

Anton Granzhan

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

1,686
citations

23
h-index

39
g-index

77
ext. papers

1,935
ext. citations

7.9
avg, IF

4.8
L-index

#	Paper	IF	Citations
70	Harnessing an emissive guanine surrogate to design small-molecule fluorescent chemosensors of -methylguanine-DNA-methyltransferase (MGMT).. <i>Organic and Biomolecular Chemistry</i> , 2022 ,	3.9	1
69	The different activities of RNA G-quadruplex structures are controlled by flanking sequences. <i>Life Science Alliance</i> , 2022 , 5,	5.8	3
68	Acridine-O-benzylguanine hybrids: Synthesis, DNA binding, MGMT inhibition and antiproliferative activity. <i>European Journal of Medicinal Chemistry</i> , 2022 , 227, 113909	6.8	2
67	Assessment of presumed small-molecule ligands of telomeric i-DNA by biolayer interferometry (BLI).. <i>Chemical Communications</i> , 2022 ,	5.8	1
66	Dye-functionalized phosphate-binding macrocycles: from nucleotide to G-quadruplex recognition and "turn-on" fluorescence sensing. <i>Chemical Communications</i> , 2021 , 57, 10632-10635	5.8	2
65	Quadruplex DNA-guided ligand selection from dynamic combinatorial libraries of acylhydrazones. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 379-386	3.9	5
64	SARS-CoV-2 Nsp3 unique domain SUD interacts with guanine quadruplexes and G4-ligands inhibit this interaction. <i>Nucleic Acids Research</i> , 2021 , 49, 7695-7712	20.1	12
63	Identifying G-Quadruplex-DNA-Disrupting Small Molecules. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12567-12577	16.4	11
62	Dual targeting of higher-order DNA structures by azacryptands induces DNA junction-mediated DNA damage in cancer cells. <i>Nucleic Acids Research</i> , 2021 , 49, 10275-10288	20.1	1
61	FRET-MC: A fluorescence melting competition assay for studying G4 structures in vitro. <i>Biopolymers</i> , 2021 , 112, e23415	2.2	9
60	Harnessing intrinsic fluorescence for typing of secondary structures of DNA. <i>Nucleic Acids Research</i> , 2020 , 48, e61	20.1	10
59	Quadruplex-interacting compounds for regulating the translation of the Epstein-Barr virus nuclear antigen 1 (EBNA1) mRNA: A new strategy to prevent and treat EBV-related cancers. <i>Annual Reports in Medicinal Chemistry</i> , 2020 , 243-286	1.6	1
58	DNA Junction Ligands Trigger DNA Damage and Are Synthetic Lethal with DNA Repair Inhibitors in Cancer Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 424-435	16.4	10
57	Sneaking Out for Happy Hour: Yeast-Based Approaches to Explore and Modulate Immune Response and Immune Evasion. <i>Genes</i> , 2019 , 10,	4.2	4
56	Identification of optimal fluorescent probes for G-quadruplex nucleic acids through systematic exploration of mono- and distyryl dye libraries. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 1872-1889 ⁵	3.5	8
55	Novel cationic bis(acylhydrazones) as modulators of Epstein-Barr virus immune evasion acting through disruption of interaction between nucleolin and G-quadruplexes of EBNA1 mRNA. <i>European Journal of Medicinal Chemistry</i> , 2019 , 178, 13-29	6.8	17
54	Identification of Three-Way DNA Junction Ligands through Screening of Chemical Libraries and Validation by Complementary in Vitro Assays. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 4456-4466	8.3	15

53	Monitoring DNA-Ligand Interactions in Living Human Cells Using NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13281-13285	16.4	28
52	Strength in Numbers: Development of a Fluorescence Sensor Array for Secondary Structures of DNA. <i>Chemistry - A European Journal</i> , 2019 , 25, 1812-1818	4.8	8
51	Interaction of Functionalized Naphthalenophanes with Abasic Sites in DNA: DNA Cleavage, DNA Cleavage Inhibition, and Formation of Ligand-DNA Adducts. <i>Chemistry - A European Journal</i> , 2019 , 25, 1949-1962	4.8	7
50	TWJ-Screen: an isothermal screening assay to assess ligand/DNA junction interactions in vitro. <i>Nucleic Acids Research</i> , 2018 , 46, e16	20.1	8
49	Topology-Selective, Fluorescent "Light-Up" Probes for G-Quadruplex DNA Based on Photoinduced Electron Transfer. <i>Chemistry - A European Journal</i> , 2018 , 24, 12638-12651	4.8	29
48	Probing of G-Quadruplex Structures via Ligand-Sensitized Photochemical Reactions in U-Substituted DNA. <i>Scientific Reports</i> , 2018 , 8, 15814	4.9	2
47	Copper(II)-Controlled Molecular Glue for Mismatched DNA. <i>ChemBioChem</i> , 2017 , 18, 618-622	3.8	1
46	The human mitochondrial transcription factor A is a versatile G-quadruplex binding protein. <i>Scientific Reports</i> , 2017 , 7, 43992	4.9	29
45	A common intronic variant of PARP1 confers melanoma risk and mediates melanocyte growth via regulation of MITF. <i>Nature Genetics</i> , 2017 , 49, 1326-1335	36.3	36
44	Comparative study of affinity and selectivity of ligands targeting abasic and mismatch sites in DNA using a fluorescence-melting assay. <i>Biochimie</i> , 2016 , 128-129, 133-7	4.6	5
43	Hydroxybenzo[b]quinolizinium Ions: Water-Soluble and Solvatochromic Photoacids. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10942-10954	4.2	14
42	A novel Hsp70 inhibitor prevents cell intoxication with the actin ADP-ribosylating <i>Clostridium perfringens</i> iota toxin. <i>Scientific Reports</i> , 2016 , 6, 20301	4.9	22
41	Microwave-Assisted C-2 Direct Alkylation of Imidazo[4,5-b]pyridines: Access to Fluorescent Purine Isosteres with Remarkably Large Stokes Shifts. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 2421-2434	3.2	13
40	Playing Around with the Size and Shape of Quinolizinium Derivatives: Versatile Ligands for Duplex, Triplex, Quadruplex and Abasic Site-Containing DNA. <i>Synlett</i> , 2016 , 27, 1775-1793	2.2	23
39	Aggregating distyrylpyridinium dye as a bimodal structural probe for G-quadruplex DNA. <i>New Journal of Chemistry</i> , 2015 , 39, 5931-5935	3.6	14
38	Efficient inhibition of human AP endonuclease 1 (APE1) via substrate masking by abasic site-binding macrocyclic ligands. <i>Chemical Communications</i> , 2015 , 51, 15948-51	5.8	10
37	Ligand-induced conformational changes with cation ejection upon binding to human telomeric DNA G-quadruplexes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 750-6	16.4	84
36	Cationic azacryptands as selective three-way DNA junction binding agents. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 215-22	3.9	11

35	The benzo[b]quinolizinium ion as a water-soluble platform for the fluorimetric detection of biologically relevant analytes. <i>Arkivoc</i> , 2015 , 2015, 494-523	0.9	26
34	Finding needles in a haystack: recognition of mismatched base pairs in DNA by small molecules. <i>Chemical Society Reviews</i> , 2014 , 43, 3630-65	58.5	81
33	Asymmetric distyrylpyridinium dyes as red-emitting fluorescent probes for quadruplex DNA. <i>Chemistry - A European Journal</i> , 2013 , 19, 1214-26	4.8	70
32	Visualizing the quadruplex: from fluorescent ligands to light-up probes. <i>Topics in Current Chemistry</i> , 2013 , 330, 111-77		102
31	Polycyclic azoniahetarenes: assessing the binding parameters of complexes between unsubstituted ligands and G-quadruplex DNA. <i>Chemistry - A European Journal</i> , 2012 , 18, 10903-15	4.8	23
30	Double threading through DNA: NMR structural study of a bis-naphthalene macrocycle bound to a thymine-thymine mismatch. <i>Nucleic Acids Research</i> , 2012 , 40, 5115-28	20.1	31
29	Studies of the fluorescence light-up effect of amino-substituted benzo[b]quinolizinium derivatives in the presence of biomacromolecules. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1535-45	4.2	37
28	Connection of metallamacrocycles via dynamic covalent chemistry: a versatile method for the synthesis of molecular cages. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7106-15	16.4	143
27	Recognition of G-quadruplex DNA by triangular star-shaped compounds: with or without side chains?. <i>Chemistry - A European Journal</i> , 2011 , 17, 4529-39	4.8	32
26	"One ring to bind them all"-part I: the efficiency of the macrocyclic scaffold for g-quadruplex DNA recognition. <i>Journal of Nucleic Acids</i> , 2010 , 2010,	2.3	42
25	"One Ring to Bind Them All"-Part II: Identification of Promising G-Quadruplex Ligands by Screening of Cyclophane-Type Macrocycles. <i>Journal of Nucleic Acids</i> , 2010 , 2010,	2.3	25
24	Pattern-based sensing of short oligodeoxynucleotides with palladium-dye complexes. <i>Chemical Communications</i> , 2010 , 46, 5515-7	5.8	12
23	Macrocyclic DNA-mismatch-binding ligands: structural determinants of selectivity. <i>Chemistry - A European Journal</i> , 2010 , 16, 878-89	4.8	41
22	Combining Metallasupramolecular Chemistry with Dynamic Covalent Chemistry: Synthesis of Large Molecular Cages. <i>Angewandte Chemie</i> , 2010 , 122, 5647-5650	3.6	38
21	Combining metallasupramolecular chemistry with dynamic covalent chemistry: synthesis of large molecular cages. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5515-8	16.4	91
20	A fluorescent bisanthracene macrocycle discriminates between matched and mismatch-containing DNA. <i>Chemistry - A European Journal</i> , 2009 , 15, 1314-8	4.8	20
19	Synthesis of mono- and bibrachial naphthalene-based macrocycles with pyrene or ferrocene units for anion detection. <i>Tetrahedron</i> , 2009 , 65, 1349-1360	2.4	20
18	Diazonia- and tetraazoniapolycyclic cations as motif for quadruplex-DNA ligands. <i>Chemical Communications</i> , 2009 , 1249-51	5.8	25

17	Water-soluble, pH-sensitive fluorescent probes on the basis of acridizinium ions. <i>Photochemical and Photobiological Sciences</i> , 2008 , 7, 405-7	4.2	21
16	Synthesis of 6-amino-3,4-dihydroisoquinolinium derivatives by ring-opening reactions of acridizinium ions. <i>Organic Letters</i> , 2008 , 10, 757-60	6.2	7
15	Recognition of homopyrimidine mismatches by distance-constrained macrocyclic bisintercalators. <i>Nucleic Acids Symposium Series</i> , 2008 , 109-10		1
14	Selective recognition of pyrimidine-pyrimidine DNA mismatches by distance-constrained macrocyclic bis-intercalators. <i>Nucleic Acids Research</i> , 2008 , 36, 5000-12	20.1	37
13	Diazoniapolycyclic ions inhibit the activity of topoisomerase I and the growth of certain tumor cell lines. <i>ChemMedChem</i> , 2008 , 3, 1671-6	3.7	14
12	Relationship between the structure and the DNA binding properties of diazoniapolycyclic duplex- and triplex-DNA binders: efficiency, selectivity, and binding mode. <i>Biochemistry</i> , 2007 , 46, 12721-36	3.2	51
11	Targeting Abasic Sites in DNA by Aminoalkyl-Substituted Carboxamidoacridizinium Derivatives and Acridizinium-Adenine Conjugates. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 4721-4730	3.2	21
10	Dual fluorescence of 2-methoxyanthracene derivatives. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 1036-44	4.8	18
9	9-donor-substituted acridizinium salts: versatile environment-sensitive fluorophores for the detection of biomacromolecules. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1254-67	16.4	115
8	Synthesis of 9-amino- and 9-sulfanyl-substituted benzo[b]quinolinium derivatives. <i>Arkivoc</i> , 2007 , 2007, 136-149	0.9	2
7	Selective stabilization of triple-helical DNA by diazoniapolycyclic intercalators. <i>ChemBioChem</i> , 2006 , 7, 1031-3	3.8	11
6	Detection of biomacromolecules with fluorescent light-up probes. <i>Pure and Applied Chemistry</i> , 2006 , 78, 2325-2331	2.1	6
5	N-aryl-9-amino-substituted acridizinium derivatives as fluorescent "light-up" probes for DNA and protein detection. <i>Organic Letters</i> , 2005 , 7, 5119-22	6.2	53
4	Synthesis of Substituted Diazoniapentaphene Salts by an Unexpected Rearrangement-Cyclodehydration Sequence. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 4098-4108	2.2	3
3	Photo-degradation of bacteriochlorophyll c in intact cells and extracts from <i>Chlorobium tepidum</i> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 165, 75-89	4.7	6
2	Harnessing intrinsic fluorescence for typing of secondary structures of DNA		1
1	Disclosing the actual efficiency of G-quadruplex-DNA-disrupting small molecules		1