# Nicole C Rust

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6138031/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 36<br>papers | 4,903<br>citations | 304743<br>22<br>h-index | 395702<br>33<br>g-index |
| 43<br>all docs | 43<br>docs citations | 43<br>times ranked | 4253<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | How Does the Brain Solve Visual Object Recognition?. Neuron, 2012, 73, 415-434. | 8.1 | 1,390 |
| 2 | Do We Know What the Early Visual System Does?. Journal of Neuroscience, 2005, 25, 10577-10597. | 3.6 | 563 |
| 3 | How MT cells analyze the motion of visual patterns. Nature Neuroscience, 2006, 9, 1421-1431. | 14.8 | 483 |
| 4 | Spatiotemporal Elements of Macaque V1 Receptive Fields. Neuron, 2005, 46, 945-956. | 8.1 | 388 |
| 5 | Spike-triggered neural characterization. Journal of Vision, 2006, 6, 13. | 0.3 | 336 |
| 6 | Selectivity and Tolerance (â€œInvarianceâ€) Both Increase as Visual Information Propagates from Cortical Area V4 to IT. Journal of Neuroscience, 2010, 30, 12978-12995. | 3.6 | 300 |
| 7 | Analyzing Neural Responses to Natural Signals: Maximally Informative Dimensions. Neural Computation, 2004, 16, 223-250. | 2.2 | 256 |
| 8 | In praise of artifice. Nature Neuroscience, 2005, 8, 1647-1650. | 14.8 | 208 |
| 9 | Norepinephrine-Deficient Mice Have Increased Susceptibility to Seizure-Inducing Stimuli. Journal of Neuroscience, 1999, 19, 10985-10992. | 3.6 | 124 |
| 10 | Signals in inferotemporal and perirhinal cortex suggest an untangling of visual target information. Nature Neuroscience, 2013, 16, 1132-1139. | 14.8 | 107 |
| 11 | Ethanol-Associated Behaviors of Mice Lacking Norepinephrine. Journal of Neuroscience, 2000, 20, 3157-3164. | 3.6 | 92 |
| 12 | The Citation Diversity Statement: A Practice of Transparency, A Way of Life. Trends in Cognitive Sciences, 2020, 24, 669-672. | 7.8 | 82 |
| 13 | Balanced Increases in Selectivity and Tolerance Produce Constant Sparseness along the Ventral Visual Stream. Journal of Neuroscience, 2012, 32, 10170-10182. | 3.6 | 65 |
| 14 | Dissociation of Neuronal and Psychophysical Responses to Local and Global Motion. Current Biology, 2011, 21, 2023-2028. | 3.9 | 58 |
| 15 | Ambiguity and invariance: two fundamental challenges for visual processing. Current Opinion in Neurobiology, 2010, 20, 382-388. | 4.2 | 51 |
| 16 | Characterization of a Phosphoinositide-mediated Odor Transduction Pathway Reveals Plasma Membrane Localization of an Inositol 1,4,5-Trisphosphate Receptor in Lobster Olfactory Receptor Neurons. Journal of Biological Chemistry, 2000, 275, 20450-20457. | 3.4 | 48 |
| 17 | Visual novelty, curiosity, and intrinsic reward in machine learning and the brain. Current Opinion in Neurobiology, 2019, 58, 167-174. | 4.2 | 44 |
| 18 | Single-exposure visual memory judgments are reflected in inferotemporal cortex. ELife, 2018, 7, . | 6.0 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Population response magnitude variation in inferotemporal cortex predicts image memorability. ELife, 2019, 8, . | 6.0 | 39 |
| 20 | Understanding Image Memorability. Trends in Cognitive Sciences, 2020, 24, 557-568. | 7.8 | 38 |
| 21 | Genetic Comparison of Seizure Control by Norepinephrine and Neuropeptide Y. Journal of Neuroscience, 2001, 21, 7764-7769. | 3.6 | 30 |
| 22 | A Reciprocal Relationship between Reliability and Responsiveness in Developing Visual Cortical Neurons. Journal of Neuroscience, 2002, 22, 10519-10523. | 3.6 | 24 |
| 23 | Neural Quadratic Discriminant Analysis: Nonlinear Decoding with V1-Like Computation. Neural Computation, 2016, 28, 2291-2319. | 2.2 | 23 |
| 24 | Priority coding in the visual system. Nature Reviews Neuroscience, 2022, 23, 376-388. | 10.2 | 19 |
| 25 | A call for more clarity around causality in neuroscience. Trends in Neurosciences, 2022, 45, 654-655. | 8.6 | 18 |
| 26 | Quantifying the signals contained in heterogeneous neural responses and determining their relationships with task performance. Journal of Neurophysiology, 2014, 112, 1584-1598. | 1.8 | 17 |
| 27 | Dynamic Target Match Signals in Perirhinal Cortex Can Be Explained by Instantaneous Computations That Act on Dynamic Input from Inferotemporal Cortex. Journal of Neuroscience, 2014, 34, 11067-11084. | 3.6 | 14 |
| 28 | Remembering the Past to See the Future. Annual Review of Vision Science, 2021, 7, 349-365. | 4.4 | 11 |
| 29 | Pinpointing the neural signatures of single-exposure visual recognition memory. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 8 |
| 30 | Inferotemporal cortex multiplexes behaviorally-relevant target match signals and visual representations in a manner that minimizes their interference. PLoS ONE, 2018, 13, e0200528. | 2.5 | 7 |
| 31 | Rethinking assumptions about how trial and nuisance variability impact neural task performance in a fast-processing regime. Journal of Neurophysiology, 2019, 121, 115-130. | 1.8 | 7 |
| 32 | The integration of visual and target signals in V4 and IT during visual object search. Journal of Neurophysiology, 2019, 122, 2522-2540. | 1.8 | 2 |
| 33 | Identifying Objects and Remembering Images: Insights From Deep Neural Networks. Current Directions in Psychological Science, 2022, 31, 316-323. | 5.3 | 2 |
| 34 | Do rats see like we see?. ELife, 2017, 6, . | 6.0 | 0 |
| 35 | A neural correlate of image memorability in inferotemporal cortex. Journal of Vision, 2019, 19, 91c. | 0.3 | 0 |
| 36 | Ritalin as a causal perturbation. Trends in Cognitive Sciences, 2022, 26, 542-543. | 7.8 | 0 |