

Mathias Benedek

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/602221/publications.pdf>

Version: 2024-02-01

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	A continuous measure of phasic electrodermal activity. Journal of Neuroscience Methods, 2010, 190, 80-91.	2.5	1,130
2	Creative Cognition and Brain Network Dynamics. Trends in Cognitive Sciences, 2016, 20, 87-95.	7.8	680
3	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
4	Intelligence, creativity, and cognitive control: The common and differential involvement of executive functions in intelligence and creativity. Intelligence, 2014, 46, 73-83.	3.0	475
5	Default and Executive Network Coupling Supports Creative Idea Production. Scientific Reports, 2015, 5, 10964.	3.3	475
6	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
7	EEG alpha power and creative ideation. Neuroscience and Biobehavioral Reviews, 2014, 44, 111-123.	6.1	387
8	Creativity and the default network: A functional connectivity analysis of the creative brain at rest. Neuropsychologia, 2014, 64, 92-98.	1.6	345
9	The relationship between intelligence and creativity: New support for the threshold hypothesis by means of empirical breakpoint detection. Intelligence, 2013, 41, 212-221.	3.0	318
10	The roles of associative and executive processes in creative cognition. Memory and Cognition, 2014, 42, 1186-1197.	1.6	318
11	To create or to recall? Neural mechanisms underlying the generation of creative new ideas. NeuroImage, 2014, 88, 125-133.	4.2	310
12	Decomposition of skin conductance data by means of nonnegative deconvolution. Psychophysiology, 2010, 47, 647-58.	2.4	290
13	Alpha power increases in right parietal cortex reflects focused internal attention. Neuropsychologia, 2014, 56, 393-400.	1.6	280
14	Differential effects of cognitive inhibition and intelligence on creativity. Personality and Individual Differences, 2012, 53, 480-485.	2.9	262
15	The Road to Creative Achievement: A Latent Variable Model of Ability and Personality Predictors. European Journal of Personality, 2014, 28, 95-105.	3.1	243
16	Associative abilities underlying creativity.. Psychology of Aesthetics, Creativity, and the Arts, 2012, 6, 273-281.	1.3	235
17	EEG alpha synchronization is related to top-down processing in convergent and divergent thinking. Neuropsychologia, 2011, 49, 3505-3511.	1.6	222
18	Creating metaphors: The neural basis of figurative language production. NeuroImage, 2014, 90, 99-106.	4.2	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.	3.8	190
20	Are creative ideas novel and useful?. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2015, 9, 35-40.	1.3	177
21	Is creativity without intelligence possible? A Necessary Condition Analysis. <i>Intelligence</i> , 2016, 57, 105-117.	3.0	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.	3.6	172
23	Physiological correlates and emotional specificity of human piloerection. <i>Biological Psychology</i> , 2011, 86, 320-329.	2.2	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.	2.9	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.	3.9	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.	1.3	149
27	Neural efficiency as a function of task demands. <i>Intelligence</i> , 2014, 42, 22-30.	3.0	144
28	Creative constraints: Brain activity and network dynamics underlying semantic interference during idea production. <i>NeuroImage</i> , 2017, 148, 189-196.	4.2	136
29	Divergent thinking training is related to frontal electroencephalogram alpha synchronization. <i>European Journal of Neuroscience</i> , 2006, 23, 2241-2246.	2.6	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.	1.0	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.	3.2	124
32	Stimulating creativity via the exposure to other people's ideas. <i>Human Brain Mapping</i> , 2012, 33, 2603-2610.	3.6	117
33	Brain mechanisms associated with internally directed attention and self-generated thought. <i>Scientific Reports</i> , 2016, 6, 22959.	3.3	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.	1.3	107
35	The time-course of EEG alpha power changes in creative ideation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 310.	2.0	100
36	Creativity and the Stroop interference effect. <i>Personality and Individual Differences</i> , 2014, 69, 38-42.	2.9	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.	4.2	92
38	Enhancement of Ideational Fluency by Means of Computer-Based Training. <i>Creativity Research Journal</i> , 2006, 18, 317-328.	2.6	79
39	Creativity and schizotypy from the neuroscience perspective. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 378-387.	2.0	72
40	The Relationship between Grandiose and Vulnerable (Hypersensitive) Narcissism. <i>Frontiers in Psychology</i> , 2017, 8, 1600.	2.1	72
41	Gray matter density in relation to different facets of verbal creativity. <i>Brain Structure and Function</i> , 2014, 219, 1263-1269.	2.3	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.	2.4	71
43	Assessment of creativity evaluation skills: A psychometric investigation in prospective teachers. <i>Thinking Skills and Creativity</i> , 2016, 21, 75-84.	3.5	70
44	Creativity and personality in classical, jazz and folk musicians. <i>Personality and Individual Differences</i> , 2014, 63, 117-121.	2.9	65
45	Sex differences in the IQ-white matter microstructure relationship: A DTI study. <i>Brain and Cognition</i> , 2014, 91, 71-78.	1.8	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.	3.6	62
47	Brain networks underlying novel metaphor production. <i>Brain and Cognition</i> , 2017, 111, 163-170.	1.8	59
48	Default network contributions to episodic and semantic processing during divergent creative thinking: A representational similarity analysis. <i>NeuroImage</i> , 2020, 209, 116499.	4.2	56
49	Motives for Creativity: Exploring the What and Why of Everyday Creativity. <i>Journal of Creative Behavior</i> , 2020, 54, 610-625.	2.9	55
50	Intelligence in creative processes: An EEG study. <i>Intelligence</i> , 2015, 49, 171-178.	3.0	54
51	Eye Behavior Associated with Internally versus Externally Directed Cognition. <i>Frontiers in Psychology</i> , 2017, 8, 1092.	2.1	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.	2.3	54
53	Creativity assessment in neuroscience research.. <i>Psychology of Aesthetics, Creativity, and the Arts</i> , 2019, 13, 218-226.	1.3	53
54	EEG alpha activity during imagining creative moves in soccer decision-making situations. <i>Neuropsychologia</i> , 2018, 114, 118-124.	1.6	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.	1.5	48
56	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
57	The Relationship between Intelligence and Divergent Thinkingâ€”A Meta-Analytic Update. <i>Journal of Intelligence</i> , 2021, 9, 23.	2.5	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.	1.3	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.	2.0	45
60	Elements of creative thought: Investigating the cognitive and neural correlates of association and bi-association processes. <i>NeuroImage</i> , 2020, 210, 116586.	4.2	45
61	Investigating Neural Efficiency in the Visuo-Spatial Domain: An fmri Study. <i>PLoS ONE</i> , 2012, 7, e51316.	2.5	40
62	Creativity on tap? Effects of alcohol intoxication on creative cognition. <i>Consciousness and Cognition</i> , 2017, 56, 128-134.	1.5	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.	2.1	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.	1.6	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.	1.3	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.	10.3	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.	2.9	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.	3.6	27
71	Functional coupling of brain networks during creative idea generation and elaboration in the figural domain. <i>NeuroImage</i> , 2020, 207, 116395.	4.2	27
72	An investigation of the cognitive and neural correlates of semantic memory search related to creative ability. <i>Communications Biology</i> , 2022, 5, .	4.4	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.	3.3	26
74	Neurophysiological indicators of internal attention: An electroencephalography–eye-tracking coregistration study. <i>Brain and Behavior</i> , 2020, 10, e01790.	2.2	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.	1.3	26
76	Creativity myths: Prevalence and correlates of misconceptions on creativity. <i>Personality and Individual Differences</i> , 2021, 182, 111068.	2.9	25
77	Dimensions of Musical Creativity. <i>Frontiers in Neuroscience</i> , 2020, 14, 578932.	2.8	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.	2.9	22
79	Objective and continuous measurement of piloerection. <i>Psychophysiology</i> , 2010, 47, 989-93.	2.4	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.	1.8	17
82	A New Perspective on the Multidimensionality of Divergent Thinking Tasks. <i>Frontiers in Psychology</i> , 2019, 10, 985.	2.1	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.	2.9	17
84	Assessing Raters: What Factors Predict Discernment in Novice Creativity Raters?. <i>Journal of Creative Behavior</i> , 2022, 56, 41-54.	2.9	17
85	Neurophysiological indicators of internal attention: An fMRI–eye-tracking coregistration study. <i>Cortex</i> , 2021, 143, 29-46.	2.4	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.	1.7	16
88	Eye behavior does not adapt to expected visual distraction during internally directed cognition. <i>PLoS ONE</i> , 2018, 13, e0204963.	2.5	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.	1.6	13

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91	Eye behavior predicts susceptibility to visual distraction during internally directed cognition. Attention, Perception, and Psychophysics, 2020, 82, 3432-3444.	1.3	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. Consciousness and Cognition, 2020, 83, 102972.	1.5	11
94	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
95	Imaging Time Series of Eye Tracking Data to Classify Attentional States. Frontiers in Neuroscience, 2021, 15, 664490.	2.8	10
96	The Neuroscience of Creativity. Neuroforum, 2019, 25, 231-240.	0.3	8
97	Female and male soccer players recruited different cognitive processes when generating creative soccer moves. Psychology of Sport and Exercise, 2020, 50, 101748.	2.1	7
98	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
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. Visual Cognition, 2018, 26, 511-517.	1.6	6
101	A New Measure for the Assessment of Appreciation for Creative Personality. Creativity Research Journal, 2019, 31, 149-163.	2.6	6
102	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
103	Creativity - Lost in Simplification?. Creativity, 2014, 1, 213-219.	0.9	5
104	Neural Representations of Conceptual Fixation during Creative Imagination. Creativity Research Journal, 2022, 34, 106-122.	2.6	5
105	Data on eye behavior during idea generation and letter-by-letter reading. Data in Brief, 2017, 15, 18-24.	1.0	4
106	Where to Share? A Systematic Investigation of Creative Behavior on Online Platforms. Creativity, 2021, 8, 108-123.	0.9	4
107	Neuroscience: EEG. , 2020, , 216-220.		3
108	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