

Valerie F Reyna

List of Publications by Year in descending order

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Version: 2024-02-01

145
papers

10,382
citations

53660

45
h-index

35952

97
g-index

150
all docs

150
docs citations

150
times ranked

7069
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk and Rationality in Adolescent Decision Making. <i>Psychological Science in the Public Interest: A Journal of the American Psychological Society</i> , 2006, 7, 1-44.	6.7	980
2	How numeracy influences risk comprehension and medical decision making.. <i>Psychological Bulletin</i> , 2009, 135, 943-973.	5.5	927
3	How People Make Decisions That Involve Risk. <i>Current Directions in Psychological Science</i> , 2004, 13, 60-66.	2.8	558
4	A Theory of Medical Decision Making and Health: Fuzzy Trace Theory. <i>Medical Decision Making</i> , 2008, 28, 850-865.	1.2	554
5	Numeracy, ratio bias, and denominator neglect in judgments of risk and probability. <i>Learning and Individual Differences</i> , 2008, 18, 89-107.	1.5	367
6	Opportunities and challenges of Web 2.0 for vaccination decisions. <i>Vaccine</i> , 2012, 30, 3727-3733.	1.7	304
7	Fuzzy-Trace Theory and Framing Effects in Children's Risky Decision Making. <i>Psychological Science</i> , 1994, 5, 275-279.	1.8	287
8	Fuzzy-trace theory and framing effects in choice: Gist extraction, truncation, and conversion. <i>Journal of Behavioral Decision Making</i> , 1991, 4, 249-262.	1.0	285
9	Clinical Implications of Numeracy: Theory and Practice. <i>Annals of Behavioral Medicine</i> , 2008, 35, 261-274.	1.7	251
10	Beyond stereotypes of adolescent risk taking: Placing the adolescent brain in developmental context. <i>Developmental Cognitive Neuroscience</i> , 2017, 27, 19-34.	1.9	247
11	The importance of mathematics in health and human judgment: Numeracy, risk communication, and medical decision making. <i>Learning and Individual Differences</i> , 2007, 17, 147-159.	1.5	239
12	Individual Differences in Numeracy and Cognitive Reflection, with Implications for Biases and Fallacies in Probability Judgment. <i>Journal of Behavioral Decision Making</i> , 2012, 25, 361-381.	1.0	230
13	Dual processes in decision making and developmental neuroscience: A fuzzy-trace model. <i>Developmental Review</i> , 2011, 31, 180-206.	2.6	226
14	Risk taking under the influence: A fuzzy-trace theory of emotion in adolescence. <i>Developmental Review</i> , 2008, 28, 107-144.	2.6	220
15	Physician decision making and cardiac risk: Effects of knowledge, risk perception, risk tolerance, and fuzzy processing.. <i>Journal of Experimental Psychology: Applied</i> , 2006, 12, 179-195.	0.9	204
16	Development of gist versus verbatim memory in sentence recognition: Effects of lexical familiarity, semantic content, encoding instructions, and retention interval.. <i>Developmental Psychology</i> , 1994, 30, 178-191.	1.2	200
17	Clarifying values: an updated review. <i>BMC Medical Informatics and Decision Making</i> , 2013, 13, S8.	1.5	188
18	Decision making and cancer.. <i>American Psychologist</i> , 2015, 70, 105-118.	3.8	184

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19	Class inclusion, the conjunction fallacy, and other cognitive illusions. <i>Developmental Review</i> , 1991, 11, 317-336.	2.6	178
20	Explaining Contradictory Relations Between Risk Perception and Risk Taking. <i>Psychological Science</i> , 2008, 19, 429-433.	1.8	154
21	Current theories of risk and rational decision making. <i>Developmental Review</i> , 2008, 28, 1-11.	2.6	144
22	Neurobiological and memory models of risky decision making in adolescents versus young adults.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2011, 37, 1125-1142.	0.7	143
23	Fuzzy-Trace Theory, Risk Communication, and Product Labeling in Sexually Transmitted Diseases. <i>Risk Analysis</i> , 2003, 23, 325-342.	1.5	142
24	A new intuitionism: Meaning, memory, and development in Fuzzy-Trace Theory. <i>Judgment and Decision Making</i> , 2012, 7, 332-359.	0.8	128
25	Theoretically motivated interventions for reducing sexual risk taking in adolescence: A randomized controlled experiment applying fuzzy-trace theory.. <i>Journal of Experimental Psychology: General</i> , 2014, 143, 1627-1648.	1.5	119
26	Risk perception and communication in vaccination decisions: A fuzzy-trace theory approach. <i>Vaccine</i> , 2012, 30, 3790-3797.	1.7	112
27	Fuzzy-Trace Theory and False Memory: New Frontiers. <i>Journal of Experimental Child Psychology</i> , 1998, 71, 194-209.	0.7	110
28	Developmental Reversals in Risky Decision Making. <i>Psychological Science</i> , 2014, 25, 76-84.	1.8	109
29	Memory, Development, and Rationality: An Integrative Theory of Judgment and Decision Making. , 2003, , 201-245.		106
30	How fuzzy-trace theory predicts true and false memories for words, sentences, and narratives.. <i>Journal of Applied Research in Memory and Cognition</i> , 2016, 5, 1-9.	0.7	96
31	A web exercise in evidence-based medicine using cognitive theory. <i>Journal of General Internal Medicine</i> , 2001, 16, 94-99.	1.3	88
32	Children's Memory and Metaphorical Interpretation. <i>Metaphor and Symbol</i> , 1995, 10, 309-331.	1.8	84
33	Fuzzy processing in transitivity development. <i>Annals of Operations Research</i> , 1990, 23, 37-63.	2.6	81
34	Efficacy of a Web-Based Intelligent Tutoring System for Communicating Genetic Risk of Breast Cancer. <i>Medical Decision Making</i> , 2015, 35, 46-59.	1.2	81
35	Coherence and correspondence criteria for rationality: experts' estimation of risks of sexually transmitted infections. <i>Journal of Behavioral Decision Making</i> , 2005, 18, 169-186.	1.0	79
36	Decision tool to improve the quality of care in rheumatoid arthritis. <i>Arthritis Care and Research</i> , 2012, 64, 977-985.	1.5	79

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37	Using fuzzy-trace theory to understand and improve health judgments, decisions, and behaviors: A literature review.. Health Psychology, 2016, 35, 781-792.	1.3	74
38	Improving communication of breast cancer recurrence risk. Breast Cancer Research and Treatment, 2012, 133, 553-561.	1.1	64
39	Theories of Medical Decision Making and Health: An Evidence-Based Approach. Medical Decision Making, 2008, 28, 829-833.	1.2	61
40	How reasoning, judgment, and decision making are colored by gist-based intuition: A fuzzy-trace theory approach.. Journal of Applied Research in Memory and Cognition, 2015, 4, 344-355.	0.7	57
41	Predicting Violent Behavior: What Can Neuroscience Add?. Trends in Cognitive Sciences, 2018, 22, 111-123.	4.0	56
42	Clinical Gist and Medical Education. JAMA - Journal of the American Medical Association, 2009, 302, 1332.	3.8	55
43	Germes Are Germs, and Why Not Take a Risk? Patients's™ Expectations for Prescribing Antibiotics in an Inner-City Emergency Department. Medical Decision Making, 2015, 35, 60-67.	1.2	55
44	A scientific theory of gist communication and misinformation resistance, with implications for health, education, and policy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	53
45	Semantic coherence and fallacies in estimating joint probabilities. Journal of Behavioral Decision Making, 2010, 23, 203-223.	1.0	52
46	Interference effects in memory and reasoning. , 1995, , 29-59.		51
47	Development of Risky Decision Making: Fuzzy's Trace Theory and Neurobiological Perspectives. Child Development Perspectives, 2015, 9, 122-127.	2.1	48
48	Categorical Risk Perception Drives Variability in Antibiotic Prescribing in the Emergency Department: A Mixed Methods Observational Study. Journal of General Internal Medicine, 2017, 32, 1083-1089.	1.3	47
49	A formal model of fuzzy-trace theory: Variations on framing effects and the Allais Paradox.. Decision, 2018, 5, 205-252.	0.4	47
50	Communicating Numerical Risk. Reviews of Human Factors and Ergonomics, 2013, 8, 235-276.	0.5	45
51	Fuzzy-trace theory and lifespan cognitive development. Developmental Review, 2015, 38, 89-121.	2.6	44
52	Reasoning, Remembering, and Their Relationship: Social, Cognitive, and Developmental Issues. , 1992, , 103-132.		38
53	Fuzzy Trace Theory and Medical Decisions by Minors: Differences in Reasoning between Adolescents and Adults. Journal of Medicine and Philosophy, 2013, 38, 268-282.	0.4	36
54	Development of a group and family-based cognitive behavioural therapy program for youth at risk for psychosis. Microbial Biotechnology, 2016, 10, 511-521.	0.9	31

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55	Use of Decision Support for Improved Knowledge, Values Clarification, and Informed Choice in Patients With Rheumatoid Arthritis. <i>Arthritis Care and Research</i> , 2015, 67, 1496-1502.	1.5	29
56	Educating Intuition. <i>Current Directions in Psychological Science</i> , 2015, 24, 392-398.	2.8	29
57	To Dollars from Sense: Qualitative to Quantitative Translation in Jury Damage Awards. <i>Journal of Empirical Legal Studies</i> , 2011, 8, 120-147.	0.5	28
58	Patients'™ and Clinicians'™ Perceptions of Antibiotic Prescribing for Upper Respiratory Infections in the Acute Care Setting. <i>Medical Decision Making</i> , 2018, 38, 547-561.	1.2	28
59	Viruses, vaccines, and COVID-19: Explaining and improving risky decision-making.. <i>Journal of Applied Research in Memory and Cognition</i> , 2021, 10, 491-509.	0.7	28
60	Converging evidence supports fuzzy-trace theory's nested sets hypothesis, but not the frequency hypothesis. <i>Behavioral and Brain Sciences</i> , 2007, 30, 278-280.	0.4	26
61	Associations between Anxiety, Poor Prognosis, and Accurate Understanding of Scan Results among Advanced Cancer Patients. <i>Journal of Palliative Medicine</i> , 2019, 22, 961-965.	0.6	25
62	Reward, representation, and impulsivity: A theoretical framework for the neuroscience of risky decision making.. , 2014, , 11-42.		25
63	Chapter 3 Fuzzy Memory and Mathematics in The Classroom. <i>Advances in Psychology</i> , 1993, 100, 91-119.	0.1	24
64	The gist of juries: Testing a model of damage award decision making.. <i>Psychology, Public Policy, and Law</i> , 2015, 21, 280-294.	0.9	24
65	Framing effects are robust to linguistic disambiguation: A critical test of contemporary theory.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2016, 42, 238-256.	0.7	23
66	Interference processes in fuzzy-trace theory: Aging, Alzheimer's disease, and development.. , 0, , 185-210.		23
67	Understanding genetic breast cancer risk: Processing loci of the BRCA Gist Intelligent Tutoring System. <i>Learning and Individual Differences</i> , 2016, 49, 178-189.	1.5	21
68	The development and analysis of tutorial dialogues in AutoTutor Lite. <i>Behavior Research Methods</i> , 2013, 45, 623-636.	2.3	20
69	The Glass Is Half Full: Evidence for Efficacy of Alcohol-Wise at One University But Not the Other. <i>Journal of Health Communication</i> , 2015, 20, 627-638.	1.2	18
70	How representations of number and numeracy predict decision paradoxes: A fuzzy-trace theory approach. <i>Journal of Behavioral Decision Making</i> , 2020, 33, 606-628.	1.0	18
71	Too young to plead? Risk, rationality, and plea bargaining's™ innocence problem in adolescents.. <i>Psychology, Public Policy, and Law</i> , 2018, 24, 180-191.	0.9	17
72	When Irrational Biases Are Smart: A Fuzzy-Trace Theory of Complex Decision Making. <i>Journal of Intelligence</i> , 2018, 6, 29.	1.3	16

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73	Chapter 7 Development and Dual Processes in Moral Reasoning: A Fuzzy-Trace Theory Approach. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2009, , 207-236.	0.5	15
74	Endorsement of a personal responsibility to adhere to the minimum drinking age law predicts consumption, risky behaviors, and alcohol-related harms.. <i>Psychology, Public Policy, and Law</i> , 2013, 19, 380-394.	0.9	15
75	Effective Ways to Communicate Risk and Benefit. <i>AMA Journal of Ethics</i> , 2013, 15, 34-41.	0.4	15
76	Intuition and analytic processes in probabilistic reasoning: The role of time pressure. <i>Learning and Individual Differences</i> , 2016, 45, 1-10.	1.5	15
77	Fuzzy-Trace Theory, False Memory, and the Law. <i>Policy Insights From the Behavioral and Brain Sciences</i> , 2019, 6, 79-86.	1.4	15
78	Palliative Chemotherapy or Radiation and Prognostic Understanding among Advanced Cancer Patients: The Role of Perceived Treatment Intent. <i>Journal of Palliative Medicine</i> , 2020, 23, 33-39.	0.6	15
79	Logical but incompetent plea decisions: A new approach to plea bargaining grounded in cognitive theory.. <i>Psychology, Public Policy, and Law</i> , 2017, 23, 367-380.	0.9	15
80	Brain activation covaries with reported criminal behaviors when making risky choices: A fuzzy-trace theory approach.. <i>Journal of Experimental Psychology: General</i> , 2018, 147, 1094-1109.	1.5	15
81	The Gist of Delay of Gratification: Understanding and Predicting Problem Behaviors. <i>Journal of Behavioral Decision Making</i> , 2017, 30, 610-625.	1.0	14
82	Semantic Coherence and Inconsistency in Estimating Conditional Probabilities. <i>Journal of Behavioral Decision Making</i> , 2013, 26, 237-246.	1.0	13
83	Tutorial dialogues and gist explanations of genetic breast cancer risk. <i>Behavior Research Methods</i> , 2015, 47, 632-648.	2.3	13
84	Limitations on the ability to negotiate justice: attorney perspectives on guilt, innocence, and legal advice in the current plea system. <i>Psychology, Crime and Law</i> , 2018, 24, 915-934.	0.8	13
85	How fuzzy-trace theory predicts development of risky decision making, with novel extensions to culture and reward sensitivity. <i>Developmental Review</i> , 2021, 62, 100986.	2.6	13
86	Clinicians's™ Perceptions of the Benefits and Harms of Prostate and Colorectal Cancer Screening. <i>Medical Decision Making</i> , 2015, 35, 467-476.	1.2	12
87	Presenting Quantitative and Qualitative Information on Forensic Science Evidence in the Courtroom. <i>Chance</i> , 2016, 29, 37-43.	0.1	11
88	Numeracy in the jury box: Numerical ability, meaningful anchors, and damage award decision making. <i>Applied Cognitive Psychology</i> , 2020, 34, 434-448.	0.9	11
89	Supporting Health and Medical Decision Making: Findings and Insights from Fuzzy-Trace Theory. <i>Medical Decision Making</i> , 2022, 42, 741-754.	1.2	11
90	To illuminate and motivate: a fuzzy-trace model of the spread of information online. <i>Computational and Mathematical Organization Theory</i> , 2020, 26, 431-464.	1.5	10

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91	Of Viruses, Vaccines, and Variability: Qualitative Meaning Matters. Trends in Cognitive Sciences, 2020, 24, 672-675.	4.0	10
92	Are rash impulsive and reward sensitive traits distinguishable? A test in young adults. Personality and Individual Differences, 2016, 99, 308-312.	1.6	9
93	A Fuzzy-Trace Theory of Judgment and Decision-Making in Health Care: Explanation, Prediction, and Application. , 2016, , 71-86.		9
94	The effectiveness of argumentation in tutorial dialogues with an Intelligent Tutoring System for genetic risk of breast cancer. Behavior Research Methods, 2016, 48, 857-868.	2.3	9
95	A theoretically motivated method for automatically evaluating texts for gist inferences. Behavior Research Methods, 2019, 51, 2419-2437.	2.3	9
96	Development of the Oncolo-GIST (â€œGiving Information Strategically & Transparentlyâ€) Intervention Manual for Oncologist Skills Training in Advanced Cancer Prognostic Information Communication. Journal of Pain and Symptom Management, 2021, 62, 10-19.e4.	0.6	9
97	Data, development, and dual processes in rationality. Behavioral and Brain Sciences, 2000, 23, 694-695.	0.4	8
98	Assessing semantic coherence and logical fallacies in joint probability estimates. Behavior Research Methods, 2010, 42, 373-380.	2.3	8
99	Childrenâ€™s competence or adultsâ€™ incompetence: Different developmental trajectories in different tasks.. Developmental Psychology, 2013, 49, 1466-1480.	1.2	8
100	A review of theories of numeracy: psychological mechanisms and implications for medical decision making. , 0, , 215-251.		8
101	Variation in Treatment Priorities for Chronic Hepatitis C: A Latent Class Analysis. Patient, 2016, 9, 241-249.	1.1	8
102	Replication, Registration, and Scientific Creativity. Perspectives on Psychological Science, 2018, 13, 428-432.	5.2	8
103	Do visual aids influenced patientsâ€™ risk perceptions for rare and very rare risks?. Patient Education and Counseling, 2018, 101, 1900-1905.	1.0	8
104	Neural Underpinnings of Financial Decision Bias in Older Adults: Putative Theoretical Models and a Way to Reconcile Them. Frontiers in Neuroscience, 2019, 13, 184.	1.4	8
105	An Overview of Judgment and Decision Making Research Through the Lens of Fuzzy Trace Theory. Advances in Psychological Science, 2014, 22, 1837.	0.2	8
106	The influence of verbatim versus gist formatting on younger and older adultsâ€™ information acquisition and decision-making.. Psychology and Aging, 2022, 37, 197-209.	1.4	8
107	Gist and verbatim communication concerning medication risks/benefits. Patient Education and Counseling, 2016, 99, 988-994.	1.0	7
108	Active engagement in a web-based tutorial to prevent obesity grounded in Fuzzy-Trace Theory predicts higher knowledge and gist comprehension. Behavior Research Methods, 2017, 49, 1386-1398.	2.3	7

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109	Effects of probabilities, adverse outcomes, and status quo on perceived riskiness of medications: Testing explanatory hypotheses concerning gist, worry, and numeracy. <i>Applied Cognitive Psychology</i> , 2018, 32, 714-726.	0.9	7
110	Gist Representations and Communication of Risks about HIV-AIDS: A Fuzzy-Trace Theory Approach. <i>Current HIV Research</i> , 2015, 13, 399-407.	0.2	7
111	Understanding the landscape of web-based medical misinformation about vaccination. <i>Behavior Research Methods</i> , 2023, 55, 348-363.	2.3	7
112	Good and bad news on the adolescent brain. <i>Nature</i> , 2013, 503, 48-49.	13.7	6
113	Examining Hepatitis C Virus Treatment Preference Heterogeneity Using Segmentation Analysis. <i>Journal of Clinical Gastroenterology</i> , 2016, 50, 252-257.	1.1	6
114	Automatic Evaluation of Cancer Treatment Texts for Gist Inferences and Comprehension. <i>Medical Decision Making</i> , 2019, 39, 939-949.	1.2	6
115	From meaning to money: Translating injury into dollars.. <i>Law and Human Behavior</i> , 2018, 42, 95-109.	0.6	6
116	Proficiency of FPPI and objective numeracy in assessing breast cancer risk estimation. <i>Learning and Individual Differences</i> , 2015, 43, 149-155.	1.5	5
117	On Judgments of Approximately Equal. <i>Journal of Behavioral Decision Making</i> , 2018, 31, 151-163.	1.0	5
118	Enhancing Patient Understanding of Medication Risks and Benefits. <i>Arthritis Care and Research</i> , 2020, , .	1.5	5
119	Intentions to report concussion symptoms in nonprofessional athletes: A fuzzy-trace theory approach. <i>Applied Cognitive Psychology</i> , 2021, 35, 26-38.	0.9	5
120	The Paradoxes of Maurice Allais in Economics and Psychology. <i>Medical Decision Making</i> , 2011, 31, 221-222.	1.2	4
121	A signal detection analysis of gist-based discrimination of genetic breast cancer risk. <i>Behavior Research Methods</i> , 2013, 45, 613-622.	2.3	4
122	A Fuzzy-Trace Theory of Risk and Time Preferences in Decision Making: Integrating Cognition and Motivation. <i>Nebraska Symposium on Motivation</i> , 2017, , 115-144.	0.9	4
123	Neurobiological Models of Risky Decision-Making and Adolescent Substance Use. <i>Current Addiction Reports</i> , 2018, 5, 128-133.	1.6	4
124	A concussion by any other name: Differences in willingness to risk brain injury by label and level of participation in high-school and college sports. <i>Applied Cognitive Psychology</i> , 2019, 33, 646-654.	0.9	4
125	Decision-making About Risk in the Era of the Novel Coronavirus Disease. <i>Chest</i> , 2020, 158, 1310-1311.	0.4	4
126	Socioeconomic status and concussion reporting: The distinct and mediating roles of gist processing, knowledge, and attitudes. <i>Journal of Behavioral Decision Making</i> , 2021, 34, 639-656.	1.0	4

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127	Explaining risky choices with judgments: Framing, the zero effect, and the contextual relativity of gist.. Journal of Experimental Psychology: Learning Memory and Cognition, 2021, 47, 1037-1053.	0.7	4
128	Fuzzy universality of probability judgment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16984-16985.	3.3	3
129	Multiple traces or Fuzzy Traces? Converging evidence for applications of modern cognitive theory to psychotherapy. Behavioral and Brain Sciences, 2015, 38, e22.	0.4	3
130	Fuzzy-Trace Theory. , 0, , 713-740.		2
131	Pumps and Prompts for Gist Explanations in Tutorial Dialogues About Breast Cancer. Discourse Processes, 2018, 55, 72-91.	1.1	2
132	Cognitive, Developmental, and Neurobiological Aspects of Risk Judgments. , 2018, , 83-108.		2
133	How to Successfully Incorporate Undergraduate Researchers Into a Complex Research Program at a Large Institution. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2015, 13, A192-7.	0.6	2
134	Compliance with mass marketing solicitation: The role of verbatim and gist processing. Brain and Behavior, 2021, 11, e2391.	1.0	2
135	Adapting a Theoretically-Based intervention for underserved clinical populations at increased risk for hereditary Cancer: Lessons learned from the BRCA-Gist experience. Preventive Medicine Reports, 2022, 28, 101887.	0.8	2
136	Perspectives on judgment and decision making as a skill. , 0, , 291-306.		1
137	How Does Negative Emotion Cause False Memories?. SSRN Electronic Journal, 2008, , .	0.4	1
138	Influence of Explanatory Images on Risk Perceptions and Treatment Preference. Arthritis Care and Research, 2018, 70, 1707-1711.	1.5	1
139	A web exercise in evidence-based medicine using cognitive theory. , 2001, 16, 94.		1
140	Meaning, Memory, and the Interpretation of Metaphors. , 2018, , 39-57.		1
141	Guiding jurorsâ€™ damage award decisions: Experimental investigations of approaches based on theory and practice.. Psychology, Public Policy, and Law, 2022, 28, 188-212.	0.9	1
142	Individual differences in numerical representations of risk in health decision making: A fuzzyâ€”trace theory approach. Risk Analysis, 2023, 43, 548-557.	1.5	1
143	Misconceptions, misinformation, and moving forward in theories of COVID-19 risky behaviors.. Journal of Applied Research in Memory and Cognition, 2021, 10, 537-541.	0.7	1
144	Incorporating Interpretation into Risky Decision-Making. Lecture Notes in Computer Science, 2014, , 19-26.	1.0	0

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145	Abstraction: An alternative neurocognitive account of recognition, prediction, and decision making. Behavioral and Brain Sciences, 2020, 43, e144.	0.4	0