

Ya-Lin Tang

List of Publications by Year in descending order

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108
papers

2,264
citations

236925

25
h-index

265206

42
g-index

110
all docs

110
docs citations

110
times ranked

2342
citing authors

#	ARTICLE	IF	CITATIONS
1	G4LDB: a database for discovering and studying G-quadruplex ligands. <i>Nucleic Acids Research</i> , 2013, 41, D1115-D1123.	14.5	137
2	Thioflavin T as an efficient fluorescence sensor for selective recognition of RNA G-quadruplexes. <i>Scientific Reports</i> , 2016, 6, 24793.	3.3	122
3	Real-time monitoring of DNA G-quadruplexes in living cells with a small-molecule fluorescent probe. <i>Nucleic Acids Research</i> , 2018, 46, 7522-7532.	14.5	117
4	Verification of specific G-quadruplex structure by using a novel cyanine dye supramolecular assembly: I. Recognizing mixed G-quadruplex in human telomeres. <i>Chemical Communications</i> , 2009, , 1103.	4.1	84
5	Verification of specific G-quadruplex structure by using a novel cyanine dye supramolecular assembly: II. The binding characterization with specific intramolecular G-quadruplex and the recognizing mechanism. <i>Nucleic Acids Research</i> , 2010, 38, 1022-1033.	14.5	74
6	Effects of NaCl on the J-aggregation of two thiocarbocyanine dyes in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 198-205.	9.4	67
7	A dual-site simultaneous binding mode in the interaction between parallel-stranded G-quadruplex [d(TGGGGT)] ₄ and cyanine dye 2,2'-diethyl-9-methyl-selenocarbocyanine bromide. <i>Nucleic Acids Research</i> , 2013, 41, 2709-2722.	14.5	66
8	Directly lighting up RNA G-quadruplexes from test tubes to living human cells. <i>Nucleic Acids Research</i> , 2015, 43, gkv1040.	14.5	60
9	Chiral Transformation of Achiral J-aggregates of a Cyanine Dye Templated by Human Serum Albumin. <i>ChemPhysChem</i> , 2007, 8, 224-226.	2.1	53
10	Thrombin Ultrasensitive Detection Based on Chiral Supramolecular Assembly Signal-Amplified Strategy Induced by Thrombin-Binding Aptamer. <i>Analytical Chemistry</i> , 2017, 89, 548-551.	6.5	51
11	Direct visualization of nucleolar G-quadruplexes in live cells by using a fluorescent light-up probe. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1101-1106.	2.4	47
12	A colorimetric lead (II) ions sensor based on selective recognition of G-quadruplexes by a clip-like cyanine dye. <i>Talanta</i> , 2015, 136, 210-214.	5.5	45
13	Screening Potential Antitumor Agents from Natural Plant Extracts by G-quadruplex Recognition and NMR Methods. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5590-5592.	13.8	44
14	G4LDB 2.2: a database for discovering and studying G-quadruplex and i-Motif ligands. <i>Nucleic Acids Research</i> , 2022, 50, D150-D160.	14.5	43
15	Verification of Intramolecular Hybrid/Parallel G-Quadruplex Structure under Physiological Conditions Using Novel Cyanine Dye H-Aggregates: Both in Solution and on Au Film. <i>Analytical Chemistry</i> , 2010, 82, 9135-9137.	6.5	42
16	Quantification of the Na ⁺ /K ⁺ ratio based on the different response of a newly identified G-quadruplex to Na ⁺ and K ⁺ . <i>Chemical Communications</i> , 2013, 49, 4510.	4.1	42
17	A colorimetric and fluorometric dual-modal supramolecular chemosensor and its application for HSA detection. <i>Analyst</i> , 2014, 139, 581-584.	3.5	41
18	Construction of DNA logic gates utilizing a H ⁺ /Ag ⁺ induced i-motif structure. <i>Chemical Communications</i> , 2014, 50, 15385-15388.	4.1	40

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19	Copper-catalyzed Domino Reaction Involving C-C Bond Cleavage To Construct Aryl Quinazolinones. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2682-2685.	2.4	39
20	Cycloisomerization of Pyridine-Substituted Propargylic Alcohols or Esters To Construct Indolizines and Indolizines. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2207-2213.	2.4	37
21	Copper-catalyzed Intramolecular C-C Bond Cleavage To Construct Substituted Quinazolinones. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4504-4509.	2.4	36
22	Spectroscopic investigation on the interaction of J-aggregate with human serum albumin. <i>Biophysical Chemistry</i> , 2007, 128, 197-203.	2.8	32
23	A benzindole substituted carbazole cyanine dye: a novel targeting fluorescent probe for parallel c-myc G-quadruplexes. <i>Analyst</i> , The, 2015, 140, 5772-5780.	3.5	32
24	Colorimetric detection of sodium ion in serum based on the G-quadruplex conformation related DNAzyme activity. <i>Analytica Chimica Acta</i> , 2016, 912, 133-138.	5.4	32
25	Novel fluorescent cationic benzothiazole dye that responds to G-quadruplex aptamer as a novel K ⁺ sensor. <i>Analyst</i> , The, 2017, 142, 3352-3355.	3.5	27
26	Visual detection of potassium by a cyanine dye supramolecular aggregate responsive to G-quadruplex motif transition. <i>Analyst</i> , The, 2012, 137, 5713.	3.5	26
27	i-Motif-modulated fluorescence detection of silver(I) with an ultrahigh specificity. <i>Analytica Chimica Acta</i> , 2015, 857, 79-84.	5.4	26
28	A supramolecular probe for colorimetric detection of Pb ²⁺ based on recognition of G-quadruplex. <i>RSC Advances</i> , 2015, 5, 1730-1734.	3.6	25
29	Controllable cy3-MTC-dye aggregates and its applications served as a chemosensor. <i>Dyes and Pigments</i> , 2015, 122, 382-388.	3.7	25
30	Monitoring autophagy in live cells with a fluorescent light-up probe for G-quadruplex structures. <i>Chemical Communications</i> , 2019, 55, 5060-5063.	4.1	25
31	A spectroscopic and molecular modeling study of sinomenine binding to transferrin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 1701-1704.	2.2	24
32	A newly identified G-quadruplex as a potential target regulating Bcl-2 expression. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3052-3057.	2.4	24
33	Novel DNA Catalysts Based on G-Quadruplex for Organic Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 13-20.	4.3	24
34	Controllable assembly and cycling conversion of various supramolecular aggregates of a cyanine dye. <i>Applied Physics Letters</i> , 2011, 98, 031103.	3.3	21
35	Targeting of parallel c-myc G-quadruplex by dimeric cyanine dye supramolecular assembly: dependence on the linker length. <i>Analyst</i> , The, 2015, 140, 1637-1646.	3.5	21
36	Chiral Transformation of Cyanine Dye Aggregates Induced by Small Peptides. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8783-8787.	2.6	20

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37	Fast screening and structural elucidation of G-quadruplex ligands from a mixture via G-quadruplex recognition and NMR methods. <i>Biochimie</i> , 2009, 91, 304-308.	2.6	19
38	Visual detection of mercury(Hg^{2+}) based on recognition of the G-quadruplex conformational transition by a cyanine dye supramolecule. <i>Analyst, The</i> , 2015, 140, 7170-7174.	3.5	19
39	Selective recognition of c-myc promoter G-quadruplex and down-regulation of oncogene c-myc transcription in human cancer cells by 3,8-disubstituted indolizinone. <i>RSC Advances</i> , 2017, 7, 51965-51969.	3.6	19
40	A light-up probe targeting for Bcl-2 2345 G-quadruplex DNA with carbazole TO. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 180-188.	3.9	19
41	A versatile DNA-supramolecule logic platform for multifunctional information processing. <i>NPG Asia Materials</i> , 2018, 10, 497-508.	7.9	19
42	Ultrasensitive and high specific detection of non-small-cell lung cancer cells in human serum and clinical pleural effusion by aptamer-based fluorescence spectroscopy. <i>Talanta</i> , 2018, 179, 501-506.	5.5	18
43	Formation of Human Telomeric G-quadruplex Structures Induced by the Quaternary Benzophenanthridine Alkaloids: Sanguinarine, Nitidine, and Chelerythrine. <i>Chinese Journal of Chemistry</i> , 2010, 28, 771-780.	4.9	17
44	Intelligent Sensors of Lead Based on a Reconfigurable DNA-Supramolecule Logic Platform. <i>Analytical Chemistry</i> , 2018, 90, 10585-10590.	6.5	17
45	Structural effects on the conformational transition of transferrin induced by binding of flavonoids with different numbers and positions of hydroxyl groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 127-134.	3.9	16
46	Distinct G-quadruplex structures of human telomeric DNA formed by the induction of sanguinarine and nitidine under salt-deficient condition. <i>FÄ-toterapÄ-ÄÇ</i> , 2010, 81, 1026-1032.	2.2	16
47	Serum Metabolomics of Burkitt Lymphoma Mouse Models. <i>PLoS ONE</i> , 2017, 12, e0170896.	2.5	16
48	Metal-free synthesis of quinazolinones without any additives in water. <i>RSC Advances</i> , 2016, 6, 43950-43953.	3.6	15
49	An organic molecular compound for <i>in situ</i> identification of mitochondrial G-quadruplexes in live cells. <i>Journal of Materials Chemistry B</i> , 2022, 10, 430-437.	5.8	15
50	Recognize three different human telomeric G-quadruplex conformations by quinacrine. <i>Analyst, The</i> , 2012, 137, 862.	3.5	14
51	A colorimetric temperature sensor of a cyanine dye supramolecule and its application in reversible switch. <i>Applied Physics Letters</i> , 2014, 105, 071914.	3.3	14
52	Metabonomics analysis of the urine of rats with Qi deficiency and blood stasis syndrome based on NMR techniques. <i>Science Bulletin</i> , 2007, 52, 3068-3073.	1.7	13
53	A novel signal-amplified strategy based on assembly reactivation for highly specific and sensitive detection of chair-like antiparallel G-quadruplex. <i>Analyst, The</i> , 2013, 138, 798-804.	3.5	13
54	A Novel Reconfigurable Logic Unit Based on the DNA-templated Potassium-Concentration-Dependent Supramolecular Assembly. <i>Chemistry - A European Journal</i> , 2018, 24, 4019-4025.	3.3	13

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55	Direct detection of potassium and lead (II) ions based on assembly-disassembly of a chiral cyanine dye /TBA complex. <i>Talanta</i> , 2019, 201, 490-495.	5.5	13
56	Spectroscopic and molecular modeling study of cyanine dye interacting with human serum transferrin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 469, 187-193.	4.7	12
57	Reversible regulation of the supramolecular chirality of a cyanine dye by using the G-quadruplex structure as a template. <i>Chemical Communications</i> , 2016, 52, 7302-7305.	4.1	12
58	Versatile and Homogeneous DNA Tetraplex Platform for Constructing Label-Free Logic Devices: From Design to Application. <i>Chemistry - A European Journal</i> , 2019, 25, 6996-7003.	3.3	12
59	Spectroscopic studies of the interaction between methylene blue and G-quadruplex. <i>Science Bulletin</i> , 2006, 51, 1687-1692.	1.7	11
60	Novel dual-functional regulation of a chair-like antiparallel G-quadruplex inducing assembly-disassembly of a cyanine dye. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5758.	2.8	11
61	A supramolecular probe of cyanine dye for Pb ²⁺ detection based on the recognition of a G-quadruplex from DNA duplexes. <i>Analytical Methods</i> , 2020, 12, 1182-1185.	2.7	11
62	Spectroscopic Investigation on the Binding of a Cyanine Dye with Transferrin. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 127-133.	1.9	10
63	Insulin-like growth factor type I selectively binds to G-quadruplex structures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 31-38.	2.4	10
64	Novel sintering behavior of polystyrene nano-latex particles in filming process. <i>Science Bulletin</i> , 2001, 46, 991-995.	1.7	9
65	A programmed hydrogen bonding array self-assembles into a polymeric zipper-like architecture. <i>New Journal of Chemistry</i> , 2006, 30, 140.	2.8	9
66	A comparative study for recognizing G-quadruplexes using dimeric cyanine dyes with different sizes of aromatic substituents. <i>Analytical Methods</i> , 2015, 7, 5483-5489.	2.7	9
67	Visualized detection of apo-transferrin based on cyanine dye supramolecular assembly. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 215, 334-339.	3.9	9
68	NMR-based plasma metabolomics of adult B-cell acute lymphoblastic leukemia. <i>Molecular Omics</i> , 2021, 17, 153-159.	2.8	9
69	Specific identification of human transferrin conformations using a cyanine dye supramolecular assembly. <i>RSC Advances</i> , 2017, 7, 44904-44907.	3.6	8
70	Chelerythrine as a fluorescent light-up ligand for an i-motif DNA structure. <i>New Journal of Chemistry</i> , 2021, 45, 28-31.	2.8	8
71	A cyanine dye supramolecular FRET switch driven by G-quadruplex to monitor mitophagy. <i>Dyes and Pigments</i> , 2021, 192, 109429.	3.7	8
72	A copper-catalyzed domino reaction to construct functionalized indolizines. <i>RSC Advances</i> , 2015, 5, 100097-100101.	3.6	7

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73	A Lead (II) Ion Sensor Based on Selective Recognition of G-quadruplex for Ethylsubstitutive Thioflavin T. <i>ChemistrySelect</i> , 2019, 4, 10787-10791.	1.5	7
74	HOAc-Assisted Synthesis of 2,3-Disubstituted Quinolines from Arylamine and Aliphatic Aldehyde in Water. <i>ChemistrySelect</i> , 2019, 4, 9392-9395.	1.5	7
75	A resettable supramolecular platform for constructing scalable encoders. <i>Chemical Communications</i> , 2019, 55, 8005-8008.	4.1	7
76	Pyridostatins selectively recognize two different forms of the human telomeric G-quadruplex structures and their anti-tumor activities in vitro. <i>Tetrahedron</i> , 2015, 71, 4982-4986.	1.9	6
77	Interaction of isoflavones with different structures and transferrin. <i>Spectroscopy Letters</i> , 2016, 49, 596-601.	1.0	6
78	Separation of the potential G-quadruplex ligands from the butanol extract of <i>Zanthoxylum ailanthoides</i> Sieb. & Zucc. by countercurrent chromatography and preparative high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2017, 1507, 104-114.	3.7	6
79	A Rapid Colorimetric Method to Visualize Protein Interactions. <i>Chemistry - A European Journal</i> , 2018, 24, 6727-6731.	3.3	6
80	A Visibly Observable, Programmable Supramolecular Logic Platform and Its Application in Smart Thiols Sensing. <i>Chemistry - A European Journal</i> , 2019, 25, 5691-5697.	3.3	6
81	Highly selective recognition of intramolecular parallel G-quadruplex using a chiral supramolecular probe. <i>Dyes and Pigments</i> , 2021, 185, 108882.	3.7	6
82	Construction of a novel DNA-based comparator and its application in intelligent analysis. <i>Nanoscale</i> , 2019, 11, 16241-16244.	5.6	5
83	Spontaneous formation and reversible transformation between achiral J- and chiral H-aggregates of cyanine dye MTC. <i>RSC Advances</i> , 2019, 9, 11365-11368.	3.6	5
84	Regulatory-sequence mechanical biosensor: A versatile platform for investigation of G-quadruplex/label-free protein interactions and tunable protein detection. <i>Analytica Chimica Acta</i> , 2019, 1045, 1-9.	5.4	5
85	c-Myc G-quadruplex is sensitively and specifically recognized by a fluorescent probe. <i>Talanta</i> , 2021, 226, 122125.	5.5	5
86	G-quadruplex induced chirality of methylazacalix[6]pyridine via unprecedented binding stoichiometry: en route to multiplex controlled molecular switch. <i>Scientific Reports</i> , 2015, 5, 10479.	3.3	4
87	Study on the interaction of a cyanine dye with human serum transferrin. <i>Luminescence</i> , 2015, 30, 1176-1183.	2.9	4
88	Spectra, stability and labeling of 1-(5-carboxypentyl)-4-(2-(N-ethylcarbazole-3-yl) vinyl) pyridinium bromide with a large Stokes shift. <i>Luminescence</i> , 2016, 31, 380-387.	2.9	4
89	A hybrid aggregate FRET probe from the mixed assembly of cyanine dyes for highly specific monitoring of mitochondria autophagy. <i>Analytica Chimica Acta</i> , 2021, 1165, 338561.	5.4	4
90	On the Formation of Nanostructures from Stilbazolium-like Dyes. <i>Journal of Nanoparticle Research</i> , 2006, 8, 65-77.	1.9	3

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91	Roles of flanking sequences in the binding between unimolecular parallel-stranded G-quadruplexes and ligands. <i>Science Bulletin</i> , 2013, 58, 731-740.	1.7	3
92	A large stokes-shifted fluorescent dye synthesized as a new probe for the determination of protein. <i>Journal of Fluorescence</i> , 2016, 26, 1511-1520.	2.5	3
93	Labeling of <i>Microthrix parvicella</i> in situ: A novel FRET probe based on bisoctyl rhodamine B. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 213, 263-271.	3.9	3
94	Evaluation of the selectivity of G-quadruplex ligands in living cells with a small molecule fluorescent probe. <i>Analytica Chimica Acta: X</i> , 2019, 2, 100017.	1.0	3
95	An important functional group, benzo[1,3]dioxole, of alkaloids induces the formation of the human telomeric DNA G-quadruplex. <i>Science Bulletin</i> , 2011, 56, 613-617.	1.7	2
96	Properties, theoretical study and crystal structure of 3-ethyl carbazole. <i>Luminescence</i> , 2016, 31, 1229-1236.	2.9	2
97	Stabilizing G-quadruplex DNA by methylazacalix[n]pyridine through shape-complementary interaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 609-612.	2.2	2
98	A Spectroscopic Study of the Interaction between Cyanine Dyes with Different Skeleton Structures and Transferrin. <i>ChemistrySelect</i> , 2018, 3, 12742-12747.	1.5	2
99	Multi-approach cysteine detection based on supramolecular transformation induced by G-quadruplexes. <i>Analytical Methods</i> , 2019, 11, 4249-4253.	2.7	2
100	NMR-based metabonomics: a useful platform of oncology research. <i>Bioanalytical Reviews</i> , 2010, 1, 117-140.	0.2	1
101	Non-Flat Bisbenzylisoquinoline Alkaloid Fangchinoline As a Class of Potent G-Quadruplex Stabilizer with Anti-cancer Activity. <i>Chinese Journal of Chemistry</i> , 2015, 33, 1041-1048.	4.9	1
102	A novel fluorescent long-chain fatty acid-substituted dye: labeling and biodegrading of <i>Microthrix parvicella</i> . <i>RSC Advances</i> , 2018, 8, 35855-35862.	3.6	1
103	Ethyl-substituted Thioflavin T as a Fluorescent Probe for Detecting the Conformation of Transferrin. <i>ChemistrySelect</i> , 2019, 4, 10270-10275.	1.5	1
104	An increase in DNA G-quadruplex formation in acute myelocytic leukemia is detected by a supramolecular probe. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119968.	3.9	1
105	INTERACTION BETWEEN AGGREGATES OF CYANINE DYES AND BIOMOLECULES. , 2012, , 155-180.		0
106	Frontispiece: A Novel Reconfigurable Logic Unit Based on the DNA-Templated Potassium-Concentration-Dependent Supramolecular Assembly. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
107	A novel approach for the screening analysis of anticancer compounds from traditional Chinese medicine by a G-quadruplex functionalized magnetic system. <i>Analytical Methods</i> , 2020, 12, 528-534.	2.7	0
108	Selective recognition of DNA parallel G-quadruplexes by 3,8a-disubstituted indolizinones. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 29, 115848.	3.0	0