Andre Zeug

List of Publications by Year in descending order

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67 papers	2,918 citations	218381 26 h-index	174990 52 g-index
73 all docs	73 docs citations	73 times ranked	5341 citing authors

#	Article	IF	Citations
1	3dSpAn: An interactive software for 3D segmentation and analysis of dendritic spines. Neuroinformatics, 2022, 20, 679-698.	1.5	10
2	Supramolecular assembly of GSK3Î± as a cellular response to amino acid starvation. Molecular Cell, 2022, 82, 2858-2870.e8.	4.5	3
3	Serotonin receptor 4 regulates hippocampal astrocyte morphology and function. Glia, 2021, 69, 872-889.	2.5	15
4	Amelioration of Tau pathology and memory deficits by targeting 5-HT7 receptor. Progress in Neurobiology, 2021, 197, 101900.	2.8	15
5	mTORC1 activity is supported by spatial association with focal adhesions. Journal of Cell Biology, 2021, 220, .	2.3	41
6	The 5-HT4 receptor interacts with adhesion molecule L1 to modulate morphogenic signaling in neurons. Journal of Cell Science, 2021, 134, .	1.2	4
7	Knowledge-Based Design of Long-Chain Arylpiperazine Derivatives Targeting Multiple Serotonin Receptors as Potential Candidates for Treatment of Autism Spectrum Disorder. ACS Chemical Neuroscience, 2021, 12, 1313-1327.	1.7	10
8	Elucidating regulators of astrocytic Ca²⁺ signaling via multiâ€threshold event detection (<scp>MTED</scp>). Glia, 2021, 69, 2798-2811.	2.5	3
9	DHHC7-mediated palmitoylation of the accessory protein barttin critically regulates the functions of ClC-K chloride channels. Journal of Biological Chemistry, 2020, 295, 5970-5983.	1.6	9
10	Local Resting Ca2+ Controls the Scale of Astroglial Ca2+ Signals. Cell Reports, 2020, 30, 3466-3477.e4.	2.9	38
11	Serotonin 5-HT4 receptor boosts functional maturation of dendritic spines via RhoA-dependent control of F-actin. Communications Biology, 2020, 3, 76.	2.0	26
12	Calciumâ€sensing receptor regulates intestinal dipeptide absorption via Ca ²⁺ signaling and IK _{Ca} activation. Physiological Reports, 2020, 8, e14337.	0.7	8
13	Abstract PR06: Spatial sequestration of GSKÎ± as a cellular response to amino acid starvation. , 2020, , .		0
14	Large scale, unbiased analysis of elementary calcium signaling events in cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2019, 135, 79-89.	0.9	17
15	Serotonin receptor oligomerization regulates cAMP-based signaling. Journal of Cell Science, 2019, 132, .	1.2	14
16	Attenuated palmitoylation of serotonin receptor 5-HT1A affects receptor function and contributes to depression-like behaviors. Nature Communications, 2019, 10, 3924.	5.8	100
17	Fluorinated indole-imidazole conjugates: Selective orally bioavailable 5-HT7 receptor low-basicity agonists, potential neuropathic painkillers. European Journal of Medicinal Chemistry, 2019, 170, 261-275.	2.6	22
18	The guanine nucleotide exchange factor Vav3 modulates oligodendrocyte precursor differentiation and supports remyelination in white matter lesions. Glia, 2019, 67, 376-392.	2.5	22

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19	Spermidine protects from age-related synaptic alterations at hippocampal mossy fiber-CA3 synapses. Scientific Reports, 2019, 9, 19616.	1.6	33
20	Inducible Phase Separation of GSK3Î± As a Mechanism for Asparaginase Resistance in Acute Leukemias. Blood, 2019, 134, 169-169.	0.6	0
21	Control of astrocyte morphology by Rho GTPases. Brain Research Bulletin, 2018, 136, 44-53.	1.4	48
22	Optogenetic Tools in the Microscopy of Cardiac Excitation-Contraction Coupling. , 2018, , 97-117.		6
23	Role of Membrane Microdomains in Serotonin Receptor Functions. Springer Series in Biophysics, 2017, , 259-286.	0.4	0
24	Overexpression of the Endosomal Anion/Proton Exchanger ClC-5 Increases Cell Susceptibility toward Clostridium difficile Toxins TcdA and TcdB. Frontiers in Cellular and Infection Microbiology, 2017, 7, 67.	1.8	2
25	Astroglial Glutamate Signaling and Uptake in the Hippocampus. Frontiers in Molecular Neuroscience, 2017, 10, 451.	1.4	148
26	C2-domain mediated nano-cluster formation increases calcium signaling efficiency. Scientific Reports, 2016, 6, 36028.	1.6	15
27	Revisiting adult neurogenesis and the role of erythropoietin for neuronal and oligodendroglial differentiation in the hippocampus. Molecular Psychiatry, 2016, 21, 1752-1767.	4.1	86
28	Cleavage of Hyaluronan and CD44 Adhesion Molecule Regulate Astrocyte Morphology via Rac1 Signalling. PLoS ONE, 2016, 11, e0155053.	1.1	41
29	Large-Scale, Automated Calcium Spark Analysis using iSpark Reveals Functional and Spatial Remodeling During Cardiac Hypertrophy. Biophysical Journal, 2015, 108, 340a.	0.2	0
30	eSIP: A Novel Solution-Based Sectioned Image Property Approach for Microscope Calibration. PLoS ONE, 2015, 10, e0134980.	1.1	10
31	Cardiac fibroblastâ€“derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. Journal of Clinical Investigation, 2014, 124, 2136-2146.	3.9	803
32	Current microscopic methods for the neural ECM analysis. Progress in Brain Research, 2014, 214, 287-312.	0.9	4
33	Genetically encoded FRET-based biosensor for imaging MMP-9 activity. Biomaterials, 2014, 35, 1402-1410.	5.7	42
34	Analysis of Receptorâ€“Receptor Interaction by Combined Application of FRET and Microscopy. Methods in Cell Biology, 2013, 117, 243-265.	0.5	13
35	Quantitative Intensity-Based FRET Approachesâ€”A Comparative Snapshot. Biophysical Journal, 2012, 103, 1821-1827.	0.2	111
36	Computational and Experimental Analysis of the Transmembrane Domain 4/5 Dimerization Interface of the Serotonin 5-HT_{1A} Receptor. Molecular Pharmacology, 2012, 82, 448-463.	1.0	47

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37	Model for the Oligomer Formation of Serotonin Receptors Based on Quantitative lux-FRET Measurements. Biophysical Journal, 2012, 102, 515a.	0.2	0
38	Heterodimerization of serotonin receptors 5-HT1A and 5-HT7 differentially regulates receptor signalling and trafficking. Journal of Cell Science, 2012, 125, 2486-99.	1.2	163
39	Optical Action Potential Screening on Adult Ventricular Myocytes as an Alternative QT-screen. Cellular Physiology and Biochemistry, 2011, 27, 281-290.	1.1	30
40	Optical Measurement of Action Potential in Adult Ventricular Myocytes. Biophysical Journal, 2011, 100, 292a.	0.2	2
41	Ratiometric high-resolution imaging of JC-1 fluorescence reveals the subcellular heterogeneity of astrocytic mitochondria. Pflugers Archiv European Journal of Physiology, 2011, 462, 693-708.	1.3	89
42	An Ion-insensitive cAMP Biosensor for Long Term Quantitative Ratiometric Fluorescence Resonance Energy Transfer (FRET) Measurements under Variable Physiological Conditions. Journal of Biological Chemistry, 2011, 286, 23419-23431.	1.6	28
43	Homodimerization of the Src Homology 3 Domain of the Calcium Channel Î²-Subunit Drives Dynamin-dependent Endocytosis. Journal of Biological Chemistry, 2011, 286, 22203-22210.	1.6	33
44	The spinal muscular atrophy disease protein SMN is linked to the rho-kinase pathway via profilin. Human Molecular Genetics, 2011, 20, 4865-4878.	1.4	120
45	Fibronectin stimulates Escherichia coli phagocytosis by microglial cells. Glia, 2010, 58, 367-376.	2.5	18
46	Toll-Like Receptor Prestimulation Increases Phagocytosis ofEscherichia coliDH5Î± andEscherichia coliK1 Strains by Murine Microglial Cells. Infection and Immunity, 2009, 77, 557-564.	1.0	70
47	Blind Source Separation Techniques for the Decomposition of Multiply Labeled Fluorescence Images. Biophysical Journal, 2009, 96, 3791-3800.	0.2	113
48	Blind Source Separation Techniques For The Decomposition Of Multiply Labeled Fluorescence Images. Biophysical Journal, 2009, 96, 32a.	0.2	3
49	Resolution in the ApoTome and the confocal laser scanning microscope: comparison. Journal of Biomedical Optics, 2009, 14, 014022.	1.4	31
50	Blind Decomposition of Spectral Imaging Microscopy: A Study on Artificial and Real Test Data. Lecture Notes in Computer Science, 2009, , 548-556.	1.0	6
51	Automatic Calcium Spark Detection and Analysis in Time Series of Two-Dimensional Confocal Images. Biophysical Journal, 2009, 96, 278a.	0.2	1
52	Stimulation- and palmitoylation-dependent changes in oligomeric conformation of serotonin 5-HT1A receptorsi. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1503-1516.	1.9	48
53	Analysis of FRET Signals in the Presence of Free Donors and Acceptors. Biophysical Journal, 2008, 94, 986-1000.	0.2	130
54	Quantitative Measurement of cAMP Concentration Using an Exchange Protein Directly Activated by a cAMP-Based FRET-Sensor. Biophysical Journal, 2008, 95, 5412-5423.	0.2	28

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55	Fluorescence anisotropy and transient absorption of halogenated silicon(IV) phthalocyanines with axial poly(ethylene-glycol) substituents. Journal of Porphyrins and Phthalocyanines, 2005, 09, 298-302.	0.4	5
56	Preparation and photophysical properties of halogenated silicon(IV) phthalocyanines substituted axially with poly(ethylene glycol) chains. Tetrahedron Letters, 2003, 44, 1967-1970.	0.7	38
57	An Axially Grafted Charm Bracelet Type Indium Phthalocyanine Copolymer. Macromolecules, 2003, 36, 3786-3788.	2.2	18
58	A generalization of the Jablonski diagram to account for polarization and anisotropy effects in time-resolved experiments. Physical Chemistry Chemical Physics, 2003, 5, 2964-2969.	1.3	21
59	Highly efficient optical reconstruction of digital holograms for deformation and shape control. , 2003, , .		1
60	Microcrystalline cellulose as a carrier for hydrophobic photosensitizers in water. Photochemical and Photobiological Sciences, 2002, 1, 198-203.	1.6	14
61	Photophysics on surfaces: Absorption and luminescence properties of Pheophorbide-a on cellulose. Physical Chemistry Chemical Physics, 2001, 3, 1524-1529.	1.3	25
62	Observation of the phase transition in phospholipid liposomes taking advantage of the particular optical properties of octa-Î±-butyloxy-H2phthalocyanines. Journal of Porphyrins and Phthalocyanines, 2001, 05, 663-667.	0.4	2
63	Picosecond transient dichroism and birefringence spectroscopy on pheophorbide-a molecules in solution. Journal of Optics B: Quantum and Semiclassical Optics, 2001, 3, S251-S258.	1.4	6
64	Orientational relaxation of pheophorbide-a molecules in the ground and in the first excited state measured by transient dichroism spectroscopy. Optics Communications, 1999, 170, 361-372.	1.0	7
65	Non-linear and transient absorption spectroscopy of magnesium(II)-tetrabenzoporphyrin in solution. Optics Communications, 1998, 155, 135-143.	1.0	37
66	On the Influence of Higher Excited States on the ISC Quantum Yield of Octaâ€aLâ€alkyloxyâ€substituted Znâ€Phthalocyanine Molecules Studied by Nonlinear Absorption. Photochemistry and Photobiology, 1997, 66, 576-584.	1.3	59
67	Oligomerization and Spatial Distribution of KvÎ²1.1 and KvÎ²2.1 Regulatory Subunits. Frontiers in Physiology, 0, 13, .	1.3	1