

Gerard Marriott

List of Publications by Year in descending order

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71
papers

3,694
citations

147801

31
h-index

128289

60
g-index

77
all docs

77
docs citations

77
times ranked

4332
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of shape determination in motile cells. <i>Nature</i> , 2008, 453, 475-480.	27.8	658
2	Microfilament dynamics during cell movement and chemotaxis monitored using a GFP-actin fusion protein. <i>Current Biology</i> , 1997, 7, 176-183.	3.9	238
3	Trap-controlled mechanoluminescent materials. <i>Progress in Materials Science</i> , 2019, 103, 678-742.	32.8	213
4	Optical lock-in detection imaging microscopy for contrast-enhanced imaging in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17789-17794.	7.1	200
5	Analysis of protein interactions using fluorescence technologies. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 635-640.	6.1	196
6	Involvement of ezrin/moesin in de novo actin assembly on phagosomal membranes. <i>EMBO Journal</i> , 2000, 19, 199-212.	7.8	162
7	Trisoxazole macrolide toxins mimic the binding of actin-capping proteins to actin. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 1058-1063.	8.2	147
8	Optical Lock-In Detection of FRET Using Synthetic and Genetically Encoded Optical Switches. <i>Biophysical Journal</i> , 2008, 94, 4515-4524.	0.5	99
9	Pseudotyping exosomes for enhanced protein delivery in mammalian cells. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 3153-3170.	6.7	92
10	Biomolecular mimicry in the actin cytoskeleton: Mechanisms underlying the cytotoxicity of kabiramide C and related macrolides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13851-13856.	7.1	89
11	The suitability and application of a GFP-actin fusion protein for long-term imaging of the organization and dynamics of the cytoskeleton in mammalian cells. <i>European Journal of Cell Biology</i> , 1998, 77, 81-90.	3.6	88
12	Caged Protein Conjugates and Light-Directed Generation of Protein Activity: Preparation, Photoactivation, and Spectroscopic Characterization of Caged G-Actin Conjugates. <i>Biochemistry</i> , 1994, 33, 9092-9097.	2.5	87
13	Local Photorelease of Caged Thymosin β^4 in Locomoting Keratocytes Causes Cell Turning. <i>Journal of Cell Biology</i> , 2001, 153, 1035-1048.	5.2	75
14	Structural Basis of Swinholide A Binding to Actin. <i>Chemistry and Biology</i> , 2005, 12, 287-291.	6.0	73
15	Light-Directed Generation of the Actin-Activated ATPase Activity of Caged Heavy Meromyosin. <i>Biochemistry</i> , 1996, 35, 3170-3174.	2.5	69
16	Preparation and Photoactivation of Caged Fluorophores and Caged Proteins Using a New Class of Heterobifunctional, Photocleavable Cross-Linking Reagents. <i>Bioconjugate Chemistry</i> , 1998, 9, 143-151.	3.6	67
17	Optical switching of dipolar interactions on proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4759-4764.	7.1	63
18	Ferroelectric $\text{Sr}_3\text{Sn}_2\text{O}_7\text{:Nd}^{3+}$: A New Multipiezo Material with Ultrasensitive and Sustainable Near-Infrared Piezoluminescence. <i>Advanced Materials</i> , 2020, 32, e1908083.	21.0	62

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19	Spectroscopic and functional characterization of an environmentally sensitive fluorescent actin conjugate. <i>Biochemistry</i> , 1988, 27, 6214-6220.	2.5	58
20	Optically Switchable Chelates: Optical Control and Sensing of Metal Ions. <i>Journal of Organic Chemistry</i> , 2008, 73, 227-233.	3.2	55
21	High-contrast grating resonators for label-free detection of disease biomarkers. <i>Scientific Reports</i> , 2016, 6, 27482.	3.3	50
22	Absolute Stereochemistry of Ulupualide A. <i>Organic Letters</i> , 2004, 6, 597-599.	4.6	49
23	Family of Site-Selective Molecular Optical Switches. <i>Journal of Organic Chemistry</i> , 2005, 70, 2009-2013.	3.2	49
24	Optical switch probes and optical lock-in detection (OLID) imaging microscopy: high-contrast fluorescence imaging within living systems. <i>Biochemical Journal</i> , 2011, 433, 411-422.	3.7	47
25	DdLIM Is a Cytoskeleton-associated Protein Involved in the Protrusion of Lamellipodia in <i>Dictyostelium</i> . <i>Molecular Biology of the Cell</i> , 1998, 9, 545-559.	2.1	44
26	Seragamides A-F, new actin-targeting depsipeptides from the sponge <i>Suberites japonicus</i> Thiele. <i>Tetrahedron</i> , 2006, 62, 3536-3542.	1.9	43
27	Wideband acousto-optic light modulator for frequency domain fluorometry and phosphorimetry. <i>Review of Scientific Instruments</i> , 1989, 60, 2596-2600.	1.3	40
28	Decoy exosomes as a novel biologic reagent to antagonize inflammation. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3413-3425.	6.7	40
29	Synthetic Mimetics of Actin-Binding Macrolides: Rational Design of Actin-Targeted Drugs. <i>Chemistry and Biology</i> , 2008, 15, 287-294.	6.0	39
30	Targeted delivery of lysosomal enzymes to the endocytic compartment in human cells using engineered extracellular vesicles. <i>Scientific Reports</i> , 2019, 9, 17274.	3.3	36
31	Proximity relationships and structural dynamics of the phalloidin binding site of actin filaments in solution and on single actin filaments on heavy meromyosin. <i>Biochemistry</i> , 1995, 34, 11017-11025.	2.5	32
32	Optical Control of Calcium Affinity in a Spiroamido-rhodamine Based Calcium Chelator. <i>Organic Letters</i> , 2011, 13, 2018-2021.	4.6	29
33	Silver Nanoparticle-Embedded Microbubble as a Dual-Mode Ultrasound and Optical Imaging Probe. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9217-9223.	8.0	29
34	Rational design, synthesis, and characterization of highly fluorescent optical switches for high-contrast optical lock-in detection (OLID) imaging microscopy in living cells. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1030-1040.	3.0	28
35	Near-infrared luminescence from double-perovskite $\text{Sr}_3\text{Sn}_2\text{O}_7\text{Nd}_3$: A new class of probe for in vivo imaging in the second optical window of biological tissue. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 591-595.	1.1	28
36	Human platelets repurposed as vehicles for in vivo imaging of myeloma xenotransplants. <i>Oncotarget</i> , 2016, 7, 21076-21090.	1.8	28

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37	Fluorescent Kabiramides: New Probes to Quantify Actin in Vitro and in Vivo. <i>Bioconjugate Chemistry</i> , 2005, 16, 1382-1389.	3.6	26
38	[11] Preparation and light-directed activation of caged proteins. <i>Methods in Enzymology</i> , 2003, 360, 274-288.	1.0	25
39	[24] Fluorescence resonance energy transfer imaging microscopy and fluorescence polarization imaging microscopy. <i>Methods in Enzymology</i> , 2003, 360, 561-580.	1.0	24
40	Daylight-Mediated, Passive, and Sustained Release of the Glaucoma Drug Timolol from a Contact Lens. <i>ACS Central Science</i> , 2018, 4, 1677-1687.	11.3	22
41	Structural and Biochemical Studies of Actin in Complex with Synthetic Macrolide Tail Analogues. <i>ChemMedChem</i> , 2014, 9, 2286-2293.	3.2	20
42	Sequential deletion of CD63 identifies topologically distinct scaffolds for surface engineering of exosomes in living human cells. <i>Nanoscale</i> , 2020, 12, 12014-12026.	5.6	20
43	Snake based automatic tracing of vocal-fold motion from high-speed digital images. , 2012, , .		17
44	Tropomyosin Dynamics in Cardiac Thin Filaments: A Multisite Förster Resonance Energy Transfer and Anisotropy Study. <i>Biophysical Journal</i> , 2008, 94, 4358-4369.	0.5	16
45	Proteomic changes in rat thyroarytenoid muscle induced by botulinum neurotoxin injection. <i>Proteomics</i> , 2008, 8, 1933-1944.	2.2	15
46	Synthesis and Spectroscopic Characterization of 1-Bromo-(4-bromoacetyl)naphthalene. A Thiol-Reactive Phosphorescent Probe. <i>Analytical Chemistry</i> , 1994, 66, 1490-1494.	6.5	12
47	High-Contrast Fluorescence Imaging in Fixed and Living Cells Using Optimized Optical Switches. <i>PLoS ONE</i> , 2013, 8, e64738.	2.5	12
48	Genetically encoded sensors of protein hydrodynamics and molecular proximity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2569-74.	7.1	11
49	Four New Kabiramides from the Thai Sponge, <i>Pachastrissa nux</i> . <i>Heterocycles</i> , 2006, 69, 447.	0.7	11
50	Reversible optical control of cyanine fluorescence in fixed and living cells: optical lock-in detection immunofluorescence imaging microscopy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120031.	4.0	10
51	Structural Dynamics of Troponin I during Ca ²⁺ -Activation of Cardiac Thin Filaments: A Multi-Site Förster Resonance Energy Transfer Study. <i>PLoS ONE</i> , 2012, 7, e50420.	2.5	10
52	Proteomic Profiling of Rat Thyroarytenoid Muscle. <i>Journal of Speech, Language, and Hearing Research</i> , 2006, 49, 671-685.	1.6	8
53	An Improved Optical Lock-In Detection Method for Contrast-Enhanced Imaging in Living Cells. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	6
54	Engineering platelets for tumour targeting. <i>Aging</i> , 2016, 8, 1572-1573.	3.1	5

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55	Probing Conformational Changes of Prestin with Thiol-Reactive Optical Switches. <i>Biophysical Journal</i> , 2008, 95, 3036-3042.	0.5	4
56	Synthesis and spectroscopic characterization of red-shifted spironaphthoxazine based optical switch probes. <i>Tetrahedron Letters</i> , 2010, 51, 6753-6755.	1.4	3
57	Editorial: Multimodality Molecular Imaging. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	3
58	Preparation, Characterization, and Application of Optical Switch Probes. <i>Current Protocols in Chemical Biology</i> , 2010, 2, 153-169.	1.7	3
59	Bead-Based Immunocomplex Entrapment Assays for Rapid, Sensitive, and Multiplexed Detection of Disease Biomarkers with Minimal User Intervention. <i>ACS Sensors</i> , 2020, 5, 180-190.	7.8	2
60	rsCherryRev and NISO Red-shifted Optical Switch Probes for Optical Lock-in Detection (OLID) Imaging and 2-colour OLID-FRET. <i>Biophysical Journal</i> , 2009, 96, 293a.	0.5	1
61	High-Contrast Fluorescence Imaging Using new Optical Switches and Optical Lock-in Detection Imaging Microscopy. <i>Biophysical Journal</i> , 2010, 98, 619a.	0.5	1
62	Genetically-encoded sensors of protein hydrodynamics. <i>Oncotarget</i> , 2015, 6, 16808-16809.	1.8	1
63	Absorption and fluorescence spectroscopic studies of the calcium-dependent lipid binding protein P36: the annexin repeat as the calcium binding site [Erratum to document cited in CA113(7):54574k]. <i>Biochemistry</i> , 1991, 30, 312-312.	2.5	0
64	Molecular imaging of the cytoskeleton using GFP-actin fluorescence microscopy. <i>Progress in Biotechnology</i> , 2002, , 25-34.	0.2	0
65	Cell Deformation Mechanisms Studied with Actin-Containing Giant Vesicles, a Cell-Mimicking System. <i>Perspectives in Supramolecular Chemistry</i> , 2007, , 319-333.	0.1	0
66	Optical Switchable Spironaphthoxazine (NISO)-derived Probes for Optical Lock-in Detection (OLID) Imaging Microscopy and OLID-FRET. <i>Biophysical Journal</i> , 2009, 96, 293a.	0.5	0
67	Optical Lock-in Detection (OLID) and OLID-FRET Imaging Microscopy. <i>Biophysical Journal</i> , 2009, 96, 374a.	0.5	0
68	Optical Manipulation of Protein Activity and Protein Interactions Using Caged Proteins and Optical Switch Protein Conjugates. <i>Neuromethods</i> , 2011, , 213-231.	0.3	0
69	New Probes for High-contrast Imaging and Manipulation of Biomolecules within Living Systems. , 2013, , .		0
70	Synthetic and Genetically Encoded Fluorescence Probes for Quantitative Analysis of Protein Hydrodynamics. <i>Springer Series on Fluorescence</i> , 2016, , 271-286.	0.8	0
71	Editorial: Modern Tools for Time-Resolved Luminescence Biosensing and Imaging. <i>Frontiers in Physics</i> , 0, 9, .	2.1	0