Adam Charles Sedgwick

List of Publications by Year
in descending order

87 papers	7,419 citations	101543 36 h-index	54911 84 g-index
95 all docs	95 docs citations	95 times ranked	6481 citing authors

#	Article	IF	Citations
1	Fluorescent chemosensors: the past, present and future. Chemical Society Reviews, 2017, 46, 7105-7123.	38.1	1,436
2	Excited-state intramolecular proton-transfer (ESIPT) based fluorescence sensors and imaging agents. Chemical Society Reviews, 2018, 47, 8842-8880.	38.1	993
3	FÃ¶rster resonance energy transfer (FRET)-based small-molecule sensors and imaging agents. Chemical Society Reviews, 2020, 49, 5110-5139.	38.1	516
4	Molecular logic gates: the past, present and future. Chemical Society Reviews, 2018, 47, 2228-2248.	38.1	468
5	Reaction-Based Fluorescent Probes for the Detection and Imaging of Reactive Oxygen, Nitrogen, and Sulfur Species. Accounts of Chemical Research, 2019, 52, 2582-2597.	15.6	442
6	Small-molecule fluorescence-based probes for interrogating major organ diseases. Chemical Society Reviews, 2021, 50, 9391-9429.	38.1	176
7	An ESIPT Probe for the Ratiometric Imaging of Peroxynitrite Facilitated by Binding to Aβ2-Aggregates. Journal of the American Chemical Society, 2018, 140, 14267-14271.	13.7	155
8	Indicator displacement assays (IDAs): the past, present and future. Chemical Society Reviews, 2021, 50, 9-38.	38.1	139
9	The development of a novel AND logic based fluorescence probe for the detection of peroxynitrite and GSH. Chemical Science, 2018, 9, 3672-3676.	7.4	136
10	Supramolecular fluorescent sensors: An historical overview and update. Coordination Chemistry Reviews, 2021, 427, 213560.	18.8	135
11	Fluorescent probes for the imaging of lipid droplets in live cells. Coordination Chemistry Reviews, 2021, 427, 213577.	18.8	123
12	Photochromic Fluorescent Probe Strategy for the Super-resolution Imaging of Biologically Important Biomarkers. Journal of the American Chemical Society, 2020, 142, 18005-18013.	13.7	118
13	Transition metal chelators, pro-chelators, and ionophores as small molecule cancer chemotherapeutic agents. Chemical Society Reviews, 2020, 49, 3726-3747.	38.1	115
14	Long-wavelength fluorescent boronate probes for the detection and intracellular imaging of peroxynitrite. Chemical Communications, 2017, 53, 12822-12825.	4.1	112
15	Fluorescent probes for the detection of disease-associated biomarkers. Science Bulletin, 2022, 67, 853-878.	9.0	110
16	Boronate based fluorescence (ESIPT) probe for peroxynitrite. Chemical Communications, 2016, 52, 12350-12352.	4.1	108
17	Metal-based anticancer agents as immunogenic cell death inducers: the past, present, and future. Chemical Society Reviews, 2022, 51, 1212-1233.	38.1	107
18	ESIPT-based fluorescence probe for the rapid detection of hypochlorite (HOCl/ClO^{â^'}). Chemical Communications, 2018, 54, 8522-8525.	4.1	101

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19	Development of NIR-II Photoacoustic Probes Tailored for Deep-Tissue Sensing of Nitric Oxide. Journal of the American Chemical Society, 2021, 143, 7196-7202.	13.7	97
20	ESIPT-based ratiometric fluorescence probe for the intracellular imaging of peroxynitrite. Chemical Communications, 2018, 54, 9953-9956.	4.1	96
21	Dual-Channel Fluorescent Probe for the Simultaneous Monitoring of Peroxynitrite and Adenosine-5â€²-triphosphate in Cellular Applications. Journal of the American Chemical Society, 2022, 144, 174-183.	13.7	89
22	Sensors, Imaging Agents, and Theranostics to Help Understand and Treat Reactive Oxygen Species Related Diseases. Small Methods, 2019, 3, 1900013.	8.6	72
23	Long-wavelength TCF-based fluorescence probes for the detection and intracellular imaging of biological thiols. Chemical Communications, 2018, 54, 4786-4789.	4.1	68
24	Azuleneâ€“boronate esters: colorimetric indicators for fluoride in drinking water. Chemical Communications, 2017, 53, 12580-12583.	4.1	65
25	ESIPT-based fluorescence probe for the rapid detection of peroxynitrite â€˜ANDâ€™ biological thiols. Chemical Communications, 2018, 54, 11336-11339.	4.1	64
26	Metal-based imaging agents: progress towards interrogating neurodegenerative disease. Chemical Society Reviews, 2020, 49, 2886-2915.	38.1	56
27	Diketopyrrolopyrrole-based fluorescence probes for the imaging of lysosomal Zn²⁺ and identification of prostate cancer in human tissue. Chemical Science, 2019, 10, 5699-5704.	7.4	54
28	Bioâ€Conjugated Advanced Materials for Targeted Disease Theranostics. Advanced Functional Materials, 2020, 30, 1907906.	14.9	51
29	Protein encapsulation: a new approach for improving the capability of small-molecule fluorogenic probes. Chemical Science, 2020, 11, 1107-1113.	7.4	49
30	â€˜ANDâ€™-based fluorescence scaffold for the detection of ROS/RNS and a second analyte. Chemical Communications, 2018, 54, 8466-8469.	4.1	47
31	Deferasirox (ExJade): An FDA-Approved AIEgen Platform with Unique Photophysical Properties. Journal of the American Chemical Society, 2021, 143, 1278-1283.	13.7	46
32	2D-ultrathin MXene/DOXjade platform for iron chelation chemo-photothermal therapy. Bioactive Materials, 2022, 14, 76-85.	15.6	42
33	Rational design of an â€œall-in-oneâ€•phototheranostic. Chemical Science, 2020, 11, 8204-8213.	7.4	41
34	A fluorescent ESIPT-based benzimidazole platform for the ratiometric two-photon imaging of ONOO^{â^’}in vitro and ex vivo. Chemical Science, 2020, 11, 7329-7334.	7.4	39
35	Dual-function cellulose composites for fluorescence detection and removal of fluoride. Dyes and Pigments, 2018, 149, 669-675.	3.7	37
36	Manganese(II) Texaphyrin: A Paramagnetic Photoacoustic Contrast Agent Activated by Near-IR Light. Journal of the American Chemical Society, 2020, 142, 16156-16160.	13.7	37

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37	Cyclodextrin-Based Peptide Self-Assemblies (Spds) That Enhance Peptide-Based Fluorescence Imaging and Antimicrobial Efficacy. Journal of the American Chemical Society, 2020, 142, 1925-1932.	13.7	36
38	Low-dimensional nanomaterials for antibacterial applications. Journal of Materials Chemistry B, 2021, 9, 3640-3661.	5.8	36
39	Tri-Manganese(III) Salen-Based Cryptands: A Metal Cooperative Antioxidant Strategy that Overcomes Ischemic Stroke Damage In Vivo. Journal of the American Chemical Society, 2020, 142, 10219-10227.	13.7	35
40	Expanded porphyrins: functional photoacoustic imaging agents that operate in the NIR-II region. Chemical Science, 2021, 12, 9916-9921.	7.4	34
41	A bodipy based hydroxylamine sensor. Chemical Communications, 2017, 53, 10441-10443.	4.1	32
42	Organic/inorganic supramolecular nano-systems based on host/guest interactions. Coordination Chemistry Reviews, 2021, 428, 213609.	18.8	31
43	Boronateâ€Based Fluorescence Probes for the Detection of Hydrogen Peroxide. ChemistryOpen, 2018, 7, 262-265.	1.9	30
44	Long Wavelength TCF-Based Fluorescent Probe for the Detection of Alkaline Phosphatase in Live Cells. Frontiers in Chemistry, 2019, 7, 255.	3.6	30
45	ESIPT-based fluorescence probe for the ratiometric detection of superoxide. New Journal of Chemistry, 2019, 43, 2875-2877.	2.8	29
46	A boronic acid-based fluorescent hydrogel for monosaccharide detection. Frontiers of Chemical Science and Engineering, 2020, 14, 112-116.	4.4	27
47	Pinkment: a synthetic platform for the development of fluorescent probes for diagnostic and theranostic applications. Chemical Science, 2020, 11, 8567-8571.	7.4	26
48	Reaction-based indicator displacement assay (RIA) for the colorimetric and fluorometric detection of hydrogen peroxide. Organic Chemistry Frontiers, 2017, 4, 1058-1062.	4.5	25
49	Simple Aza-Conjugate Addition Methodology for the Synthesis of Isoindole Nitrones and 3,4-Dihydroisoquinoline Nitrones. Organic Letters, 2015, 17, 994-997.	4.6	24
50	A homogeneous high-throughput array for the detection and discrimination of influenza A viruses. CheM, 2022, 8, 1750-1761.	11.7	24
51	Turn on chemiluminescence-based probes for monitoring tyrosinase activity in conjunction with biological thiols. Chemical Communications, 2021, 57, 11386-11389.	4.1	23
52	Protein Encapsulation: A Nanocarrier Approach to the Fluorescence Imaging of an Enzyme-Based Biomarker. Frontiers in Chemistry, 2020, 8, 389.	3.6	22
53	Tuning the Solid- and Solution-State Fluorescence of the Iron-Chelator Deferasirox. Journal of the American Chemical Society, 2022, 144, 7382-7390.	13.7	22
54	A simple, azulene-based colorimetric probe for the detection of nitrite in water. Frontiers of Chemical Science and Engineering, 2020, 14, 90-96.	4.4	21

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55	A glycoconjugate-based gold nanoparticle approach for the targeted treatment of Pseudomonas aeruginosa biofilms. Nanoscale, 2020, 12, 23234-23240.	5.6	21
56	Selective electrochemiluminescent sensing of saccharides using boronic acid-modified coreactant. Chemical Communications, 2016, 52, 12845-12848.	4.1	20
57	Boronate ester cross-linked PVA hydrogels for the capture and H₂O₂-mediated release of active fluorophores. Chemical Communications, 2020, 56, 5516-5519.	4.1	19
58	UO₂²⁺-mediated ring contraction of pyrihexaphyrin: synthesis of a contracted expanded porphyrin-uranyl complex. Chemical Science, 2019, 10, 5596-5602.	7.4	17
59	Antimicrobial innovation: a current update and perspective on the antibiotic drug development pipeline. Future Medicinal Chemistry, 2020, 12, 2035-2065.	2.3	17
60	Enhanced Colorimetric Differentiation between Staphylococcus aureus and Pseudomonas aeruginosa Using a Shape-Encoded Sensor Hydrogel. ACS Applied Bio Materials, 2020, 3, 4398-4407.	4.6	17
61	Graphene nanoribbon-based supramolecular ensembles with dual-receptor targeting function for targeted photothermal tumor therapy. Chemical Science, 2021, 12, 11089-11097.	7.4	16
62	Dual enzyme activated fluorescein based fluorescent probe. Frontiers of Chemical Science and Engineering, 2020, 14, 117-121.	4.4	15
63	Fluorescent Chemosensors for Ion and Molecule Recognition: The Next Chapter. Frontiers in Sensors, 2021, 2, .	3.3	15
64	A Simple Nearâ€Infrared Fluorescent Probe for the Detection of Peroxynitrite. ChemistryOpen, 2019, 8, 1407-1409.	1.9	14
65	Coumarin-based fluorescent probe for the rapid detection of peroxynitrite â€˜ANDâ€™ biological thiols. RSC Advances, 2020, 10, 13496-13499.	3.6	14
66	TCF-ALP: a fluorescent probe for the selective detection of Staphylococcus bacteria and application in â€œsmartâ€•wound dressings. Biomaterials Science, 2021, 9, 4433-4439.	5.4	14
67	Background-suppressed tumor-targeted photoacoustic imaging using bacterial carriers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
68	A simple umbelliferone based fluorescent probe for the detection of nitroreductase. Frontiers of Chemical Science and Engineering, 2018, 12, 311-314.	4.4	13
69	The Evaluation of Ester Functionalised TCFâ€Based Fluorescent Probes for the Detection of Bacterial Species. Israel Journal of Chemistry, 2021, 61, 234-238.	2.3	13
70	Limiting Pseudomonas aeruginosa Biofilm Formation Using Cold Atmospheric Pressure Plasma. Plasma Medicine, 2018, 8, 269-277.	0.6	12
71	Reaction-based indicator displacement assay (RIA) for the development of a triggered release system capable of biofilm inhibition. Chemical Communications, 2019, 55, 15129-15132.	4.1	12
72	Toward multifunctional anticancer therapeutics: post-synthetic carbonate functionalisation of asymmetric Au(i) bis-N-heterocyclic carbenes. Chemical Communications, 2020, 56, 7877-7880.	4.1	12

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73	Peroxynitrite Activated Drug Conjugate Systems Based on a Coumarin Scaffold Toward the Application of Theranostics. Frontiers in Chemistry, 2019, 7, 775.	3.6	11
74	Orthogonally Protected SchÃ¶llkopfâ€™s Bis-lactim Ethers for the Asymmetric Synthesis of Î±-Amino Acid Derivatives and Dipeptide Esters. Synthesis, 2016, 48, 2036-2049.	2.3	9
75	Dye Displacement Assay for Saccharides using Benzoxaborole Hydrogels. ChemistryOpen, 2018, 7, 266-268.	1.9	9
76	Coumarin-based fluorescent â€˜ANDâ€™ logic gate probes for the detection of homocysteine and a chosen biological analyte. RSC Advances, 2019, 9, 26425-26428.	3.6	9
77	In vitro studies of deferasirox derivatives as potential organelle-targeting traceable anti-cancer therapeutics. Chemical Communications, 2021, 57, 5678-5681.	4.1	9
78	Multiphoton fluorescence lifetime imaging microscopy (FLIM) and super-resolution fluorescence imaging with a supramolecular biopolymer for the controlled tagging of polysaccharides. Nanoscale, 2019, 11, 9498-9507.	5.6	8
79	Covalent and non-covalent albumin binding of Au(<scp>i</scp>) bis-NHCsviapost-synthetic amide modification. Chemical Science, 2021, 12, 7547-7553.	7.4	8
80	Delivery and quantification of hydrogen peroxide generated via cold atmospheric pressure plasma through biological material. Journal Physics D: Applied Physics, 2019, 52, 505203.	2.8	7
81	Synthesis and Characterization of a Binuclear Copper(II)-dipyriamethyrin Complex: [Cu2(dipyriamethyrin)(Î¼2-1,1-acetato)2]. Molecules, 2020, 25, 1446.	3.8	5
82	Virtual Issue: Chemosensors. ChemistryOpen, 2018, 7, 215-216.	1.9	2
83	Voltammetric characterisation of diferrocenylborinic acid in organic solution and in aqueous media when immobilised into a titanate nanosheet film. Dalton Transactions, 2019, 48, 11200-11207.	3.3	2
84	Special issue on â€œFluorescent probesâ€. Frontiers of Chemical Science and Engineering, 2020, 14, 1-3.	4.4	2
85	A Deferasirox Derivative That Acts as a Multifaceted Platform for the Detection and Quantification of Fe3+. Chemosensors, 2021, 9, 68.	3.6	1
86	Convenient decagram scale preparation of ethyl 3,4-diethylpyrrole-2-carboxylate, a versatile precursor for pyrrole-based macrocycles and chromophores. Results in Chemistry, 2020, 2, 100075.	2.0	0
87	Solving world problems with pyrrole: 65th birthday tribute to Prof. Jonathan L. Sessler. CheM, 2022, 8, 587-598.	11.7	0