of Motivation. , 2010, , 376-386.		1
90	Neurodevelopmental disorders and chromosomal abnormalities. , 2011, , 10-15.		1

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91	Iatrogenic Complications of Compulsory Treatment in a Patient Presenting with an Emotionally Unstable Personality Disorder and Self-Harm. Case Reports in Psychiatry, 2021, 2021, 1-8.	0.5	1
92	Early versus late risk factors for deficit and nondeficit schizophrenia. Revista De Psiquiatr�a Y Salud Mental (English Edition), 2022, 15, 38-46.	0.3	1
93	Infectious and postinfectious syndromes. , 0, , 40-59.		0
94	Neurodegenerative disorders. , 0, , 16-24.		0
95	Focal neurological disease. , 0, , 25-37.		0
96	Malignancy. , 0, , 38-39.		0
97	Endocrine disease. , 0, , 60-67.		0
98	Nutritional deficiency. , 0, , 82-88.		0
99	Other acquired metabolic disorders. , 0, , 89-98.		0
100	Autoimmune rheumatic disorders and vasculitides. , 0, , 99-112.		0
101	Other autoimmune encephalopathies. , 0, , 113-117.		0
102	Sensory deprivation and impairment. , 0, , 142-142.		0
103	Catatonia. , 0, , 146-150.		0
104	Agitation and bizarre behaviour. , 0, , 151-151.		0
105	Primary psychiatric disease. , 0, , 152-167.		0
106	Factitious disorder and malingering. , 0, , 168-168.		0
107	Multiple simultaneous causes of psychosis, and questions of causality. , 0, , 169-170.		0
108	History and examination. , 0, , 173-182.		0

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109	Initial investigations relevant to psychosis. , 0, , 183-189.		0
110	Putting it together: clinical and paraclinical clues. , 0, , 190-229.		0
111	Further investigations relevant to psychosis. , 0, , 230-247.		0
112	Classificatory approach for psychosis of unknown aetiology. , 0, , 248-278.		0
113	Distinguishing between Dementia with Lewy bodies (DLB) and Alzheimer's Disease (AD) using Mental Health Records: a Classification Approach. , 2020, , .		0
114	The Early Impact of COVID-19 on Mental Health and Community Physical Health Services and Their Patients' Mortality in Cambridgeshire and Peterborough, UK. SSRN Electronic Journal, 0, , .	0.4	0
115	The Cambridge Cognitive and Psychiatric Assessment Kit (CamCOPS): A Secure Open-Source Client-Server System for Mobile Research and Clinical Data Capture. Frontiers in Psychiatry, 2021, 12, 578298.	2.6	0
116	Clozapine treatment and risk of COVID-19. BJPsych Open, 2022, 8, .	0.7	0