

Adam W Smith

List of Publications by Year in descending order

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49
papers

2,890
citations

236925

25
h-index

223800

46
g-index

58
all docs

58
docs citations

58
times ranked

4118
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule FRET imaging of GPCR dimers in living cells. <i>Nature Methods</i> , 2021, 18, 397-405.	19.0	104
2	Structure–function analysis of oncogenic EGFR Kinase Domain Duplication reveals insights into activation and a potential approach for therapeutic targeting. <i>Nature Communications</i> , 2021, 12, 1382.	12.8	34
3	Interactions between semaphorins and plexin–neuropilin receptor complexes in the membranes of live cells. <i>Journal of Biological Chemistry</i> , 2021, 297, 100965.	3.4	9
4	An open-source dual-beam spectrophotometer for citizen-science-based water quality monitoring. <i>HardwareX</i> , 2021, 10, e00241.	2.2	5
5	Resolving Membrane Protein–Protein Interactions in Live Cells with Pulsed Interleaved Excitation Fluorescence Cross-Correlation Spectroscopy. <i>Accounts of Chemical Research</i> , 2020, 53, 792-799.	15.6	29
6	Covalently Immobilizing Interferon- β Drives Filopodia Production through Specific Receptor–Ligand Interactions Independently of Canonical Downstream Signaling. <i>Bioconjugate Chemistry</i> , 2020, 31, 1362-1369.	3.6	4
7	A Model Membrane Platform for Reconstituting Mitochondrial Membrane Dynamics. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	2
8	Two forms of Opa1 cooperate to complete fusion of the mitochondrial inner-membrane. <i>ELife</i> , 2020, 9, .	6.0	97
9	Quantifying Lipid Mobility and Peptide Binding for Gram-Negative and Gram-Positive Model Supported Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10433-10440.	2.6	11
10	Discoidin domain receptors: Micro insights into macro assemblies. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 118496.	4.1	18
11	A 3D-Printable Dual Beam Spectrophotometer with Multiplatform Smartphone Adaptor. <i>Journal of Chemical Education</i> , 2019, 96, 1527-1531.	2.3	40
12	Fluorescence cross-correlation spectroscopy of lipid-peptide interactions on supported lipid bilayers. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2019, 29, 49-68.	0.6	1
13	Quantifying membrane protein oligomerization with fluorescence cross-correlation spectroscopy. <i>Methods</i> , 2018, 140-141, 40-51.	3.8	31
14	The Retinitis Pigmentosa-Linked Mutations in Transmembrane Helix 5 of Rhodopsin Disrupt Cellular Trafficking Regardless of Oligomerization State. <i>Biochemistry</i> , 2018, 57, 5188-5201.	2.5	19
15	A novel pH-dependent membrane peptide that binds to EphA2 and inhibits cell migration. <i>ELife</i> , 2018, 7, .	6.0	36
16	Protein Trapping in Plasmonic Nanoslit and Nanolead Cavities: The Behavior and Sensing. <i>Analytical Chemistry</i> , 2017, 89, 5221-5229.	6.5	12
17	A role of the SAM domain in EphA2 receptor activation. <i>Scientific Reports</i> , 2017, 7, 45084.	3.3	36
18	A G Protein-Coupled Receptor Dimerization Interface in Human Cone Opsins. <i>Biochemistry</i> , 2017, 56, 61-72.	2.5	22

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19	Efficient Perovskite Hybrid Photovoltaics via Alcohol Vapor Annealing Treatment. <i>Advanced Functional Materials</i> , 2016, 26, 101-110.	14.9	117
20	Dynamic Organization of Myristoylated Src in the Live Cell Plasma Membrane. <i>Journal of Physical Chemistry B</i> , 2016, 120, 867-876.	2.6	14
21	Teaching UV-Vis Spectroscopy with a 3D-Printable Smartphone Spectrophotometer. <i>Journal of Chemical Education</i> , 2016, 93, 146-151.	2.3	126
22	Interactions and Translational Dynamics of Phosphatidylinositol Bisphosphate (PIP ₂) Lipids in Asymmetric Lipid Bilayers. <i>Langmuir</i> , 2016, 32, 1732-1741.	3.5	20
23	Molecular basis for multimerization in the activation of the epidermal growth factor receptor. <i>ELife</i> , 2016, 5, .	6.0	144
24	Decoding the Role of Receptor Dimerization in Plexin-Semaphorin Signaling. <i>Biophysical Journal</i> , 2015, 108, 257a.	0.5	1
25	E-cadherin junction formation involves an active kinetic nucleation process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10932-10937.	7.1	84
26	Tuning the Mobility Coupling of Quaternized Polyvinylpyridine and Anionic Phospholipids in Supported Lipid Bilayers. <i>Langmuir</i> , 2015, 31, 1784-1791.	3.5	10
27	Ultrasensitive solution-processed perovskite hybrid photodetectors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6600-6606.	5.5	104
28	Class A Plexins Are Organized as Preformed Inactive Dimers on the Cell Surface. <i>Biophysical Journal</i> , 2015, 109, 1937-1945.	0.5	21
29	PIE-FCCS Study of the Effects of Polycationic Macromolecules on Phosphatidylserine and Phosphatidylinositol Phosphate Lipid Mobility. <i>Biophysical Journal</i> , 2015, 108, 242a.	0.5	1
30	Detection of Rhodopsin Dimerization In Situ by PIE-FCCS, a Time-Resolved Fluorescence Spectroscopy. <i>Methods in Molecular Biology</i> , 2015, 1271, 205-219.	0.9	7
31	Time-Resolved Fluorescence Spectroscopy Measures Clustering and Mobility of a G Protein-Coupled Receptor Opsin in Live Cell Membranes. <i>Journal of the American Chemical Society</i> , 2014, 136, 8342-8349.	13.7	56
32	Ratiometric Imaging of the T-Cell Actin Cytoskeleton Reveals the Nature of Receptor-Induced Cytoskeletal Enrichment. <i>Biophysical Journal</i> , 2013, 105, L11-L13.	0.5	7
33	Conformational Coupling across the Plasma Membrane in Activation of the EGF Receptor. <i>Cell</i> , 2013, 152, 543-556.	28.9	423
34	Characterization of dynamic actin associations with T-cell receptor microclusters in primary T cells. <i>Journal of Cell Science</i> , 2012, 125, 735-742.	2.0	55
35	Monitoring Lipid Anchor Organization in Cell Membranes by PIE-FCCS. <i>Journal of the American Chemical Society</i> , 2012, 134, 10833-10842.	13.7	43
36	Lipid-protein interactions in biological membranes: A dynamic perspective. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 172-177.	2.6	73

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37	Investigating Cell Surface Galectin-Mediated Cross-Linking on Glycoengineered Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 9549-9552.	13.7	70
38	Patterned Two-Photon Photoactivation Illuminates Spatial Reorganization in Live Cells. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3867-3875.	2.5	18
39	Concentration Dependent Membrane Anchor Colocalization Study by Fluorescence Cross-Correlation Spectroscopy in Live Cells. <i>Biophysical Journal</i> , 2011, 100, 630a.	0.5	0
40	Melting of a $\hat{\text{I}}^2$ -Hairpin Peptide Using Isotope-Edited 2D IR Spectroscopy and Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10913-10924.	2.6	97
41	Membrane Anchor Dependent Colocalization in Cellular Membranes Observed by Fluorescence Cross-Correlation Spectroscopy. <i>Biophysical Journal</i> , 2010, 98, 305a.	0.5	0
42	Amide I Two-Dimensional Infrared Spectroscopy of Proteins. <i>Accounts of Chemical Research</i> , 2008, 41, 432-441.	15.6	427
43	Transient two-dimensional IR spectrometer for probing nanosecond temperature-jump kinetics. <i>Review of Scientific Instruments</i> , 2007, 78, 063101.	1.3	66
44	Amide I two-dimensional infrared spectroscopy of $\hat{\text{I}}^2$ -hairpin peptides. <i>Journal of Chemical Physics</i> , 2007, 126, 045109.	3.0	74
45	Probing Local Structural Events in $\hat{\text{I}}^2$ -Hairpin Unfolding with Transient Nonlinear Infrared Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7984-7987.	13.8	53
46	Multidimensional IR Spectroscopy of Site-Specific Hairpin Folding. <i>Springer Series in Chemical Physics</i> , 2007, , 350-352.	0.2	0
47	From The Cover: Conformational changes during the nanosecond-to-millisecond unfolding of ubiquitin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 612-617.	7.1	150
48	Residual Native Structure in a Thermally Denatured $\hat{\text{I}}^2$ -Hairpin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17025-17027.	2.6	60
49	Optical spectroscopy of tungsten carbide (WC). <i>Journal of Chemical Physics</i> , 2002, 116, 993-1002.	3.0	48