Anthony Romieu

List of Publications by Year in descending order

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126907 60623 6,920 110 33 81 citations g-index h-index papers 124 124 124 10892 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Accurate whole human genome sequencing using reversible terminator chemistry. Nature, 2008, 456, 53-59.	27.8	3,118
2	Removal of oxygen free-radical-induced 5',8-purine cyclodeoxynucleosides from DNA by the nucleotide excision-repair pathway in human cells. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3832-3837.	7.1	332
3	BTA, a novel reagent for DNA attachment on glass and efficient generation of solid-phase amplified DNA colonies. Nucleic Acids Research, 2006, 34, e22-e22.	14.5	184
4	Water-Soluble BODIPY Derivatives. Organic Letters, 2009, 11, 2049-2052.	4.6	170
5	A new class of cleavable fluorescent nucleotides: synthesis and optimization as reversible terminators for DNA sequencing by synthesis â€. Nucleic Acids Research, 2008, 36, e25-e25.	14.5	124
6	Oxidative base damage to DNA: specificity of base excision repair enzymes. Mutation Research - Reviews in Mutation Research, 2000, 462, 121-128.	5.5	102
7	7-Hydroxycoumarinâ^'Hemicyanine Hybrids: A New Class of Far-Red Emitting Fluorogenic Dyes. Organic Letters, 2008, 10, 4175-4178.	4.6	102
8	Excision of 5,6-Dihydroxy-5,6-dihydrothymine, 5,6-Dihydrothymine, and 5-Hydroxycytosine from Defined Sequence Oligonucleotides byEscherichia coliEndonuclease III and Fpg Proteins: Kinetic and Mechanistic Aspectsâ€. Biochemistry, 1999, 38, 3335-3344.	2.5	98
9	Synthesis and UV Photolysis of Oligodeoxynucleotides That Contain 5-(Phenylthiomethyl)-2â€~-deoxyuridine:  A Specific Photolabile Precursor of 5-(2â€~-Deoxyuridilyl)methyl Radical. Organic Letters, 2000, 2, 1085-1088.	4.6	97
10	Radiation-Induced DNA Damage: Formation, Measurement, and Biochemical Features. Journal of Environmental Pathology, Toxicology and Oncology, 2004, 23, 33-44.	1.2	96
11	Azoâ€Based Fluorogenic Probes for Biosensing and Bioimaging: Recent Advances and Upcoming Challenges. Chemistry - an Asian Journal, 2017, 12, 2008-2028.	3.3	90
12	Synthesis and Characterization of Oligonucleotides Containing 5â€~,8-Cyclopurine 2â€~-Deoxyribonucleosides: (5â€~R)-5â€~,8-Cyclo-2â€~-deoxyadenosine, (5â€~S)-5â€~,8-Cyclo-2â€~-deoxyguanosin (5â€~R)-5â€~,8-Cyclo-2â€~-deoxyguanosine. Chemical Research in Toxicology, 1999, 12, 412-421.	ı <i>e,</i> За з яd	88
13	Waterâ€Soluble Redâ€Emitting Distyrylâ€Borondipyrromethene (BODIPY) Dyes for Biolabeling. Chemistry - A European Journal, 2012, 18, 7229-7242.	3.3	87
14	Novel Water-Soluble Near-Infrared Cyanine Dyes:Â Synthesis, Spectral Properties, and Use in the Preparation of Internally Quenched Fluorescent Probes. Bioconjugate Chemistry, 2007, 18, 1303-1317.	3.6	86
15	Site-Specific Introduction of (5â€~S)-5â€~,8-Cyclo-2â€~-deoxyadenosine into Oligodeoxyribonucleotides. Journal of Organic Chemistry, 1998, 63, 5245-5249.	3.2	80
16	Water-solubilisation and bio-conjugation of a red-emitting BODIPY marker. Organic and Biomolecular Chemistry, 2011, 9, 66-69.	2.8	68
17	"AND―luminescent "reactive―molecular logic gates: a gateway to multi-analyte bioimaging and biosensing. Organic and Biomolecular Chemistry, 2015, 13, 1294-1306.	2.8	68
18	Development of a New Nonpeptidic Self-Immolative Spacer. Application to the Design of Protease Sensing Fluorogenic Probes. Organic Letters, 2008, 10, 1517-1520.	4.6	60

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19	Chemiluminescent Probe for the in Vitro Detection of Protease Activity. Organic Letters, 2007, 9, 4853-4855.	4.6	56
20	A comparative study of the self-immolation of para-aminobenzylalcohol and hemithioaminal-based linkers in the context of protease-sensitive fluorogenic probes. Organic and Biomolecular Chemistry, 2010, 8, 1777.	2.8	54
21	The first latent green fluorophores for the detection of azoreductase activity in bacterial cultures. Chemical Communications, 2013, 49, 8815.	4.1	54
22	Highly Fluorescent and Waterâ€Soluble Diketopyrrolopyrrole Dyes for Bioconjugation. Angewandte Chemie - International Edition, 2015, 54, 2995-2999.	13.8	54
23	Latent Fluorophores Based on a Self-Immolative Linker Strategy and Suitable for Protease Sensing. Bioconjugate Chemistry, 2008, 19, 1707-1718.	3.6	52
24	A HTS Assay for the Detection of Organophosphorus Nerve Agent Scavengers. Chemistry - A European Journal, 2010, 16, 3510-3523.	3.3	52
25	Postsynthetic Derivatization of Fluorophores with α-Sulfo-β-alanine Dipeptide Linker. Application to the Preparation of Water-Soluble Cyanine and Rhodamine Dyes. Bioconjugate Chemistry, 2008, 19, 279-289.	3.6	46
26	The first comparative study of the ability of different hydrophilic groups to water-solubilise fluorescent BODIPY dyes. New Journal of Chemistry, 2013, 37, 1016.	2.8	46
27	Repair and replication of oxidized DNA bases using modified oligodeoxyribonucleotides. Biochimie, 2000, 82, 19-24.	2.6	42
28	Synthesis and structure–activity relationship of Huprine derivatives as human acetylcholinesterase inhibitors. Bioorganic and Medicinal Chemistry, 2009, 17, 4523-4536.	3.0	41
29	Self-cleavable chemiluminescent probes suitable for protease sensing. Organic and Biomolecular Chemistry, 2009, 7, 2941.	2.8	41
30	Bioconjugatable Azoâ€Based Darkâ€Quencher Dyes: Synthesis and Application to Proteaseâ€Activatable Farâ€Red Fluorescent Probes. Chemistry - A European Journal, 2013, 19, 1686-1699.	3.3	37
31	Straightforward Access to Waterâ€Soluble Unsymmetrical Sulfoxanthene Dyes: Application to the Preparation of Farâ€Red Fluorescent Dyes with Large Stokes' Shifts. Chemistry - A European Journal, 2014, 20, 8330-8337.	3.3	36
32	Aryldithioethyloxycarbonyl (Ardec): A New Family of Amine Protecting Groups Removable under Mild Reducing Conditions and Their Applications to Peptide Synthesis. Chemistry - A European Journal, 2006, 12, 3655-3671.	3.3	34
33	On the synthesis of functionalized porphyrins and porphyrin conjugates via β-aminoporphyrins. New Journal of Chemistry, 2016, 40, 5758-5774.	2.8	34
34	Synthesis and post-synthetic derivatization of a cyanine-based amino acid. Application to the preparation of a novel water-soluble NIR dye. Tetrahedron Letters, 2006, 47, 8279-8284.	1.4	33
35	Dual enzyme-responsive "turn-on―fluorescence sensing systems based on in situ formation of 7-hydroxy-2-iminocoumarin scaffolds. Organic and Biomolecular Chemistry, 2015, 13, 10348-10361.	2.8	32
36	Water solubilization of xanthene dyes by post-synthetic sulfonation in organic media. Tetrahedron Letters, 2010, 51, 3304-3308.	1.4	31

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37	The first metal-free water-soluble cryptophane-111. Chemical Communications, 2011, 47, 9702.	4.1	31
38	Site-specific near-infrared fluorescent labelling of proteins on cysteine residues with <i>meso</i> -chloro-substituted heptamethine cyanine dyes. Organic and Biomolecular Chemistry, 2018, 16, 8831-8836.	2.8	31
39	A universal and ready-to-use heterotrifunctional cross-linking reagent for facile synthetic access to sophisticated bioconjugates. Organic and Biomolecular Chemistry, 2010, 8, 4329.	2.8	30
40	The first "ready-to-use―benzene-based heterotrifunctional cross-linker for multiple bioconjugation. Organic and Biomolecular Chemistry, 2013, 11, 2693.	2.8	30
41	A FRET-based probe for fluorescence sensing of sulfide/sulfite analytes, using a novel long-wavelength water-soluble 7-hydroxycoumarin as reporter fluorophore. Tetrahedron Letters, 2015, 56, 1015-1019.	1.4	30
42	Divergent Synthesis of Dihydroxanthene-Hemicyanine Fused Near-Infrared Fluorophores through the Late-Stage Amination of a Bifunctional Precursor. Organic Letters, 2016, 18, 5122-5125.	4.6	30
43	A novel heterotrifunctional peptide-based cross-linking reagent for facile access to bioconjugates. Applications to peptide fluorescent labelling and immobilisation. Organic and Biomolecular Chemistry, 2008, 6, 3065.	2.8	29
44	A Convenient Synthesis of 5-Hydroxy-2′-Deoxycytidine Phosphoramidite and its Incorporation into Oligonucleotides. Tetrahedron Letters, 1997, 38, 7531-7534.	1.4	28
45	Aminopropargyl derivative of terpyridine-bis(methyl-enamine) tetraacetic acid chelate of europium (Eu) Tj ETQq1 I Biomolecular Chemistry, 2006, 4, 4165.	1 0.784314 2.8	4 rgBT /Ove 28
46	New insights into the water-solubilisation of fluorophores by post-synthetic "click―and Sonogashira reactions. Organic and Biomolecular Chemistry, 2012, 10, 4330.	2.8	26
47	Azobenzene-caged sulforhodamine dyes: a novel class of â€~turn-on' reactive probes for hypoxic tumor cell imaging. Methods and Applications in Fluorescence, 2015, 3, 044004.	2.3	26
48	Synthesis and characterization of oligodeoxynucleotides containing the two 5R and 5S diastereomers of $(5\hat{a}\in ^2S, 6S\hat{a}\in \tilde{S})$ - $5\hat{a}\in ^2$,6-cyclo-5,6-dihydrothymidine; radiation-induced tandem lesions of thymidine. Journal of the Chemical Society Perkin Transactions 1, 1999, , 1257-1264.	0.9	25
49	Chemical and Biochemical Properties of Oligonucleotides that Contain (5′S,6S)-Cyclo-5,6-dihydrothymidine, Two Main Radiation-Induced Degradation Products of Pyrimidine 2′-Deoxyribonucleosides. Tetrahedron, 2000, 56, 8689-8701.	1.9	25
50	Kondrat'eva Ligation: Diels–Alder-Based Irreversible Reaction for Bioconjugation. Journal of Organic Chemistry, 2014, 79, 10353-10366.	3.2	24
51	A Novel Bio-Orthogonal Cross-Linker for Improved Protein/Protein Interaction Analysis. Analytical Chemistry, 2015, 87, 1853-1860.	6.5	24
52	Reaction site-driven regioselective synthesis of AChE inhibitors. Organic and Biomolecular Chemistry, 2014, 12, 156-161.	2.8	23
53	Azo-Sulforhodamine Dyes: A Novel Class of Broad Spectrum Dark Quenchers. Organic Letters, 2014, 16, 3946-3949.	4.6	23
54	A novel sulfonated prosthetic group for [¹⁸ F]-radiolabelling and imparting water solubility of biomolecules and cyanine fluorophores. Organic and Biomolecular Chemistry, 2013, 11, 469-479.	2.8	22

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55	A Synthetic Route to 3â€(Heteroaryl)â€7â€hydroxycoumarins Designed for Biosensing Applications. European Journal of Organic Chemistry, 2015, 2015, 166.	2.4	22
56	In situ formation of pyronin dyes for fluorescence protease sensing. Organic and Biomolecular Chemistry, 2017, 15, 2575-2584.	2.8	22
57	N-Fmoc- \hat{l} ±-sulfo- \hat{l} 2-alanine: a versatile building block for the water solubilisation of chromophores and fluorophores by solid-phase strategy. Organic and Biomolecular Chemistry, 2011, 9, 5337.	2.8	21
58	New insights into the water-solubilization of thiol-sensitive fluorogenic probes based on long-wavelength 7-hydroxycoumarin scaffolds. Dyes and Pigments, 2014, 110, 270-284.	3.7	21
59	Universal Dark Quencher Based on "Clicked―Spectrally Distinct Azo Dyes. Organic Letters, 2013, 15, 6082-6085.	4.6	20
60	Oxidative C–N fusion of pyridinyl-substituted porphyrins. Chemical Communications, 2018, 54, 5414-5417.	4.1	20
61	Radiation-induced damage to DNA: mechanistic aspects and measurement of base lesions. Nuclear Instruments & Methods in Physics Research B, 1999, 151, 1-7.	1.4	19
62	A novel and unusually long-lived chemiluminophore based on the 7-hydroxycoumarin scaffold. Chemical Communications, 2011, 47, 6713.	4.1	19
63	An expedient synthesis of N,N-dialkylamino-dihydroxanthene-pyrylium conjugated near-infrared fluorescent dyes. Tetrahedron Letters, 2016, 57, 317-320.	1.4	19
64	Synthesis of <i>N</i> , <i>N</i> â€Dialkylaminoâ€ <i>nor</i> â€Dihydroxantheneâ€Hemicyanine Fused Nearâ€Infra Fluorophores and Their First Waterâ€Soluble and/or Bioconjugatable Analogues. Chemistry - an Asian Journal, 2017, 12, 936-946.	red 3.3	19
65	Synthesis, stability and spectral behavior of fluorogenic sulfone-pyronin and sulfone-rosamine dyes. Dyes and Pigments, 2018, 159, 262-274.	3.7	18
66	Deeper insight into protease-sensitive "covalent-assembly―fluorescent probes for practical biosensing applications. Organic and Biomolecular Chemistry, 2019, 17, 8918-8932.	2.8	18
67	Highly Fluorescent and Waterâ€Soluble Diketopyrrolopyrrole Dyes for Bioconjugation. Angewandte Chemie, 2015, 127, 3038-3042.	2.0	17
68	Functionalization of theranostic AGuIX® nanoparticles for PET/MRI/optical imaging. RSC Advances, 2019, 9, 24811-24815.	3.6	16
69	Specificity and effect on apoptosis of Tat antibodies from vaccinated and SHIV-infected rhesus macaques and HIV-infected individuals. Vaccine, 2003, 21, 3186-3199.	3.8	15
70	Latent fluorophores based on a Mannich cyclisation trigger. Tetrahedron Letters, 2006, 47, 6229-6233.	1.4	15
71	Near-infrared emissive bacteriochlorin-diketopyrrolopyrrole triads: Synthesis and photophysical properties. Dyes and Pigments, 2019, 160, 747-756.	3.7	15
72	Synthesis of Oligonucleotides Containing the (4R) and (4S) Diastereoisomers of 4,8-Dihydro-4-hydroxy-8-oxo-2′-deoxyguanosine. European Journal of Organic Chemistry, 1999, 1999, 49-56.	2.4	14

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73	5-(PHENYLTHIOMETHYL)-2′-DEOXYURIDINE AS AN EFFICIENT PHOTOREACTIVE PRECURSOR TO GENERATE SINGLE AND MULTIPLE LESIONS WITHIN DNA FRAGMENTS. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 967-971.	1.1	14
74	Synthesis and luminescence properties of new red-shifted absorption lanthanide(iii) chelates suitable for peptide and protein labelling. Organic and Biomolecular Chemistry, 2011, 9, 2357.	2.8	14
7 5	New 3â€(Heteroaryl)â€2â€iminocoumarinâ€based Borate Complexes: Synthesis, Photophysical Properties, and Rational Functionalization for Biosensing/Biolabeling Applications. Chemistry - A European Journal, 2015, 21, 14589-14601.	3.3	14
76	The Scope of Application of Macrocyclic Polyamines Beyond Metal Chelation. European Journal of Organic Chemistry, 2019, 2019, 6146-6157.	2.4	13
77	Highly sensitive and selective fluorescence assays for rapid screening of endothelin-converting enzyme inhibitors. Biochemical Journal, 2001, 356, 813.	3.7	12
78	Total direct chemical synthesis and biological activities of human group IIA secretory phospholipase A2. Biochemical Journal, 2002, 365, 505-511.	3.7	12
79	A Labeled Neutral Endopeptidase Inhibitor as a Potential Tool for Tumor Diagnosis and Prognosis. Angewandte Chemie - International Edition, 2005, 44, 4058-4061.	13.8	12
80	A versatile access to new halogenated 7-azidocoumarins for photoaffinity labeling: Synthesis and photophysical properties. Dyes and Pigments, 2011, 91, 427-434.	3.7	12
81	Kinetics improvement of protease-mediated formation of pyronin dyes. Tetrahedron Letters, 2018, 59, 1940-1944.	1.4	12
82	Synthesis and reactivity of a bis-sultone cross-linker for peptideconjugation and [18F]-radiolabelling via unusual "double click―approach. Organic and Biomolecular Chemistry, 2012, 10, 1068-1078.	2.8	10
83	Rational Design of Latent Fluorophores from Waterâ€Soluble Hydroxyphenyltriazine Dyes Suitable for Lipase Sensing. European Journal of Organic Chemistry, 2015, 2015, 1664-1669.	2.4	10
84	Synthesis, Biological Evaluation, and ⟨i⟩in Vivo⟨/i⟩ Imaging of the first Camptothecin–Fluorescein Conjugate. Bioconjugate Chemistry, 2013, 24, 1119-1133.	3.6	9
85	Straightforward synthesis of bioconjugatable azo dyes. Part 2: Black Hole Quencher-2 (BHQ-2) and BlackBerry Quencher 650 (BBQ-650) scaffolds. Tetrahedron Letters, 2014, 55, 6764-6768.	1.4	9
86	Rapid Synthesis of Unsymmetrical Sulforhodamines Through Nucleophilic Amination of a Monobrominated Sulfoxanthene Dye. European Journal of Organic Chemistry, 2015, 2015, 152-165.	2.4	9
87	Facile and rapid access to linear and truncated microcystin analogues for the implementation of immunoassays. Organic and Biomolecular Chemistry, 2010, 8, 676-690.	2.8	8
88	Quest for novel fluorogenic xanthene dyes: Synthesis, spectral properties and stability of 3-imino-3H-xanthen-6-amine (pyronin) and its silicon analog. Tetrahedron Letters, 2018, 59, 4574-4581.	1.4	8
89	Reinvestigation of the synthesis of "covalent-assembly―type probes for fluoride ion detection. Identification of novel 7-(diethylamino)coumarins with aggregation-induced emission properties. Tetrahedron Letters, 2019, 60, 151279.	1.4	8
90	Straightforward synthesis of bioconjugatable azo dyes. Part 1: Black Hole Quencher-1 (BHQ-1) scaffold. Tetrahedron Letters, 2014, 55, 6759-6763.	1.4	7

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91	Fluorogenic Enzyme-Triggered Domino Reactions Producing Quinoxalin-2(1H)-one-based Heterocycles. Organic Letters, 2020, 22, 6494-6499.	4.6	7
92	Reappraising Schmidpeter's bis(iminophosphoranyl)phosphides: coordination to transition metals and bonding analysis. Chemical Science, 2021, 12, 253-269.	7.4	7
93	Divergent synthesis of 5′,7′-difluorinated dihydroxanthene-hemicyanine fused near-infrared fluorophores. Organic and Biomolecular Chemistry, 2019, 17, 4291-4300.	2.8	6
94	Using Native Chemical Ligation for Siteâ€Specific Synthesis of Heteroâ€bisâ€lanthanide Peptide Conjugates: Application to Ratiometric Visible or Nearâ€Infrared Detection of Zn 2+. Chemistry - A European Journal, 2020, 26, 13476-13483.	3.3	6
95	Biochemical Characterization of a Caspase-3 Far-red Fluorescent Probe for Non-invasive Optical Imaging of Neuronal Apoptosis. Journal of Molecular Neuroscience, 2014, 54, 451-462.	2.3	5
96	Synthesis and photophysical properties of iron-carbonyl complex–coumarin conjugates as potential bimodal IR–fluorescent probes. Tetrahedron Letters, 2016, 57, 4991-4996.	1.4	5
97	A bacteriochlorin-diketopyrrolopyrrole triad as a donor for solution-processed bulk heterojunction organic solar cells. Journal of Materials Chemistry C, 2019, 7, 9655-9664.	5. 5	5
98	Real-time molecular optical micro-imaging of EGFR mutations using a fluorescent erlotinib based tracer. BMC Pulmonary Medicine, 2019, 19, 3.	2.0	5
99	N-Alkylation of 2-methoxy-10H-phenothiazine revisited. A facile entry to diversely N-substituted phenothiazine-coumarin hybrid dyes. Tetrahedron Letters, 2020, 61, 152582.	1.4	5
100	A novel water-soluble BODIPY dye as red fluorescent probe for imaging hypoxic status of human cancer cells. Mendeleev Communications, 2020, 30, 750-752.	1.6	5
101	In Situ Synthesis of Phenoxazine Dyes in Water: Application for "Turnâ€On" Fluorogenic and Chromogenic Detection of Nitric Oxide. ChemPhotoChem, 0, , .	3.0	5
102	Regioselective C–H amination of free base porphyrins <i>via</i> pyridinium-porphyrins and stabilization of easily oxidized amino-porphyrins by protonation. Chemical Communications, 2020, 56, 884-887.	4.1	4
103	Design, synthesis and evaluation of enzyme-responsive fluorogenic probes based on pyridine-flanked diketopyrrolopyrrole dyes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119179.	3.9	4
104	Corrigendum to "Synthesis and post-synthetic derivatization of a cyanine-based amino acid. Application to the preparation of a novel water-soluble NIR dye― Tetrahedron Letters, 2007, 48, 501.	1.4	3
105	Rationalisation of the optical signatures of <i>nor</i> -dihydroxanthene-hemicyanine fused near-infrared fluorophores by first-principle tools. Physical Chemistry Chemical Physics, 2018, 20, 12120-12128.	2.8	3
106	Synthesis and spectral properties of $6\hat{a}\in^2$ -triazolyl-dihydroxanthene-hemicyanine fused near-infrared dyes. New Journal of Chemistry, 2020, 44, 12208-12215.	2.8	3
107	Synthetic routes to novel fluorogenic pyronins and silicon analogs with far-red spectral properties and enhanced aqueous stability. Dyes and Pigments, 2020, 180, 108496.	3.7	3
108	Synthesis and Characterization of Oligodeoxynucleotides Containing 5′,8-Cyclopurine-2′-Deoxyribonucleosides. Nucleosides & Nucleotides, 1999, 18, 1331-1333.	0.5	2

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109	Coumarinâ€Pyronin Hybrid Dyes: Synthesis, Fluorescence Properties and Theoretical Calculations**. ChemPhotoChem, 2021, 5, 822-838.	3.0	2
110	Thiocarbamate-Linked Polysulfonate–Peptide Conjugates As Selective Hepatocyte Growth Factor Receptor Binders. Bioconjugate Chemistry, 2014, 25, 1000-1010.	3.6	1