

Darcy Peterka

List of Publications by Year in descending order

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66
papers

5,986
citations

101543

36
h-index

128289

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.	8.1	36
2	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	3.3	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, .	7.1	11
4	Evaluation of at-home methods for N95 filtering facepiece respirator decontamination. <i>Scientific Reports</i> , 2021, 11, 19750.	3.3	0
5	An Amygdala Circuit Mediates Experience-Dependent Momentary Arrests during Exploration. <i>Cell</i> , 2020, 183, 605-619.e22.	28.9	34
6	Acute Focal Seizures Start As Local Synchronizations of Neuronal Ensembles. <i>Journal of Neuroscience</i> , 2019, 39, 8562-8575.	3.6	63
7	Simultaneous two-photon imaging and two-photon optogenetics of cortical circuits in three dimensions. <i>ELife</i> , 2018, 7, .	6.0	167
8	Altered Cortical Ensembles in Mouse Models of Schizophrenia. <i>Neuron</i> , 2017, 94, 153-167.e8.	8.1	152
9	Imaging and Optically Manipulating Neuronal Ensembles. <i>Annual Review of Biophysics</i> , 2017, 46, 271-293.	10.0	90
10	Targeted intracellular voltage recordings from dendritic spines using quantum-dot-coated nanopipettes. <i>Nature Nanotechnology</i> , 2017, 12, 335-342.	31.5	107
11	Attenuation of Synaptic Potentials in Dendritic Spines. <i>Cell Reports</i> , 2017, 20, 1100-1110.	6.4	66
12	Reliable and Elastic Propagation of Cortical Seizures In Vivo. <i>Cell Reports</i> , 2017, 19, 2681-2693.	6.4	100
13	Multi-scale approaches for high-speed imaging and analysis of large neural populations. <i>PLoS Computational Biology</i> , 2017, 13, e1005685.	3.2	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.	7.1	77
15	Imprinting and recalling cortical ensembles. <i>Science</i> , 2016, 353, 691-694.	12.6	263
16	Calcium imaging of neural circuits with extended depth-of-field light-sheet microscopy. <i>Optics Letters</i> , 2016, 41, 855.	3.3	71
17	Simultaneous Multi-plane Imaging of Neural Circuits. <i>Neuron</i> , 2016, 89, 269-284.	8.1	209
18	Simultaneous Denoising, Deconvolution, and Demixing of Calcium Imaging Data. <i>Neuron</i> , 2016, 89, 285-299.	8.1	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.	2.8	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.	0.3	11
24	Nanotools for Neuroscience and Brain Activity Mapping. <i>ACS Nano</i> , 2013, 7, 1850-1866.	14.6	323
25	Instantaneous three-dimensional sensing using spatial light modulator illumination with extended depth of field imaging. <i>Optics Express</i> , 2013, 21, 16007.	3.4	90
26	Two-photon optogenetics of dendritic spines and neural circuits. <i>Nature Methods</i> , 2012, 9, 1202-1205.	19.0	255
27	Two-photon optogenetic toolbox for fast inhibition, excitation and bistable modulation. <i>Nature Methods</i> , 2012, 9, 1171-1179.	19.0	299
28	Optical control of focal epilepsy in vivo with caged γ -aminobutyric acid. <i>Annals of Neurology</i> , 2012, 71, 68-75.	5.3	26
29	Imaging Voltage in Neurons. <i>Neuron</i> , 2011, 69, 9-21.	8.1	339
30	A Trimethoprimâ€Based Chemical Tag for Live Cell Twoâ€Photon Imaging. <i>ChemBioChem</i> , 2010, 11, 782-784.	2.6	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.	3.5	104
32	Two-photon microscopy with diffractive optical elements and spatial light modulators. <i>Frontiers in Neuroscience</i> , 2010, 4, .	2.8	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.	3.5	17
35	RuBi-Glutamate: Two-photon and visible-light photoactivation of neurons and dendritic spines. <i>Frontiers in Neural Circuits</i> , 2009, 3, 2.	2.8	172
36	Photoelectron Imaging of Helium Droplets Doped with Xe and Kr Atoms. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9356-9365.	2.5	48

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37	SLM microscopy: scanless two-photon imaging and photostimulation using spatial light modulators. <i>Frontiers in Neural Circuits</i> , 2008, 2, 5.	2.8	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.	1.3	190
39	Photoionization Dynamics in Pure Helium Droplets. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7449-7459.	2.5	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.	2.8	37
41	Vacuum Ultraviolet Photoionization of C3. <i>Journal of the American Chemical Society</i> , 2006, 128, 220-226.	13.7	55
42	Photoionization and Photofragmentation of SF6 in Helium Nanodroplets. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19945-19955.	2.6	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.	3.0	36
44	Photoionization of helium nanodroplets doped with rare gas atoms. <i>Journal of Chemical Physics</i> , 2006, 124, 214301.	3.0	43
45	Photoionization mass spectrometer for studies of flame chemistry with a synchrotron light source. <i>Review of Scientific Instruments</i> , 2005, 76, 094102.	1.3	208
46	Technical Reports: Atoms to Aerosols. The Chemical Dynamics Beamline. <i>Synchrotron Radiation News</i> , 2005, 18, 35-37.	0.8	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.	3.0	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.	2.5	8
49	Dissociative photoionization dynamics in ethane studied by velocity map imaging. <i>Chemical Physics Letters</i> , 2003, 374, 334-340.	2.6	9
50	Photoelectron Imaging of Helium Droplets. <i>Physical Review Letters</i> , 2003, 91, 043401.	7.8	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.	1.3	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.	3.0	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.	2.6	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.	2.6	21

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55	Photodissociation of NO ₂ near 225 nm by Velocity Map Imaging. , 2001, , 343-352.		6
56	H abstraction dynamics by crossed-beam velocity map imaging: Cl+CH ₃ OH → CH ₂ OH+HCl. Chemical Physics Letters, 2000, 317, 264-268.	2.6	41
57	Imaging H abstraction dynamics in crossed molecular beams: Cl+ROH reactions. Physical Chemistry Chemical Physics, 2000, 2, 861-868.	2.8	58
58	Unraveling the mysteries of metastable O ₄ [*] . Journal of Chemical Physics, 1999, 110, 6095-6098.	3.0	33
59	Coherence in polyatomic photodissociation: Aligned O(3P) from photodissociation of NO ₂ at 212.8 nm. Journal of Chemical Physics, 1999, 110, 4115-4118.	3.0	60
60	Crossed-beam reaction of O(1D)+D ₂ → OD+D by velocity map imaging. Chemical Physics Letters, 1999, 301, 372-378.	2.6	67
61	Dissociative photoionization dynamics of SF ₆ by ion imaging with synchrotron undulator radiation. Chemical Physics Letters, 1999, 312, 108-114.	2.6	31
62	Atomic orbital alignment and coherence in N ₂ O photodissociation at 193.3 nm. Faraday Discussions, 1999, 113, 425-436.	3.2	41
63	The photodissociation of the vinyl radical (C ₂ H ₃) at 243 nm studied by velocity map imaging. Journal of Chemical Physics, 1999, 110, 4248-4253.	3.0	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.	3.0	21
65	Direct detection and spectroscopy of O ₄ [*] . Faraday Discussions, 1997, 108, 131-138.	3.2	14
66	Local Feedback Inhibition Tightly Controls Rapid Formation of Hippocampal Place Fields. SSRN Electronic Journal, 0, , .	0.4	3