

Mathias Benedek

List of Publications by Year in descending order

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108
papers

11,999
citations

41344

49
h-index

32842

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?. Journal of Creative Behavior, 2022, 56, 41-54.	2.9	17
2	Neural Representations of Conceptual Fixation during Creative Imagination. Creativity Research Journal, 2022, 34, 106-122.	2.6	5
3	Brain connectivityâ€‘based prediction of real-life creativity is mediated by semantic memory structure. Science Advances, 2022, 8, eabl4294.	10.3	30
4	Design spaces and EEG frequency band power in constrained and open design. International Journal of Design Creativity and Innovation, 2022, 10, 193-221.	1.2	2
5	An investigation of the cognitive and neural correlates of semantic memory search related to creative ability. Communications Biology, 2022, 5, .	4.4	27
6	Mathematical Creativity in Adults: Its Measurement and Its Relation to Intelligence, Mathematical Competence and General Creativity. Journal of Intelligence, 2021, 9, 10.	2.5	10
7	Brain activation during the observation of real soccer game situations predicts creative goal scoring. Social Cognitive and Affective Neuroscience, 2021, 16, 707-715.	3.0	7
8	The Relationship between Intelligence and Divergent Thinkingâ€‘A Meta-Analytic Update. Journal of Intelligence, 2021, 9, 23.	2.5	47
9	How Reliably Do Eye Parameters Indicate Internal Versus External Attentional Focus?. Cognitive Science, 2021, 45, e12977.	1.7	16
10	Imaging Time Series of Eye Tracking Data to Classify Attentional States. Frontiers in Neuroscience, 2021, 15, 664490.	2.8	10
11	Where to Share? A Systematic Investigation of Creative Behavior on Online Platforms. Creativity, 2021, 8, 108-123.	0.9	4
12	A two-week running intervention reduces symptoms related to depression and increases hippocampal volume in young adults. Cortex, 2021, 144, 70-81.	2.4	6
13	Neurophysiological indicators of internal attention: An fMRIâ€‘eye-tracking coregistration study. Cortex, 2021, 143, 29-46.	2.4	17
14	Creativity myths: Prevalence and correlates of misconceptions on creativity. Personality and Individual Differences, 2021, 182, 111068.	2.9	25
15	Motives for Creativity: Exploring the What and Why of Everyday Creativity. Journal of Creative Behavior, 2020, 54, 610-625.	2.9	55
16	The Effects of a Verbal and a Figural Creativity Training on Different Facets of Creative Potential. Journal of Creative Behavior, 2020, 54, 676-685.	2.9	17
17	Default network contributions to episodic and semantic processing during divergent creative thinking: A representational similarity analysis. NeuroImage, 2020, 209, 116499.	4.2	56
18	Functional coupling of brain networks during creative idea generation and elaboration in the figural domain. NeuroImage, 2020, 207, 116395.	4.2	27

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19	Dimensions of Musical Creativity. <i>Frontiers in Neuroscience</i> , 2020, 14, 578932.	2.8	24
20	Neurophysiological indicators of internal attention: An electroencephalographyâ€“eyeâ€“tracking coregistration study. <i>Brain and Behavior</i> , 2020, 10, e01790.	2.2	26
21	Eye behavior predicts susceptibility to visual distraction during internally directed cognition. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 3432-3444.	1.3	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.	2.1	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.	1.5	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.	4.2	45
26	A New Measure for the Assessment of Appreciation for Creative Personality. <i>Creativity Research Journal</i> , 2019, 31, 149-163.	2.6	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.	0.3	8
29	Creative ideation, broad retrieval ability, and processing speed: A confirmatory study of nested cognitive abilities. <i>Intelligence</i> , 2019, 75, 59-72.	3.0	48
30	A New Perspective on the Multidimensionality of Divergent Thinking Tasks. <i>Frontiers in Psychology</i> , 2019, 10, 985.	2.1	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.	2.0	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.	3.9	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.	3.6	27
35	Creativity assessment in neuroscience research.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2019, 13, 218-226.	1.3	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.	1.3	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.	7.1	562
38	EEG alpha activity during imagining creative moves in soccer decision-making situations. Neuropsychologia, 2018, 114, 118-124.	1.6	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.	1.6	35
41	To create or to recall original ideas: Brain processes associated with the imagination of novel object uses. Cortex, 2018, 99, 93-102.	2.4	71
42	Eye behavior does not adapt to expected visual distraction during internally directed cognition. PLoS ONE, 2018, 13, e0204963.	2.5	15
43	The neural bases of creativity and intelligence: common ground and differences. Neuropsychologia, 2018, 118, 1-3.	1.6	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.	1.8	17
46	Are you with me? Probing the human capacity to recognize external/internal attention in othersâ€™ faces. Visual Cognition, 2018, 26, 511-517.	1.6	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.	2.3	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.	1.3	107
50	How semantic memory structure and intelligence contribute to creative thought: a network science approach. Thinking and Reasoning, 2017, 23, 158-183.	3.2	124
51	Creative constraints: Brain activity and network dynamics underlying semantic interference during idea production. NeuroImage, 2017, 148, 189-196.	4.2	136
52	Brain networks underlying novel metaphor production. Brain and Cognition, 2017, 111, 163-170.	1.8	59
53	The role of creative potential and intelligence for humor production.. Psychology of Aesthetics, Creativity, and the Arts, 2017, 11, 52-58.	1.3	45
54	Data on eye behavior during idea generation and letter-by-letter reading. Data in Brief, 2017, 15, 18-24.	1.0	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.	1.5	48
56	Creativity on tap? Effects of alcohol intoxication on creative cognition. <i>Consciousness and Cognition</i> , 2017, 56, 128-134.	1.5	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.	3.3	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.	2.9	29
59	Eye Behavior Associated with Internally versus Externally Directed Cognition. <i>Frontiers in Psychology</i> , 2017, 8, 1092.	2.1	54
60	The Relationship between Grandiose and Vulnerable (Hypersensitive) Narcissism. <i>Frontiers in Psychology</i> , 2017, 8, 1600.	2.1	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.	1.3	26
62	Is creativity without intelligence possible? A Necessary Condition Analysis. <i>Intelligence</i> , 2016, 57, 105-117.	3.0	174
63	Assessment of creativity evaluation skills: A psychometric investigation in prospective teachers. <i>Thinking Skills and Creativity</i> , 2016, 21, 75-84.	3.5	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.	3.6	172
65	Brain mechanisms associated with internally directed attention and self-generated thought. <i>Scientific Reports</i> , 2016, 6, 22959.	3.3	114
66	Creative Cognition and Brain Network Dynamics. <i>Trends in Cognitive Sciences</i> , 2016, 20, 87-95.	7.8	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.	3.6	62
68	Intelligence in creative processes: An EEG study. <i>Intelligence</i> , 2015, 49, 171-178.	3.0	54
69	Default and Executive Network Coupling Supports Creative Idea Production. <i>Scientific Reports</i> , 2015, 5, 10964.	3.3	475
70	Gray matter correlates of creative potential: A latent variable voxel-based morphometry study. <i>NeuroImage</i> , 2015, 111, 312-320.	4.2	92
71	Are creative ideas novel and useful?. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2015, 9, 35-40.	1.3	177
72	The time-course of EEG alpha power changes in creative ideation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 310.	2.0	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.	2.1	37
74	Sex differences in the IQ-white matter microstructure relationship: A DTI study. <i>Brain and Cognition</i> , 2014, 91, 71-78.	1.8	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.	3.1	243
76	Neural efficiency as a function of task demands. <i>Intelligence</i> , 2014, 42, 22-30.	3.0	144
77	Gray matter density in relation to different facets of verbal creativity. <i>Brain Structure and Function</i> , 2014, 219, 1263-1269.	2.3	71
78	Alpha power increases in right parietal cortex reflects focused internal attention. <i>Neuropsychologia</i> , 2014, 56, 393-400.	1.6	280
79	EEG alpha power and creative ideation. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 44, 111-123.	6.1	387
80	Creativity and the default network: A functional connectivity analysis of the creative brain at rest. <i>Neuropsychologia</i> , 2014, 64, 92-98.	1.6	345
81	Creativity and schizotypy from the neuroscience perspective. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 378-387.	2.0	72
82	The roles of associative and executive processes in creative cognition. <i>Memory and Cognition</i> , 2014, 42, 1186-1197.	1.6	318
83	To create or to recall? Neural mechanisms underlying the generation of creative new ideas. <i>NeuroImage</i> , 2014, 88, 125-133.	4.2	310
84	Creativity and personality in classical, jazz and folk musicians. <i>Personality and Individual Differences</i> , 2014, 63, 117-121.	2.9	65
85	Creating metaphors: The neural basis of figurative language production. <i>NeuroImage</i> , 2014, 90, 99-106.	4.2	205
86	Creativity and the Stroop interference effect. <i>Personality and Individual Differences</i> , 2014, 69, 38-42.	2.9	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.	3.0	475
88	Creativity - Lost in Simplification?. <i>Creativity</i> , 2014, 1, 213-219.	0.9	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.	2.9	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.	3.0	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.	1.3	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.	2.9	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.	1.3	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.	1.0	130
96	Investigating Neural Efficiency in the Visuo-Spatial Domain: An fmri Study. PLoS ONE, 2012, 7, e51316.	2.5	40
97	Stimulating creativity via the exposure to other people's ideas. Human Brain Mapping, 2012, 33, 2603-2610.	3.6	117
98	Differential effects of cognitive inhibition and intelligence on creativity. Personality and Individual Differences, 2012, 53, 480-485.	2.9	262
99	Physiological correlates and emotional specificity of human piloerection. Biological Psychology, 2011, 86, 320-329.	2.2	170
100	EEG alpha synchronization is related to top-down processing in convergent and divergent thinking. Neuropsychologia, 2011, 49, 3505-3511.	1.6	222
101	A continuous measure of phasic electrodermal activity. Journal of Neuroscience Methods, 2010, 190, 80-91.	2.5	1,130
102	Decomposition of skin conductance data by means of nonnegative deconvolution. Psychophysiology, 2010, 47, 647-58.	2.4	290
103	Objective and continuous measurement of piloerection. Psychophysiology, 2010, 47, 989-93.	2.4	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.	3.6	410
105	Creativity meets neuroscience: Experimental tasks for the neuroscientific study of creative thinking. Methods, 2007, 42, 68-76.	3.8	190
106	Enhancement of Ideational Fluency by Means of Computer-Based Training. Creativity Research Journal, 2006, 18, 317-328.	2.6	79
107	Divergent thinking training is related to frontal electroencephalogram alpha synchronization. European Journal of Neuroscience, 2006, 23, 2241-2246.	2.6	133
108	Internally Directed Attention in Creative Cognition. , 0, , 180-194.		40