

Gerd Ulrich Nienhaus

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

396
papers

23,755
citations

82
h-index

142
g-index

475
ext. papers

25,940
ext. citations

6.3
avg, IF

7.13
L-index

#	Paper	IF	Citations
396	Two plus one is almost three: a fast approximation for multi-view deconvolution.. <i>Biomedical Optics Express</i> , 2022 , 13, 147-158	3.5	0
395	Allele-specific endogenous tagging and quantitative analysis of Eatenin in colorectal cancer cells.. <i>ELife</i> , 2022 , 11,	8.9	1
394	A chemical probe for BAG1 targets androgen receptor-positive prostate cancer through oxidative stress signaling pathway.. <i>IScience</i> , 2022 , 25, 104175	6.1	0
393	Exploring the energy landscape of a SAM-I riboswitch. <i>Journal of Biological Physics</i> , 2021 , 47, 371-386	1.6	0
392	Axial line-scanning stimulated emission depletion fluorescence correlation spectroscopy. <i>Optics Letters</i> , 2021 , 46, 2184-2187	3	1
391	Efficiency of bulk perovskite-sensitized upconversion: Illuminating matters. <i>Applied Physics Letters</i> , 2021 , 118, 203903	3.4	7
390	Fluorescence Lifetime Imaging Microscopy (FLIM) of Intracellular Transport by Means of Doubly Labelled siRNA Architectures. <i>ChemBioChem</i> , 2021 , 22, 2561-2567	3.8	1
389	Fluorescent proteins of the EosFP clade: intriguing marker tools with multiple photoactivation modes for advanced microscopy. <i>RSC Chemical Biology</i> , 2021 , 2, 796-814	3	1
388	Wavelet-based background and noise subtraction for fluorescence microscopy images. <i>Biomedical Optics Express</i> , 2021 , 12, 969-980	3.5	5
387	Super-resolution RNA imaging using a rhodamine-binding aptamer with fast exchange kinetics. <i>Nature Biotechnology</i> , 2021 , 39, 686-690	44.5	27
386	Impact of Transition Metal Doping on the Structural and Optical Properties of Halide Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 6099-6107	9.6	0
385	RNA polymerase II clusters form in line with surface condensation on regulatory chromatin. <i>Molecular Systems Biology</i> , 2021 , 17, e10272	12.2	8
384	One-Step Fabrication of Perovskite-Based Upconversion Devices. <i>ChemPhotoChem</i> , 2020 , 4, 704	3.3	11
383	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. <i>PLoS Genetics</i> , 2020 , 16, e1008774	6	11
382	Localization Microscopy. <i>PhotonicsViews</i> , 2020 , 17, 27-31	0.4	0
381	Nanoparticles for biomedical applications: exploring and exploiting molecular interactions at the nano-bio interface. <i>Materials Today Advances</i> , 2020 , 5, 100036	7.4	25
380	MondoA regulates gene expression in cholesterol biosynthesis-associated pathways required for zebrafish epiboly. <i>ELife</i> , 2020 , 9,	8.9	2

379	Brownian motion-based nanoparticle sizing-A powerful approach for in situ analysis of nanoparticle-protein interactions. <i>Biointerphases</i> , 2020 , 15, 061201	1.8	1
378	Measuring ligand-cell surface receptor affinities with axial line-scanning fluorescence correlation spectroscopy. <i>ELife</i> , 2020 , 9,	8.9	15
377	Confocal and Super-resolution Imaging of RNA in Live Bacteria Using a Fluorogenic Silicon Rhodamine-binding Aptamer. <i>Bio-protocol</i> , 2020 , 10, e3603	0.9	0
376	Self-assembled thermosensitive luminescent nanoparticles with peptide-Au conjugates for cellular imaging and drug delivery. <i>Chinese Chemical Letters</i> , 2020 , 31, 859-864	8.1	15
375	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves 2020 , 16, e1008774		
374	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves 2020 , 16, e1008774		
373	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves 2020 , 16, e1008774		
372	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves 2020 , 16, e1008774		
371	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves 2020 , 16, e1008774		
370	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves 2020 , 16, e1008774		
369	Recent advances in synthesizing metal nanocluster-based nanocomposites for application in sensing, imaging and catalysis. <i>Nano Today</i> , 2019 , 28, 100767	17.9	83
368	Towards a molecular-level understanding of the protein corona around nanoparticles [Recent advances and persisting challenges. <i>Current Opinion in Biomedical Engineering</i> , 2019 , 10, 11-22	4.4	19
367	Formation of a Monolayer Protein Corona around Polystyrene Nanoparticles and Implications for Nanoparticle Agglomeration. <i>Small</i> , 2019 , 15, e1900974	11	33
366	SiRA: A Silicon Rhodamine-Binding Aptamer for Live-Cell Super-Resolution RNA Imaging. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7562-7571	16.4	52
365	Highly Efficient One-Dimensional Triplet Exciton Transport in a Palladium-Porphyrin-Based Surface-Anchored Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15688-15697	9.5	29
364	Super-resolution imaging of densely packed DNA in nuclei of zebrafish embryos using stimulated emission double depletion microscopy. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 414001	3	5
363	Lef1 regulates caveolin expression and caveolin dependent endocytosis, a process necessary for Wnt5a/Ror2 signaling during <i>Xenopus</i> gastrulation. <i>Scientific Reports</i> , 2019 , 9, 15645	4.9	3
362	The multi-state energy landscape of the SAM-I riboswitch: A single-molecule Föster resonance energy transfer spectroscopy study. <i>Journal of Chemical Physics</i> , 2018 , 148, 123324	3.9	6

361	Cytoplasmic Transport Machinery of the SPF27 Homologue Num1 in <i>Ustilago maydis</i> . <i>Scientific Reports</i> , 2018 , 8, 3611	4.9	10
360	Superresolution and pulse-chase imaging reveal the role of vesicle transport in polar growth of fungal cells. <i>Science Advances</i> , 2018 , 4, e1701798	14.3	23
359	Nanoparticle Probes for Super-Resolution Fluorescence Microscopy. <i>ChemNanoMat</i> , 2018 , 4, 253-264	3.5	15
358	"siRNA traffic lights": arabino-configured 2'-anchors for fluorescent dyes are key for dual color readout in cell imaging. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 3726-3731	3.9	4
357	Simulation of FRET dyes allows quantitative comparison against experimental data. <i>Journal of Chemical Physics</i> , 2018 , 148, 123321	3.9	26
356	The protein corona on nanoparticles as viewed from a nanoparticle-sizing perspective. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018 , 10, e1500	9.2	27
355	Distinct amino acid motifs carrying multiple positive charges regulate membrane targeting of dysferlin and MG53. <i>PLoS ONE</i> , 2018 , 13, e0202052	3.7	2
354	Dual-mode phase and fluorescence imaging with a confocal laser scanning microscope. <i>Optics Letters</i> , 2018 , 43, 5689-5692	3	12
353	Wnt/PCP controls spreading of Wnt/Ectenin signals by cytonemes in vertebrates. <i>ELife</i> , 2018 , 7,	8.9	60
352	A simple route to highly active single-enzyme nanogels. <i>Chemical Science</i> , 2018 , 9, 1006-1013	9.4	32
351	Assessment of in vitro particle dosimetry models at the single cell and particle level by scanning electron microscopy. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 100	9.4	11
350	Pulsed interleaved excitation-based line-scanning spatial correlation spectroscopy (PIE-lsSCS). <i>Scientific Reports</i> , 2018 , 8, 16722	4.9	5
349	EmbryoMiner: A new framework for interactive knowledge discovery in large-scale cell tracking data of developing embryos. <i>PLoS Computational Biology</i> , 2018 , 14, e1006128	5	17
348	Kinetic Study of Ligand Binding and Conformational Changes in Inducible Nitric Oxide Synthase. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 11048-11057	3.4	1
347	Background suppression in fluorescence nanoscopy with stimulated emission double depletion. <i>Nature Photonics</i> , 2017 , 11, 163-169	33.9	70
346	Research Update: Interfacing ultrasmall metal nanoclusters with biological systems. <i>APL Materials</i> , 2017 , 5, 053101	5.7	13
345	In Situ Characterization of Protein Adsorption onto Nanoparticles by Fluorescence Correlation Spectroscopy. <i>Accounts of Chemical Research</i> , 2017 , 50, 387-395	24.3	107
344	Substrate binding in human indoleamine 2,3-dioxygenase 1: A spectroscopic analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 453-463	4	9

343	Pulses of Ca coordinate actin assembly and exocytosis for stepwise cell extension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5701-5706	11.5	47
342	Fluorescence Labeling 2017 , 133-164		3
341	Molecular Switch for Sub-Diffraction Laser Lithography by Photoenol Intermediate-State Cis-Trans Isomerization. <i>ACS Nano</i> , 2017 , 11, 6396-6403	16.7	30
340	A far-red emitting fluorescent marker protein, mGarnet2, for microscopy and STED nanoscopy. <i>Chemical Communications</i> , 2017 , 53, 979-982	5.8	23
339	Protein-based fluorescent nanoparticles for super-resolution STED imaging of live cells. <i>Chemical Science</i> , 2017 , 8, 2396-2400	9.4	26
338	Different Mechanisms of Catalytic Complex Formation in Two L-Tryptophan Processing Dioxygenases. <i>Frontiers in Molecular Biosciences</i> , 2017 , 4, 94	5.6	7
337	Single-molecule FRET reveals the energy landscape of the full-length SAM-I riboswitch. <i>Nature Chemical Biology</i> , 2017 , 13, 1172-1178	11.7	31
336	Substrate Binding Primes Human Tryptophan 2,3-Dioxygenase for Ligand Binding. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7412-7420	3.4	3
335	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. <i>Angewandte Chemie</i> , 2017 , 129, 11786-11791	3.6	4
334	Supramolecular Self-Assembly Bioinspired Synthesis of Luminescent Gold Nanocluster-Embedded Peptide Nanofibers for Temperature Sensing and Cellular Imaging. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2224-2229	6.3	86
333	Rational Engineering of Photoconvertible Fluorescent Proteins for Dual-Color Fluorescence Nanoscopy Enabled by a Triplet-State Mechanism of Primed Conversion. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11628-11633	16.4	27
332	Refractive index measurement of suspended cells using opposed-view digital holographic microscopy. <i>Applied Optics</i> , 2017 , 56, 9000-9005	1.7	9
331	Precise background subtraction in stimulated emission double depletion nanoscopy. <i>Optics Letters</i> , 2017 , 42, 831-834	3	23
330	Development of Bag-1L as a therapeutic target in androgen receptor-dependent prostate cancer. <i>ELife</i> , 2017 , 6,	8.9	23
329	Zwitterionic surface coating of quantum dots reduces protein adsorption and cellular uptake. <i>Nanoscale</i> , 2016 , 8, 17794-17800	7.7	51
328	Dysferlin-mediated phosphatidylserine sorting engages macrophages in sarcolemma repair. <i>Nature Communications</i> , 2016 , 7, 12875	17.4	42
327	Automation strategies for large-scale 3D image analysis. <i>Automatisierungstechnik</i> , 2016 , 64, 555-566	0.8	1
326	In Situ Monitoring of the Intracellular Stability of Nanoparticles by Using Fluorescence Lifetime Imaging. <i>Small</i> , 2016 , 12, 868-73	11	23

325	Fast Folding Dynamics of an Intermediate State in RNase H Measured by Single-Molecule FRET. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 641-9	3.4	9
324	Super-resolution imaging-based single particle tracking reveals dynamics of nanoparticle internalization by live cells. <i>Nanoscale</i> , 2016 , 8, 7423-9	7.7	31
323	Confocal laser scanning microscopy with spatiotemporal structured illumination. <i>Optics Letters</i> , 2016 , 41, 1193-6	3	18
322	Where Do We Stand with Super-Resolution Optical Microscopy?. <i>Journal of Molecular Biology</i> , 2016 , 428, 308-322	6.5	58
321	Metal nanoclusters: Protein corona formation and implications for biological applications. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 75, 175-9	5.6	17
320	Ecotoxicological Aspects of Nanomaterials in the Aquatic Environment 2016 , 151-172		1
319	Dynamics of Actin Cables in Polarized Growth of the Filamentous Fungus <i>Aspergillus nidulans</i> . <i>Frontiers in Microbiology</i> , 2016 , 7, 682	5.7	27
318	Nanoparticle Interaction with Plasma Proteins as It Relates to Biodistribution. <i>Frontiers in Nanobiomedical Research</i> , 2016 , 1-22		
317	Chromophore photophysics and dynamics in fluorescent proteins of the GFP family. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 443001	1.8	17
316	The Nature of a Hard Protein Corona Forming on Quantum Dots Exposed to Human Blood Serum. <i>Small</i> , 2016 , 12, 5836-5844	11	52
315	Photoswitchable Fluorescent Proteins: Do Not Always Look on the Bright Side. <i>ACS Nano</i> , 2016 , 10, 9104-9108	11.08	15
314	Generating semi-synthetic validation benchmarks for embryomics 2016 ,		10
313	Exploring color tuning strategies in red fluorescent proteins. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 200-12	4.2	15
312	Rac-mediated Stimulation of Phospholipase C α Amplifies B Cell Receptor-induced Calcium Signaling. <i>Journal of Biological Chemistry</i> , 2015 , 290, 17056-72	5.4	14
311	Surface Functionalization of Nanoparticles with Polyethylene Glycol: Effects on Protein Adsorption and Cellular Uptake. <i>ACS Nano</i> , 2015 , 9, 6996-7008	16.7	587
310	An ensemble-averaged, cell density-based digital model of zebrafish embryo development derived from light-sheet microscopy data with single-cell resolution. <i>Scientific Reports</i> , 2015 , 5, 8601	4.9	32
309	Fluorescent nanoparticle interactions with biological systems: What have we learned so far? 2015 ,		2
308	Low affinity binding of plasma proteins to lipid-coated quantum dots as observed by in situ fluorescence correlation spectroscopy. <i>Nanoscale</i> , 2015 , 7, 9980-4	7.7	23

307	Biom mineralization: Nanocrystals by design. <i>Nature Chemistry</i> , 2015 , 7, 769-70	17.6	5
306	Genetic evidence for a microtubule-capture mechanism during polarised growth of <i>Aspergillus nidulans</i> . <i>Journal of Cell Science</i> , 2015 , 128, 3569-82	5.3	19
305	Comparison of ligand migration and binding in heme proteins of the globin family. <i>Chinese Physics B</i> , 2015 , 24, 128705	1.2	4
304	Dual-color dual-focus line-scanning FCS for quantitative analysis of receptor-ligand interactions in living specimens. <i>Scientific Reports</i> , 2015 , 5, 10149	4.9	23
303	Monomeric Garnet, a far-red fluorescent protein for live-cell STED imaging. <i>Scientific Reports</i> , 2015 , 5, 18006	4.9	27
302	Reversible Rekonfiguration von DNA-Origami-Nanosystemen und deren Beobachtung mittels FRET-Einzelmolekulanalyse. <i>Angewandte Chemie</i> , 2015 , 127, 3662-3667	3.6	1
301	Unravelling RNA-substrate interactions in a ribozyme-catalysed reaction using fluorescent turn-on probes. <i>Chemistry - A European Journal</i> , 2015 , 21, 5864-71	4.8	1
300	Motif-Designed Peptide Nanofibers Decorated with Graphene Quantum Dots for Simultaneous Targeting and Imaging of Tumor Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 5472-5478	15.6	112
299	Hematopoietic and mesenchymal stem cells: polymeric nanoparticle uptake and lineage differentiation. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 383-95	3	16
298	Evaluation of Genetically Encoded Chemical Tags as Orthogonal Fluorophore Labeling Tools for Single-Molecule FRET Applications. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6611-9	3.4	10
297	Superresolution microscopy reveals a dynamic picture of cell polarity maintenance during directional growth. <i>Science Advances</i> , 2015 , 1, e1500947	14.3	31
296	Reversible reconfiguration of DNA origami nanochambers monitored by single-molecule FRET. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3592-7	16.4	31
295	CD spectroscopy: an essential tool for quality control of protein folding. <i>Methods in Molecular Biology</i> , 2015 , 1261, 255-76	1.4	29
294	Genetic evidence for a microtubule-capture mechanism during polarised growth of <i>Aspergillus nidulans</i> . <i>Development (Cambridge)</i> , 2015 , 142, e1.2-e1.2	6.6	0
293	Super-resolution localization microscopy with photoactivatable fluorescent marker proteins. <i>Protoplasma</i> , 2014 , 251, 349-62	3.4	19
292	Engineered nanoparticles interacting with cells: size matters. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 5	9.4	823
291	Complex RNA folding kinetics revealed by single-molecule FRET and hidden Markov models. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4534-43	16.4	69
290	Carbohydrate-lectin recognition of sequence-defined heteromultivalent glycooligomers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2008-16	16.4	101

289	Photoactivatable fluorescent proteins for super-resolution microscopy. <i>Methods in Molecular Biology</i> , 2014 , 1148, 239-60	1.4	8
288	Protein corona formation around nanoparticles [From the past to the future. <i>Materials Horizons</i> , 2014 , 1, 301-313	14.4	401
287	Nanoparticles Interacting with Proteins and Cells: A Systematic Study of Protein Surface Charge Effects. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300079	4.6	56
286	Impact of protein modification on the protein corona on nanoparticles and nanoparticle-cell interactions. <i>ACS Nano</i> , 2014 , 8, 503-13	16.7	298
285	Effect of Protein Adsorption on the Fluorescence of Ultrasmall Gold Nanoclusters. <i>Small</i> , 2014 , 10, 1667-1667	6	6
284	Lipid membranes and single ion channel recording for the advanced physics laboratory. <i>American Journal of Physics</i> , 2014 , 82, 502-509	0.7	2
283	Physicochemical characterization of nanoparticles and their behavior in the biological environment. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15053-67	3.6	76
282	Substrate Inhibition in Human Indoleamine 2,3-Dioxygenase. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 756-61	6.4	18
281	In vivo labeling of peroxisomes by photoconvertible mEos2 in myelinating glia of mice. <i>Biochimie</i> , 2014 , 98, 127-34	4.6	3
280	Organization of perinuclear actin in live tobacco cells observed by PALM with optical sectioning. <i>Journal of Plant Physiology</i> , 2014 , 171, 97-108	3.6	21
279	Fast segmentation of stained nuclei in terabyte-scale, time resolved 3D microscopy image stacks. <i>PLoS ONE</i> , 2014 , 9, e90036	3.7	54
278	Live imaging of Xwnt5A-ROR2 complexes. <i>PLoS ONE</i> , 2014 , 9, e109428	3.7	13
277	Nanoparticle interactions with live cells: Quantitative fluorescence microscopy of nanoparticle size effects. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2388-97	3	57
276	Functionalized polystyrene nanoparticles as a platform for studying bio-nano interactions. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2403-12	3	115
275	Effects of surface functionalization on the adsorption of human serum albumin onto nanoparticles - a fluorescence correlation spectroscopy study. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2036-47	3	73
274	In vitro interaction of colloidal nanoparticles with mammalian cells: What have we learned thus far?. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1477-90	3	114
273	Localization and dynamics of glucocorticoid receptor at the plasma membrane of activated mast cells. <i>Small</i> , 2014 , 10, 1991-8	11	28
272	Fluorescent proteins for live-cell imaging with super-resolution. <i>Chemical Society Reviews</i> , 2014 , 43, 1088-1096	38.96	250

271	Mediation of a non-proteolytic activation of complement component C3 by phospholipid vesicles. <i>Biomaterials</i> , 2014 , 35, 3688-96	15.6	31
270	Fourier transform infrared spectroscopy study of ligand photodissociation and migration in inducible nitric oxide synthase. <i>F1000Research</i> , 2014 , 3, 290	3.6	8
269	Fourier transform infrared spectroscopy study of ligand photodissociation and migration in inducible nitric oxide synthase. <i>F1000Research</i> , 2014 , 3, 293	3.6	5
268	Stimulated emission depletion-based raster image correlation spectroscopy reveals biomolecular dynamics in live cells. <i>Nature Communications</i> , 2013 , 4, 2093	17.4	75
267	Single-molecule FRET studies of RNA folding: a Diels-Alderase ribozyme with photolabile nucleotide modifications. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12800-6	3.4	8
266	Studying the protein corona on nanoparticles by FCS. <i>Methods in Enzymology</i> , 2013 , 519, 115-37	1.7	48
265	Intracellular thermometry by using fluorescent gold nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11154-7	16.4	299
264	Mechanistic aspects of fluorescent gold nanocluster internalization by live HeLa cells. <i>Nanoscale</i> , 2013 , 5, 1537-43	7.7	105
263	Time-Lapse Super-Resolution Imaging of Apical Membrane Protein Domains in Live Filamentous Fungi. <i>Biophysical Journal</i> , 2013 , 104, 652a	2.9	3
262	An engineered heme-copper center in myoglobin: CO migration and binding. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013 , 1834, 1824-31	4	1
261	New views on cellular uptake and trafficking of manufactured nanoparticles. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120939	4.1	250
260	Interleukin 21-induced granzyme B-expressing B cells infiltrate tumors and regulate T cells. <i>Cancer Research</i> , 2013 , 73, 2468-79	10.1	216
259	Fluorescence Labeling 2013 , 143-173		2
258	Polymer-coated nanoparticles interacting with proteins and cells: focusing on the sign of the net charge. <i>ACS Nano</i> , 2013 , 7, 3253-63	16.7	390
257	Small fluorescent nanoparticles at the nanoBio interface. <i>Materials Today</i> , 2013 , 16, 58-66	21.8	87
256	Nanoparticle Interaction with Plasma Proteins as It Relates to Biodistribution. <i>Frontiers in Nanobiomedical Research</i> , 2013 , 151-172		4
255	Temperature: the "ignored" factor at the NanoBio interface. <i>ACS Nano</i> , 2013 , 7, 6555-62	16.7	253
254	Reaction-pathway selection in the structural dynamics of a heme protein. <i>Chemistry - A European Journal</i> , 2013 , 19, 3558-62	4.8	13

253	Fast and efficient molecule detection in localization-based super-resolution microscopy by parallel adaptive histogram equalization. <i>ACS Nano</i> , 2013 , 7, 5207-14	16.7	26
252	Surface energy of phospholipid bilayers and the correlation to their hydration. <i>Journal of Colloid and Interface Science</i> , 2013 , 390, 267-74	9.3	7
251	Combination of tagging and tissue phase mapping to accelerate myocardial motion measurements in three directions. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013 , 26, 239-47	2.8	2
250	Antiviral vaccines license T cell responses by suppressing granzyme B levels in human plasmacytoid dendritic cells. <i>Journal of Immunology</i> , 2013 , 191, 1144-53	5.3	9
249	The cell-end marker TeaA and the microtubule polymerase AlpA contribute to microtubule guidance at the hyphal tip cortex of <i>Aspergillus nidulans</i> to provide polarity maintenance. <i>Journal of Cell Science</i> , 2013 , 126, 5400-11	5.3	40
248	Intrazelluläre Thermometrie mithilfe fluoreszierender Gold-Nanocluster. <i>Angewandte Chemie</i> , 2013 , 125, 11360-11363	3.6	16
247	Sub-Wavelength Optical Fluorescence Microscopy for Biological Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2013 , 47-71	0.2	
246	Amino-functionalized nanoparticles inhibit mTOR and induce cell cycle arrest and apoptosis in leukemia cells. <i>FASEB Journal</i> , 2013 , 27, 575.7	0.9	1
245	Amino-functionalized polystyrene nanoparticles activate the NLRP3 inflammasome in human macrophages. <i>FASEB Journal</i> , 2013 , 27, 575.6	0.9	2
244	A fatigue-resistant photoswitchable fluorescent protein for optical nanoscopy. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1312-4	16.4	10
243	Mechanistic insights into reversible photoactivation in proteins of the GFP family. <i>Biophysical Journal</i> , 2012 , 103, 2521-31	2.9	24
242	Ein ermüdungsarmes photoschaltbares fluoreszierendes Protein für die optische Nanoskopie. <i>Angewandte Chemie</i> , 2012 , 124, 1338-1340	3.6	
241	Temperature dependence of the heat diffusivity of proteins. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2620-8	2.8	22
240	Fluorescent Proteins from the Oceans: Marine Macromolecules as Advanced Imaging Tools for Biomedical Research 2012 , 1231-1257		1
239	Volumetric motion quantification by 3D tissue phase mapped CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 74	6.9	10
238	Cellular uptake of nanoparticles by membrane penetration: a study combining confocal microscopy with FTIR spectroelectrochemistry. <i>ACS Nano</i> , 2012 , 6, 1251-9	16.7	261
237	Ligand binding to heme proteins: a comparison of cytochrome c variants with globins. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 12180-8	3.4	5
236	Ultrasmall fluorescent silver nanoclusters: Protein adsorption and its effects on cellular responses. <i>Nano Research</i> , 2012 , 5, 531-542	10	119

235	Human B cells differentiate into granzyme B-secreting cytotoxic B lymphocytes upon incomplete T-cell help. <i>Immunology and Cell Biology</i> , 2012 , 90, 457-67	5	66
234	Effect of protein adsorption on the fluorescence of ultrasmall gold nanoclusters. <i>Small</i> , 2012 , 8, 661-5	11	150
233	Three critical hydrogen bonds determine the catalytic activity of the Diels-Alderase ribozyme. <i>Nucleic Acids Research</i> , 2012 , 40, 1318-30	20.1	15
232	Gold nanoclusters as novel optical probes for in vitro and in vivo fluorescence imaging. <i>Biophysical Reviews</i> , 2012 , 4, 313-322	3.7	74
231	NMR studies of protein-ligand interactions. <i>Methods in Molecular Biology</i> , 2012 , 831, 233-59	1.4	22
230	Microwave-assisted rapid synthesis of luminescent gold nanoclusters for sensing Hg ²⁺ in living cells using fluorescence imaging. <i>Nanoscale</i> , 2012 , 4, 4155-60	7.7	197
229	Toward a molecular understanding of nanoparticle-protein interactions. <i>Biophysical Reviews</i> , 2012 , 4, 137-147	3.7	128
228	A combined single-molecule FRET and tryptophan fluorescence study of RNase H folding under acidic conditions. <i>Chemical Physics</i> , 2012 , 396, 3-9	2.3	8
227	Facile synthesis of fluorescent gold nanoclusters and their application in cellular imaging 2012 ,		5
226	Dual color photoactivation localization microscopy of cardiomyopathy-associated desmin mutants. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16047-57	5.4	40
225	Attachment of Proteins to Surfaces by Fluorous-Fluorous Interactions Restoring Their Structure and Activity. <i>ChemPlusChem</i> , 2012 , 77, 1066-1070	2.8	6
224	Differential uptake of functionalized polystyrene nanoparticles by human macrophages and monocytic cells. <i>FASEB Journal</i> , 2012 , 26, 580.9	0.9	
223	Differential uptake of functionalized polystyrene nanoparticles by human macrophages and a monocytic cell line. <i>ACS Nano</i> , 2011 , 5, 1657-69	16.7	422
222	Lasing in dye-doped high-Q conical polymeric microcavities 2011 ,		1
221	Amino-functionalized polystyrene nanoparticles activate the NLRP3 inflammasome in human macrophages. <i>ACS Nano</i> , 2011 , 5, 9648-57	16.7	173
220	Facile preparation of water-soluble fluorescent gold nanoclusters for cellular imaging applications. <i>Nanoscale</i> , 2011 , 3, 2009-14	7.7	255
219	Specific effects of surface carboxyl groups on anionic polystyrene particles in their interactions with mesenchymal stem cells. <i>Nanoscale</i> , 2011 , 3, 2028-35	7.7	77
218	Characterization of protein adsorption onto FePt nanoparticles using dual-focus fluorescence correlation spectroscopy. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 374-83	3	106

217	RITA, a novel modulator of Notch signalling, acts via nuclear export of RBP-J. <i>EMBO Journal</i> , 2011 , 30, 43-56	13	52
216	Concerted action of zinc and ProSAP/Shank in synaptogenesis and synapse maturation. <i>EMBO Journal</i> , 2011 , 30, 569-81	13	158
215	SAR reduced black-blood cine TPM for increased temporal resolution at 3T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2011 , 24, 127-35	2.8	7
214	Acceleration of tissue phase mapping by k-t BLAST: a detailed analysis of the influence of k-t-BLAST for the quantification of myocardial motion at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 5	6.9	16
213	Acceleration of tissue phase mapping with sensitivity encoding at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 59	6.9	8
212	One-pot synthesis of near-infrared fluorescent gold clusters for cellular fluorescence lifetime imaging. <i>Small</i> , 2011 , 7, 2614-20	11	305
211	Evidence of a folding intermediate in RNase H from single-molecule FRET experiments. <i>ChemPhysChem</i> , 2011 , 12, 627-33	3.2	19
210	Ligand migration in human indoleamine-2,3 dioxygenase. <i>IUBMB Life</i> , 2011 , 63, 153-9	4.7	7
209	From EosFP to mIrisFP: structure-based development of advanced photoactivatable marker proteins of the GFP-family. <i>Journal of Biophotonics</i> , 2011 , 4, 377-90	3.1	41
208	Single-molecule FRET reveals a cooperative effect of two methyl group modifications in the folding of human mitochondrial tRNA(Lys). <i>Chemistry and Biology</i> , 2011 , 18, 928-36		22
207	Structure-Function Relationships in Fluorescent Marker Proteins of the Green Fluorescent Protein Family. <i>Springer Series on Fluorescence</i> , 2011 , 241-263	0.5	2
206	Single-molecule FRET studies of counterion effects on the free energy landscape of human mitochondrial lysine tRNA. <i>Biochemistry</i> , 2011 , 50, 3107-15	3.2	11
205	Ligand dynamics in heme proteins observed by Fourier transform infrared-temperature derivative spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 1030-41	4	18
204	Modeling receptor-mediated endocytosis of polymer-functionalized iron oxide nanoparticles by human macrophages. <i>Biomaterials</i> , 2011 , 32, 547-55	15.6	124
203	Ultra-small fluorescent metal nanoclusters: Synthesis and biological applications. <i>Nano Today</i> , 2011 , 6, 401-418	17.9	1205
202	Probes for Nanoscopy: Fluorescent Proteins. <i>Springer Series on Fluorescence</i> , 2011 , 111-158	0.5	3
201	Fluorescent Proteins: Nature's Colorful Gifts for Live Cell Imaging. <i>Springer Series on Fluorescence</i> , 2011 , 3-33	0.5	2
200	A photoactivatable marker protein for pulse-chase imaging with superresolution. <i>Nature Methods</i> , 2010 , 7, 627-30	21.6	106

199	Low-threshold conical microcavity dye lasers. <i>Applied Physics Letters</i> , 2010 , 97, 063304	3.4	61
198	Quantitative analysis of the protein corona on FePt nanoparticles formed by transferrin binding. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 1, S5-S13	4.1	164
197	Anthracene-BODIPY dyads as fluorescent sensors for biocatalytic Diels-Alder reactions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2646-54	16.4	63
196	Ligand migration and binding in nonsymbiotic hemoglobins of <i>Arabidopsis thaliana</i> . <i>Biochemistry</i> , 2010 , 49, 7448-58	3.2	17
195	Ultra-fast, high-precision image analysis for localization-based super resolution microscopy. <i>Optics Express</i> , 2010 , 18, 11867-76	3.3	68
194	Specific effects of surface amines on polystyrene nanoparticles in their interactions with mesenchymal stem cells. <i>Biomacromolecules</i> , 2010 , 11, 748-53	6.9	99
193	Ratiometric optical sensing of chloride ions with organic fluorophore-gold nanoparticle hybrids: a systematic study of design parameters and surface charge effects. <i>Small</i> , 2010 , 6, 2590-7	11	63
192	Endo- and exocytosis of zwitterionic quantum dot nanoparticles by live HeLa cells. <i>ACS Nano</i> , 2010 , 4, 6787-97	16.7	246
191	High content screening of CXCR2-dependent signalling pathways. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 3-15	1.3	11
190	Granzyme B produced by human plasmacytoid dendritic cells suppresses T-cell expansion. <i>Blood</i> , 2010 , 115, 1156-65	2.2	113
189	The effect of carboxydextran-coated superparamagnetic iron oxide nanoparticles on c-Jun N-terminal kinase-mediated apoptosis in human macrophages. <i>Biomaterials</i> , 2010 , 31, 5063-71	15.6	129
188	Optical imaging of nanoscale cellular structures. <i>Biophysical Reviews</i> , 2010 , 2, 147-158	3.7	26
187	Structural identification of spectroscopic substates in neuroglobin. <i>ChemPhysChem</i> , 2010 , 11, 119-29	3.2	16
186	The "wiggling and jiggling of atoms" leading to excited-state proton transfer in green fluorescent protein. <i>ChemPhysChem</i> , 2010 , 11, 971-4	3.2	9
185	Inside Cover: Structural Identification of Spectroscopic Substates in Neuroglobin (ChemPhysChem 1/2010). <i>ChemPhysChem</i> , 2010 , 11, 2-2	3.2	
184	Data storage based on photochromic and photoconvertible fluorescent proteins. <i>Journal of Biotechnology</i> , 2010 , 149, 289-98	3.7	52
183	Lysosomal degradation of the carboxydextran shell of coated superparamagnetic iron oxide nanoparticles and the fate of professional phagocytes. <i>Biomaterials</i> , 2010 , 31, 9015-22	15.6	150
182	Fluorescent-magnetic hybrid nanoparticles induce a dose-dependent increase in proinflammatory response in lung cells in vitro correlated with intracellular localization. <i>Small</i> , 2010 , 6, 753-62	11	86

181	Interleukin 21 can induce granzyme B-secreting cytotoxic B lymphocytes. <i>FASEB Journal</i> , 2010 , 24, lb506o.9		
180	Incompletely activated CD4+ T cells induce granzyme B+ regulatory B cells in an interleukin 21-dependent manner. <i>FASEB Journal</i> , 2010 , 24, lb507	0.9	
179	A role for c-Jun N-terminal kinases in apoptosis triggered in human macrophages by carboxydextran-coated superparamagnetic iron oxide nanoparticles. <i>FASEB Journal</i> , 2010 , 24, 520.3	0.9	
178	Incompletely Activated CD4+ T Cells Induce Granzyme B+ Regulatory B Cells In An Interleukin 21-Dependent Manner. <i>Blood</i> , 2010 , 116, 3905-3905	2.2	
177	Ligand and substrate migration in human indoleamine 2,3-dioxygenase. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31548-54	5.4	19
176	Cardiac phase-specific shimming (CPSS) for SSFP MR cine imaging at 3 T. <i>Physics in Medicine and Biology</i> , 2009 , 54, N467-78	3.8	9
175	Fluorescent proteins for live cell imaging: opportunities, limitations, and challenges. <i>IUBMB Life</i> , 2009 , 61, 1029-42	4.7	172
174	Structure, dynamics and optical properties of fluorescent proteins: perspectives for marker development. <i>ChemPhysChem</i> , 2009 , 10, 1369-79	3.2	68
173	Single-molecule Förster resonance energy transfer studies of RNA structure, dynamics and function. <i>Biophysical Reviews</i> , 2009 , 1, 161	3.7	17
172	Molecular dynamics simulation of the acidic compact state of apomyoglobin from yellowfin tuna. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 74, 273-90	4.2	6
171	Online image analysis software for photoactivation localization microscopy. <i>Nature Methods</i> , 2009 , 6, 689-90	21.6	72
170	A quantitative fluorescence study of protein monolayer formation on colloidal nanoparticles. <i>Nature Nanotechnology</i> , 2009 , 4, 577-80	28.7	610
169	Ligand migration between internal docking sites in photodissociated carbonmonoxy neuroglobin. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 15334-43	3.4	31
168	Structural basis of enhanced photoconversion yield in green fluorescent protein-like protein Dendra2. <i>Biochemistry</i> , 2009 , 48, 4905-15	3.2	84
167	Zwitterionic biocompatible quantum dots for wide pH stability and weak nonspecific binding to cells. <i>ACS Nano</i> , 2009 , 3, 2573-80	16.7	141
166	CXCR2 inverse agonism detected by arrestin redistribution. <i>Journal of Biomolecular Screening</i> , 2009 , 14, 1076-91		6
165	Photoconversion of the fluorescent protein EosFP: a hybrid potential simulation study reveals intersystem crossings. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16814-23	16.4	34
164	Structural basis of X-ray-induced transient photobleaching in a photoactivatable green fluorescent protein. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18063-5	16.4	57

163	The inability to disrupt the immunological synapse between infected human T cells and APCs distinguishes HIV-1 from most other primate lentiviruses. <i>Journal of Clinical Investigation</i> , 2009 , 119, 2965-75	15.9	48
162	mRuby, a bright monomeric red fluorescent protein for labeling of subcellular structures. <i>PLoS ONE</i> , 2009 , 4, e4391	3.7	161
161	Single-molecule fluorescence studies of protein folding. <i>Methods in Molecular Biology</i> , 2009 , 490, 311-371.4	1.4	14
160	Granzyme B Produced by Human Plasmacytoid Dendritic Cells Suppresses T Cell Expansion.. <i>Blood</i> , 2009 , 114, 2674-2674	2.2	
159	CD40 Ligand Determines Whether Interleukin 21 Induces Differentiation of Human B Cells Into Plasma Cells or Into Granzyme B-Secreting Cytotoxic Cells.. <i>Blood</i> , 2009 , 114, 2675-2675	2.2	
158	Determinants of substrate internalization in the distal pocket of dehaloperoxidase hemoglobin of <i>Amphitrite ornata</i> . <i>Biochemistry</i> , 2008 , 47, 12985-94	3.2	29
157	Structural dynamics of myoglobin: FTIR-TDS study of NO migration and binding. <i>Biochemistry</i> , 2008 , 47, 935-48	3.2	37
156	Trans-cis isomerization is responsible for the red-shifted fluorescence in variants of the red fluorescent protein eqFP611. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12578-9	16.4	42
155	The apolar channel in <i>Cerebratulus lacteus</i> hemoglobin is the route for O ₂ entry and exit. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35689-702	5.4	31
154	Structural characterization of IrisFP, an optical highlighter undergoing multiple photo-induced transformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18343-8	11.5	187
153	Ligand dynamics in heme proteins observed by Fourier transform infrared spectroscopy at cryogenic temperatures. <i>Methods in Enzymology</i> , 2008 , 437, 347-78	1.7	20
152	EXPLORING THE FOLDING FREE ENERGY LANDSCAPE OF SMALL RNA MOLECULES BY SINGLE-PAIR FBSTER RESONANCE ENERGY TRANSFER. <i>Biophysical Reviews and Letters</i> , 2008 , 03, 439-457	1.2	4
151	Cell-based assays in practice: cell markers from autofluorescent proteins of the GFP-family. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008 , 11, 602-9	1.3	12
150	RNA intramolecular dynamics by single-molecule FRET. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2008 , Chapter 11, Unit 11.12	0.5	15
149	A green fluorescent protein with photoswitchable emission from the deep sea. <i>PLoS ONE</i> , 2008 , 3, e3766.7	6.7	30
148	C-reactive protein specifically binds to Fcγ receptor type I on a macrophage-like cell line. <i>European Journal of Immunology</i> , 2008 , 38, 1414-22	6.1	23
147	Sculpting an RNA conformational energy landscape by a methyl group modification--a single-molecule FRET study. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4326-30	16.4	34
146	The green fluorescent protein: a key tool to study chemical processes in living cells. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8992-4	16.4	77

145	Optimized and far-red-emitting variants of fluorescent protein eqFP611. <i>Chemistry and Biology</i> , 2008 , 15, 224-33		64
144	C-Reactive Protein and Atherosclerosis: An Update. <i>Vascular Disease Prevention</i> , 2008 , 5, 178-182		2
143	Blue light regulation of host pigment in reef-building corals. <i>Marine Ecology - Progress Series</i> , 2008 , 364, 97-106	2.6	86
142	Ligand migration and binding in the dimeric hemoglobin of <i>Scapharca inaequalvis</i> . <i>Biochemistry</i> , 2007 , 46, 14018-31	3.2	32
141	Synthesis, patterning and applications of star-shaped poly(ethylene glycol) biofunctionalized surfaces. <i>Molecular BioSystems</i> , 2007 , 3, 419-30		78
140	A methyl group controls conformational equilibrium in human mitochondrial tRNA(Lys). <i>Journal of the American Chemical Society</i> , 2007 , 129, 13382-3	16.4	68
139	Two-photon excitation and photoconversion of EosFP in dual-color 4Pi confocal microscopy. <i>Biophysical Journal</i> , 2007 , 92, 4451-7	2.9	30
138	Contributions of host and symbiont pigments to the coloration of reef corals. <i>FEBS Journal</i> , 2007 , 274, 1102-9	5.7	86
137	It's cheap to be colorful. Anthozoans show a slow turnover of GFP-like proteins. <i>FEBS Journal</i> , 2007 , 274, 2496-505	5.7	54
136	Quenching of CdSe/ZnS Core/Shell Quantum Dot Luminescence by Water-Soluble Thiolated Ligands. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18589-18594	3.8	129
135	Searching for neuroglobin's role in the brain. <i>IUBMB Life</i> , 2007 , 59, 490-7	4.7	37
134	Influence of distal residue B10 on CO dynamics in myoglobin and neuroglobin. <i>Journal of Biological Physics</i> , 2007 , 33, 357-70	1.6	13
133	Axial resolution enhancement by 4Pi confocal fluorescence microscopy with two-photon excitation. <i>Journal of Biological Physics</i> , 2007 , 33, 433-43	1.6	11
132	Mg ²⁺ -dependent folding of a Diels-Alderase ribozyme probed by single-molecule FRET analysis. <i>Nucleic Acids Research</i> , 2007 , 35, 2047-59	20.1	76
131	X-ray structure analysis of a metalloprotein with enhanced active-site resolution using in situ x-ray absorption near edge structure spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6211-6	11.5	60
130	Ultrasensitive Fluorescence Microscopy Studies of Protein Interactions with Functionalized Surfaces. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 75-93	3.1	3
129	Effect of the shell on the blinking statistics of core-shell quantum dots: A single-particle fluorescence study. <i>Physical Review B</i> , 2007 , 75,	3.3	70
128	Protein ligand migration mapped by nonequilibrium 2D-IR exchange spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14243-8	11.5	88

127	Transient ligand docking sites in <i>Cerebratulus lacteus</i> mini-hemoglobin. <i>Gene</i> , 2007 , 398, 208-23	3.8	11
126	Affinity of C-reactive protein toward Fc γ RI is strongly enhanced by the gamma-chain. <i>American Journal of Pathology</i> , 2007 , 170, 755-63	5.8	20
125	Novel fluorescent proteins for high-content screening. <i>Drug Discovery Today</i> , 2006 , 11, 1054-60	8.8	41
124	An integrated instrumental setup for the combination of atomic force microscopy with optical spectroscopy. <i>Biopolymers</i> , 2006 , 82, 410-4	2.2	28
123	Exploring protein structure and dynamics under denaturing conditions by single-molecule FRET analysis. <i>Macromolecular Bioscience</i> , 2006 , 6, 907-22	5.5	41
122	Automated high content screening for phosphoinositide 3 kinase inhibition using an AKT 1 redistribution assay. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2006 , 9, 339-50	1.3	25
121	Live-cell imaging with EosFP and other photoactivatable marker proteins of the GFP family. <i>Expert Review of Proteomics</i> , 2006 , 3, 361-74	4.2	77
120	Conformational heterogeneity in RNA polymerase observed by single-pair FRET microscopy. <i>Biophysical Journal</i> , 2006 , 90, 4605-17	2.9	35
119	Chromophore-protein interactions in the anthozoan green fluorescent protein asFP499. <i>Biophysical Journal</i> , 2006 , 91, 4210-20	2.9	34
118	Spectroscopic study of substrate binding to the carbonmonoxy form of dehaloperoxidase from <i>Amphitrite ornata</i> . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13264-76	3.4	35
117	Exploring chromophore-protein interactions in fluorescent protein cmFP512 from <i>Cerianthus membranaceus</i> : X-ray structure analysis and optical spectroscopy. <i>Biochemistry</i> , 2006 , 45, 12942-53	3.2	27
116	Photoconversion in the red fluorescent protein from the sea anemone <i>Entacmaea quadricolor</i> : is cis-trans isomerization involved?. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6270-1	16.4	44
115	Single-molecule FRET study of denaturant induced unfolding of RNase H. <i>Journal of Molecular Biology</i> , 2006 , 357, 313-24	6.5	98
114	Photoactivation in green to red converting EosFP and other fluorescent proteins from the GFP family 2006 ,		2
113	Photoconvertible fluorescent protein EosFP: biophysical properties and cell biology applications. <i>Photochemistry and Photobiology</i> , 2006 , 82, 351-8	3.6	110
112	Restricted rotational motion of CO in a protein internal cavity: evidence for nonseparating correlation functions from IR pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 2005 , 122, 124505	3.9	19
111	Ligand migration and protein fluctuations in myoglobin mutant L29W. <i>Biochemistry</i> , 2005 , 44, 5095-105	3.2	40
110	The origin of stark splitting in the initial photoproduct state of MbCO. <i>Journal of the American Chemical Society</i> , 2005 , 127, 40-1	16.4	83

109	Circular dichroism spectroscopy for the study of protein-ligand interactions. <i>Methods in Molecular Biology</i> , 2005 , 305, 343-64	1.4	24
108	Probing electric fields in protein cavities by using the vibrational stark effect of carbon monoxide. <i>Biophysical Journal</i> , 2005 , 88, 1978-90	2.9	56
107	Light-induced relaxation of photolyzed carbonmonoxy myoglobin: a temperature-dependent x-ray absorption near-edge structure (XANES) study. <i>Biophysical Journal</i> , 2005 , 88, 2954-64	2.9	31
106	Fluctuation correlation spectroscopy for the advanced physics laboratory. <i>American Journal of Physics</i> , 2005 , 73, 1129-1134	0.7	20
105	Ligand binding with stopped-flow rapid mixing. <i>Methods in Molecular Biology</i> , 2005 , 305, 323-42	1.4	5
104	Protein-Ligand Interactions 2005 ,		31
103	Probing heme protein-ligand interactions by UV/visible absorption spectroscopy. <i>Methods in Molecular Biology</i> , 2005 , 305, 215-42	1.4	30
102	Structural basis for photo-induced protein cleavage and green-to-red conversion of fluorescent protein EosFP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9156-9	11.5	162
101	Polyelectrolyte-mediated protein adsorption: fluorescent protein binding to individual polyelectrolyte nanospheres. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5418-20	3.4	85
100	A spectroscopic study of structural heterogeneity and carbon monoxide binding in neuroglobin. <i>Journal of Biological Physics</i> , 2005 , 31, 417-32	1.6	7
99	Targeted Green-Red Photoconversion of EosFP, a Fluorescent Marker Protein. <i>Journal of Biological Physics</i> , 2005 , 31, 249-59	1.6	23
98	Evidence for non-separating four-point correlation functions from IR pump-probe spectroscopy of CO in a protein internal cavity. <i>Springer Series in Chemical Physics</i> , 2005 , 631-633	0.3	
97	Confocal fluorescence microscopy for high-throughput screening of G-protein coupled receptors. <i>Current Medicinal Chemistry</i> , 2005 , 12, 2551-9	4.3	20
96	Red fluorescent protein eqFP611 and its genetically engineered dimeric variants. <i>Journal of Biomedical Optics</i> , 2005 , 10, 14003	3.5	52
95	High-throughput screening of interactions between G protein-coupled receptors and ligands using confocal optics microscopy. <i>Methods in Molecular Biology</i> , 2005 , 305, 365-84	1.4	3
94	Single-molecule Forster resonance energy transfer study of protein dynamics under denaturing conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15471-6	11.5	166
93	Ligand migration pathway and protein dynamics in myoglobin: a time-resolved crystallographic study on L29W MbCO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 11704-9	11.5	146
92	Neuroglobin, nitric oxide, and oxygen: functional pathways and conformational changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8483-8	11.5	213

91	Structural dynamics in the active site of murine neuroglobin and its effects on ligand binding. <i>Journal of Biological Chemistry</i> , 2004 , 279, 22944-52	5.4	67
90	Structural, dynamic, and energetic aspects of long-range electron transfer in photosynthetic reaction centers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 123-8	11.5	43
89	The structure of carbonmonoxy neuroglobin reveals a heme-sliding mechanism for control of ligand affinity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17351-6	11.5	175
88	Thr-E11 regulates O ₂ affinity in <i>Cerebratulus lacteus</i> mini-hemoglobin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 33662-72	5.4	36
87	Ultrasensitive confocal fluorescence microscopy of C-reactive protein interacting with Fcγ ₃ RIIIa. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 2372-7	9.4	41
86	Structural dynamics controls nitric oxide affinity in nitrophorin 4. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39401-7	5.4	50
85	EosFP, a fluorescent marker protein with UV-inducible green-to-red fluorescence conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 15905-10	11.5	568
84	Nerve globins in invertebrates. <i>IUBMB Life</i> , 2004 , 56, 653-6	4.7	10
83	Identification of GFP-like proteins in nonbioluminescent, azooxanthellate anthozoa opens new perspectives for bioprospecting. <i>Marine Biotechnology</i> , 2004 , 6, 270-7	3.4	58
82	The structure of murine neuroglobin: Novel pathways for ligand migration and binding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 56, 85-92	4.2	154
81	Biofunctionalized polymer surfaces exhibiting minimal interaction towards immobilized proteins. <i>ChemPhysChem</i> , 2004 , 5, 552-5	3.2	77
80	The effect of protein internal cavities on ligand migration and binding in myoglobin. <i>Micron</i> , 2004 , 35, 67-9	2.3	3
79	Structural dynamics of myoglobin: an infrared kinetic study of ligand migration in mutants YQR and YQRF. <i>Biophysical Chemistry</i> , 2004 , 109, 41-58	3.5	15
78	Total internal reflection fluorescence microscopy a powerful tool to study single quantum dots. <i>Applied Surface Science</i> , 2004 , 234, 86-92	6.7	21
77	Biocompatible Surfaces for Specific Tethering of Individual Protein Molecules. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13387-13394	3.4	79
76	Endothelin receptor in virus-like particles: ligand binding observed by fluorescence fluctuation spectroscopy. <i>Biochemistry</i> , 2004 , 43, 9021-8	3.2	25
75	Biofunctionalized, ultrathin coatings of cross-linked star-shaped poly(ethylene oxide) allow reversible folding of immobilized proteins. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4234-9	16.4	171
74	Photodynamics of red fluorescent proteins studied by fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2004 , 86, 384-94	2.9	92

73	Dimeric variants of the red fluorescent protein eqFP611 generated by site-directed mutagenesis 2004 , 5329, 23		1
72	Ligand dynamics in a protein internal cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 7069-74	11.5	91
71	Protein Dynamics 2003 ,		1
70	Confocal optics microscopy for biochemical and cellular high-throughput screening. <i>Drug Discovery Today</i> , 2003 , 8, 1085-93	8.8	82
69	Crystallization and preliminary X-ray diffraction analysis of the red fluorescent protein eqFP611. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1253-5		24
68	Interaction between ATP and the Na/K-ATPase from duck supraorbital salt glands. <i>Annals of the New York Academy of Sciences</i> , 2003 , 986, 293-5	6.5	1
67	Structural dynamics of myoglobin: spectroscopic and structural characterization of ligand docking sites in myoglobin mutant L29W. <i>Biochemistry</i> , 2003 , 42, 9633-46	3.2	58
66	Structural dynamics of myoglobin: effect of internal cavities on ligand migration and binding. <i>Biochemistry</i> , 2003 , 42, 9647-58	3.2	92
65	Charge recombination and protein dynamics in bacterial photosynthetic reaction centers entrapped in a sol-gel matrix. <i>Biophysical Journal</i> , 2003 , 85, 1851-70	2.9	33
64	FTIR study of ATP-induced changes in Na ⁺ /K ⁺ -ATPase from duck supraorbital glands. <i>Biophysical Journal</i> , 2003 , 85, 3707-17	2.9	10
63	Structural dynamics of myoglobin: ligand migration and binding in valine 68 mutants. <i>Journal of Biological Chemistry</i> , 2003 , 278, 42532-44	5.4	66
62	Myoglobin, a paradigm in the study of protein dynamics. <i>ChemPhysChem</i> , 2002 , 3, 249-54	3.2	44
61	Infrared Study of Carbon Monoxide Migration among Internal Cavities of Myoglobin Mutant L29W. <i>Journal of Biological Physics</i> , 2002 , 28, 163-72	1.6	25
60	Mg ²⁺ -dependent conformational change of RNA studied by fluorescence correlation and FRET on immobilized single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4284-9	11.5	238
59	A far-red fluorescent protein with fast maturation and reduced oligomerization tendency from <i>Entacmaea quadricolor</i> (Anthozoa, Actinaria). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11646-51	11.5	217
58	Structural dynamics of myoglobin: ligand migration among protein cavities studied by Fourier transform infrared/temperature derivative spectroscopy. <i>Journal of Biological Chemistry</i> , 2002 , 277, 11636-44	5.4	64
57	Ligand binding and protein dynamics in neuroglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7992-7	11.5	135
56	The effect of ligand dynamics on heme electronic transition band III in myoglobin. <i>Biophysical Journal</i> , 2002 , 82, 1059-67	2.9	35

55	Sub-10 nm Gold Nanoarrays for Tethering Single Molecules. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 676, 441		
54	Determining chemical rate coefficients using time-gated fluorescence correlation spectroscopy. <i>Journal of Physical Organic Chemistry</i> , 2000 , 13, 654-658	2.1	7
53	Quantum-mechanical tunneling of water in heme proteins. <i>Journal of Physical Organic Chemistry</i> , 2000 , 13, 659-663	2.1	8
52	Ligand binding and conformational motions in myoglobin. <i>Nature</i> , 2000 , 404, 205-8	50.4	373
51	Sensitivity enhancement in fluorescence correlation spectroscopy of multiple species using time-gated detection. <i>Biophysical Journal</i> , 2000 , 79, 1129-38	2.9	92
50	Connection between the taxonomic substates and protonation of histidines 64 and 97 in carbonmonoxy myoglobin. <i>Biophysical Journal</i> , 1999 , 77, 1036-51	2.9	103
49	Photodissociation and Rebinding of H ₂ O to Ferrous Sperm Whale Myoglobin. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2981-2982	16.4	26
48	Structural heterogeneity and ligand binding in carbonmonoxy myoglobin crystals at cryogenic temperatures. <i>Biochemistry</i> , 1998 , 37, 6819-23	3.2	25
47	Electron transfer and protein dynamics in the photosynthetic reaction center. <i>Biophysical Journal</i> , 1998 , 74, 2567-87	2.9	191
46	Structural factors controlling ligand binding to myoglobin: a kinetic hole-burning study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 6762-7	11.5	28
45	The role of entropy in the discrimination between CO and O ₂ in myoglobin. <i>European Biophysics Journal</i> , 1997 , 26, 209-14	1.9	7
44	Exploring the conformational energy landscape of proteins. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 107, 297-311	3.3	77
43	Ligand binding to heme proteins. VI. Interconversion of taxonomic substates in carbonmonoxymyoglobin. <i>Biophysical Journal</i> , 1996 , 71, 1563-73	2.9	131
42	FTIR study of conformational substates in the CO adduct of cytochrome c oxidase from <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 1996 , 35, 16782-8	3.2	20
41	X-ray structure determination of a metastable state of carbonmonoxy myoglobin after photodissociation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 7013-6	11.5	131
40	Protein Dynamics from Intramolecular Electron Transfer. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 455, 337		
39	Heme geometry in the 10 K photoproduct from sperm whale carbonmonoxymyoglobin. <i>Biophysical Chemistry</i> , 1996 , 60, 111-7	3.5	5
38	Light-induced and thermal relaxation in a protein. <i>Physical Review Letters</i> , 1995 , 74, 2607-2610	7.4	44

37	Analysis of Ligand Binding to Heme Proteins Using a Fluctuating Path Description. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 9278-9282		24
36	Ligand binding and protein dynamics in cupredoxins. <i>Biochemistry</i> , 1995 , 34, 12170-7	3.2	11
35	Ligand binding to heme proteins. V. Light-induced relaxation in proximal mutants L89I and H97F of carbonmonoxymyoglobin. <i>Biophysical Journal</i> , 1995 , 68, 2497-504	2.9	20
34	Comparison of valvular resistance, stroke work loss, and Gorlin valve area for quantification of aortic stenosis. An in vitro study in a pulsatile aortic flow model. <i>Circulation</i> , 1995 , 91, 1196-204	16.7	58
33	Constant volume gas thermometer without mercury. <i>American Journal of Physics</i> , 1994 , 62, 666-667	0.7	
32	Simple model of the diffusive scattering law in glass-forming liquids. <i>Physical Review B</i> , 1994 , 49, 15607-15614	3.3	11
31	The Mössbauer effect and collective motions in glass-forming liquids and polymeric networks. <i>Hyperfine Interactions</i> , 1994 , 90, 243-264	0.8	9
30	Ligand binding to heme proteins: the effect of light on ligand binding in myoglobin. <i>Biochemistry</i> , 1994 , 33, 13413-30	3.2	107
29	Relaxation and Disorder in Proteins 1994 , 591-614		10
28	Steric constraints in the retinal binding pocket of sensory rhodopsin I. <i>Biochemistry</i> , 1993 , 32, 10224-32	3.2	17
27	Ligand binding to heme proteins: II. Transitions in the heme pocket of myoglobin. <i>Biophysical Journal</i> , 1993 , 65, 1496-507	2.9	109
26	Ligand binding to heme proteins: III. FTIR studies of His-E7 and Val-E11 mutants of carbonmonoxymyoglobin. <i>Biophysical Journal</i> , 1993 , 65, 2447-54	2.9	88
25	Pressure effects on the dark-adaptation of bacteriorhodopsin. <i>Biophysical Journal</i> , 1993 , 64, 1187-93	2.9	13
24	Structural heterogeneity in proteins at cryogenic temperatures. Cooling rate dependence. <i>Chemical Physics Letters</i> , 1993 , 216, 275-280	2.5	3
23	Mössbauer studies of bound diffusion in a model polymer system. <i>Physical Review B</i> , 1992 , 45, 7716-7723	3.3	23
22	Conformational substates in azurin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 9681-5	11.5	38
21	Spectroscopic evidence for conformational relaxation in myoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 2902-6	11.5	108
20	Determination of rate distributions from kinetic experiments. <i>Biophysical Journal</i> , 1992 , 61, 235-45	2.9	102

19	Rayleigh scattering of Mössbauer radiation on a myoglobin single crystal. <i>Hyperfine Interactions</i> , 1992 , 71, 1319-1322	0.8	4
18	Mössbauer investigations on glass-forming organic liquids. <i>Hyperfine Interactions</i> , 1992 , 70, 1125-1128	0.8	2
17	Rate Processes in Proteins. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991 , 95, 272-278		50
16	Time- and temperature dependence of large-scale conformational transitions in myoglobin. <i>Chemical Physics</i> , 1991 , 158, 315-327	2.3	89
15	A data collection system for protein crystallography with area-sensitive proportional counters. <i>Review of Scientific Instruments</i> , 1991 , 62, 1063-1066	1.7	
14	Structural fluctuations in glass-forming liquids: Mössbauer spectroscopy on iron in glycerol. <i>Physical Review B</i> , 1991 , 43, 3345-3350	3.3	52
13	Ligand binding to heme proteins: connection between dynamics and function. <i>Biochemistry</i> , 1991 , 30, 3988-4001	3.2	377
12	Glass-like behaviour of proteins as seen by Mössbauer spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1991 , 131-133, 362-368	3.9	20
11	Temperature dependence of the dynamics of ultrafine particles in a polymeric network. <i>Hyperfine Interactions</i> , 1990 , 56, 1471-1476	0.8	9
10	Dynamics of protein-water systems revealed by Rayleigh scattering of Mössbauer radiation (RSMR). <i>Hyperfine Interactions</i> , 1990 , 53, 59-73	0.8	20
9	Isothermal titration calorimetry. <i>Analytical Chemistry</i> , 1990 , 62, 950A-959A	7.8	428
8	Angular dependent rayleigh scattering of Mössbauer radiation on proteins. <i>Hyperfine Interactions</i> , 1989 , 47-48, 299-310	0.8	16
7	The similarity in the dynamics of myoglobin and glycerol as seen from Mössbauer spectroscopy on ⁵⁷ Fe. <i>Journal of Molecular Liquids</i> , 1989 , 42, 145-153	6	13
6	Protein crystal dynamics studied by time-resolved analysis of X-ray diffuse scattering. <i>Nature</i> , 1989 , 338, 665-666	50.4	70
5	Protein structural dynamics as determined by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 1988 , 40, 147-157	0.8	43
4	A multiwire proportional counter with spherical drift chamber for protein crystallography with X-rays and gamma-rays. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987 , 256, 581-586	1.2	7
3	Structural Fluctuations in Myoglobin. <i>Springer Series in Biophysics</i> , 1987 , 30-33		4
2	Rayleigh scattering of Mössbauer radiation on met-myoglobin. <i>Hyperfine Interactions</i> , 1986 , 29, 1451-1454	0.8	13

1 Allele-specific endogenous tagging and quantitative analysis of beta-catenin in colorectal cancer cells

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