Andreas Hennig

List of Publications by Year
in descending order

Version: 2024-02-01

70 papers	3,727 citations	172457 29 h-index	128289 60 g-index
77 all docs	77 docs citations	77 times ranked	3956 citing authors

#	Article	IF	Citations
1	Experimental evidence for the functional relevance of anionâ€“Ï€ interactions. Nature Chemistry, 2010, 2, 533-538.	13.6	434
2	Label-free continuous enzyme assays with macrocycle-fluorescent dye complexes. Nature Methods, 2007, 4, 629-632.	19.0	397
3	Synthetic Ion Transporters that Work with Anionâˆ’Ï€ Interactions, Halogen Bonds, and Anionâ€“Macrodipole Interactions. Accounts of Chemical Research, 2013, 46, 2791-2800.	15.6	260
4	Substrate-Selective Supramolecular Tandem Assays: Monitoring Enzyme Inhibition of Arginase and Diamine Oxidase by Fluorescent Dye Displacement from Calixarene and Cucurbituril Macrocycles. Journal of the American Chemical Society, 2009, 131, 11558-11570.	13.7	203
5	Supramolecular Tandem Enzyme Assays for Multiparameter Sensor Arrays and Enantiomeric Excess Determination of Amino Acids. Chemistry - A European Journal, 2008, 14, 6069-6077.	3.3	176
6	Discovery of Complex Mixtures of Novel Long-Chain Quorum Sensing Signals in Free-Living and Host-Associated Marine Alphaproteobacteria. ChemBioChem, 2005, 6, 2195-2206.	2.6	166
7	Nanomolar Binding of Steroids to Cucurbit[n]urils: Selectivity and Applications. Journal of the American Chemical Society, 2016, 138, 13022-13029.	13.7	143
8	Supramolecular Tandem Enzyme Assays. Chemistry - A European Journal, 2012, 18, 3444-3459.	3.3	130
9	Stimuli-Responsive Polyguanidino-Oxanorbornene Membrane Transporters as Multicomponent Sensors in Complex Matrices. Journal of the American Chemical Society, 2008, 130, 10338-10344.	13.7	115
10	Anionâˆ’Macrodipole Interactions: Self-Assembling Oligourea/Amide Macrocycles as Anion Transporters that Respond to Membrane Polarization. Journal of the American Chemical Society, 2009, 131, 16889-16895.	13.7	110
11	A 10-Ã... Spectroscopic Ruler Applied to Short Polyprolines. Journal of the American Chemical Society, 2007, 129, 9762-9772.	13.7	87
12	Scope and Limitations of Surface Functional Group Quantification Methods: Exploratory Study with Poly(acrylic acid)-Grafted Micro- and Nanoparticles. Journal of the American Chemical Society, 2012, 134, 8268-8276.	13.7	87
13	Identification, classification, and signal amplification capabilities of high-turnover gas binding hosts in ultra-sensitive NMR. Chemical Science, 2015, 6, 6069-6075.	7.4	72
14	Fluorescence Monitoring of Peptide Transport Pathways into Large and Giant Vesicles by Supramolecular Hostâ€“Dye Reporter Pairs. Journal of the American Chemical Society, 2019, 141, 20137-20145.	13.7	69
15	Pattern generation with synthetic sensing systems in lipid bilayer membranes. Chemical Science, 2011, 2, 303-307.	7.4	67
16	Energy and Electron Transfer Dynamics within a Series of Perylene Diimide/Cyclophane Systems. Journal of the American Chemical Society, 2015, 137, 15299-15307.	13.7	64
17	Boron clusters as broadband membrane carriers. Nature, 2022, 603, 637-642.	27.8	62
18	Effects of cucurbit[7]uril on enzymatic activity. Chemical Communications, 2007, , 1614.	4.1	57

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19	Supramolecular Assays for Mapping Enzyme Activity by Displacementâ€Triggered Change in Hyperpolarized ¹²⁹Xe Magnetization Transfer NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 13444-13447.	13.8	55
20	Simple Colorimetric Method for Quantification of Surface Carboxy Groups on Polymer Particles. Analytical Chemistry, 2011, 83, 4970-4974.	6.5	49
21	Phosphorylationâ€Responsive Membrane Transport of Peptides. Angewandte Chemie - International Edition, 2017, 56, 15742-15745.	13.8	49
22	Single-Label Kinase and Phosphatase Assays for Tyrosine Phosphorylation Using Nanosecond Time-Resolved Fluorescence Detection. Journal of the American Chemical Society, 2007, 129, 15927-15934.	13.7	47
23	Biomembrane Interactions of Functionalized Cryptophaneâ€A: Combined Fluorescence and ¹²⁹Xe NMR Studies of a Bimodal Contrast Agent. Chemistry - A European Journal, 2013, 19, 3110-3118.	3.3	47
24	Hierarchical hostâ€“guest assemblies formed on dodecaborate-coated gold nanoparticles. Chemical Communications, 2017, 53, 4616-4619.	4.1	40
25	Surface Analytical Study of Poly(acrylic acid)-Grafted Microparticles (Beads): Characterization, Chemical Derivatization, and Quantification of Surface Carboxyl Groups. Journal of Physical Chemistry C, 2014, 118, 20393-20404.	3.1	39
26	Ratiometric DNA sensing with a hostâ€“guest FRET pair. Chemical Communications, 2019, 55, 671-674.	4.1	39
27	Supramolecular Chemistry in the Biomembrane. ChemBioChem, 2020, 21, 886-910.	2.6	39
28	Quantification of surface functional groups on polymer microspheres by supramolecular hostâ€“guest interactions. Chemical Communications, 2011, 47, 7842.	4.1	38
29	Fluorescent artificial receptor-based membrane assay (FARMA) for spatiotemporally resolved monitoring of biomembrane permeability. Communications Biology, 2020, 3, 383.	4.4	32
30	En route to traceable reference standards for surface group quantifications by XPS, NMR and fluorescence spectroscopy. Analyst, The, 2015, 140, 1804-1808.	3.5	31
31	Nanosecond Time-Resolved Fluorescence Protease Assays. ChemBioChem, 2006, 7, 733-737.	2.6	29
32	Colorful methods to detect ion channels and pores: intravesicular chromogenic probes that respond to pH, pM and covalent capture. Organic and Biomolecular Chemistry, 2009, 7, 1784.	2.8	28
33	Simple and rapid quantification of phospholipids for supramolecular membrane transport assays. Organic and Biomolecular Chemistry, 2016, 14, 2182-2185.	2.8	27
34	Design of peptide substrates for nanosecond time-resolved fluorescence assays of proteases: 2,3-Diazabicyclo[2.2.2]oct-2-ene as a noninvasive fluorophore. Analytical Biochemistry, 2007, 360, 255-265.	2.4	25
35	Detection of the activity of ion channels and pores by circular dichroism spectroscopy: Gâ€quartets as functional CD probes within chirogenic vesicles. Chirality, 2008, 20, 932-937.	2.6	23
36	A Label-Free Continuous Fluorescence-Based Assay for Monitoring Ornithine Decarboxylase Activity with a Synthetic Putrescine Receptor. SLAS Discovery, 2017, 22, 906-914.	2.7	23

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37	Excitation energy migration and trapping on the surface of fluorescent poly(acrylic acid)-grafted polymer particles. Photochemical and Photobiological Sciences, 2013, 12, 729-737.	2.9	21
38	A reference scale of cucurbit[7]uril binding affinities. Organic and Biomolecular Chemistry, 2021, 19, 8521-8529.	2.8	21
39	Squeezing Fluorescent Dyes into Nanoscale Containersâ€"The Supramolecular Approach to Radiative Decay Engineering. Springer Series on Fluorescence, 2007, , 185-211.	0.8	20
40	Timeâ€resolved monitoring of enzyme activity with ultrafast Hyperâ€CEST spectroscopy. Magnetic Resonance in Chemistry, 2018, 56, 679-688.	1.9	20
41	An Amphiphilic Sulfonatocalix[5]arene as an Activator for Membrane Transport of Lysineâ€rich Peptides and Proteins. Angewandte Chemie - International Edition, 2021, 60, 1875-1882.	13.8	18
42	Precise supramolecular control of surface coverage densities on polymer micro- and nanoparticles. Chemical Science, 2018, 9, 8575-8581.	7.4	17
43	Real-Time Parallel Artificial Membrane Permeability Assay Based on Supramolecular Fluorescent Artificial Receptors. Frontiers in Chemistry, 2020, 8, 597927.	3.6	17
44	Membrane Permeability and Its Activation Energies in Dependence on Analyte, Lipid, and Phase Type Obtained by the Fluorescent Artificial Receptor Membrane Assay. ACS Sensors, 2021, 6, 175-182.	7.8	16
45	Hydrazinoanthrylboronic acids as excitonâ€coupled circular dichroism (ECCD) probes for multivalent catechols, particularly epigallocatechin gallate. Chirality, 2009, 21, 826-835.	2.6	15
46	A supramolecular five-component relay switch that exposes the mechanistic competition of dissociativeversusassociative binding to cucurbiturils by ratiometric fluorescence monitoring. Chemical Communications, 2019, 55, 14123-14126.	4.1	15
47	Photophysics and Release Kinetics of Enzyme-Activatable Optical Probes Based on H-Dimerized Fluorophores on Self-Immolative Linkers. Journal of Physical Chemistry B, 2013, 117, 14336-14344.	2.6	14
48	Gold nanoparticle aggregation enables colorimetric sensing assays for enzymatic decarboxylation. Analytical Methods, 2017, 9, 2784-2787.	2.7	14
49	A fluorescent, supramolecular chemosensor to follow steroid depletion in bacterial cultures. Analytical and Bioanalytical Chemistry, 2017, 409, 6485-6494.	3.7	14
50	Rational design of boron-dipyrromethene (BODIPY) reporter dyes for cucurbit[7]uril. Beilstein Journal of Organic Chemistry, 2018, 14, 1961-1971.	2.2	14
51	Labelâ€Free Fluorescent Kinase and Phosphatase Enzyme Assays with Supramolecular Hostâ€Dye Pairs. ChemistryOpen, 2019, 8, 1350-1354.	1.9	14
52	Chiral, J-Aggregate-Forming Dyes for Alternative Signal Modulation Mechanisms in Self-Immolative Enzyme-Activatable Optical Probes. Journal of Physical Chemistry B, 2016, 120, 877-885.	2.6	12
53	Synthesis and photophysical properties of inclusion complexes between conjugated polyazomethines with Î³-cyclodextrin and its tris-O-methylated derivative. European Polymer Journal, 2019, 113, 236-243.	5.4	12
54	Phosphorylierung reguliert den Membrantransport von Peptiden. Angewandte Chemie, 2017, 129, 15948-15951.	2.0	10

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55	Characterization of mixed-ligand shells on gold nanoparticles by transition metal and supramolecular surface probes. Analyst, The, 2019, 144, 579-586.	3.5	10
56	Protonâ€Gradientâ€Driven Sensitivity Enhancement of Liposomeâ€Encapsulated Supramolecular Chemosensors. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
57	Temperature-dependent loop formation kinetics in flexible peptides studied by time-resolved fluorescence spectroscopy. International Journal of Photoenergy, 2006, 2006, 1-9.	2.5	7
58	Bridgehead carboxy-substituted 2,3-diazabicyclo[2.2.2]oct-2-enes: synthesis, fluorescent properties, and host-guest complexation. Arkivoc, 2007, 2007, 341-357.	0.5	7
59	Enzyme assays with supramolecular chemosensors â€“ the label-free approach. RSC Advances, 2022, 12, 10725-10748.	3.6	7
60	Supramolecular Enzyme Assays. Monographs in Supramolecular Chemistry, 2013, , 355-396.	0.2	5
61	CD Methods Development at the Bio-Nano Interface. Chimia, 2008, 62, 493-496.	0.6	4
62	Interaction of Cucurbit[7]uril With Protease Substrates: Application to Nanosecond Time-Resolved Fluorescence Assays. Frontiers in Chemistry, 2020, 8, 806.	3.6	4
63	Chirality sensing with pores: Reactive signal amplifiers for otherwise undetectable small molecules. Chirality, 2009, 21, 145-151.	2.6	3
64	Artificial tongues and leaves. Pure and Applied Chemistry, 2008, 80, 1873-1882.	1.9	2
65	An Amphiphilic Sulfonatocalix[5]arene as an Activator for Membrane Transport of Lysineâ€rich Peptides and Proteins. Angewandte Chemie, 2021, 133, 1903-1910.	2.0	2
66	The relationship between solvatochromic properties and in silico ADME parameters of new chloroethylnitrosourea derivatives with potential anticancer activity and their Î²-Cyclodextrin complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 253, 119579.	3.9	1
67	Lysine decarboxylase assay with cucurbituril (cucurbit-7-uril). Protocol Exchange, 0, , .	0.3	1
68	Functional Biosupramolecular Systems. Chimia, 2009, 63, 881.	0.6	0
69	Protonâ€Gradientâ€Driven Sensitivity Enhancement of Liposomeâ€Encapsulated Supramolecular Chemosensors. Angewandte Chemie, 0, , .	2.0	0
70	Dynamically Self-Assembled Supramolecular Probes in Liposomes. Organic Materials, 0, , .	2.0	0