

Mathias Benedek

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

11,999
citations

41258

49
h-index

32761

100
g-index

120
all docs

120
docs citations

120
times ranked

6760
citing authors

#	ARTICLE	IF	CITATIONS
1	A continuous measure of phasic electrodermal activity. <i>Journal of Neuroscience Methods</i> , 2010, 190, 80-91.	1.3	1,130
2	Creative Cognition and Brain Network Dynamics. <i>Trends in Cognitive Sciences</i> , 2016, 20, 87-95.	4.0	680
3	Robust prediction of individual creative ability from brain functional connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1087-1092.	3.3	562
4	Intelligence, creativity, and cognitive control: The common and differential involvement of executive functions in intelligence and creativity. <i>Intelligence</i> , 2014, 46, 73-83.	1.6	475
5	Default and Executive Network Coupling Supports Creative Idea Production. <i>Scientific Reports</i> , 2015, 5, 10964.	1.6	475
6	The creative brain: Investigation of brain activity during creative problem solving by means of EEG and fMRI. <i>Human Brain Mapping</i> , 2009, 30, 734-748.	1.9	410
7	EEG alpha power and creative ideation. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 44, 111-123.	2.9	387
8	Creativity and the default network: A functional connectivity analysis of the creative brain at rest. <i>Neuropsychologia</i> , 2014, 64, 92-98.	0.7	345
9	The relationship between intelligence and creativity: New support for the threshold hypothesis by means of empirical breakpoint detection. <i>Intelligence</i> , 2013, 41, 212-221.	1.6	318
10	The roles of associative and executive processes in creative cognition. <i>Memory and Cognition</i> , 2014, 42, 1186-1197.	0.9	318
11	To create or to recall? Neural mechanisms underlying the generation of creative new ideas. <i>NeuroImage</i> , 2014, 88, 125-133.	2.1	310
12	Decomposition of skin conductance data by means of nonnegative deconvolution. <i>Psychophysiology</i> , 2010, 47, 647-58.	1.2	290
13	Alpha power increases in right parietal cortex reflects focused internal attention. <i>Neuropsychologia</i> , 2014, 56, 393-400.	0.7	280
14	Differential effects of cognitive inhibition and intelligence on creativity. <i>Personality and Individual Differences</i> , 2012, 53, 480-485.	1.6	262
15	The Road to Creative Achievement: A Latent Variable Model of Ability and Personality Predictors. <i>European Journal of Personality</i> , 2014, 28, 95-105.	1.9	243
16	Associative abilities underlying creativity.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2012, 6, 273-281.	1.0	235
17	EEG alpha synchronization is related to top-down processing in convergent and divergent thinking. <i>Neuropsychologia</i> , 2011, 49, 3505-3511.	0.7	222
18	Creating metaphors: The neural basis of figurative language production. <i>NeuroImage</i> , 2014, 90, 99-106.	2.1	205

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19	Creativity meets neuroscience: Experimental tasks for the neuroscientific study of creative thinking. <i>Methods</i> , 2007, 42, 68-76.	1.9	190
20	Are creative ideas novel and useful?. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2015, 9, 35-40.	1.0	177
21	Is creativity without intelligence possible? A Necessary Condition Analysis. <i>Intelligence</i> , 2016, 57, 105-117.	1.6	174
22	Personality and complex brain networks: The role of openness to experience in default network efficiency. <i>Human Brain Mapping</i> , 2016, 37, 773-779.	1.9	172
23	Physiological correlates and emotional specificity of human piloerection. <i>Biological Psychology</i> , 2011, 86, 320-329.	1.1	170
24	Revisiting Mednick's Model on Creativity-Related Differences in Associative Hierarchies. Evidence for a Common Path to Uncommon Thought. <i>Journal of Creative Behavior</i> , 2013, 47, 273-289.	1.6	160
25	Toward a neurocognitive framework of creative cognition: the role of memory, attention, and cognitive control. <i>Current Opinion in Behavioral Sciences</i> , 2019, 27, 116-122.	2.0	154
26	Assessment of divergent thinking by means of the subjective top-scoring method: Effects of the number of top-ideas and time-on-task on reliability and validity.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2013, 7, 341-349.	1.0	149
27	Neural efficiency as a function of task demands. <i>Intelligence</i> , 2014, 42, 22-30.	1.6	144
28	Creative constraints: Brain activity and network dynamics underlying semantic interference during idea production. <i>NeuroImage</i> , 2017, 148, 189-196.	2.1	136
29	Divergent thinking training is related to frontal electroencephalogram alpha synchronization. <i>European Journal of Neuroscience</i> , 2006, 23, 2241-2246.	1.2	133
30	Tackling creativity at its roots: Evidence for different patterns of EEG alpha activity related to convergent and divergent modes of task processing. <i>International Journal of Psychophysiology</i> , 2012, 84, 219-225.	0.5	130
31	How semantic memory structure and intelligence contribute to creative thought: a network science approach. <i>Thinking and Reasoning</i> , 2017, 23, 158-183.	2.1	124
32	Stimulating creativity via the exposure to other people's ideas. <i>Human Brain Mapping</i> , 2012, 33, 2603-2610.	1.9	117
33	Brain mechanisms associated with internally directed attention and self-generated thought. <i>Scientific Reports</i> , 2016, 6, 22959.	1.6	114
34	Assessment of real-life creativity: The Inventory of Creative Activities and Achievements (ICAA).. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2018, 12, 304-316.	1.0	107
35	The time-course of EEG alpha power changes in creative ideation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 310.	1.0	100
36	Creativity and the Stroop interference effect. <i>Personality and Individual Differences</i> , 2014, 69, 38-42.	1.6	93

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37	Gray matter correlates of creative potential: A latent variable voxel-based morphometry study. <i>NeuroImage</i> , 2015, 111, 312-320.	2.1	92
38	Enhancement of Ideational Fluency by Means of Computer-Based Training. <i>Creativity Research Journal</i> , 2006, 18, 317-328.	1.7	79
39	Creativity and schizotypy from the neuroscience perspective. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 378-387.	1.0	72
40	The Relationship between Grandiose and Vulnerable (Hypersensitive) Narcissism. <i>Frontiers in Psychology</i> , 2017, 8, 1600.	1.1	72
41	Gray matter density in relation to different facets of verbal creativity. <i>Brain Structure and Function</i> , 2014, 219, 1263-1269.	1.2	71
42	To create or to recall original ideas: Brain processes associated with the imagination of novel object uses. <i>Cortex</i> , 2018, 99, 93-102.	1.1	71
43	Assessment of creativity evaluation skills: A psychometric investigation in prospective teachers. <i>Thinking Skills and Creativity</i> , 2016, 21, 75-84.	1.9	70
44	Creativity and personality in classical, jazz and folk musicians. <i>Personality and Individual Differences</i> , 2014, 63, 117-121.	1.6	65
45	Sex differences in the IQ-white matter microstructure relationship: A DTI study. <i>Brain and Cognition</i> , 2014, 91, 71-78.	0.8	62
46	Training of verbal creativity modulates brain activity in regions associated with language and memory-related demands. <i>Human Brain Mapping</i> , 2015, 36, 4104-4115.	1.9	62
47	Brain networks underlying novel metaphor production. <i>Brain and Cognition</i> , 2017, 111, 163-170.	0.8	59
48	Default network contributions to episodic and semantic processing during divergent creative thinking: A representational similarity analysis. <i>NeuroImage</i> , 2020, 209, 116499.	2.1	56
49	Motives for Creativity: Exploring the What and Why of Everyday Creativity. <i>Journal of Creative Behavior</i> , 2020, 54, 610-625.	1.6	55
50	Intelligence in creative processes: An EEG study. <i>Intelligence</i> , 2015, 49, 171-178.	1.6	54
51	Eye Behavior Associated with Internally versus Externally Directed Cognition. <i>Frontiers in Psychology</i> , 2017, 8, 1092.	1.1	54
52	Core Network Contributions to Remembering the Past, Imagining the Future, and Thinking Creatively. <i>Journal of Cognitive Neuroscience</i> , 2018, 30, 1939-1951.	1.1	54
53	Creativity assessment in neuroscience research.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2019, 13, 218-226.	1.0	53
54	EEG alpha activity during imagining creative moves in soccer decision-making situations. <i>Neuropsychologia</i> , 2018, 114, 118-124.	0.7	52

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55	Looking for ideas: Eye behavior during goal-directed internally focused cognition. <i>Consciousness and Cognition</i> , 2017, 53, 165-175.	0.8	48
56	Creative ideation, broad retrieval ability, and processing speed: A confirmatory study of nested cognitive abilities. <i>Intelligence</i> , 2019, 75, 59-72.	1.6	48
57	The Relationship between Intelligence and Divergent Thinkingâ€”A Meta-Analytic Update. <i>Journal of Intelligence</i> , 2021, 9, 23.	1.3	47
58	The role of creative potential and intelligence for humor production.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2017, 11, 52-58.	1.0	45
59	Creativity is associated with a characteristic U-shaped function of alpha power changes accompanied by an early increase in functional coupling. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2019, 19, 1012-1021.	1.0	45
60	Elements of creative thought: Investigating the cognitive and neural correlates of association and bi-association processes. <i>NeuroImage</i> , 2020, 210, 116586.	2.1	45
61	Investigating Neural Efficiency in the Visuo-Spatial Domain: An fmri Study. <i>PLoS ONE</i> , 2012, 7, e51316.	1.1	40
62	Creativity on tap? Effects of alcohol intoxication on creative cognition. <i>Consciousness and Cognition</i> , 2017, 56, 128-134.	0.8	40
63	Internally Directed Attention in Creative Cognition. , 0, , 180-194.		40
64	Creativity and psychopathology: are there similar mental processes involved in creativity and in psychosis-proneness?. <i>Frontiers in Psychology</i> , 2014, 5, 1211.	1.1	37
65	Effects of alpha and gamma transcranial alternating current stimulation (tACS) on verbal creativity and intelligence test performance. <i>Neuropsychologia</i> , 2018, 118, 91-98.	0.7	35
66	Applying many-facet Rasch modeling in the assessment of creativity.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2019, 13, 176-186.	1.0	33
67	Creativity and Cognitive Control. , 2019, , 200-223.		30
68	Brain connectivityâ€”based prediction of real-life creativity is mediated by semantic memory structure. <i>Science Advances</i> , 2022, 8, eabl4294.	4.7	30
69	The influence of transcranial alternating current stimulation (tACS) on fluid intelligence: An fMRI study. <i>Personality and Individual Differences</i> , 2017, 118, 50-55.	1.6	29
70	Brain and soccer: Functional patterns of brain activity during the generation of creative moves in real soccer decisionâ€”making situations. <i>Human Brain Mapping</i> , 2019, 40, 755-764.	1.9	27
71	Functional coupling of brain networks during creative idea generation and elaboration in the figural domain. <i>NeuroImage</i> , 2020, 207, 116395.	2.1	27
72	An investigation of the cognitive and neural correlates of semantic memory search related to creative ability. <i>Communications Biology</i> , 2022, 5, .	2.0	27

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73	Self-viewing is associated with negative affect rather than reward in highly narcissistic men: an fMRI study. <i>Scientific Reports</i> , 2017, 7, 5804.	1.6	26
74	Neurophysiological indicators of internal attention: An electroencephalographyâ€œeyeâ€œtracking coregistration study. <i>Brain and Behavior</i> , 2020, 10, e01790.	1.0	26
75	Creating art: An experience sampling study in the domain of moving image art.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2017, 11, 325-334.	1.0	26
76	Creativity myths: Prevalence and correlates of misconceptions on creativity. <i>Personality and Individual Differences</i> , 2021, 182, 111068.	1.6	25
77	Dimensions of Musical Creativity. <i>Frontiers in Neuroscience</i> , 2020, 14, 578932.	1.4	24
78	Sex differences in neural efficiency: Are they due to the stereotype threat effect?. <i>Personality and Individual Differences</i> , 2013, 55, 744-749.	1.6	22
79	Objective and continuous measurement of piloerection. <i>Psychophysiology</i> , 2010, 47, 989-93.	1.2	21
80	The Creative Brain: Brain Correlates Underlying the Generation of Original Ideas. , 2013, , 207-232.		20
81	Modulation of resting-state network connectivity by verbal divergent thinking training. <i>Brain and Cognition</i> , 2018, 128, 1-6.	0.8	17
82	A New Perspective on the Multidimensionality of Divergent Thinking Tasks. <i>Frontiers in Psychology</i> , 2019, 10, 985.	1.1	17
83	The Effects of a Verbal and a Figural Creativity Training on Different Facets of Creative Potential. <i>Journal of Creative Behavior</i> , 2020, 54, 676-685.	1.6	17
84	Assessing Raters: What Factors Predict Discernment in Novice Creativity Raters?. <i>Journal of Creative Behavior</i> , 2022, 56, 41-54.	1.6	17
85	Neurophysiological indicators of internal attention: An fMRIâ€œeye-tracking coregistration study. <i>Cortex</i> , 2021, 143, 29-46.	1.1	17
86	Spontaneous and Controlled Processes in Creative Cognition. , 2018, , .		16
87	How Reliably Do Eye Parameters Indicate Internal Versus External Attentional Focus?. <i>Cognitive Science</i> , 2021, 45, e12977.	0.8	16
88	Eye behavior does not adapt to expected visual distraction during internally directed cognition. <i>PLoS ONE</i> , 2018, 13, e0204963.	1.1	15
89	The Neuroscience of Creative Idea Generation. , 2018, , 31-48.		14
90	The neural bases of creativity and intelligence: common ground and differences. <i>Neuropsychologia</i> , 2018, 118, 1-3.	0.7	13

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91	Eye behavior predicts susceptibility to visual distraction during internally directed cognition. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 3432-3444.	0.7	13
92	Real-Time Multimodal Classification of Internal and External Attention. , 2019, , .		12
93	Creativity on tap 2: Investigating dose effects of alcohol on cognitive control and creative cognition. <i>Consciousness and Cognition</i> , 2020, 83, 102972.	0.8	11
94	Mathematical Creativity in Adults: Its Measurement and Its Relation to Intelligence, Mathematical Competence and General Creativity. <i>Journal of Intelligence</i> , 2021, 9, 10.	1.3	10
95	Imaging Time Series of Eye Tracking Data to Classify Attentional States. <i>Frontiers in Neuroscience</i> , 2021, 15, 664490.	1.4	10
96	The Neuroscience of Creativity. <i>Neuroforum</i> , 2019, 25, 231-240.	0.2	8
97	Female and male soccer players recruited different cognitive processes when generating creative soccer moves. <i>Psychology of Sport and Exercise</i> , 2020, 50, 101748.	1.1	7
98	Brain activation during the observation of real soccer game situations predicts creative goal scoring. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 707-715.	1.5	7
99	Dozing Off or Thinking Hard?. , 2018, , .		6
100	Are you with me? Probing the human capacity to recognize external/internal attention in othersâ€™ faces. <i>Visual Cognition</i> , 2018, 26, 511-517.	0.9	6
101	A New Measure for the Assessment of Appreciation for Creative Personality. <i>Creativity Research Journal</i> , 2019, 31, 149-163.	1.7	6
102	A two-week running intervention reduces symptoms related to depression and increases hippocampal volume in young adults. <i>Cortex</i> , 2021, 144, 70-81.	1.1	6
103	Creativity - Lost in Simplification?. <i>Creativity</i> , 2014, 1, 213-219.	0.5	5
104	Neural Representations of Conceptual Fixation during Creative Imagination. <i>Creativity Research Journal</i> , 2022, 34, 106-122.	1.7	5
105	Data on eye behavior during idea generation and letter-by-letter reading. <i>Data in Brief</i> , 2017, 15, 18-24.	0.5	4
106	Where to Share? A Systematic Investigation of Creative Behavior on Online Platforms. <i>Creativity</i> , 2021, 8, 108-123.	0.5	4
107	Neuroscience: EEG. , 2020, , 216-220.		3
108	Design spaces and EEG frequency band power in constrained and open design. <i>International Journal of Design Creativity and Innovation</i> , 2022, 10, 193-221.	0.8	2