Ranieri Bizzarri

List of Publications by Year
in descending order

108 papers	3,196 citations	126907 33 h-index	168389 53 g-index
112 all docs	112 docs citations	112 times ranked	5163 citing authors

#	Article	IF	Citations
1	Polarity-Sensitive Coumarins Tailored to Live Cell Imaging. Journal of the American Chemical Society, 2010, 132, 1276-1288.	13.7	232
2	Green fluorescent protein based pH indicators for in vivo use: a review. Analytical and Bioanalytical Chemistry, 2009, 393, 1107-1122.	3.7	170
3	Polymer composites with smart optical properties. Soft Matter, 2011, 7, 3689.	2.7	161
4	Development of a Novel GFP-based Ratiometric Excitation and Emission pH Indicator for Intracellular Studies. Biophysical Journal, 2006, 90, 3300-3314.	0.5	145
5	Delivery and Subcellular Targeting of Dendrimer-Based Fluorescent pH Sensors in Living Cells. Journal of the American Chemical Society, 2010, 132, 18158-18167.	13.7	137
6	Cisâ^'TransPhotoisomerization of Fluorescent-Protein Chromophores. Journal of Physical Chemistry B, 2008, 112, 10714-10722.	2.6	114
7	Cancer-Cell-Targeted Theranostic Cubosomes. Langmuir, 2014, 30, 6228-6236.	3.5	95
8	In Vivo Study of HIV-1 Tat Arginine-rich Motif Unveils Its Transport Properties. Molecular Therapy, 2007, 15, 1313-1322.	8.2	80
9	ACE2 in the Era of SARS-CoV-2: Controversies and Novel Perspectives. Frontiers in Molecular Biosciences, 2020, 7, 588618.	3.5	77
10	Dual Fluorescence through Kashaâ€™s Rule Breaking: An Unconventional Photomechanism for Intracellular Probe Design. Journal of Physical Chemistry B, 2015, 119, 6144-6154.	2.6	76
11	Spectroscopic and Structural Study of Proton and Halide Ion Cooperative Binding to GFP. Biophysical Journal, 2007, 93, 232-244.	0.5	75
12	Ligand-Selective Photodissociation from [Ru(bpy)(4AP)4]2+: a Spectroscopic and Computational Study. Inorganic Chemistry, 2009, 48, 1469-1481.	4.0	68
13	Measurement of nanoscale three-dimensional diffusion in the interior of living cells by STED-FCS. Nature Communications, 2017, 8, 65.	12.8	68
14	Inhibitory effect of the human liver-derived antimicrobial peptide hepcidin 20 on biofilms of polysaccharide intercellular adhesin (PIA)-positive and PIA-negative strains ofStaphylococcus epidermidis. Biofouling, 2014, 30, 435-446.	2.2	62
15	Cubosome formulations stabilized by a dansyl-conjugated block copolymer for possible nanomedicine applications. Colloids and Surfaces B: Biointerfaces, 2015, 129, 87-94.	5.0	62
16	Single Amino Acid Replacement Makes Aequorea victoria Fluorescent Proteins Reversibly Photoswitchable. Journal of the American Chemical Society, 2010, 132, 85-95.	13.7	61
17	Green Fluorescent Protein Ground States:â€‰ The Influence of a Second Protonation Site near the Chromophore,. Biochemistry, 2007, 46, 5494-5504.	2.5	60
18	Synthesis and Characterization of New Malolactonate Polymers and Copolymers for Biomedical Applications. Macromolecules, 2002, 35, 1215-1223.	4.8	59

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19	Ageing and oxidative stress: A role for dolichol in the antioxidant machinery of cell membranes?. Journal of Alzheimer's Disease, 2004, 6, 129-135.	2.6	55
20	Thermosensitive hydrogel based on chitosan and its derivatives containing medicated nanoparticles for transcorneal administration of 5-fluorouracil. International Journal of Nanomedicine, 2017, Volume 12, 633-643.	6.7	47
21	Intracellular pH measurements made simple by fluorescent protein probes and the phasor approach to fluorescence lifetime imaging. Chemical Communications, 2012, 48, 5127.	4.1	46
22	A Multiphase Model of the Dynamics of HBV Infection in Hbeag-Negative Patients during Pegylated Interferon-Î±2A, Lamivudine and Combination Therapy. Antiviral Therapy, 2006, 11, 197-212.	1.0	46
23	Interaction of CdSe/ZnS quantum dots with the marine diatom Phaeodactylum tricornutum and the green alga Dunaliella tertiolecta: A biophysical approach. Biophysical Chemistry, 2013, 182, 4-10.	2.8	44
24	Real-time measurement of endosomal acidification by a novel genetically encoded biosensor. Analytical and Bioanalytical Chemistry, 2009, 393, 1123-1133.	3.7	43
25	A fluorescent molecular rotor showing vapochromism, aggregation-induced emission, and environmental sensing in living cells. Journal of Materials Chemistry C, 2016, 4, 3018-3027.	5.5	43
26	Tuning the Transport Properties of HIV-1 Tat Arginine-Rich Motif in Living Cells. Traffic, 2008, 9, 528-539.	2.7	42
27	Probing Nuclear Localization Signal-Importin Î± Binding Equilibria in Living Cells. Journal of Biological Chemistry, 2009, 284, 36638-36646.	3.4	42
28	Raman Study of Chromophore States in Photochromic Fluorescent Proteins. Journal of the American Chemical Society, 2009, 131, 96-103.	13.7	41
29	One-Pot Synthesis of Gold Nanoshells with High Photon-to-Heat Conversion Efficiency. Journal of Physical Chemistry C, 2009, 113, 7516-7521.	3.1	39
30	Threshold temperature luminescent indicators from biodegradable poly(lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	6.7	38
31	Extremely Low Forces Induce Extreme Axon Growth. Journal of Neuroscience, 2020, 40, 4997-5007.	3.6	38
32	Patterning of Polymeric Hydrogels for Biomedical Applications. Macromolecular Rapid Communications, 2001, 22, 1284.	3.9	36
33	Nanoscale Protein Diffusion by STED-Based Pair Correlation Analysis. PLoS ONE, 2014, 9, e99619.	2.5	35
34	Î²-Amyloid Amorphous Aggregates Induced by the Small Natural Molecule Ferulic Acid. Journal of Physical Chemistry B, 2013, 117, 13816-13821.	2.6	34
35	Dendrimer-Based Fluorescent Indicators: In Vitro and In Vivo Applications. PLoS ONE, 2011, 6, e28450.	2.5	33
36	Imaging intracellular viscosity by a new molecular rotor suitable for phasor analysis of fluorescence lifetime. Analytical and Bioanalytical Chemistry, 2013, 405, 6223-6233.	3.7	31

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37	A Novel Coumarin Fluorescent Sensor to Probe Polarity Around Biomolecules. Journal of Biomedical Nanotechnology, 2009, 5, 722-729.	1.1	30
38	Intact Microtubules Preserve Transient Receptor Potential Vanilloid 1 (TRPV1) Functionality through Receptor Binding. Journal of Biological Chemistry, 2012, 287, 7803-7811.	3.4	28
39	Quantitative Analysis of Tat Peptide Binding to Import Carriers Reveals Unconventional Nuclear Transport Properties. Journal of Biological Chemistry, 2011, 286, 12292-12299.	3.4	25
40	Impact of Different Mucoadhesive Polymeric Nanoparticles Loaded in Thermosensitive Hydrogels on Transcorneal Administration of 5-Fluorouracil. Pharmaceutics, 2019, 11, 623.	4.5	25
41	New perspectives for (S)-dolichol and (S)-nordolichol synthesis and biological functions. Biogerontology, 2003, 4, 353-363.	3.9	23
42	Photoswitching of E222Q GFP mutants: â€œconcertedâ€•mechanism of chromophore isomerization and protonation. Photochemical and Photobiological Sciences, 2010, 9, 1307.	2.9	23
43	The effects of ferulic acid on Î²-amyloid fibrillar structures investigated through experimental and computational techniques. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2924-2937.	2.4	23
44	Unveiling TRPV1 Spatio-Temporal Organization in Live Cell Membranes. PLoS ONE, 2015, 10, e0116900.	2.5	23
45	Cisâ€“trans photoisomerization properties of GFP chromophore analogs. European Biophysics Journal, 2011, 40, 1205-1214.	2.2	22
46	Live cell cytoplasm staining and selective labeling of intracellular proteins by non-toxic cell-permeant thiophene fluorophores. Organic and Biomolecular Chemistry, 2014, 12, 1603.	2.8	22
47	Hue-based quantification of mechanochromism towards a cost-effective detection of mechanical strain in polymer systems. Chemical Communications, 2017, 53, 248-251.	4.1	21
48	Fluorescent Recovery after Photobleaching (FRAP) Analysis of Nuclear Export Rates Identifies Intrinsic Features of Nucleocytoplasmic Transport. Journal of Biological Chemistry, 2012, 287, 5554-5561.	3.4	20
49	Unveiling LOX-1 receptor interplay with nanotopography: mechanotransduction and atherosclerosis onset. Scientific Reports, 2013, 3, 1141.	3.3	20
50	Polarization-dependent laser-light structured directionality with polymer composite materials. Materials Letters, 2012, 81, 232-234.	2.6	19
51	Dolichol: A Component of the Cellular Antioxidant Machinery. Lipids, 2016, 51, 477-486.	1.7	19
52	Fluorescence recovery after photobleaching reveals the biochemistry of nucleocytoplasmic exchange. Analytical and Bioanalytical Chemistry, 2012, 403, 2339-2351.	3.7	18
53	Imaging the static dielectric constant in vitro and in living cells by a bioconjugable GFP chromophore analog. Chemical Communications, 2013, 49, 1723.	4.1	18
54	Quantitative optical lock-in detection for quantitative imaging of switchable and non-switchable components. Microscopy Research and Technique, 2016, 79, 929-937.	2.2	18

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55	Organization of inner cellular components as reported by a viscosity-sensitive fluorescent Bodipy probe suitable for phasor approach to FLIM. Biophysical Chemistry, 2016, 208, 17-25.	2.8	18
56	A multiphase model of the dynamics of HBV infection in HBeAg-negative patients during pegylated interferon-alpha2a, lamivudine and combination therapy. Antiviral Therapy, 2006, 11, 197-212.	1.0	15
57	Nanoparticle systems for the targeted release of active principles of proteic nature. Journal of Materials Science: Materials in Medicine, 2003, 14, 705-711.	3.6	14
58	Role of Gln222 in Photoswitching of Aequorea Fluorescent Proteins: A Twisting and H-Bonding Affair?. ACS Chemical Biology, 2018, 13, 2082-2093.	3.4	14
59	Influence of structural parameters on the ring-opening polymerization of new alkyl malolactonate monomers and on the biocompatibility of polymers therefrom. Macromolecular Chemistry and Physics, 2002, 203, 1684-1693.	2.2	12
60	Nucleocytoplasmic transport in cells with progerin-induced defective nuclear lamina. Biophysical Chemistry, 2017, 229, 77-83.	2.8	12
61	Identification of a targetable KRAS-mutant epithelial population in non-small cell lung cancer. Communications Biology, 2021, 4, 370.	4.4	12
62	Small-scale laser based electron accelerators for biology and medicine: a comparative study of the biological effectiveness. Proceedings of SPIE, 2013, , .	0.8	11
63	Temperature and pressure effects on GFP mutants: explaining spectral changes by molecular dynamics simulations and TD-DFT calculations. Physical Chemistry Chemical Physics, 2016, 18, 12828-12838.	2.8	11
64	Poly(Ester-Sulfide)S from Oligo(Oxyethylene)Dithiols and Bis(Acrylates). Journal of Bioactive and Compatible Polymers, 2002, 17, 3-21.	2.1	10
65	Fluorescence imaging of biochemical relationship between ubiquitinated histone 2A and Polycomb complex protein BMI1. Biophysical Chemistry, 2019, 253, 106225.	2.8	10
66	A spatial multi-scale fluorescence microscopy toolbox discloses entry checkpoints of SARS-CoV-2 variants in Vero E6 cells. Computational and Structural Biotechnology Journal, 2021, 19, 6140-6156.	4.1	10
67	Two Dimensional Patterning of Fluorescent Proteins in Hydrogels. Langmuir, 2006, 22, 29-31.	3.5	9
68	Synthesis and Characterization of Segmented Hydrosoluble Poly(Tartaraide)s. Journal of Bioactive and Compatible Polymers, 1999, 14, 504-517.	2.1	8
69	Dolichol: a solar filter with UV-absorbing properties which can be photoenhanced. Biogerontology, 2003, 4, 379-386.	3.9	8
70	Surface patterning and biological evaluation of semi-interpenetrated poly(HEMA)/poly(alkylÎ²-malolactonate)s. Macromolecular Symposia, 2003, 197, 369-380.	0.7	8
71	Structure of [Ru(bpy)_n(AP)_(6-2n)]²⁺homogeneous complexes: DFT calculation vs. EXAFS. Journal of Physics: Conference Series, 2009, 190, 012141.	0.4	8
72	LESM: a laser-driven sub-MeV electron source delivering ultra-high dose rate on thin biological samples. Journal Physics D: Applied Physics, 2016, 49, 275401.	2.8	8

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73	Simultaneous Detection of Local Polarizability and Viscosity by a Single Fluorescent Probe in Cells. Biophysical Journal, 2018, 114, 2212-2220.	0.5	8
74	Synthesis and Characterization of New Poly(Ester-Amide)s Containing Oligo(Oxyethylene) Segments. Journal of Bioactive and Compatible Polymers, 2000, 15, 43-59.	2.1	7
75	Lipid-Conjugated Rigidochromic Probe Discloses Membrane Alteration in Model Cells of Krabbe Disease. Biophysical Journal, 2019, 116, 477-486.	0.5	6
76	Laser light polarization plastic visualizer: light scattering distribution and anisotropy. RSC Advances, 2013, 3, 7677.	3.6	5
77	New Coumarin Dipicolinate Europium Complexes with a Rich Chemical Speciation and Tunable Luminescence. Molecules, 2021, 26, 1265.	3.8	5
78	MULTIFUNCTIONAL HYDROPHILIC POLYMERS. Journal of Macromolecular Science - Pure and Applied Chemistry, 1999, 36, 901-915.	2.2	5
79	Malolactonate polymers and copolymers for biomedical applications. Macromolecular Symposia, 2003, 197, 303-314.	0.7	4
80	Studying Membrane Properties Using Fluorescence Lifetime Imaging Microscopy (FLIM). Springer Series on Fluorescence, 2012, , 215-240.	0.8	4
81	Synthesis and Characterization of New Poly(ester-amide)s Containing Oligo(oxyethylene) Segments. Journal of Bioactive and Compatible Polymers, 2000, 15, 43-59.	2.1	4
82	Synthesis, Cellular Delivery and In vivo Application of Dendrimer-based pH Sensors. Journal of Visualized Experiments, 2013, , .	0.3	2
83	Iron (III)/multiacrylate-based holographic mixtures. Journal of Applied Physics, 2013, 114, 193101.	2.5	2
84	Main photophysical properties of oxyblepharismin. Biophysical Chemistry, 2017, 229, 5-10.	2.8	2
85	Unique Photophysical Behavior of Coumarin-Based Viscosity Probes during Molecular Self-Assembly. ACS Omega, 2019, 4, 4785-4792.	3.5	2
86	Imaging of Static Dielectric Permittivity InÂVitro and in Living Cells by a Bioconjugable GFP Chromophore Analog. Biophysical Journal, 2013, 104, 530a.	0.5	1
87	Imaging of Intracellular Viscosity and Membrane Order by New Molecular Rotors Suitable for Phasor Analysis of Fluorescence Lifetime. Biophysical Journal, 2014, 106, 24a.	0.5	1
88	Application of the SPLIT-FLCS Method to the Detection of Nanoscale Diffusion in 3D in Live Cells. Biophysical Journal, 2016, 110, 195a.	0.5	1
89	Curcumin-Like Compounds Designed to Modify Amyloid Beta Peptide Aggregation Pattern. Biophysical Journal, 2016, 110, 203a.	0.5	1
90	Develpoment and Characterization of Novel Probes for Photoacoustic Microscopy. Biophysical Journal, 2021, 120, 363a.	0.5	1

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91	An Efficient Aequorea victoria Green Fluorescent Protein for Stimulated Emission Depletion Super-Resolution Microscopy. International Journal of Molecular Sciences, 2022, 23, 2482.	4.1	1
92	MULTIFUNCTIONAL HYDROPHILIC POLYMERS. Journal of Macromolecular Science - Pure and Applied Chemistry, 1999, 36, 901-915.	2.2	0
93	An investigation of the condensation kinetics in poly(ester-amide) and poly(ester-sulphide) preparation. Macromolecular Symposia, 2003, 197, 315-330.	0.7	0
94	Engineered Green Fluorescence Proteins for Proteomics and Biomolecular Electronic Applications. Macromolecular Symposia, 2004, 218, 283-292.	0.7	0
95	Tuning the Transport Properties of HIV-1 Tat Arginine-Rich Motif in Living Cells. Traffic, 2008, 9, 2291-2291.	2.7	0
96	Dolichol: A Natural Biomarker of Aging Endowed With a Photoenhanced Highly-Effective Solar Filter Activity. Recent Patents on Endocrine, Metabolic & Immune Drug Discovery, 2010, 4, 131-137.	0.6	0
97	Recognition of Protein Binding Events by Polarity-Sensitive Probes. Biophysical Journal, 2010, 98, 181a.	0.5	0
98	Novel Environmentally-Sensitive Fluorescent Probes for Nanoscale Live Cell Imaging. Biophysical Journal, 2011, 100, 3a.	0.5	0
99	The Proton Sensitivity of Fluorescent Proteins: Towards Intracellular pH Indicators. Springer Series on Fluorescence, 2011, , 59-97.	0.8	0
100	Fluorescent Proteins. , 2012, , 1325-1348.		0
101	FRAP Analysis of Nuclear Export Rates Identifies Intrisic Features of Nucleocytoplasmic Transport. Biophysical Journal, 2012, 102, 526a.	0.5	0
102	Nanoscale Protein Diffusion by Sted-Based Spatiotemporal Fluorescence Correlation Spectroscopy. Biophysical Journal, 2014, 106, 602a.	0.5	0
103	Nanoscale Protein Diffusion by STED-Based Pair Correlation Analysis. Biophysical Journal, 2015, 108, 325a.	0.5	0
104	Pressure-Induced Spectral Shifts in GFP Mutants Explained by Molecular Dynamics Simulations. Biophysical Journal, 2016, 110, 377a.	0.5	0
105	Fluorescence lifetime microscopy reveals the biologically-related photophysical heterogeneity of oxyblepharismin in light-adapted (blue) Blepharisma japonicum cells. Photochemical and Photobiological Sciences, 2017, 16, 1502-1511.	2.9	0
106	Photoacoustic Selective Plane Illumination Microscopy. Biophysical Journal, 2020, 118, 175a.	0.5	0
107	Green Fluorescent Proteins as Intracellular pH Indicators. , 2010, , 10-1-10-22.		0
108	New 1,3-Disubstituted Benzo[h]Isoquinoline Cyclen-Based Ligand Platform: Synthesis, Eu3+ Multiphoton Sensitization and Imaging Applications. Molecules, 2021, 26, 58.	3.8	0