

Adam Charles Sedgwick

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

7,419
citations

101543

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54911

84
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95
all docs

95
docs citations

95
times ranked

6481
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-based anticancer agents as immunogenic cell death inducers: the past, present, and future. <i>Chemical Society Reviews</i> , 2022, 51, 1212-1233.	38.1	107
2	Fluorescent probes for the detection of disease-associated biomarkers. <i>Science Bulletin</i> , 2022, 67, 853-878.	9.0	110
3	Background-suppressed tumor-targeted photoacoustic imaging using bacterial carriers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	14
4	Solving world problems with pyrrole: 65th birthday tribute to Prof. Jonathan L. Sessler. <i>CheM</i> , 2022, 8, 587-598.	11.7	0
5	A homogeneous high-throughput array for the detection and discrimination of influenza A viruses. <i>CheM</i> , 2022, 8, 1750-1761.	11.7	24
6	2D-ultrathin MXene/DOXjade platform for iron chelation chemo-photothermal therapy. <i>Bioactive Materials</i> , 2022, 14, 76-85.	15.6	42
7	Dual-Channel Fluorescent Probe for the Simultaneous Monitoring of Peroxynitrite and Adenosine-5â€²-triphosphate in Cellular Applications. <i>Journal of the American Chemical Society</i> , 2022, 144, 174-183.	13.7	89
8	Tuning the Solid- and Solution-State Fluorescence of the Iron-Chelator Deferasirox. <i>Journal of the American Chemical Society</i> , 2022, 144, 7382-7390.	13.7	22
9	Indicator displacement assays (IDAs): the past, present and future. <i>Chemical Society Reviews</i> , 2021, 50, 9-38.	38.1	139
10	Fluorescent probes for the imaging of lipid droplets in live cells. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213577.	18.8	123
11	Organic/inorganic supramolecular nano-systems based on host/guest interactions. <i>Coordination Chemistry Reviews</i> , 2021, 428, 213609.	18.8	31
12	Supramolecular fluorescent sensors: An historical overview and update. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213560.	18.8	135
13	TCF-ALP: a fluorescent probe for the selective detection of Staphylococcus bacteria and application in smart wound dressings. <i>Biomaterials Science</i> , 2021, 9, 4433-4439.	5.4	14
14	Graphene nanoribbon-based supramolecular ensembles with dual-receptor targeting function for targeted photothermal tumor therapy. <i>Chemical Science</i> , 2021, 12, 11089-11097.	7.4	16
15	Expanded porphyrins: functional photoacoustic imaging agents that operate in the NIR-II region. <i>Chemical Science</i> , 2021, 12, 9916-9921.	7.4	34
16	Deferasirox (ExJade): An FDA-Approved AIEgen Platform with Unique Photophysical Properties. <i>Journal of the American Chemical Society</i> , 2021, 143, 1278-1283.	13.7	46
17	<i>In vitro</i> studies of deferasirox derivatives as potential organelle-targeting traceable anti-cancer therapeutics. <i>Chemical Communications</i> , 2021, 57, 5678-5681.	4.1	9
18	The Evaluation of Ester Functionalised TCF-Based Fluorescent Probes for the Detection of Bacterial Species. <i>Israel Journal of Chemistry</i> , 2021, 61, 234-238.	2.3	13

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19	A Deferasirox Derivative That Acts as a Multifaceted Platform for the Detection and Quantification of Fe ³⁺ . <i>Chemosensors</i> , 2021, 9, 68.	3.6	1
20	Development of NIR-II Photoacoustic Probes Tailored for Deep-Tissue Sensing of Nitric Oxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 7196-7202.	13.7	97
21	Fluorescent Chemosensors for Ion and Molecule Recognition: The Next Chapter. <i>Frontiers in Sensors</i> , 2021, 2, .	3.3	15
22	Low-dimensional nanomaterials for antibacterial applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3640-3661.	5.8	36
23	Small-molecule fluorescence-based probes for interrogating major organ diseases. <i>Chemical Society Reviews</i> , 2021, 50, 9391-9429.	38.1	176
24	Covalent and non-covalent albumin binding of Au(<i>scp</i>) bis-NHCs via post-synthetic amide modification. <i>Chemical Science</i> , 2021, 12, 7547-7553.	7.4	8
25	Turn on chemiluminescence-based probes for monitoring tyrosinase activity in conjunction with biological thiols. <i>Chemical Communications</i> , 2021, 57, 11386-11389.	4.1	23
26	A boronic acid-based fluorescent hydrogel for monosaccharide detection. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 112-116.	4.4	27
27	Dual enzyme activated fluorescein based fluorescent probe. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 117-121.	4.4	15
28	A simple, azulene-based colorimetric probe for the detection of nitrite in water. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 90-96.	4.4	21
29	Protein encapsulation: a new approach for improving the capability of small-molecule fluorogenic probes. <i>Chemical Science</i> , 2020, 11, 1107-1113.	7.4	49
30	Cyclodextrin-Based Peptide Self-Assemblies (Spds) That Enhance Peptide-Based Fluorescence Imaging and Antimicrobial Efficacy. <i>Journal of the American Chemical Society</i> , 2020, 142, 1925-1932.	13.7	36
31	Rational design of an "all-in-one" phototheranostic. <i>Chemical Science</i> , 2020, 11, 8204-8213.	7.4	41
32	Förster resonance energy transfer (FRET)-based small-molecule sensors and imaging agents. <i>Chemical Society Reviews</i> , 2020, 49, 5110-5139.	38.1	516
33	A glycoconjugate-based gold nanoparticle approach for the targeted treatment of <i>Pseudomonas aeruginosa</i> biofilms. <i>Nanoscale</i> , 2020, 12, 23234-23240.	5.6	21
34	Antimicrobial innovation: a current update and perspective on the antibiotic drug development pipeline. <i>Future Medicinal Chemistry</i> , 2020, 12, 2035-2065.	2.3	17
35	Pinkment: a synthetic platform for the development of fluorescent probes for diagnostic and theranostic applications. <i>Chemical Science</i> , 2020, 11, 8567-8571.	7.4	26
36	Photochromic Fluorescent Probe Strategy for the Super-resolution Imaging of Biologically Important Biomarkers. <i>Journal of the American Chemical Society</i> , 2020, 142, 18005-18013.	13.7	118

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37	Manganese(II) Texaphyrin: A Paramagnetic Photoacoustic Contrast Agent Activated by Near-IR Light. <i>Journal of the American Chemical Society</i> , 2020, 142, 16156-16160.	13.7	37
38	Convenient decagram scale preparation of ethyl 3,4-diethylpyrrole-2-carboxylate, a versatile precursor for pyrrole-based macrocycles and chromophores. <i>Results in Chemistry</i> , 2020, 2, 100075.	2.0	0
39	Tri-Manganese(III) Salen-Based Cryptands: A Metal Cooperative Antioxidant Strategy that Overcomes Ischemic Stroke Damage <i>In Vivo</i> . <i>Journal of the American Chemical Society</i> , 2020, 142, 10219-10227.	13.7	35
40	Coumarin-based fluorescent probe for the rapid detection of peroxynitrite AND™ biological thiols. <i>RSC Advances</i> , 2020, 10, 13496-13499.	3.6	14
41	Transition metal chelators, pro-chelators, and ionophores as small molecule cancer chemotherapeutic agents. <i>Chemical Society Reviews</i> , 2020, 49, 3726-3747.	38.1	115
42	A fluorescent ESIPT-based benzimidazole platform for the ratiometric two-photon imaging of ONOO [•] <i>in vitro</i> and <i>ex vivo</i> . <i>Chemical Science</i> , 2020, 11, 7329-7334.	7.4	39
43	Protein Encapsulation: A Nanocarrier Approach to the Fluorescence Imaging of an Enzyme-Based Biomarker. <i>Frontiers in Chemistry</i> , 2020, 8, 389.	3.6	22
44	Toward multifunctional anticancer therapeutics: post-synthetic carbonate functionalisation of asymmetric Au(i) bis-N-heterocyclic carbenes. <i>Chemical Communications</i> , 2020, 56, 7877-7880.	4.1	12
45	Enhanced Colorimetric Differentiation between <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> Using a Shape-Encoded Sensor Hydrogel. <i>ACS Applied Bio Materials</i> , 2020, 3, 4398-4407.	4.6	17
46	Metal-based imaging agents: progress towards interrogating neurodegenerative disease. <i>Chemical Society Reviews</i> , 2020, 49, 2886-2915.	38.1	56
47	Special issue on "Fluorescent probes". <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 1-3.	4.4	2
48	Boronate ester cross-linked PVA hydrogels for the capture and H ₂ O ₂ -mediated release of active fluorophores. <i>Chemical Communications</i> , 2020, 56, 5516-5519.	4.1	19
49	Synthesis and Characterization of a Binuclear Copper(II)-dipyrimethyrin Complex: [Cu ₂ (dipyrimethyrin)(1/2-1,1-acetato) ₂]. <i>Molecules</i> , 2020, 25, 1446.	3.8	5
50	Bio-Conjugated Advanced Materials for Targeted Disease Theranostics. <i>Advanced Functional Materials</i> , 2020, 30, 1907906.	14.9	51
51	Delivery and quantification of hydrogen peroxide generated via cold atmospheric pressure plasma through biological material. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 505203.	2.8	7
52	Reaction-Based Fluorescent Probes for the Detection and Imaging of Reactive Oxygen, Nitrogen, and Sulfur Species. <i>Accounts of Chemical Research</i> , 2019, 52, 2582-2597.	15.6	442
53	Coumarin-based fluorescent AND™ logic gate probes for the detection of homocysteine and a chosen biological analyte. <i>RSC Advances</i> , 2019, 9, 26425-26428.	3.6	9
54	ESIPT-based fluorescence probe for the ratiometric detection of superoxide. <i>New Journal of Chemistry</i> , 2019, 43, 2875-2877.	2.8	29

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55	Voltammetric characterisation of diferrocenylboronic acid in organic solution and in aqueous media when immobilised into a titanate nanosheet film. <i>Dalton Transactions</i> , 2019, 48, 11200-11207.	3.3	2
56	Diketopyrrolopyrrole-based fluorescence probes for the imaging of lysosomal Zn ²⁺ and identification of prostate cancer in human tissue. <i>Chemical Science</i> , 2019, 10, 5699-5704.	7.4	54
57	UO ₂ ²⁺ -mediated ring contraction of pyrihexaphyrin: synthesis of a contracted expanded porphyrin-uranyl complex. <i>Chemical Science</i> , 2019, 10, 5596-5602.	7.4	17
58	Long Wavelength TCF-Based Fluorescent Probe for the Detection of Alkaline Phosphatase in Live Cells. <i>Frontiers in Chemistry</i> , 2019, 7, 255.	3.6	30
59	Sensors, Imaging Agents, and Theranostics to Help Understand and Treat Reactive Oxygen Species Related Diseases. <i>Small Methods</i> , 2019, 3, 1900013.	8.6	72
60	Multiphoton fluorescence lifetime imaging microscopy (FLIM) and super-resolution fluorescence imaging with a supramolecular biopolymer for the controlled tagging of polysaccharides. <i>Nanoscale</i> , 2019, 11, 9498-9507.	5.6	8
61	Peroxynitrite Activated Drug Conjugate Systems Based on a Coumarin Scaffold Toward the Application of Theranostics. <i>Frontiers in Chemistry</i> , 2019, 7, 775.	3.6	11
62	A Simple Near-Infrared Fluorescent Probe for the Detection of Peroxynitrite. <i>ChemistryOpen</i> , 2019, 8, 1407-1409.	1.9	14
63	Reaction-based indicator displacement assay (RIA) for the development of a triggered release system capable of biofilm inhibition. <i>Chemical Communications</i> , 2019, 55, 15129-15132.	4.1	12
64	Molecular logic gates: the past, present and future. <i>Chemical Society Reviews</i> , 2018, 47, 2228-2248.	38.1	468
65	Dye Displacement Assay for Saccharides using Benzoxaborole Hydrogels. <i>ChemistryOpen</i> , 2018, 7, 266-268.	1.9	9
66	Long-wavelength TCF-based fluorescence probes for the detection and intracellular imaging of biological thiols. <i>Chemical Communications</i> , 2018, 54, 4786-4789.	4.1	68
67	Boronate-Based Fluorescence Probes for the Detection of Hydrogen Peroxide. <i>ChemistryOpen</i> , 2018, 7, 262-265.	1.9	30
68	A simple umbelliferone based fluorescent probe for the detection of nitroreductase. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 311-314.	4.4	13
69	The development of a novel AND logic based fluorescence probe for the detection of peroxynitrite and GSH. <i>Chemical Science</i> , 2018, 9, 3672-3676.	7.4	136
70	Virtual Issue: Chemosensors. <i>ChemistryOpen</i> , 2018, 7, 215-216.	1.9	2
71	Dual-function cellulose composites for fluorescence detection and removal of fluoride. <i>Dyes and Pigments</i> , 2018, 149, 669-675.	3.7	37
72	Excited-state intramolecular proton-transfer (ESIPT) based fluorescence sensors and imaging agents. <i>Chemical Society Reviews</i> , 2018, 47, 8842-8880.	38.1	993

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73	Limiting <i>Pseudomonas aeruginosa</i> Biofilm Formation Using Cold Atmospheric Pressure Plasma. <i>Plasma Medicine</i> , 2018, 8, 269-277.	0.6	12
74	An ESIPT Probe for the Ratiometric Imaging of Peroxynitrite Facilitated by Binding to A β -Aggregates. <i>Journal of the American Chemical Society</i> , 2018, 140, 14267-14271.	13.7	155
75	ESIPT-based fluorescence probe for the rapid detection of peroxynitrite AND™ biological thiols. <i>Chemical Communications</i> , 2018, 54, 11336-11339.	4.1	64
76	AND™-based fluorescence scaffold for the detection of ROS/RNS and a second analyte. <i>Chemical Communications</i> , 2018, 54, 8466-8469.	4.1	47
77	ESIPT-based fluorescence probe for the rapid detection of hypochlorite (HOCl/CLO ^{•-}). <i>Chemical Communications</i> , 2018, 54, 8522-8525.	4.1	101
78	ESIPT-based ratiometric fluorescence probe for the intracellular imaging of peroxynitrite. <i>Chemical Communications</i> , 2018, 54, 9953-9956.	4.1	96
79	Reaction-based indicator displacement assay (RIA) for the colorimetric and fluorometric detection of hydrogen peroxide. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1058-1062.	4.5	25
80	Fluorescent chemosensors: the past, present and future. <i>Chemical Society Reviews</i> , 2017, 46, 7105-7123.	38.1	1,436
81	A bodipy based hydroxylamine sensor. <i>Chemical Communications</i> , 2017, 53, 10441-10443.	4.1	32
82	Azulene boronate esters: colorimetric indicators for fluoride in drinking water. <i>Chemical Communications</i> , 2017, 53, 12580-12583.	4.1	65
83	Long-wavelength fluorescent boronate probes for the detection and intracellular imaging of peroxynitrite. <i>Chemical Communications</i> , 2017, 53, 12822-12825.	4.1	112
84	Orthogonally Protected Sch β llkopf's Bis-lactim Ethers for the Asymmetric Synthesis of β -Amino Acid Derivatives and Dipeptide Esters. <i>Synthesis</i> , 2016, 48, 2036-2049.	2.3	9
85	Selective electrochemiluminescent sensing of saccharides using boronic acid-modified coreactant. <i>Chemical Communications</i> , 2016, 52, 12845-12848.	4.1	20
86	Boronate based fluorescence (ESIPT) probe for peroxynitrite. <i>Chemical Communications</i> , 2016, 52, 12350-12352.	4.1	108
87	Simple Aza-Conjugate Addition Methodology for the Synthesis of Isoindole Nitrones and 3,4-Dihydroisoquinoline Nitrones. <i>Organic Letters</i> , 2015, 17, 994-997.	4.6	24