

# 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	Assessing Raters: What Factors Predict Discernment in Novice Creativity Raters?. <i>Journal of Creative Behavior</i> , 2022, 56, 41-54.	1.6	17
2	Neural Representations of Conceptual Fixation during Creative Imagination. <i>Creativity Research Journal</i> , 2022, 34, 106-122.	1.7	5
3	Brain connectivity-based prediction of real-life creativity is mediated by semantic memory structure. <i>Science Advances</i> , 2022, 8, eabl4294.	4.7	30
4	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
5	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
6	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
7	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
8	The Relationship between Intelligence and Divergent Thinking – A Meta-Analytic Update. <i>Journal of Intelligence</i> , 2021, 9, 23.	1.3	47
9	How Reliably Do Eye Parameters Indicate Internal Versus External Attentional Focus?. <i>Cognitive Science</i> , 2021, 45, e12977.	0.8	16
10	Imaging Time Series of Eye Tracking Data to Classify Attentional States. <i>Frontiers in Neuroscience</i> , 2021, 15, 664490.	1.4	10
11	Where to Share? A Systematic Investigation of Creative Behavior on Online Platforms. <i>Creativity</i> , 2021, 8, 108-123.	0.5	4
12	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
13	Neurophysiological indicators of internal attention: An fMRI eye-tracking coregistration study. <i>Cortex</i> , 2021, 143, 29-46.	1.1	17
14	Creativity myths: Prevalence and correlates of misconceptions on creativity. <i>Personality and Individual Differences</i> , 2021, 182, 111068.	1.6	25
15	Motives for Creativity: Exploring the What and Why of Everyday Creativity. <i>Journal of Creative Behavior</i> , 2020, 54, 610-625.	1.6	55
16	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
17	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
18	Functional coupling of brain networks during creative idea generation and elaboration in the figural domain. <i>NeuroImage</i> , 2020, 207, 116395.	2.1	27

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19	Dimensions of Musical Creativity. <i>Frontiers in Neuroscience</i> , 2020, 14, 578932.	1.4	24
20	Neurophysiological indicators of internal attention: An electroencephalographyâ€‘eyeâ€‘tracking coregistration study. <i>Brain and Behavior</i> , 2020, 10, e01790.	1.0	26
21	Eye behavior predicts susceptibility to visual distraction during internally directed cognition. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 3432-3444.	0.7	13
22	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
23	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
24	Neuroscience: EEG. , 2020, , 216-220.		3
25	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
26	A New Measure for the Assessment of Appreciation for Creative Personality. <i>Creativity Research Journal</i> , 2019, 31, 149-163.	1.7	6
27	Real-Time Multimodal Classification of Internal and External Attention. , 2019, , .		12
28	The Neuroscience of Creativity. <i>Neuroforum</i> , 2019, 25, 231-240.	0.2	8
29	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
30	A New Perspective on the Multidimensionality of Divergent Thinking Tasks. <i>Frontiers in Psychology</i> , 2019, 10, 985.	1.1	17
31	Creativity and Cognitive Control. , 2019, , 200-223.		30
32	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
33	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
34	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
35	Creativity assessment in neuroscience research.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2019, 13, 218-226.	1.0	53
36	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

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37	Robust prediction of individual creative ability from brain functional connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1087-1092.	3.3	562
38	EEG alpha activity during imagining creative moves in soccer decision-making situations. Neuropsychologia, 2018, 114, 118-124.	0.7	52
39	Spontaneous and Controlled Processes in Creative Cognition. , 2018, , .		16
40	Effects of alpha and gamma transcranial alternating current stimulation (tACS) on verbal creativity and intelligence test performance. Neuropsychologia, 2018, 118, 91-98.	0.7	35
41	To create or to recall original ideas: Brain processes associated with the imagination of novel object uses. Cortex, 2018, 99, 93-102.	1.1	71
42	Eye behavior does not adapt to expected visual distraction during internally directed cognition. PLoS ONE, 2018, 13, e0204963.	1.1	15
43	The neural bases of creativity and intelligence: common ground and differences. Neuropsychologia, 2018, 118, 1-3.	0.7	13
44	Dozing Off or Thinking Hard?. , 2018, , .		6
45	Modulation of resting-state network connectivity by verbal divergent thinking training. Brain and Cognition, 2018, 128, 1-6.	0.8	17
46	Are you with me? Probing the human capacity to recognize external/internal attention in othersâ€™ faces. Visual Cognition, 2018, 26, 511-517.	0.9	6
47	The Neuroscience of Creative Idea Generation. , 2018, , 31-48.		14
48	Core Network Contributions to Remembering the Past, Imagining the Future, and Thinking Creatively. Journal of Cognitive Neuroscience, 2018, 30, 1939-1951.	1.1	54
49	Assessment of real-life creativity: The Inventory of Creative Activities and Achievements (ICAA).. Psychology of Aesthetics, Creativity, and the Arts, 2018, 12, 304-316.	1.0	107
50	How semantic memory structure and intelligence contribute to creative thought: a network science approach. Thinking and Reasoning, 2017, 23, 158-183.	2.1	124
51	Creative constraints: Brain activity and network dynamics underlying semantic interference during idea production. NeuroImage, 2017, 148, 189-196.	2.1	136
52	Brain networks underlying novel metaphor production. Brain and Cognition, 2017, 111, 163-170.	0.8	59
53	The role of creative potential and intelligence for humor production.. Psychology of Aesthetics, Creativity, and the Arts, 2017, 11, 52-58.	1.0	45
54	Data on eye behavior during idea generation and letter-by-letter reading. Data in Brief, 2017, 15, 18-24.	0.5	4

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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	Creativity on tap? Effects of alcohol intoxication on creative cognition. <i>Consciousness and Cognition</i> , 2017, 56, 128-134.	0.8	40
57	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
58	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
59	Eye Behavior Associated with Internally versus Externally Directed Cognition. <i>Frontiers in Psychology</i> , 2017, 8, 1092.	1.1	54
60	The Relationship between Grandiose and Vulnerable (Hypersensitive) Narcissism. <i>Frontiers in Psychology</i> , 2017, 8, 1600.	1.1	72
61	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
62	Is creativity without intelligence possible? A Necessary Condition Analysis. <i>Intelligence</i> , 2016, 57, 105-117.	1.6	174
63	Assessment of creativity evaluation skills: A psychometric investigation in prospective teachers. <i>Thinking Skills and Creativity</i> , 2016, 21, 75-84.	1.9	70
64	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
65	Brain mechanisms associated with internally directed attention and self-generated thought. <i>Scientific Reports</i> , 2016, 6, 22959.	1.6	114
66	Creative Cognition and Brain Network Dynamics. <i>Trends in Cognitive Sciences</i> , 2016, 20, 87-95.	4.0	680
67	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
68	Intelligence in creative processes: An EEG study. <i>Intelligence</i> , 2015, 49, 171-178.	1.6	54
69	Default and Executive Network Coupling Supports Creative Idea Production. <i>Scientific Reports</i> , 2015, 5, 10964.	1.6	475
70	Gray matter correlates of creative potential: A latent variable voxel-based morphometry study. <i>NeuroImage</i> , 2015, 111, 312-320.	2.1	92
71	Are creative ideas novel and useful?. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2015, 9, 35-40.	1.0	177
72	The time-course of EEG alpha power changes in creative ideation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 310.	1.0	100

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73	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
74	Sex differences in the IQ-white matter microstructure relationship: A DTI study. <i>Brain and Cognition</i> , 2014, 91, 71-78.	0.8	62
75	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
76	Neural efficiency as a function of task demands. <i>Intelligence</i> , 2014, 42, 22-30.	1.6	144
77	Gray matter density in relation to different facets of verbal creativity. <i>Brain Structure and Function</i> , 2014, 219, 1263-1269.	1.2	71
78	Alpha power increases in right parietal cortex reflects focused internal attention. <i>Neuropsychologia</i> , 2014, 56, 393-400.	0.7	280
79	EEG alpha power and creative ideation. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 44, 111-123.	2.9	387
80	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
81	Creativity and schizotypy from the neuroscience perspective. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 378-387.	1.0	72
82	The roles of associative and executive processes in creative cognition. <i>Memory and Cognition</i> , 2014, 42, 1186-1197.	0.9	318
83	To create or to recall? Neural mechanisms underlying the generation of creative new ideas. <i>NeuroImage</i> , 2014, 88, 125-133.	2.1	310
84	Creativity and personality in classical, jazz and folk musicians. <i>Personality and Individual Differences</i> , 2014, 63, 117-121.	1.6	65
85	Creating metaphors: The neural basis of figurative language production. <i>NeuroImage</i> , 2014, 90, 99-106.	2.1	205
86	Creativity and the Stroop interference effect. <i>Personality and Individual Differences</i> , 2014, 69, 38-42.	1.6	93
87	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
88	Creativity - Lost in Simplification?. <i>Creativity</i> , 2014, 1, 213-219.	0.5	5
89	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
90	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

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91	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.. Psychology of Aesthetics, Creativity, and the Arts, 2013, 7, 341-349.	1.0	149
92	Revisiting Mednick's Model on Creativityâ€Related Differences in Associative Hierarchies. Evidence for a Common Path to Uncommon Thought. Journal of Creative Behavior, 2013, 47, 273-289.	1.6	160
93	The Creative Brain: Brain Correlates Underlying the Generation of Original Ideas. , 2013, , 207-232.		20
94	Associative abilities underlying creativity.. Psychology of Aesthetics, Creativity, and the Arts, 2012, 6, 273-281.	1.0	235
95	Tackling creativity at its roots: Evidence for different patterns of EEG alpha activity related to convergent and divergent modes of task processing. International Journal of Psychophysiology, 2012, 84, 219-225.	0.5	130
96	Investigating Neural Efficiency in the Visuo-Spatial Domain: An fmri Study. PLoS ONE, 2012, 7, e51316.	1.1	40
97	Stimulating creativity via the exposure to other people's ideas. Human Brain Mapping, 2012, 33, 2603-2610.	1.9	117
98	Differential effects of cognitive inhibition and intelligence on creativity. Personality and Individual Differences, 2012, 53, 480-485.	1.6	262
99	Physiological correlates and emotional specificity of human piloerection. Biological Psychology, 2011, 86, 320-329.	1.1	170
100	EEG alpha synchronization is related to top-down processing in convergent and divergent thinking. Neuropsychologia, 2011, 49, 3505-3511.	0.7	222
101	A continuous measure of phasic electrodermal activity. Journal of Neuroscience Methods, 2010, 190, 80-91.	1.3	1,130
102	Decomposition of skin conductance data by means of nonnegative deconvolution. Psychophysiology, 2010, 47, 647-58.	1.2	290
103	Objective and continuous measurement of piloerection. Psychophysiology, 2010, 47, 989-93.	1.2	21
104	The creative brain: Investigation of brain activity during creative problem solving by means of EEG and FMRI. Human Brain Mapping, 2009, 30, 734-748.	1.9	410
105	Creativity meets neuroscience: Experimental tasks for the neuroscientific study of creative thinking. Methods, 2007, 42, 68-76.	1.9	190
106	Enhancement of Ideational Fluency by Means of Computer-Based Training. Creativity Research Journal, 2006, 18, 317-328.	1.7	79
107	Divergent thinking training is related to frontal electroencephalogram alpha synchronization. European Journal of Neuroscience, 2006, 23, 2241-2246.	1.2	133
108	Internally Directed Attention in Creative Cognition. , 0, , 180-194.		40