

# Darcy Peterka

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1125678/publications.pdf>

Version: 2024-02-01

66  
papers

5,986  
citations

101384

36  
h-index

128067

60  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6566  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local feedback inhibition tightly controls rapid formation of hippocampal place fields. <i>Neuron</i> , 2022, 110, 783-794.e6.	3.8	36
2	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	1.7	17
3	Prolonged anesthesia alters brain synaptic architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
4	Evaluation of at-home methods for N95 filtering facepiece respirator decontamination. <i>Scientific Reports</i> , 2021, 11, 19750.	1.6	0
5	An Amygdala Circuit Mediates Experience-Dependent Momentary Arrests during Exploration. <i>Cell</i> , 2020, 183, 605-619.e22.	13.5	34
6	Acute Focal Seizures Start As Local Synchronizations of Neuronal Ensembles. <i>Journal of Neuroscience</i> , 2019, 39, 8562-8575.	1.7	63
7	Simultaneous two-photon imaging and two-photon optogenetics of cortical circuits in three dimensions. <i>ELife</i> , 2018, 7, .	2.8	167
8	Altered Cortical Ensembles in Mouse Models of Schizophrenia. <i>Neuron</i> , 2017, 94, 153-167.e8.	3.8	152
9	Imaging and Optically Manipulating Neuronal Ensembles. <i>Annual Review of Biophysics</i> , 2017, 46, 271-293.	4.5	90
10	Targeted intracellular voltage recordings from dendritic spines using quantum-dot-coated nanopipettes. <i>Nature Nanotechnology</i> , 2017, 12, 335-342.	15.6	107
11	Attenuation of Synaptic Potentials in Dendritic Spines. <i>Cell Reports</i> , 2017, 20, 1100-1110.	2.9	66
12	Reliable and Elastic Propagation of Cortical Seizures In Vivo. <i>Cell Reports</i> , 2017, 19, 2681-2693.	2.9	100
13	Multi-scale approaches for high-speed imaging and analysis of large neural populations. <i>PLoS Computational Biology</i> , 2017, 13, e1005685.	1.5	35
14	Modulation of nitrogen vacancy charge state and fluorescence in nanodiamonds using electrochemical potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3938-3943.	3.3	77
15	Imprinting and recalling cortical ensembles. <i>Science</i> , 2016, 353, 691-694.	6.0	263
16	Calcium imaging of neural circuits with extended depth-of-field light-sheet microscopy. <i>Optics Letters</i> , 2016, 41, 855.	1.7	71
17	Simultaneous Multi-plane Imaging of Neural Circuits. <i>Neuron</i> , 2016, 89, 269-284.	3.8	209
18	Simultaneous Denoising, Deconvolution, and Demixing of Calcium Imaging Data. <i>Neuron</i> , 2016, 89, 285-299.	3.8	843

#	ARTICLE	IF	CITATIONS
19	Dual-region in vivo Functional Imaging with a Spatial Light Modulator. , 2015, , .		1
20	Electrochemical potential control of charge state and fluorescence of nitrogen vacancy centers in nanodiamonds. , 2015, , .		1
21	Simultaneous imaging of neural activity in three dimensions. <i>Frontiers in Neural Circuits</i> , 2014, 8, 29.	1.4	79
22	The Pocketscope: a spatial light modulator based epi-fluorescence microscope for optogenetics. , 2014, , .		1
23	Spatial Light Modulator Microscopy. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top079517.	0.2	11
24	Nanotools for Neuroscience and Brain Activity Mapping. <i>ACS Nano</i> , 2013, 7, 1850-1866.	7.3	323
25	Instantaneous three-dimensional sensing using spatial light modulator illumination with extended depth of field imaging. <i>Optics Express</i> , 2013, 21, 16007.	1.7	90
26	Two-photon optogenetics of dendritic spines and neural circuits. <i>Nature Methods</i> , 2012, 9, 1202-1205.	9.0	255
27	Two-photon optogenetic toolbox for fast inhibition, excitation and bistable modulation. <i>Nature Methods</i> , 2012, 9, 1171-1179.	9.0	299
28	Optical control of focal epilepsy in vivo with caged $\gamma$ -aminobutyric acid. <i>Annals of Neurology</i> , 2012, 71, 68-75.	2.8	26
29	Imaging Voltage in Neurons. <i>Neuron</i> , 2011, 69, 9-21.	3.8	339
30	A Trimethoprimâ€Based Chemical Tag for Live Cell Twoâ€Photon Imaging. <i>ChemBioChem</i> , 2010, 11, 782-784.	1.3	23
31	A fast ruthenium polypyridine cage complex photoreleases glutamate with visible or IR light in one and two photon regimes. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 418-422.	1.5	104
32	Two-photon microscopy with diffractive optical elements and spatial light modulators. <i>Frontiers in Neuroscience</i> , 2010, 4, .	1.4	24
33	Fast two-photon neuronal imaging and control using a spatial light modulator and ruthenium compounds. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
34	A portable laser photostimulation and imaging microscope. <i>Journal of Neural Engineering</i> , 2010, 7, 045001.	1.8	17
35	RuBi-Glutamate: Two-photon and visible-light photoactivation of neurons and dendritic spines. <i>Frontiers in Neural Circuits</i> , 2009, 3, 2.	1.4	172
36	Photoelectron Imaging of Helium Droplets Doped with Xe and Kr Atoms. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9356-9365.	1.1	48

#	ARTICLE	IF	CITATIONS
37	SLM microscopy: scanless two-photon imaging and photostimulation using spatial light modulators. <i>Frontiers in Neural Circuits</i> , 2008, 2, 5.	1.4	297
38	The multiplexed chemical kinetic photoionization mass spectrometer: A new approach to isomer-resolved chemical kinetics. <i>Review of Scientific Instruments</i> , 2008, 79, 104103.	0.6	190
39	Photoionization Dynamics in Pure Helium Droplets. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7449-7459.	1.1	55
40	VUV photoelectron imaging of biological nanoparticles: Ionization energy determination of nanophase glycine and phenylalanine-glycine-glycine. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1884.	1.3	37
41	Vacuum Ultraviolet Photoionization of C3. <i>Journal of the American Chemical Society</i> , 2006, 128, 220-226.	6.6	55
42	Photoionization and Photofragmentation of SF6 in Helium Nanodroplets. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19945-19955.	1.2	36
43	Direct identification of propargyl radical in combustion flames by vacuum ultraviolet photoionization mass spectrometry. <i>Journal of Chemical Physics</i> , 2006, 124, 074302.	1.2	36
44	Photoionization of helium nanodroplets doped with rare gas atoms. <i>Journal of Chemical Physics</i> , 2006, 124, 214301.	1.2	43
45	Photoionization mass spectrometer for studies of flame chemistry with a synchrotron light source. <i>Review of Scientific Instruments</i> , 2005, 76, 094102.	0.6	208
46	Technical Reports: Atoms to Aerosols. The Chemical Dynamics Beamline. <i>Synchrotron Radiation News</i> , 2005, 18, 35-37.	0.2	1
47	Crossed beams study of the reaction $\text{CH}_2 + \text{C}_2\text{H}_2 \rightarrow \text{C}_3\text{H}_3 + \text{H}$ . <i>Journal of Chemical Physics</i> , 2004, 121, 6254-6257.	1.2	24
48	Tunable Synchrotron Vacuum Ultraviolet Ionization, Time-of-Flight Investigation of the Photodissociation of trans-Crotonaldehyde at 193 nm. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7895-7902.	1.1	8
49	Dissociative photoionization dynamics in ethane studied by velocity map imaging. <i>Chemical Physics Letters</i> , 2003, 374, 334-340.	1.2	9
50	Photoelectron Imaging of Helium Droplets. <i>Physical Review Letters</i> , 2003, 91, 043401.	2.9	68
51	High-resolution state-selected ion-molecule reaction studies using pulsed field ionization photoelectron-secondary ion coincidence method. <i>Review of Scientific Instruments</i> , 2003, 74, 4096-4109.	0.6	24
52	Selective detection of isomers with photoionization mass spectrometry for studies of hydrocarbon flame chemistry. <i>Journal of Chemical Physics</i> , 2003, 119, 8356-8365.	1.2	266
53	Exclusive production of excited-state sulfur (1D) atoms from 193 nm photolysis of thietane. <i>Chemical Physics Letters</i> , 2002, 357, 204-208.	1.2	10
54	Ion pair imaging spectroscopy: $\text{CH}_3\text{Cl}^+ \rightarrow \text{CH}_3^{++} + \text{Cl}^-$ . <i>Chemical Physics Letters</i> , 2001, 339, 203-208.	1.2	21

#	ARTICLE	IF	CITATIONS
55	Photodissociation of NO <sub>2</sub> near 225 nm by Velocity Map Imaging. , 2001, , 343-352.		6
56	H abstraction dynamics by crossed-beam velocity map imaging: Cl+CH <sub>3</sub> OH → CH <sub>2</sub> OH+HCl. Chemical Physics Letters, 2000, 317, 264-268.	1.2	41
57	Imaging H abstraction dynamics in crossed molecular beams: Cl+ROH reactions. Physical Chemistry Chemical Physics, 2000, 2, 861-868.	1.3	58
58	Unraveling the mysteries of metastable O <sub>4</sub> <sup>*</sup> . Journal of Chemical Physics, 1999, 110, 6095-6098.	1.2	33
59	Coherence in polyatomic photodissociation: Aligned O(3P) from photodissociation of NO <sub>2</sub> at 212.8 nm. Journal of Chemical Physics, 1999, 110, 4115-4118.	1.2	60
60	Crossed-beam reaction of O(1D)+D <sub>2</sub> → OD+D by velocity map imaging. Chemical Physics Letters, 1999, 301, 372-378.	1.2	67
61	Dissociative photoionization dynamics of SF <sub>6</sub> by ion imaging with synchrotron undulator radiation. Chemical Physics Letters, 1999, 312, 108-114.	1.2	31
62	Atomic orbital alignment and coherence in N <sub>2</sub> O photodissociation at 193.3 nm. Faraday Discussions, 1999, 113, 425-436.	1.6	41
63	The photodissociation of the vinyl radical (C <sub>2</sub> H <sub>3</sub> ) at 243 nm studied by velocity map imaging. Journal of Chemical Physics, 1999, 110, 4248-4253.	1.2	46
64	Velocity map imaging studies of the Lyman $\hat{\alpha}$ photodissociation mechanism for H atom production from hydrocarbons. Journal of Chemical Physics, 1998, 109, 4703-4706.	1.2	21
65	Direct detection and spectroscopy of O <sub>4</sub> <sup>*</sup> . Faraday Discussions, 1997, 108, 131-138.	1.6	14
66	Local Feedback Inhibition Tightly Controls Rapid Formation of Hippocampal Place Fields. SSRN Electronic Journal, 0, , .	0.4	3