Michael I Posner

List of Publications by Year
in descending order

157 papers	52,214 citations	12330 69 h-index	9861 141 g-index
168 all docs	168 docs citations	168 times ranked	29185 citing authors

#	Article	IF	Citations
1	Orienting of Attention. The Quarterly Journal of Experimental Psychology, 1980, 32, 3-25.	1.2	7,757
2	The Attention System of the Human Brain. Annual Review of Neuroscience, 1990, 13, 25-42.	10.7	6,835
3	Cognitive and emotional influences in anterior cingulate cortex. Trends in Cognitive Sciences, 2000, 4, 215-222.	7.8	5,600
4	Testing the Efficiency and Independence of Attentional Networks. Journal of Cognitive Neuroscience, 2002, 14, 340-347.	2.3	2,940
5	The Attention System of the Human Brain: 20 Years After. Annual Review of Neuroscience, 2012, 35, 73-89.	10.7	2,350
6	The neuroscience of mindfulness meditation. Nature Reviews Neuroscience, 2015, 16, 213-225.	10.2	1,701
7	The activation of attentional networks. NeuroImage, 2005, 26, 471-479.	4.2	1,400
8	Short-term meditation training improves attention and self-regulation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17152-17156.	7.1	1,173
9	Research on Attention Networks as a Model for the Integration of Psychological Science. Annual Review of Psychology, 2007, 58, 1-23.	17.7	1,164
10	Developing mechanisms of self-regulation. Development and Psychopathology, 2000, 12, 427-441.	2.3	1,123
11	Localization of a Neural System for Error Detection and Compensation. Psychological Science, 1994, 5, 303-305.	3.3	1,090
12	Development of attentional networks in childhood. Neuropsychologia, 2004, 42, 1029-1040.	1.6	1,060
13	Inhibition of return: Neural basis and function. Cognitive Neuropsychology, 1985, 2, 211-228.	1.1	1,026
14	From The Cover: Training, maturation, and genetic influences on the development of executive attention. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14931-14936.	7.1	912
15	Cognitive and Brain Consequences of Conflict. NeuroImage, 2003, 18, 42-57.	4.2	612
16	The Development of Executive Attention: Contributions to the Emergence of Self-Regulation. Developmental Neuropsychology, 2005, 28, 573-594.	1.4	586
17	Developing Mechanisms of Temperamental Effortful Control. Journal of Personality, 2003, 71, 1113-1144.	3.2	499
18	How do the parietal lobes direct covert attention?. Neuropsychologia, 1987, 25, 135-145.	1.6	496

#	Article	IF	Citations
19	Executive Attention and Metacognitive Regulation. Consciousness and Cognition, 2000, 9, 288-307.	1.5	489
20	Components of Visual Orienting in Early Infancy: Contingency Learning, Anticipatory Looking, and Disengaging. Journal of Cognitive Neuroscience, 1991, 3, 335-344.	2.3	450
21	Developing Mechanisms of Self-Regulation in Early Life. Emotion Review, 2011, 3, 207-213.	3.4	412
22	Mapping the genetic variation of executive attention onto brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7406-7411.	7.1	407
23	Short-term meditation induces white matter changes in the anterior cingulate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15649-15652.	7.1	404
24	Attention training and attention state training. Trends in Cognitive Sciences, 2009, 13, 222-227.	7.8	402
25	Testing the behavioral interaction and integration of attentional networks. Brain and Cognition, 2009, 70, 209-220.	1.8	367
26	Asymmetries in Hemispheric Control of Attention in Schizophrenia. Archives of General Psychiatry, 1988, 45, 814.	12.3	349
27	Failure of Frontolimbic Inhibitory Function in the Context of Negative Emotion in Borderline Personality Disorder. American Journal of Psychiatry, 2007, 164, 1832-1841.	7.2	333
28	Parenting quality interacts with genetic variation in dopamine receptor D4 to influence temperament in early childhood. Development and Psychopathology, 2007, 19, 1039-1046.	2.3	319
29	The anterior cingulate gyrus and the mechanism of self-regulation. Cognitive, Affective and Behavioral Neuroscience, 2007, 7, 391-395.	2.0	314
30	Development of executive attention in preschool children. Developmental Science, 2003, 6, 498-504.	2.4	303
31	Measuring Alertness. Annals of the New York Academy of Sciences, 2008, 1129, 193-199.	3.8	296
32	Assessing the molecular genetics of attention networks. BMC Neuroscience, 2002, 3, 14.	1.9	290
33	Mechanisms of white matter changes induced by meditation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10570-10574.	7.1	289
34	Evaluation of Attention Process Training and Brain Injury Education in Persons with Acquired Brain Injury. Journal of Clinical and Experimental Neuropsychology, 2000, 22, 656-676.	1.3	271
35	The Relation of Brain Oscillations to Attentional Networks. Journal of Neuroscience, 2007, 27, 6197-6206.	3.6	242
36	Assessing the heritability of attentional networks. BMC Neuroscience, 2001, 2, 14.	1.9	232

#	Article	IF	Citations
37	Attentional mechanisms of borderline personality disorder. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16366-16370.	7.1	228
38	Educating the human brain.. , 2007, , .		214
39	ORIENTING OF VISUAL ATTENTION IN PROGRESSIVE SUPRANUCLEAR PALSY. Brain, 1988, 111, 267-280.	7.6	211
40	Relating the mechanisms of orienting and alerting. Neuropsychologia, 1997, 35, 477-486.	1.6	208
41	Spatiotemporal analysis of brain electrical fields. Human Brain Mapping, 1994, 1, 134-152.	3.6	204
42	Executive Attention and Effortful Control: Linking Temperament, Brain Networks, and Genes. Child Development Perspectives, 2007, 1, 2-7.	3.9	196
43	Neural correlates of establishing, maintaining, and switching brain states. Trends in Cognitive Sciences, 2012, 16, 330-337.	7.8	196
44	Developing Attention: Behavioral and Brain Mechanisms. Advances in Neuroscience (Hindawi), 2014, 2014, 1-9.	3.1	187
45	Analyzing and shaping human attentional networks. Neural Networks, 2006, 19, 1422-1429.	5.9	181
46	Toward a physical basis of attention and self-regulationâ˜†. Physics of Life Reviews, 2009, 6, 103-120.	2.8	179
47	Influencing brain networks: implications for education. Trends in Cognitive Sciences, 2005, 9, 99-103.	7.8	174
48	Control networks and neuromodulators of early development.. Developmental Psychology, 2012, 48, 827-835.	1.6	174
49	Development of the time course for processing conflict: an event-related potentials study with 4 year olds and adults. BMC Neuroscience, 2004, 5, 39.	1.9	167
50	Circuitry of self-control and its role in reducing addiction. Trends in Cognitive Sciences, 2015, 19, 439-444.	7.8	163
51	Recognition of visual letter strings following injury to the posterior visual spatial attention system. Cognitive Neuropsychology, 1988, 5, 427-449.	1.1	162
52	Activating Tasks for the Study of Visual-Spatial Attention in ADHD Children: A Cognitive Anatomic Approach. Journal of Child Neurology, 1991, 6, S119-S127.	1.4	162
53	Mindfulness meditation improves emotion regulation and reduces drug abuse. Drug and Alcohol Dependence, 2016, 163, S13-S18.	3.2	161
54	Time Course of Activating Brain Areas in Generating Verbal Associations. Psychological Science, 1997, 8, 56-59.	3.3	159

#	Article	IF	Citations
55	Orienting of Attention: Then and Now. Quarterly Journal of Experimental Psychology, 2016, 69, 1864-1875.	1.1	159
56	Brief meditation training induces smoking reduction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13971-13975.	7.1	154
57	Infant brains detect arithmetic errors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12649-12653.	7.1	152
58	Human Attentional Networks. Psychiatrische Praxis, Supplement, 2004, 31, 210-214.	0.0	151
59	Selective impairment of attentional networks of orienting and executive control in schizophrenia. Schizophrenia Research, 2005, 78, 235-241.	2.0	147
60	The Functional Integration of the Anterior Cingulate Cortex during Conflict Processing. Cerebral Cortex, 2008, 18, 796-805.	2.9	147
61	Attention genes. Developmental Science, 2007, 10, 24-29.	2.4	146
62	Executive attention and self-regulation in infancy. , 2008, 31, 501-510.		134
63	Training brain networks and states. Trends in Cognitive Sciences, 2014, 18, 345-350.	7.8	132
64	Brain Mechanisms of Cognitive Skills. Consciousness and Cognition, 1997, 6, 267-290.	1.5	131
65	Attention as an organ system. , 2008, , 31-61.		131
66	Frontal and inferior temporal cortical activity in visual target detection: Evidence from high spatially sampled event-related potentials. Brain Topography, 1996, 9, 3-14.	1.8	129
67	Imaging attention networks. NeuroImage, 2012, 61, 450-456.	4.2	122
68	Psychobiology of Attention. , 1975, , 441-480.		111
69	Functional MRI evidence for inefficient attentional control in adolescent chronic cannabis abuse. Behavioural Brain Research, 2010, 215, 45-57.	2.2	96
70	The developing brain in a multitasking world. Developmental Review, 2015, 35, 42-63.	4.7	79
71	Genes and experience in the development of executive attention and effortful control. New Directions for Child and Adolescent Development, 2005, 2005, 101-108.	2.2	77
72	Attentional Networks and Consciousness. Frontiers in Psychology, 2012, 3, 64.	2.1	74

#	Article	IF	Citations
73	The impact of poverty on the development of brain networks. Frontiers in Human Neuroscience, 2012, 6, 238.	2.0	74
74	Development of the functional visual field. Acta Psychologica, 2001, 106, 51-68.	1.5	73
75	Individual Differences in Executive Attention Predict Self-Regulation and Adolescent Psychosocial Behaviors. Annals of the New York Academy of Sciences, 2004, 1021, 337-340.	3.8	72
76	Meditation improves selfâ€regulation over the life span. Annals of the New York Academy of Sciences, 2014, 1307, 104-111.	3.8	72
77	Temperament and brain networks of attention. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170254.	4.0	71
78	Short-term meditation induces changes in brain resting EEG theta networks. Brain and Cognition, 2014, 87, 1-6.	1.8	68
79	Enhancing attention through training. Current Opinion in Behavioral Sciences, 2015, 4, 1-5.	3.9	67
80	Tools of the trade: theory and method in mindfulness neuroscience. Social Cognitive and Affective Neuroscience, 2013, 8, 118-120.	3.0	63
81	Short-term meditation modulates brain activity of insight evoked with solution cue. Social Cognitive and Affective Neuroscience, 2015, 10, 43-49.	3.0	62
82	Developing brain networks of attention. Current Opinion in Pediatrics, 2016, 28, 720-724.	2.0	62
83	14 Attention and the Control of Movements. Advances in Psychology, 1980, 1, 243-258.	0.1	58
84	Traits and states in mindfulness meditation. Nature Reviews Neuroscience, 2016, 17, 59-59.	10.2	54
85	A Polymorphism Related to Methylation Influences Attention during Performance of Speeded Skills. AIMS Neuroscience, 2016, 3, 40-55.	2.3	54
86	Seeing the mind. Science, 1993, 262, 673-674.	12.6	52
87	Attentional Phenotypes for the Analysis of Higher Mental Function. Scientific World Journal, The, 2002, 2, 217-223.	2.1	51
88	Cortisol Level Modulated by Integrative Meditation in a Doseâ€dependent Fashion. Stress and Health, 2014, 30, 65-70.	2.6	49
89	Methylation polymorphism influences practice effects in children during attention tasks. Cognitive Neuroscience, 2017, 8, 72-84.	1.4	49
90	Short-term meditation increases blood flow in anterior cingulate cortex and insula. Frontiers in Psychology, 2015, 6, 212.	2.1	47

#	Article	IF	Citations
91	Frontal theta activity and white matter plasticity following mindfulness meditation. Current Opinion in Psychology, 2019, 28, 294-297.	4.9	46
92	Mechanisms of white matter change induced by meditation training. Frontiers in Psychology, 2014, 5, 1220.	2.1	45
93	PrÃ©cis of Images of Mind. Behavioral and Brain Sciences, 1995, 18, 327-339.	0.7	44
94	Genetic variation influences on the early development of reactive emotions and their regulation by attention. Cognitive Neuropsychiatry, 2009, 14, 332-355.	1.3	44
95	Short Term Integrative Meditation Improves Resting Alpha Activity and Stroop Performance. Applied Psychophysiology Biofeedback, 2014, 39, 213-217.	1.7	37
96	Rhythmic brain stimulation reduces anxiety-related behavior in a mouse model based on meditation training. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2532-2537.	7.1	37
97	Changes in white matter in mice resulting from low-frequency brain stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6339-E6346.	7.1	35
98	Attention to learning of school subjects. Trends in Neuroscience and Education, 2014, 3, 14-17.	3.1	34
99	Mucosal Immunity Modulated by Integrative Meditation in a Dose-Dependent Fashion. Journal of Alternative and Complementary Medicine, 2010, 16, 151-155.	2.1	33
100	Flexible neural circuitry in word processing. Behavioral and Brain Sciences, 1999, 22, 299-300.	0.7	30
101	Emotional modulation of attention orienting: A classical conditioning study. Scandinavian Journal of Psychology, 1999, 40, 91-99.	1.5	30
102	Imaging a science of mind. Trends in Cognitive Sciences, 2003, 7, 450-453.	7.8	28
103	Hebb's Neural Networks Support the Integration of Psychological Science.. Canadian Psychology, 2004, 45, 265-278.	2.1	28
104	The Dopamine Receptor D4 Gene 7-Repeat Allele Interacts with Parenting Quality to Predict Effortful Control in Four-Year-Old Children. Child Development Research, 2012, 2012, 1-6.	1.9	28
105	Priming reduces input activity in right posterior cortex during stem completion. NeuroReport, 1996, 7, 2975-2978.	1.2	23
106	A parallel interface for language and cognition in sentence production: Theory, method, and experimental evidence. Linguistic Review, 2007, 24, .	0.4	23
107	Developing self-regulation in early childhood. Trends in Neuroscience and Education, 2013, 2, 107-110.	3.1	22
108	Time course of conflict processing modulated by brief meditation training. Frontiers in Psychology, 2015, 6, 911.	2.1	22

#	Article	IF	Citations
109	Effortless training of attention and self-control: mechanisms and applications. Trends in Cognitive Sciences, 2022, 26, 567-577.	7.8	18
110	Progress in the Neural Sciences in the Century after Cajal (and the Mysteries That Remain). Annals of the New York Academy of Sciences, 2001, 929, 11-40.	3.8	17
111	Anxiety and Brain Networks of Attentional Control. Cognitive and Behavioral Neurology, 2019, 32, 54-62.	0.9	15
112	Restoring Attention Networks. Yale Journal of Biology and Medicine, 2019, 92, 139-143.	0.2	14
113	Mental Chronometry in the Study of Individual and Group Differences. Journal of Clinical and Experimental Neuropsychology, 2002, 24, 968-976.	1.3	13
114	Genes and experience shape brain networks of conscious control. Progress in Brain Research, 2005, 150, 173-183.	1.4	13
115	Brain states and hypnosis research. Consciousness and Cognition, 2011, 20, 325-327.	1.5	13
116	How changes in white matter might underlie improved reaction time due to practice. Cognitive Neuroscience, 2017, 8, 112-118.	1.4	13
117	Convergence of psychological and biological development. Developmental Psychobiology, 2002, 40, 339-343.	1.6	12
118	Expanding horizons in ergonomics research. NeuroImage, 2012, 59, 149-153.	4.2	12
119	Reduced Attention and the Performance of â€œAutomatedâ€•Movements. Journal of Motor Behavior, 1969, 1, 245-258.	0.9	11
120	Developing brains: the work of the Sackler Institute. Clinical Neuroscience Research, 2001, 1, 258-266.	0.8	11
121	Local and distributed processes in attentional orienting. Behavioral and Brain Sciences, 1994, 17, 78-79.	0.7	10
122	Integrating brain, cognition and culture. Journal of Cultural Cognitive Science, 2017, 1, 3-15.	1.1	8
123	Neglect and spatial attention. Neuropsychological Rehabilitation, 1994, 4, 183-187.	1.6	7
124	Exploring the Biology of Socialization. Annals of the New York Academy of Sciences, 2001, 935, 208-216.	3.8	7
125	General intelligence in the age of neuroimaging. Trends in Neuroscience and Education, 2020, 18, 100126.	3.1	7
126	Adaptationism and molecular biology: An example based on ADHD. Behavioral and Brain Sciences, 2002, 25, .	0.7	6

#	Article	IF	Citations
127	Brain mechanisms and learning of high level skills. , 0, , 151-165.		6
128	Diversity in action: exchange of perspectives and reflections on taxonomies of individual differences. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170172.	4.0	6
129	Rehabilitating the brain through meditation and electrical stimulation. Cortex, 2020, 122, 6-9.	2.4	6
130	Differential Involvement of Three Brain Regions during Mouse Skill Learning. ENeuro, 2019, 6, ENEURO.0143-19.2019.	1.9	6
131	Individual differences in temperament and the efficiency of brain networks. Current Opinion in Behavioral Sciences, 2022, 43, 242-248.	3.9	6
132	Decision Making as a Learned Skill in Mice and Humans. Frontiers in Neuroscience, 2022, 16, 834701.	2.8	6
133	Self-Regulation and Adolescent Drug Use: Translating Developmental Science and Neuroscience into Prevention Practice. , 2011, , 281-301.		5
134	Illuminating the Neural Circuits Underlying Orienting of Attention. Vision (Switzerland), 2019, 3, 4.	1.2	4
135	Developing attention in typical children related to disabilities. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 173, 215-223.	1.8	4
136	Cognitive neuroscience. Current Opinion in Neurobiology, 1998, 8, 175-177.	4.2	3
137	Contributions of Hebb and Vygotsky to an Integrated Science of Mind. Journal of the History of the Neurosciences, 2013, 22, 292-306.	0.9	3
138	Parenting and Human Brain Development. , 2018, , 173-199.		3
139	Comparing Chronometrie methods. Behavioral and Brain Sciences, 1979, 2, 276-276.	0.7	2
140	Interaction of method and theory in cognitive neuroscience. Behavioral and Brain Sciences, 1995, 18, 372-383.	0.7	2
141	Mindfulness and Training Attention. , 2015, , 23-32.		2
142	Controlling Fear Over the Lifespan. American Journal of Psychiatry, 2019, 176, 974-975.	7.2	2
143	Temperament and Brain Networks of Attention. , 2020, , 155-168.		2
144	Increasing the amplitude of intrinsic theta in the human brain. AIMS Neuroscience, 2020, 7, 418-437.	2.3	2

#	Article	IF	Citations
145	Genetic and Experiential Factors in Brain Development. , 2022, , 105-121.		2
146	Chronometric measures of g. Behavioral and Brain Sciences, 1985, 8, 237-238.	0.7	1
147	Commentary on â€œBecoming Aware of Feelingsâ€. Neuropsychoanalysis, 2005, 7, 55-57.	0.7	1
148	Can Attention Itself Be Trained? Attention Training for Children At-Risk for ADHD. Medical Psychiatry, 2007, , 397-409.	0.2	1
149	Oscar Marin and the Creation of a Cognitive Neuropsychology Laboratory. Cognitive and Behavioral Neurology, 2015, 28, 129-133.	0.9	1
150	Dopaminergic excess or dysregulation?. Behavioral and Brain Sciences, 1991, 14, 26-26.	0.7	0
151	Bridging Cognitive And Neural Aspects Of Classroom Learning. , 2009, , .		0
152	White matter and reaction time: Reply to commentaries. Cognitive Neuroscience, 2017, 8, 137-140.	1.4	0
153	Attention: Awareness and Control. , 2019, , 111-134.		0
154	Enhancing Cognition. , 2021, , 367-381.		0
155	Do You Suppose That, in Addition to the Sensorimotor Isolation of REM, There Is Impairment of Intrinsic Attentional Processes That We Experience as an Inability to Observe and Think in Our Dreams?. Vienna Circle Institute Library, 2014, , 187-188.	0.1	0
156	Willpower and Brain Networks. ISSBD Bulletin, 2012, 2012, 7-10.	1.0	0
157	Nominations for the Editorship of Psychobiology. Cognitive, Affective and Behavioral Neuroscience, 1999, 27, 139-139.	1.3	0