

# Tom Froese

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

2,603  
citations

236612

25  
h-index

233125

45  
g-index

127  
all docs

127  
docs citations

127  
times ranked

1383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological and Convergent Validity of Experimentally and Dynamically Assessed Capacity for Social Contingency Detection Using the Perceptual Crossing Experiment in Adolescence. <i>Assessment</i> , 2023, 30, 1109-1124.	1.9	1
2	Scientific Observation Is Socio-Materially Augmented Perception: Toward a Participatory Realism. <i>Philosophies</i> , 2022, 7, 37.	0.4	6
3	On the spatiotemporal extensiveness of sense-making: ultrafast cognition and the historicity of normativity. <i>Synthese</i> , 2021, 198, 447-460.	0.6	3
4	Emergent Interaction: Complexity, Dynamics, and Enaction in HCI. , 2021, , .		3
5	Shrunken Social Brains? A Minimal Model of the Role of Social Interaction in Neural Complexity. <i>Frontiers in Neurobotics</i> , 2021, 15, 634085.	1.6	12
6	The Pandemic Experience: A Corpus of Subjective Reports on Life During the First Wave of COVID-19 in the UK, Japan, and Mexico. <i>Frontiers in Public Health</i> , 2021, 9, 725506.	1.3	16
7	An Oscillator Model for Interbrain Synchrony: Slow Interactional Rhythms Entrain Fast Neural Activity. , 2021, , .		2
8	To Understand the Origin of Life We Must First Understand the Role of Normativity. <i>Biosemiotics</i> , 2021, 14, 657.	0.8	2
9	Combining Self-critical dynamics and Hebbian learning to explain utility of bursty dynamics in neural networks. , 2021, , .		3
10	How passive is passive listening? Toward a sensorimotor theory of auditory perception. <i>Phenomenology and the Cognitive Sciences</i> , 2020, 19, 619-651.	1.1	13
11	Dynamic Interactive Artificial Intelligence: Sketches for a Future AI Based on Human-Machine Interaction. , 2020, , .		2
12	Agents of Habit: Refining the Artificial Life Route to Artificial Intelligence. , 2020, , .		3
13	The Effects of Daytime Psilocybin Administration on Sleep: Implications for Antidepressant Action. <i>Frontiers in Pharmacology</i> , 2020, 11, 602590.	1.6	11
14	Reflecting on experiences of social distancing. <i>Lancet, The</i> , 2020, 396, 87-88.	6.3	23
15	Lost in the Socially Extended Mind. , 2020, , 318-340.		1
16	The Feeling Is Mutual: Clarity of Haptics-Mediated Social Perception Is Not Associated With the Recognition of the Other, Only With Recognition of Each Other. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 560567.	1.0	7
17	Where Is the Action in Perception? An Exploratory Study With a Haptic Sensory Substitution Device. <i>Frontiers in Psychology</i> , 2020, 11, 809.	1.1	4
18	What binds us? Inter-brain neural synchronization and its implications for theories of human consciousness. <i>Neuroscience of Consciousness</i> , 2020, 2020, niaa010.	1.4	57

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19	Unsupervised Learning Facilitates Neural Coordination Across the Functional Clusters of the <i>C. elegans</i> Connectome. <i>Frontiers in Robotics and AI</i> , 2020, 7, 40.	2.0	4
20	Investigating real-time social interaction in pairs of adolescents with the Perceptual Crossing Experiment. <i>Behavior Research Methods</i> , 2020, 52, 1929-1938.	2.3	7
21	A Mural of Psychoactive Thorn Apples ( <i>Datura</i> spp.) in the Ancient Urban Center of Teotihuacan, Central Mexico. <i>Economic Botany</i> , 2020, 74, 92-99.	0.8	1
22	Levels of Coupling in Dyadic Interaction: An Analysis of Neural and Behavioral Complexity. , 2020, , .		4
23	The distribution of inhibitory neurons in the <i>C. elegans</i> connectome facilitates self-optimization of coordinated neural activity. , 2020, , .		1
24	Hidden Concepts in the History and Philosophy of Origins-of-Life Studies: a Workshop Report. <i>Origins of Life and Evolution of Biospheres</i> , 2019, 49, 111-145.	0.8	19
25	Applying Social Network Analysis to Agent-Based Models: A Case Study of Task Allocation in Swarm Robotics Inspired by Ant Foraging Behavior. , 2019, , .		2
26	Self-optimization in a Hopfield neural network based on the. , 2019, , .		0
27	Comparisons of static brain-body allometries across vertebrates must distinguish between indeterminate and determinate growth. <i>Nature Ecology and Evolution</i> , 2019, 3, 1404-1404.	3.4	3
28	Quantification of movement patterns during a maze navigation task. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
29	Embodied Dyadic Interaction Increases Complexity of Neural Dynamics: A Minimal Agent-Based Simulation Model. <i>Frontiers in Psychology</i> , 2019, 10, 540.	1.1	21
30	The Enactive Approach to Habits: New Concepts for the Cognitive Science of Bad Habits and Addiction. <i>Frontiers in Psychology</i> , 2019, 10, 301.	1.1	48
31	The Problem of Meaning in AI and Robotics: Still with Us after All These Years. <i>Philosophies</i> , 2019, 4, 14.	0.4	26
32	From embodied interaction to compositional referential communication: A minimal agent-based model without dedicated communication channels. , 2019, , .		0
33	Making sense of the chronology of Paleolithic cave painting from the perspective of material engagement theory. <i>Phenomenology and the Cognitive Sciences</i> , 2019, 18, 91-112.	1.1	9
34	From embodied interaction to compositional referential communication: A minimal agent-based model without dedicated communication channels. , 2019, , .		1
35	Applying Social Network Analysis to Agent-Based Models: A Case Study of Task Allocation in Swarm Robotics Inspired by Ant Foraging Behavior. , 2019, , .		1
36	Self-optimization in a Hopfield neural network based on the. , 2019, , .		0

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37	Horizontal transfer of code fragments between protocells can explain the origins of the genetic code without vertical descent. <i>Scientific Reports</i> , 2018, 8, 3532.	1.6	13
38	A role for enhanced functions of sleep in psychedelic therapy?. <i>Adaptive Behavior</i> , 2018, 26, 129-135.	1.1	7
39	ALife and Society: Editorial Introduction to the Artificial Life Conference 2016 Special Issue. <i>Artificial Life</i> , 2018, 24, 1-4.	1.0	0
40	Mutual synchronization and control between artificial chaotic system and human. , 2018, , .		1
41	Self-modeling in Hopfield Neural Networks with Continuous Activation Function. <i>Procedia Computer Science</i> , 2018, 123, 573-578.	1.2	13
42	The Clinical Concept of Opioid Addiction Since 1877: Still Wanting After All These Years. <i>Frontiers in Psychiatry</i> , 2018, 9, 508.	1.3	5
43	Modeling collective rule at ancient Teotihuacan as a complex adaptive system: Communal ritual makes social hierarchy more effective. <i>Cognitive Systems Research</i> , 2018, 52, 862-874.	1.9	25
44	Grounding 4E Cognition in Mexico: introduction to special issue on spotlight on 4E Cognition research in Mexico. <i>Adaptive Behavior</i> , 2018, 26, 189-198.	1.1	17
45	Ritual anti-structure as an alternate pathway to social complexity? The case of ancient Teotihuacan, Central Mexico. <i>Material Religion</i> , 2018, 14, 420-422.	0.2	22
46	Self-Optimization in Continuous-Time Recurrent Neural Networks. <i>Frontiers in Robotics and AI</i> , 2018, 5, 96.	2.0	9
47	The Standard Genetic Code can Evolve from a Two-Letter GC Code Without Information Loss or Costly Reassignments. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 259-272.	0.8	9
48	Sensitivity to Social Contingency in Adults with High-Functioning Autism during Computer-Mediated Embodied Interaction. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2018, 8, 22.	1.0	20
49	Entraining chaotic dynamics: A novel movement sonification paradigm could promote generalization. <i>Human Movement Science</i> , 2018, 61, 27-41.	0.6	17
50	Multi-Scale Coordination of Distinctive Movement Patterns During Embodied Interaction Between Adults With High-Functioning Autism and Neurotypicals. <i>Frontiers in Psychology</i> , 2018, 9, 2760.	1.1	8
51	An iterated learning approach to the origins of the standard genetic code can help to explain its sequence of amino acid assignments. , 2018, , .		1
52	Life is Precious Because it is Precarious: Individuality, Mortality and the Problem of Meaning. <i>Studies in Applied Philosophy, Epistemology and Rational Ethics</i> , 2017, , 33-50.	0.2	9
53	Referential communication as a collective property of a brain-body-environment-body-brain system: A minimal cognitive model. , 2017, , .		4
54	Commentary: Alignment in social interactions. <i>Frontiers in Psychology</i> , 2017, 8, 1249.	1.1	2

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55	A Sensorimotor Signature of the Transition to Conscious Social Perception: Co-regulation of Active and Passive Touch. <i>Frontiers in Psychology</i> , 2017, 8, 1778.	1.1	21
56	Where There is Life There is Mind: In Support of a Strong Life-Mind Continuity Thesis. <i>Entropy</i> , 2017, 19, 169.	1.1	61
57	La vida es preciosa por ser precaria: individualidad, mortalidad y el significado. <i>Iztapalapa Revista De Ciencias Sociales Y Humanidades</i> , 2017, , 173-198.	0.0	1
58	Time-Series Analysis of Embodied Interaction: Movement Variability and Complexity Matching As Dyadic Properties. <i>Frontiers in Psychology</i> , 2016, 7, 1940.	1.1	32
59	On the Origin of the Genus <i>Psilocybe</i> and Its Potential Ritual Use in Ancient Africa and Europe <sup>1</sup> . <i>Economic Botany</i> , 2016, 70, 103-114.	0.8	19
60	Open-Ended Evolution: Perspectives from the OEE Workshop in York. <i>Artificial Life</i> , 2016, 22, 408-423.	1.0	73
61	The Enactive Philosophy of Embodiment: From Biological Foundations of Agency to the Phenomenology of Subjectivity. <i>Historical-analytical Studies on Nature, Mind and Action</i> , 2016, , 113-129.	0.1	10
62	Nobility-targeting raids among the Classic Maya: Cooperation in scale-free networks persists under tournament attack when population size fluctuates. , 2016, , .		0
63	Enactive neuroscience, the direct perception hypothesis, and the socially extended mind. <i>Behavioral and Brain Sciences</i> , 2015, 38, e75.	0.4	11
64	Beyond neurophenomenology: A review of Colombetti's <i>The Feeling Body</i> . <i>New Ideas in Psychology</i> , 2015, 39, 73-77.	1.2	3
65	Neural coordination can be enhanced by occasional interruption of normal firing patterns: A self-optimizing spiking neural network model. <i>Neural Networks</i> , 2015, 62, 39-46.	3.3	18
66	Is Collective Agency a Coherent Idea? Considerations from the Enactive Theory of Agency. , 2015, , 219-236.		29
67	Can Government Be Self-Organized? A Mathematical Model of the Collective Social Organization of Ancient Teotihuacan, Central Mexico. <i>PLoS ONE</i> , 2014, 9, e109966.	1.1	43
68	The direct perception hypothesis: perceiving the intention of another's action hinders its precise imitation. <i>Frontiers in Psychology</i> , 2014, 5, 65.	1.1	29
69	Using minimal human-computer interfaces for studying the interactive development of social awareness. <i>Frontiers in Psychology</i> , 2014, 5, 1061.	1.1	27
70	An extended case study on the phenomenology of sequence-space synesthesia. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 433.	1.0	19
71	Steps toward an enactive account of synesthesia. <i>Cognitive Neuroscience</i> , 2014, 5, 126-127.	0.6	25
72	Enactive Cognition at the Edge of Sense-Making. , 2014, , .		4

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73	The Past, Present, and Future of Artificial Life. <i>Frontiers in Robotics and AI</i> , 2014, 1, .	2.0	48
74	Are altered states of consciousness detrimental, neutral or helpful for the origins of symbolic cognition? A response to Hodgson and Lewis-Williams. <i>Adaptive Behavior</i> , 2014, 22, 89-95.	1.1	7
75	People in the Paleolithic could access the whole spectrum of consciousness: response to Helvenston. <i>Adaptive Behavior</i> , 2014, 22, 282-285.	1.1	2
76	Motility at the Origin of Life: Its Characterization and a Model. <i>Artificial Life</i> , 2014, 20, 55-76.	1.0	33
77	Bio-machine Hybrid Technology: A Theoretical Assessment and Some Suggestions for Improved Future Design. <i>Philosophy and Technology</i> , 2014, 27, 539-560.	2.6	8
78	Embodied social interaction constitutes social cognition in pairs of humans: A minimalist virtual reality experiment. <i>Scientific Reports</i> , 2014, 4, 3672.	1.6	82
79	Reflections on the Complexity of Ancient Social Heterarchies: Toward New Models of Social Self-Organization in Pre-Hispanic Colombia. <i>Journal of Sociocybernetics</i> , 2014, 12, .	0.4	5
80	Interactively guided introspection is getting science closer to an effective consciousness meter. <i>Consciousness and Cognition</i> , 2013, 22, 672-676.	0.8	12
81	Is it normal to be a principal mindreader? Revising theories of social cognition on the basis of schizophrenia and high functioning autism-spectrum disorders. <i>Research in Developmental Disabilities</i> , 2013, 34, 1376-1387.	1.2	41
82	The brain is not an isolated "black box," nor is its goal to become one. <i>Behavioral and Brain Sciences</i> , 2013, 36, 213-214.	0.4	33
83	From synthetic modeling of social interaction to dynamic theories of brain-body-environment-body-brain systems. <i>Behavioral and Brain Sciences</i> , 2013, 36, 420-421.	0.4	21
84	The positive role of parasites in the origins of life. , 2013, , .		7
85	The dynamically extended mind. , 2013, , .		24
86	Turing instabilities in biology, culture, and consciousness? On the enactive origins of symbolic material culture. <i>Adaptive Behavior</i> , 2013, 21, 199-214.	1.1	40
87	From adaptive behavior to human cognition: a review of Enaction. <i>Adaptive Behavior</i> , 2012, 20, 209-221.	1.1	32
88	Getting interaction theory (IT) together. <i>Interaction Studies</i> , 2012, 13, 436-468.	0.4	38
89	The Enactive Torch: A New Tool for the Science of Perception. <i>IEEE Transactions on Haptics</i> , 2012, 5, 365-375.	1.8	61
90	Using Human-Computer Interfaces to Investigate "Mind-As-It-Could-Be"™ from the First-Person Perspective. <i>Cognitive Computation</i> , 2012, 4, 365-382.	3.6	27

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91	Imitation by social interaction? Analysis of a minimal agent-based model of the correspondence problem. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 202.	1.0	17
92	The extended body: a case study in the neurophenomenology of social interaction. <i>Phenomenology and the Cognitive Sciences</i> , 2012, 11, 205-235.	1.1	160
93	The Role of the Spatial Boundary in Autopoiesis. <i>Lecture Notes in Computer Science</i> , 2011, , 240-247.	1.0	16
94	The Use of a Distal-to-Tactile Sensory Substitution Interface Does Not Lead to Extension of Body Image. <i>BIO Web of Conferences</i> , 2011, 1, 00060.	0.1	2
95	From Secondâ€order Cybernetics to Enactive Cognitive Science: Varela's Turn From Epistemology to Phenomenology. <i>Systems Research and Behavioral Science</i> , 2011, 28, 631-645.	0.9	28
96	The enactive approach. <i>Pragmatics and Cognition</i> , 2011, 19, 1-36.	0.2	231
97	Toward Minimally Social Behavior: Social Psychology Meets Evolutionary Robotics. <i>Lecture Notes in Computer Science</i> , 2011, , 426-433.	1.0	12
98	Phenomenology and Artificial Life: Toward a Technological Supplementation of Phenomenological Methodology. <i>Husserl Studies</i> , 2010, 26, 83-106.	0.5	65
99	What is the relationship between behavioral robustness and distributed mechanisms of cognitive behavior?. , 2010, , .		3
100	Modelling social interaction as perceptual crossing: an investigation into the dynamics of the interaction process. <i>Connection Science</i> , 2010, 22, 43-68.	1.8	92
101	On the Role of Social Interaction in Individual Agency. <i>Adaptive Behavior</i> , 2009, 17, 444-460.	1.1	133
102	Hume and the enactive approach to mind. <i>Phenomenology and the Cognitive Sciences</i> , 2009, 8, 95-133.	1.1	13
103	Sociality and the lifeâ€mind continuity thesis. <i>Phenomenology and the Cognitive Sciences</i> , 2009, 8, 439-463.	1.1	74
104	Enactive artificial intelligence: Investigating the systemic organization of life and mind. <i>Artificial Intelligence</i> , 2009, 173, 466-500.	3.9	186
105	Stability of Coordination Requires Mutuality of Interaction in a Model of Embodied Agents. <i>Lecture Notes in Computer Science</i> , 2008, , 52-61.	1.0	17
106	Autonomy: A Review and a Reappraisal. , 2007, , 455-464.		28
107	On the Role of AI in the Ongoing Paradigm Shift within the Cognitive Sciences. , 2007, , 63-75.		8
108	Comparison of extrasystolic ECG signal classifiers using discrete wavelet transforms. <i>Pattern Recognition Letters</i> , 2006, 27, 393-407.	2.6	39

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109	Epilogue to "Questioning Life and Cognition" by John Stewart. Adaptive Behavior, 0, , 105971232110317.	1.1	1
110	The Behavior-Based Hypercycle: From Parasitic Reaction to Symbiotic Behavior. , 0, , .		9
111	Toward a behavior-based approach to the origins of life and the genetic system. , 0, , .		1
112	Capacity for social contingency detection continues to develop across adolescence. Social Development, 0, , .	0.8	1
113	The Problem of Meaning: The Free Energy Principle and Artificial Agency. Frontiers in Neurorobotics, 0, 16, .	1.6	10