

Tania Singer

List of Publications by Year in descending order

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Version: 2024-02-01

143
papers

26,974
citations

14655

66
h-index

10445

139
g-index

155
all docs

155
docs citations

155
times ranked

16944
citing authors

#	ARTICLE	IF	CITATIONS
1	Empathy for Pain Involves the Affective but not Sensory Components of Pain. <i>Science</i> , 2004, 303, 1157-1162.	12.6	3,265
2	Meta-analytic evidence for common and distinct neural networks associated with directly experienced pain and empathy for pain. <i>NeuroImage</i> , 2011, 54, 2492-2502.	4.2	1,668
3	Empathic neural responses are modulated by the perceived fairness of others. <i>Nature</i> , 2006, 439, 466-469.	27.8	1,470
4	The empathic brain: how, when and why?. <i>Trends in Cognitive Sciences</i> , 2006, 10, 435-441.	7.8	1,308
5	The Social Neuroscience of Empathy. <i>Annals of the New York Academy of Sciences</i> , 2009, 1156, 81-96.	3.8	1,174
6	A common role of insula in feelings, empathy and uncertainty. <i>Trends in Cognitive Sciences</i> , 2009, 13, 334-340.	7.8	1,105
7	The neuronal basis and ontogeny of empathy and mind reading: Review of literature and implications for future research. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 855-863.	6.1	920
8	The Neural Basis of Empathy. <i>Annual Review of Neuroscience</i> , 2012, 35, 1-23.	10.7	769
9	Empathy and compassion. <i>Current Biology</i> , 2014, 24, R875-R878.	3.9	766
10	Neural Responses to Ingroup and Outgroup Members' Suffering Predict Individual Differences in Costly Helping. <i>Neuron</i> , 2010, 68, 149-160.	8.1	667
11	Empathic brain responses in insula are modulated by levels of alexithymia but not autism. <i>Brain</i> , 2010, 133, 1515-1525.	7.6	514
12	I feel how you feel but not always: the empathic brain and its modulation. <i>Current Opinion in Neurobiology</i> , 2008, 18, 153-158.	4.2	484
13	Differential pattern of functional brain plasticity after compassion and empathy training. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 873-879.	3.0	453
14	The role of anterior insular cortex in social emotions. <i>Brain Structure and Function</i> , 2010, 214, 579-591.	2.3	449
15	The Neural Basis of Empathy. <i>Annual Review of Neuroscience</i> , 2012, 35, 1-23.	10.7	439
16	Functional Neural Plasticity and Associated Changes in Positive Affect After Compassion Training. <i>Cerebral Cortex</i> , 2013, 23, 1552-1561.	2.9	438
17	Right Supramarginal Gyrus Is Crucial to Overcome Emotional Egocentricity Bias in Social Judgments. <i>Journal of Neuroscience</i> , 2013, 33, 15466-15476.	3.6	399
18	Differential Encoding of Losses and Gains in the Human Striatum. <i>Journal of Neuroscience</i> , 2007, 27, 4826-4831.	3.6	396

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19	Levels of emotional awareness and autism: An fMRI study. <i>Social Neuroscience</i> , 2008, 3, 97-112.	1.3	394
20	Oxytocin Attenuates Affective Evaluations of Conditioned Faces and Amygdala Activity. <i>Journal of Neuroscience</i> , 2008, 28, 6607-6615.	3.6	381
21	Brain Responses to the Acquired Moral Status of Faces. <i>Neuron</i> , 2004, 41, 653-662.	8.1	365
22	Dissecting the social brain: Introducing the EmpaToM to reveal distinct neural networks and brain-behavior relations for empathy and Theory of Mind. <i>NeuroImage</i> , 2015, 122, 6-19.	4.2	322
23	Short-Term Compassion Training Increases Prosocial Behavior in a Newly Developed Prosocial Game. <i>PLoS ONE</i> , 2011, 6, e17798.	2.5	319
24	The animal and human neuroendocrinology of social cognition, motivation and behavior. <i>Nature Neuroscience</i> , 2012, 15, 681-688.	14.8	264
25	The role of social cognition in decision making. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 3875-3886.	4.0	251
26	Impulse Control and Underlying Functions of the Left DLPFC Mediate Age-Related and Age-Independent Individual Differences in Strategic Social Behavior. <i>Neuron</i> , 2012, 73, 1040-1051.	8.1	241
27	The fate of cognition in very old age: Six-year longitudinal findings in the Berlin Aging Study (BASE).. <i>Psychology and Aging</i> , 2003, 18, 318-331.	1.6	221
28	Differential changes in self-reported aspects of interoceptive awareness through 3 months of contemplative training. <i>Frontiers in Psychology</i> , 2014, 5, 1504.	2.1	211
29	The neurobiology of punishment. <i>Nature Reviews Neuroscience</i> , 2007, 8, 300-311.	10.2	210
30	Effects of oxytocin and prosocial behavior on brain responses to direct and vicariously experienced pain.. <i>Emotion</i> , 2008, 8, 781-791.	1.8	210
31	On the interaction of social affect and cognition: empathy, compassion and theory of mind. <i>Current Opinion in Behavioral Sciences</i> , 2018, 19, 1-6.	3.9	204
32	Plasticity of memory for new learning in very old age: A story of major loss?. <i>Psychology and Aging</i> , 2003, 18, 306-317.	1.6	190
33	Pupillary contagion: central mechanisms engaged in sadness processing. <i>Social Cognitive and Affective Neuroscience</i> , 2006, 1, 5-17.	3.0	190
34	How Self-Generated Thought Shapes Mood—The Relation between Mind-Wandering and Mood Depends on the Socio-Temporal Content of Thoughts. <i>PLoS ONE</i> , 2013, 8, e77554.	2.5	189
35	Decoding the Charitable Brain: Empathy, Perspective Taking, and Attention Shifts Differentially Predict Altruistic Giving. <i>Journal of Neuroscience</i> , 2016, 36, 4719-4732.	3.6	187
36	Structural plasticity of the social brain: Differential change after socio-affective and cognitive mental training. <i>Science Advances</i> , 2017, 3, e1700489.	10.3	184

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37	The Neuroeconomics of Mind Reading and Empathy. American Economic Review, 2005, 95, 340-345.	8.5	168
38	Empathy circuits. Current Opinion in Neurobiology, 2013, 23, 275-282.	4.2	168
39	The Anatomy of Suffering: Understanding the Relationship between Nociceptive and Empathic Pain. Trends in Cognitive Sciences, 2016, 20, 249-259.	7.8	167
40	Cross-modal representations of first-hand and vicarious pain, disgust and fairness in insular and cingulate cortex. Nature Communications, 2016, 7, 10904.	12.8	140
41	Are strong empathizers better mentalizers? Evidence for independence and interaction between the routes of social cognition. Social Cognitive and Affective Neuroscience, 2016, 11, 1383-1392.	3.0	139
42	The Structure of Human Prosociality. Social Psychological and Personality Science, 2016, 7, 530-541.	3.9	138
43	Taking time to feel our body: Steady increases in heartbeat perception accuracy and decreases in alexithymia over 9 months of contemplative mental training. Psychophysiology, 2017, 54, 469-482.	2.4	127
44	Letting go of the present: Mind-wandering is associated with reduced delay discounting. Consciousness and Cognition, 2013, 22, 1-7.	1.5	123
45	Compassion-based emotion regulation up-regulates experienced positive affect and associated neural networks. Social Cognitive and Affective Neuroscience, 2015, 10, 1291-1301.	3.0	115
46	The role of emotions for moral judgments depends on the type of emotion and moral scenario.. Emotion, 2012, 12, 579-590.	1.8	112
47	Selective Disruption of Sociocognitive Structural Brain Networks in Autism and Alexithymia. Cerebral Cortex, 2014, 24, 3258-3267.	2.9	110
48	Phenomenological Fingerprints of Four Meditations: Differential State Changes in Affect, Mind-Wandering, Meta-Cognition, and Interoception Before and After Daily Practice Across 9 Months of Training. Mindfulness, 2017, 8, 218-231.	2.8	109
49	The painful side of empathy. Nature Neuroscience, 2005, 8, 845-846.	14.8	108
50	It matters what you practice: differential training effects on subjective experience, behavior, brain and body in the ReSource Project. Current Opinion in Psychology, 2019, 28, 151-158.	4.9	104
51	Specific reduction in cortisol stress reactivity after social but not attention-based mental training. Science Advances, 2017, 3, e1700495.	10.3	102
52	Skin Conductance Response to the Pain of Others Predicts Later Costly Helping. PLoS ONE, 2011, 6, e22759.	2.5	102
53	The past, present and future of social neuroscience: A European perspective. NeuroImage, 2012, 61, 437-449.	4.2	100
54	Exploring the Use of Thermal Infrared Imaging in Human Stress Research. PLoS ONE, 2014, 9, e90782.	2.5	100

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55	Cortisol increase in empathic stress is modulated by emotional closeness and observation modality. Psychoneuroendocrinology, 2014, 45, 192-201.	2.7	96
56	Socio-Cognitive Phenotypes Differentially Modulate Large-Scale Structural Covariance Networks. Cerebral Cortex, 2017, 27, bhv319.	2.9	89
57	Where the depressed mind wanders: Self-generated thought patterns as assessed through experience sampling as a state marker of depression. Journal of Affective Disorders, 2016, 198, 127-134.	4.1	88
58	Is meditation always relaxing? Investigating heart rate, heart rate variability, experienced effort and likeability during training of three types of meditation. International Journal of Psychophysiology, 2015, 97, 38-45.	1.0	87
59	Classifying the wandering mind: Revealing the affective content of thoughts during task-free rest periods. NeuroImage, 2014, 97, 107-116.	4.2	86
60	Social cognition in aggressive offenders: Impaired empathy, but intact theory of mind. Scientific Reports, 2017, 7, 670.	3.3	86
61	Distinct neural networks underlying empathy for pleasant and unpleasant touch. Cortex, 2015, 70, 79-89.	2.4	85
62	Differential benefits of mental training types for attention, compassion, and theory of mind. Cognition, 2020, 194, 104039.	2.2	84
63	White matter maturation is associated with the emergence of Theory of Mind in early childhood. Nature Communications, 2017, 8, 14692.	12.8	79
64	Implicit and explicit false belief development in preschool children. Developmental Science, 2017, 20, e12445.	2.4	78
65	Boosting recovery rather than buffering reactivity: Higher stress-induced oxytocin secretion is associated with increased cortisol reactivity and faster vagal recovery after acute psychosocial stress. Psychoneuroendocrinology, 2016, 74, 111-120.	2.7	74
66	Is self-generated thought a means of social problem solving?. Frontiers in Psychology, 2013, 4, 962.	2.1	72
67	The Neuroscience of Compassion and Empathy and Their Link to Prosocial Motivation and Behavior. , 2017, , 247-257.		72
68	The effects of social comparison on social emotions and behavior during childhood: The ontogeny of envy and Schadenfreude predicts developmental changes in equity-related decisions. Journal of Experimental Child Psychology, 2013, 115, 198-209.	1.4	69
69	Neural correlates of metacognitive ability and of feeling confident: a large-scale fMRI study. Social Cognitive and Affective Neuroscience, 2016, 11, 1942-1951.	3.0	68
70	Mind your thoughts: Associations between self-generated thoughts and stress-induced and baseline levels of cortisol and alpha-amylase. Biological Psychology, 2014, 103, 283-291.	2.2	66
71	Age-related differences in function and structure of rSMG and reduced functional connectivity with DLPFC explains heightened emotional egocentricity bias in childhood. Social Cognitive and Affective Neuroscience, 2015, 10, 302-310.	3.0	66
72	Preserved Self-other Distinction During Empathy in Autism is Linked to Network Integrity of Right Supramarginal Gyrus. Journal of Autism and Developmental Disorders, 2016, 46, 637-648.	2.7	66

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73	Effects of Contemplative Dyads on Engagement and Perceived Social Connectedness Over 9 Months of Mental Training. <i>JAMA Psychiatry</i> , 2017, 74, 126.	11.0	66
74	Medial prefrontal and anterior cingulate cortical thickness predicts shared individual differences in self-generated thought and temporal discounting. <i>NeuroImage</i> , 2014, 90, 290-297.	4.2	65
75	Differential Effects of Attention-, Compassion-, and Socio-Cognitively Based Mental Practices on Self-Reports of Mindfulness and Compassion. <i>Mindfulness</i> , 2017, 8, 1488-1512.	2.8	65
76	Plasticity and the ageing mind: an exemplar of the bio-cultural orchestration of brain and behaviour. <i>European Review</i> , 2001, 9, 59-76.	0.7	64
77	The effects of stress and affiliation on social decision-making: Investigating the tend-and-befriend pattern. <i>Psychoneuroendocrinology</i> , 2015, 62, 138-148.	2.7	64
78	Differential Roles of Fairness- and Compassion-Based Motivations for Cooperation, Defection, and Punishment. <i>Annals of the New York Academy of Sciences</i> , 2009, 1167, 41-50.	3.8	62
79	Facing Off with Unfair Others: Introducing Proxemic Imaging as an Implicit Measure of Approach and Avoidance during Social Interaction. <i>PLoS ONE</i> , 2015, 10, e0117532.	2.5	59
80	Structural changes in socio-affective networks: Multi-modal MRI findings in long-term meditation practitioners. <i>Neuropsychologia</i> , 2018, 116, 26-33.	1.6	58
81	Experiencing meditation – Evidence for differential effects of three contemplative mental practices in micro-phenomenological interviews. <i>Consciousness and Cognition</i> , 2018, 62, 82-101.	1.5	56
82	Functional magnetic resonance imaging (fMRI) item analysis of empathy and theory of mind. <i>Human Brain Mapping</i> , 2020, 41, 2611-2628.	3.6	52
83	The neural component-process architecture of endogenously generated emotion. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 197-211.	3.0	50
84	Distinct mental trainings differentially affect altruistically motivated, norm motivated, and self-reported prosocial behaviour. <i>Scientific Reports</i> , 2018, 8, 13560.	3.3	50
85	The Structure of Human Prosociality Revisited. <i>Social Psychological and Personality Science</i> , 2018, 9, 754-759.	3.9	49
86	Interacting and dissociable effects of alexithymia and depression on empathy. <i>Psychiatry Research</i> , 2018, 270, 631-638.	3.3	47
87	Illuminating the dark matter of social neuroscience: Considering the problem of social interaction from philosophical, psychological, and neuroscientific perspectives. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 190.	2.0	45
88	Empathy in depression: Egocentric and altercentric biases and the role of alexithymia. <i>Journal of Affective Disorders</i> , 2016, 199, 23-29.	4.1	45
89	Acute psychosocial stress increases serum BDNF levels: an antagonistic relation to cortisol but no group differences after mental training. <i>Neuropsychopharmacology</i> , 2019, 44, 1797-1804.	5.4	45
90	Social decision making in narcissism: Reduced generosity and increased retaliation are driven by alterations in perspective-taking and anger. <i>Personality and Individual Differences</i> , 2017, 104, 1-7.	2.9	44

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91	Structural Covariance Networks of the Dorsal Anterior Insula Predict Females' Individual Differences in Empathic Responding. <i>Cerebral Cortex</i> , 2014, 24, 2189-2198.	2.9	43
92	Models, Mechanisms and Moderators Dissociating Empathy and Theory of Mind. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 30, 193-206.	1.7	42
93	Longitudinal evidence for 4-year-olds' but not 2- and 3-year-olds' false belief-related action anticipation. <i>Cognitive Development</i> , 2018, 46, 58-68.	1.3	41
94	Know Thy Selves: Learning to Understand Oneself Increases the Ability to Understand Others. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2017, 1, 197-209.	1.6	40
95	Association of Short-term Change in Leukocyte Telomere Length With Cortical Thickness and Outcomes of Mental Training Among Healthy Adults. <i>JAMA Network Open</i> , 2019, 2, e199687.	5.9	40
96	Compassion meditators show less anger, less punishment, and more compensation of victims in response to fairness violations. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 424.	2.0	39
97	Preschool children and chimpanzees incur costs to watch punishment of antisocial others. <i>Nature Human Behaviour</i> , 2018, 2, 45-51.	12.0	39
98	Helping from the heart: Voluntary upregulation of heart rate variability predicts altruistic behavior. <i>Biological Psychology</i> , 2016, 119, 54-63.	2.2	38
99	Substrates of metacognition on perception and metacognition on higher-order cognition relate to different subsystems of the mentalizing network. <i>Human Brain Mapping</i> , 2016, 37, 3388-3399.	3.6	38
100	Two systems for thinking about others' thoughts in the developing brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6928-6935.	7.1	38
101	The Neuronal Basis of Empathy and Fairness. <i>Novartis Foundation Symposium</i> , 2008, , 20-40.	1.1	37
102	Stimulus-Driven Reorienting Impairs Executive Control of Attention: Evidence for a Common Bottleneck in Anterior Insula. <i>Cerebral Cortex</i> , 2016, 26, 4136-4147.	2.9	36
103	Physiophenomenology in retrospect: Memory reliably reflects physiological arousal during a prior threatening experience. <i>Consciousness and Cognition</i> , 2015, 38, 60-70.	1.5	34
104	Learning affective values for faces is expressed in amygdala and fusiform gyrus. <i>Social Cognitive and Affective Neuroscience</i> , 2008, 3, 109-118.	3.0	32
105	Study protocol of the ASD-Net, the German research consortium for the study of Autism Spectrum Disorder across the lifespan: from a better etiological understanding, through valid diagnosis, to more effective health care. <i>BMC Psychiatry</i> , 2017, 17, 206.	2.6	31
106	Projecting my envy onto you: Neurocognitive mechanisms of an offline emotional egocentricity bias. <i>NeuroImage</i> , 2014, 102, 370-380.	4.2	30
107	Affect and Motivation Are Critical in Constructive Meditation. <i>Trends in Cognitive Sciences</i> , 2016, 20, 159-160.	7.8	29
108	Exploring the multidimensional complex systems structure of the stress response and its relation to health and sleep outcomes. <i>Brain, Behavior, and Immunity</i> , 2018, 73, 390-402.	4.1	27

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109	Coping with the COVID-19 Pandemic: Perceived Changes in Psychological Vulnerability, Resilience and Social Cohesion before, during and after Lockdown. International Journal of Environmental Research and Public Health, 2022, 19, 3290.	2.6	26
110	Voluntary upregulation of heart rate variability through biofeedback is improved by mental contemplative training. Scientific Reports, 2019, 9, 7860.	3.3	25
111	Understanding Others. , 2014, , 513-532.		22
112	Introducing the Wunderkammer as a tool for emotion research: Unconstrained gaze and movement patterns in three emotionally evocative virtual worlds. Computers in Human Behavior, 2016, 59, 93-107.	8.5	22
113	The neuronal basis of empathy and fairness. Novartis Foundation Symposium, 2007, 278, 20-30; discussion 30-40, 89-96, 216-21.	1.1	22
114	You Turn Me Cold: Evidence for Temperature Contagion. PLoS ONE, 2014, 9, e116126.	2.5	19
115	Children's Increased Emotional Egocentricity Compared to Adults Is Mediated by Age-Related Differences in Conflict Processing. Child Development, 2015, 86, 765-780.	3.0	19
116	Clinical trial of modulatory effects of oxytocin treatment on higher-order social cognition in autism spectrum disorder: a randomized, placebo-controlled, double-blind and crossover trial. BMC Psychiatry, 2016, 16, 329.	2.6	19
117	Interactions of momentary thought content and subjective stress predict cortisol fluctuations in a daily life experience sampling study. Scientific Reports, 2018, 8, 15462.	3.3	19
118	Association between hippocampal structure and serum Brain-Derived Neurotrophic Factor (BDNF) in healthy adults: A registered report. Neurolmage, 2021, 236, 118011.	4.2	19
119	The wandering mind in borderline personality disorder: Instability in self- and other-related thoughts. Psychiatry Research, 2016, 242, 302-310.	3.3	18
120	Cooperation, motivation and social balance. Journal of Economic Behavior and Organization, 2016, 126, 72-94.	2.0	18
121	Investigating differential effects of socio-emotional and mindfulness-based online interventions on mental health, resilience and social capacities during the COVID-19 pandemic: The study protocol. PLoS ONE, 2021, 16, e0256323.	2.5	18
122	Where the Narcissistic Mind Wanders: Increased Self-Related Thoughts are More Positive and Future Oriented. Journal of Personality Disorders, 2017, 31, 553-566.	1.4	17
123	Differential impact of emotional task relevance on three indices of prioritised processing for fearful and angry facial expressions. Cognition and Emotion, 2017, 31, 175-184.	2.0	16
124	Cortisol stress resonance in the laboratory is associated with inter-couple diurnal cortisol covariation in daily life. Hormones and Behavior, 2018, 98, 183-190.	2.1	15
125	Caring Cooperators and Powerful Punishers: Differential Effects of Induced Care and Power Motivation on Different Types of Economic Decision Making. Scientific Reports, 2017, 7, 11068.	3.3	13
126	Change in emotional self-concept following socio-cognitive training relates to structural plasticity of the prefrontal cortex. Brain and Behavior, 2018, 8, e00940.	2.2	13

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127	Neural mechanisms of affective matching across faces and scenes. Scientific Reports, 2019, 9, 1492.	3.3	13
128	Socioaffective versus sociocognitive mental trainings differentially affect emotion regulation strategies.. Emotion, 2019, 19, 1329-1342.	1.8	13
129	Contemplative Mental Training Reduces Hair Glucocorticoid Levels in a Randomized Clinical Trial. Psychosomatic Medicine, 2021, 83, 894-905.	2.0	12
130	Decreased emotional reactivity after 3-month socio-affective but not attention- or meta-cognitive-based mental training: A randomized, controlled, longitudinal fMRI study. Neurolmage, 2021, 237, 118132.	4.2	12
131	Cortisol stress resonance in the laboratory is associated with inter-couple diurnal cortisol covariation in daily life. Psychoneuroendocrinology, 2017, 83, 1.	2.7	10
132	Who am I? Differential effects of three contemplative mental trainings on emotional word use in self-descriptions. Self and Identity, 2017, 16, 607-628.	1.6	9
133	Only vulnerable adults show change in chronic low-grade inflammation after contemplative mental training: evidence from a randomized clinical trial. Scientific Reports, 2019, 9, 19323.	3.3	9
134	The Wither or Thrive Model of Resilience: an Integrative Framework of Dynamic Vulnerability and Resilience in the Face of Repeated Stressors During the COVID-19 Pandemic. Adversity and Resilience Science, 2022, 3, 261-282.	2.6	7
135	Exploring the Structure and Interrelations of Time-Stable Psychological Resilience, Psychological Vulnerability, and Social Cohesion. Frontiers in Psychiatry, 2022, 13, 804763.	2.6	6
136	The Compassionate Brain. , 2017, , .		5
137	Navigating Motivation: A Semantic and Subjective Atlas of 7 Motives. Frontiers in Psychology, 2020, 11, 568064.	2.1	5
138	Plasma oxytocin is modulated by mental training, but does not mediate its stress-buffering effect. Psychoneuroendocrinology, 2022, 141, 105734.	2.7	5
139	Investigating the impact of distinct contemplative mental trainings on daily life stress, thoughts and affectâ€”Evidence from a nine-month longitudinal ecological momentary assessment study. Psychoneuroendocrinology, 2022, 142, 105800.	2.7	3
140	Endogenous emotion generation ability is associated with the capacity to form multimodal internal representations. Scientific Reports, 2018, 8, 1953.	3.3	2
141	Cooperation across multiple game theoretical paradigms is increased by fear more than anger in selfish individuals. Scientific Reports, 2021, 11, 9351.	3.3	2
142	Contemplative mental training increases serum BDNF levels with differing success depending on practice type and training sequence. Psychoneuroendocrinology, 2020, 119, 105010.	2.7	0
143	Development of functional network architecture explains changes in children's altruistically motivated helping. Developmental Science, 2022, 25, e13167.	2.4	0