

Gerd Ulrich Nienhaus

List of Publications by Citations

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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 | Ultra-small fluorescent metal nanoclusters: Synthesis and biological applications. <i>Nano Today</i> , 2011 , 6, 401-418 | 17.9 | 1205 |
| 395 | Engineered nanoparticles interacting with cells: size matters. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 5 | 9.4 | 823 |
| 394 | A quantitative fluorescence study of protein monolayer formation on colloidal nanoparticles. <i>Nature Nanotechnology</i> , 2009 , 4, 577-80 | 28.7 | 610 |
| 393 | 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 |
| 392 | 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 |
| 391 | Isothermal titration calorimetry. <i>Analytical Chemistry</i> , 1990 , 62, 950A-959A | 7.8 | 428 |
| 390 | 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 |
| 389 | Protein corona formation around nanoparticles From the past to the future. <i>Materials Horizons</i> , 2014 , 1, 301-313 | 14.4 | 401 |
| 388 | 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 |
| 387 | Ligand binding to heme proteins: connection between dynamics and function. <i>Biochemistry</i> , 1991 , 30, 3988-4001 | 3.2 | 377 |
| 386 | Ligand binding and conformational motions in myoglobin. <i>Nature</i> , 2000 , 404, 205-8 | 50.4 | 373 |
| 385 | One-pot synthesis of near-infrared fluorescent gold clusters for cellular fluorescence lifetime imaging. <i>Small</i> , 2011 , 7, 2614-20 | 11 | 305 |
| 384 | Intracellular thermometry by using fluorescent gold nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11154-7 | 16.4 | 299 |
| 383 | 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 |
| 382 | 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 |
| 381 | Facile preparation of water-soluble fluorescent gold nanoclusters for cellular imaging applications. <i>Nanoscale</i> , 2011 , 3, 2009-14 | 7.7 | 255 |
| 380 | Temperature: the "ignored" factor at the NanoBio interface. <i>ACS Nano</i> , 2013 , 7, 6555-62 | 16.7 | 253 |

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| 379 | New views on cellular uptake and trafficking of manufactured nanoparticles. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120939 | 4.1 | 250 |
| 378 | Fluorescent proteins for live-cell imaging with super-resolution. <i>Chemical Society Reviews</i> , 2014 , 43, 1088-96 | 8.96 | 250 |
| 377 | Endo- and exocytosis of zwitterionic quantum dot nanoparticles by live HeLa cells. <i>ACS Nano</i> , 2010 , 4, 6787-97 | 16.7 | 246 |
| 376 | 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 |
| 375 | 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 |
| 374 | 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 |
| 373 | 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 |
| 372 | 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 |
| 371 | Electron transfer and protein dynamics in the photosynthetic reaction center. <i>Biophysical Journal</i> , 1998 , 74, 2567-87 | 2.9 | 191 |
| 370 | 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 |
| 369 | 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 |
| 368 | Amino-functionalized polystyrene nanoparticles activate the NLRP3 inflammasome in human macrophages. <i>ACS Nano</i> , 2011 , 5, 9648-57 | 16.7 | 173 |
| 367 | Fluorescent proteins for live cell imaging: opportunities, limitations, and challenges. <i>IUBMB Life</i> , 2009 , 61, 1029-42 | 4.7 | 172 |
| 366 | 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 |
| 365 | 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 |
| 364 | 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 |
| 363 | 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 |
| 362 | mRuby, a bright monomeric red fluorescent protein for labeling of subcellular structures. <i>PLoS ONE</i> , 2009 , 4, e4391 | 3.7 | 161 |

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| 361 | Concerted action of zinc and ProSAP/Shank in synaptogenesis and synapse maturation. <i>EMBO Journal</i> , 2011 , 30, 569-81 | 13 | 158 |
| 360 | 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 |
| 359 | Effect of protein adsorption on the fluorescence of ultrasmall gold nanoclusters. <i>Small</i> , 2012 , 8, 661-5 | 11 | 150 |
| 358 | 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 |
| 357 | 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 |
| 356 | 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 |
| 355 | 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 |
| 354 | Ligand binding to heme proteins. VI. Interconversion of taxonomic substates in carbonmonoxymyoglobin. <i>Biophysical Journal</i> , 1996 , 71, 1563-73 | 2.9 | 131 |
| 353 | 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 |
| 352 | 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 |
| 351 | 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 |
| 350 | Toward a molecular understanding of nanoparticle-protein interactions. <i>Biophysical Reviews</i> , 2012 , 4, 137-147 | 3.7 | 128 |
| 349 | Modeling receptor-mediated endocytosis of polymer-functionalized iron oxide nanoparticles by human macrophages. <i>Biomaterials</i> , 2011 , 32, 547-55 | 15.6 | 124 |
| 348 | Ultrasmall fluorescent silver nanoclusters: Protein adsorption and its effects on cellular responses. <i>Nano Research</i> , 2012 , 5, 531-542 | 10 | 119 |
| 347 | Functionalized polystyrene nanoparticles as a platform for studying bio-nano interactions. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2403-12 | 3 | 115 |
| 346 | 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 |
| 345 | Granzyme B produced by human plasmacytoid dendritic cells suppresses T-cell expansion. <i>Blood</i> , 2010 , 115, 1156-65 | 2.2 | 113 |
| 344 | 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 |

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| 343 | Photoconvertible fluorescent protein EosFP: biophysical properties and cell biology applications. <i>Photochemistry and Photobiology</i> , 2006 , 82, 351-8 | 3.6 | 110 |
| 342 | Ligand binding to heme proteins: II. Transitions in the heme pocket of myoglobin. <i>Biophysical Journal</i> , 1993 , 65, 1496-507 | 2.9 | 109 |
| 341 | 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 |
| 340 | 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 |
| 339 | Ligand binding to heme proteins: the effect of light on ligand binding in myoglobin. <i>Biochemistry</i> , 1994 , 33, 13413-30 | 3.2 | 107 |
| 338 | 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 |
| 337 | A photoactivatable marker protein for pulse-chase imaging with superresolution. <i>Nature Methods</i> , 2010 , 7, 627-30 | 21.6 | 106 |
| 336 | Mechanistic aspects of fluorescent gold nanocluster internalization by live HeLa cells. <i>Nanoscale</i> , 2013 , 5, 1537-43 | 7.7 | 105 |
| 335 | 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 |
| 334 | Determination of rate distributions from kinetic experiments. <i>Biophysical Journal</i> , 1992 , 61, 235-45 | 2.9 | 102 |
| 333 | Carbohydrate-lectin recognition of sequence-defined heteromultivalent glycooligomers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2008-16 | 16.4 | 101 |
| 332 | 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 |
| 331 | Single-molecule FRET study of denaturant induced unfolding of RNase H. <i>Journal of Molecular Biology</i> , 2006 , 357, 313-24 | 6.5 | 98 |
| 330 | Structural dynamics of myoglobin: effect of internal cavities on ligand migration and binding. <i>Biochemistry</i> , 2003 , 42, 9647-58 | 3.2 | 92 |
| 329 | Photodynamics of red fluorescent proteins studied by fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2004 , 86, 384-94 | 2.9 | 92 |
| 328 | Sensitivity enhancement in fluorescence correlation spectroscopy of multiple species using time-gated detection. <i>Biophysical Journal</i> , 2000 , 79, 1129-38 | 2.9 | 92 |
| 327 | 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 |
| 326 | Time- and temperature dependence of large-scale conformational transitions in myoglobin. <i>Chemical Physics</i> , 1991 , 158, 315-327 | 2.3 | 89 |

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| 325 | 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 |
| 324 | 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 |
| 323 | Small fluorescent nanoparticles at the nanoBio interface. <i>Materials Today</i> , 2013 , 16, 58-66 | 21.8 | 87 |
| 322 | 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 |
| 321 | 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 |
| 320 | Contributions of host and symbiont pigments to the coloration of reef corals. <i>FEBS Journal</i> , 2007 , 274, 1102-9 | 5.7 | 86 |
| 319 | Blue light regulation of host pigment in reef-building corals. <i>Marine Ecology - Progress Series</i> , 2008 , 364, 97-106 | 2.6 | 86 |
| 318 | 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 |
| 317 | Structural basis of enhanced photoconversion yield in green fluorescent protein-like protein Dendra2. <i>Biochemistry</i> , 2009 , 48, 4905-15 | 3.2 | 84 |
| 316 | 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 |
| 315 | 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 |
| 314 | Confocal optics microscopy for biochemical and cellular high-throughput screening. <i>Drug Discovery Today</i> , 2003 , 8, 1085-93 | 8.8 | 82 |
| 313 | Biocompatible Surfaces for Specific Tethering of Individual Protein Molecules. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13387-13394 | 3.4 | 79 |
| 312 | Synthesis, patterning and applications of star-shaped poly(ethylene glycol) biofunctionalized surfaces. <i>Molecular BioSystems</i> , 2007 , 3, 419-30 | | 78 |
| 311 | 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 |
| 310 | Exploring the conformational energy landscape of proteins. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 107, 297-311 | 3.3 | 77 |
| 309 | 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 |
| 308 | 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 |

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| 307 | Biofunctionalized polymer surfaces exhibiting minimal interaction towards immobilized proteins. <i>ChemPhysChem</i> , 2004 , 5, 552-5 | 3.2 | 77 |
| 306 | Physicochemical characterization of nanoparticles and their behavior in the biological environment. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15053-67 | 3.6 | 76 |
| 305 | 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 |
| 304 | Stimulated emission depletion-based raster image correlation spectroscopy reveals biomolecular dynamics in live cells. <i>Nature Communications</i> , 2013 , 4, 2093 | 17.4 | 75 |
| 303 | 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 |
| 302 | 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 |
| 301 | Online image analysis software for photoactivation localization microscopy. <i>Nature Methods</i> , 2009 , 6, 689-90 | 21.6 | 72 |
| 300 | Background suppression in fluorescence nanoscopy with stimulated emission double depletion. <i>Nature Photonics</i> , 2017 , 11, 163-169 | 33.9 | 70 |
| 299 | 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 |
| 298 | Protein crystal dynamics studied by time-resolved analysis of X-ray diffuse scattering. <i>Nature</i> , 1989 , 338, 665-666 | 50.4 | 70 |
| 297 | 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 |
| 296 | Ultra-fast, high-precision image analysis for localization-based super resolution microscopy. <i>Optics Express</i> , 2010 , 18, 11867-76 | 3.3 | 68 |
| 295 | Structure, dynamics and optical properties of fluorescent proteins: perspectives for marker development. <i>ChemPhysChem</i> , 2009 , 10, 1369-79 | 3.2 | 68 |
| 294 | 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 |
| 293 | 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 |
| 292 | 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 |
| 291 | 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 |
| 290 | Optimized and far-red-emitting variants of fluorescent protein eqFP611. <i>Chemistry and Biology</i> , 2008 , 15, 224-33 | | 64 |

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| 289 | 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 |
| 288 | 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 |
| 287 | 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 |
| 286 | Low-threshold conical microcavity dye lasers. <i>Applied Physics Letters</i> , 2010 , 97, 063304 | 3.4 | 61 |
| 285 | 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 |
| 284 | Wnt/PCP controls spreading of Wnt/Ectenin signals by cytonemes in vertebrates. <i>ELife</i> , 2018 , 7, | 8.9 | 60 |
| 283 | Where Do We Stand with Super-Resolution Optical Microscopy?. <i>Journal of Molecular Biology</i> , 2016 , 428, 308-322 | 6.5 | 58 |
| 282 | 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 |
| 281 | 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 |
| 280 | 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 |
| 279 | Nanoparticle interactions with live cells: Quantitative fluorescence microscopy of nanoparticle size effects. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2388-97 | 3 | 57 |
| 278 | 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 |
| 277 | 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 |
| 276 | 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 |
| 275 | Fast segmentation of stained nuclei in terabyte-scale, time resolved 3D microscopy image stacks. <i>PLoS ONE</i> , 2014 , 9, e90036 | 3.7 | 54 |
| 274 | 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 |
| 273 | 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 |
| 272 | RITA, a novel modulator of Notch signalling, acts via nuclear export of RBP-J. <i>EMBO Journal</i> , 2011 , 30, 43-56 | 13 | 52 |

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| 271 | Data storage based on photochromic and photoconvertible fluorescent proteins. <i>Journal of Biotechnology</i> , 2010 , 149, 289-98 | 3.7 | 52 |
| 270 | Red fluorescent protein eqFP611 and its genetically engineered dimeric variants. <i>Journal of Biomedical Optics</i> , 2005 , 10, 14003 | 3.5 | 52 |
| 269 | Structural fluctuations in glass-forming liquids: Mössbauer spectroscopy on iron in glycerol. <i>Physical Review B</i> , 1991 , 43, 3345-3350 | 3.3 | 52 |
| 268 | 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 |
| 267 | Zwitterionic surface coating of quantum dots reduces protein adsorption and cellular uptake. <i>Nanoscale</i> , 2016 , 8, 17794-17800 | 7.7 | 51 |
| 266 | Structural dynamics controls nitric oxide affinity in nitrophorin 4. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39401-7 | 5.4 | 50 |
| 265 | Rate Processes in Proteins. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991 , 95, 272-278 | | 50 |
| 264 | Studying the protein corona on nanoparticles by FCS. <i>Methods in Enzymology</i> , 2013 , 519, 115-37 | 1.7 | 48 |
| 263 | 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 |
| 262 | 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 |
| 261 | 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 |
| 260 | Myoglobin, a paradigm in the study of protein dynamics. <i>ChemPhysChem</i> , 2002 , 3, 249-54 | 3.2 | 44 |
| 259 | Light-induced and thermal relaxation in a protein. <i>Physical Review Letters</i> , 1995 , 74, 2607-2610 | 7.4 | 44 |
| 258 | 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 |
| 257 | Protein structural dynamics as determined by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 1988 , 40, 147-157 | 0.8 | 43 |
| 256 | Dysferlin-mediated phosphatidylserine sorting engages macrophages in sarcolemma repair. <i>Nature Communications</i> , 2016 , 7, 12875 | 17.4 | 42 |
| 255 | 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 |
| 254 | 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 |

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| 253 | Novel fluorescent proteins for high-content screening. <i>Drug Discovery Today</i> , 2006 , 11, 1054-60 | 8.8 | 41 |
| 252 | Exploring protein structure and dynamics under denaturing conditions by single-molecule FRET analysis. <i>Macromolecular Bioscience</i> , 2006 , 6, 907-22 | 5.5 | 41 |
| 251 | Ultrasensitive confocal fluorescence microscopy of C-reactive protein interacting with FcγRIIIa. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 2372-7 | 9.4 | 41 |
| 250 | 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 |
| 249 | Dual color photoactivation localization microscopy of cardiomyopathy-associated desmin mutants. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16047-57 | 5.4 | 40 |
| 248 | Ligand migration and protein fluctuations in myoglobin mutant L29W. <i>Biochemistry</i> , 2005 , 44, 5095-105 | 3.2 | 40 |
| 247 | 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 |
| 246 | Structural dynamics of myoglobin: FTIR-TDS study of NO migration and binding. <i>Biochemistry</i> , 2008 , 47, 935-48 | 3.2 | 37 |
| 245 | Searching for neuroglobin's role in the brain. <i>IUBMB Life</i> , 2007 , 59, 490-7 | 4.7 | 37 |
| 244 | 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 |
| 243 | Conformational heterogeneity in RNA polymerase observed by single-pair FRET microscopy. <i>Biophysical Journal</i> , 2006 , 90, 4605-17 | 2.9 | 35 |
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