

Fangwei Shao

List of Publications by Year in descending order

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53
papers

1,977
citations

304368

22
h-index

243296

44
g-index

53
all docs

53
docs citations

53
times ranked

3273
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. <i>Journal of the American Chemical Society</i> , 2017, 139, 8698-8704.	6.6	440
2	Upconverting luminescent nanomaterials: application to in vivo bioimaging. <i>Chemical Communications</i> , 2009, , 4188.	2.2	307
3	Long-Range Electron and Hole Transport through DNA with Tethered Cyclometalated Iridium(III) Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 14733-14738.	6.6	89
4	Stability and Kinetics of c-MYC Promoter G-Quadruplexes Studied by Single-Molecule Manipulation. <i>Journal of the American Chemical Society</i> , 2015, 137, 2424-2427.	6.6	81
5	Charge Migration along the DNA Duplex: Hole versus Electron Transport. <i>Journal of the American Chemical Society</i> , 2008, 130, 1152-1153.	6.6	77
6	Long-range oxidative damage to cytosines in duplex DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17914-17919.	3.3	76
7	Sequence Dependence of Charge Transport through DNA Domains. <i>Journal of the American Chemical Society</i> , 2005, 127, 17445-17452.	6.6	76
8	Synthesis and Characterization of Iridium(III) Cyclometalated Complexes with Oligonucleotides: Insights into Redox Reactions with DNA. <i>Inorganic Chemistry</i> , 2007, 46, 10187-10199.	1.9	73
9	Transillumination fluorescence imaging in mice using biocompatible upconverting nanoparticles. <i>Optics Letters</i> , 2009, 34, 2566.	1.7	63
10	Graphene Quantum Dot-Based Nanocomposites for Diagnosing Cancer Biomarker APE1 in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13634-13643.	4.0	58
11	Versatile Types of DNA-Based Nanobiosensors for Specific Detection of Cancer Biomarker FEN1 in Living Cells and Cell-Free Systems. <i>Nano Letters</i> , 2018, 18, 7383-7388.	4.5	57
12	Stimuli-responsive plasmonic core-satellite assemblies: i-motif DNA linker enabled intracellular pH sensing. <i>Chemical Communications</i> , 2013, 49, 5739.	2.2	56
13	Regulation of telomeric i-motif stability by 5-methylcytosine and 5-hydroxymethylcytosine modification. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5646-5651.	1.5	55
14	A Pt(II) Dip complex stabilizes parallel c-myc G-quadruplex. <i>Chemical Communications</i> , 2013, 49, 4758.	2.2	38
15	Monofunctional Carbocyanine Dyes for Bio- and Bioorthogonal Conjugation. <i>Bioconjugate Chemistry</i> , 2008, 19, 2487-2491.	1.8	30
16	Back-Electron Transfer Suppresses the Periodic Length Dependence of DNA-Mediated Charge Transport across Adenine Tracts. <i>Journal of the American Chemical Society</i> , 2008, 130, 15150-15156.	6.6	29
17	Facile synthesis of monofunctional pentamethine carbocyanine fluorophores. <i>Dyes and Pigments</i> , 2011, 90, 119-122.	2.0	28
18	A single thiazole orange molecule forms an exciplex in a DNA i-motif. <i>Chemical Communications</i> , 2014, 50, 6402-6405.	2.2	25

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19	G-quadruplex Nanowires To Direct the Efficiency and Selectivity of Electrocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12453-12457.	7.2	25
20	Octahedral ruthenium complexes selectively stabilize G-quadruplexes. <i>Chemical Communications</i> , 2016, 52, 8095-8098.	2.2	24
21	Gold Nanotip Array for Ultrasensitive Electrochemical Sensing and Spectroscopic Monitoring. <i>Small</i> , 2013, 9, 2260-2265.	5.2	23
22	Self-Assembly of Dendritic DNA into a Hydrogel: Application in Three-Dimensional Cell Culture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49705-49712.	4.0	23
23	Efficient DNA-Mediated Electron Transport in Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6703-6711.	3.2	22
24	Magnetic Fields Facilitate DNA-Mediated Charge Transport. <i>Biochemistry</i> , 2015, 54, 3392-3399.	1.2	17
25	Divergent Oriented Synthesis For the Design of Reagents for Protein Conjugation. <i>ACS Combinatorial Science</i> , 2010, 12, 57-64.	3.3	13
26	5-Hydroxymethylcytosine and 5-formylcytosine containing deoxyoligonucleotides: Facile syntheses and melting temperature studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1186-1191.	1.0	12
27	Efficient Long-Range Hole Transport Through G-Quadruplexes. <i>Chemistry - A European Journal</i> , 2017, 23, 13980-13985.	1.7	12
28	Fabrication of circular assemblies with DNA tetrahedrons: from static structures to a dynamic rotary motor. <i>Nucleic Acids Research</i> , 2017, 45, 12090-12099.	6.5	11
29	Topoisomerase-Based Preparation and AFM Imaging of Multi-Interlocked Circular DNA. <i>Bioconjugate Chemistry</i> , 2016, 27, 616-620.	1.8	10
30	Fluorogenic Pt complexes distinguish the quantity and folding behavior of RNA G-quadruplexes between live cancerous and healthy cells. <i>Chemical Communications</i> , 2020, 56, 14459-14462.	2.2	10
31	Development of HIV-1 Fusion Inhibitors Targeting gp41. <i>Current Medicinal Chemistry</i> , 2014, 21, 1976-1996.	1.2	10
32	Programmable DNA-Mediated Multitasking Processor. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5639-5644.	1.2	9
33	Aza-bridged bisphenanthrolyl Pt(II) complexes: Efficient stabilization and topological selectivity on telomeric G-quadruplexes. <i>Journal of Inorganic Biochemistry</i> , 2017, 166, 135-140.	1.5	9
34	Using Amino-Labeled Nucleotide Probes for Simultaneous Single Molecule RNA-DNA FISH. <i>PLoS ONE</i> , 2014, 9, e107425.	1.1	8
35	Hole Transport in A-form DNA/RNA Hybrid Duplexes. <i>Scientific Reports</i> , 2017, 7, 40293.	1.6	8
36	Dual functional dinuclear platinum complex with selective reactivity towards c-myc G-quadruplex. <i>Scientific Reports</i> , 2018, 8, 767.	1.6	8

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37	Sulfinate Based Selective Labeling of 5-Hydroxymethylcytosine: Application to Biotin Pull Down Assay. <i>Bioconjugate Chemistry</i> , 2018, 29, 245-249.	1.8	8
38	One-Dimensional Assemblies of a DNA Tetrahedron: Manipulations on the Structural Conformation and Single-Molecule Behaviors. <i>ACS Applied Bio Materials</i> , 2019, 2, 1278-1285.	2.3	8
39	A Molecular Dynamics-Quantum Mechanics Theoretical Study of DNA-Mediated Charge Transport in Hydrated Ionic Liquids. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2733-2742.	2.3	7
40	Dynamical theory of time-resolved fluorescence with pulse excitation. <i>Journal of Chemical Physics</i> , 2001, 114, 3373-3379.	1.2	5
41	Recognition of forcible curvature in circular DNA by human topoisomerase I. <i>Chemical Communications</i> , 2011, 47, 11309.	2.2	5
42	Simultaneous RNA-DNA FISH. <i>Methods in Molecular Biology</i> , 2016, 1402, 135-145.	0.4	5
43	Intrinsic curvature in duplex DNA inhibits Human Topoisomerase I. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1322-1325.	1.0	4
44	8-Cyclopropyl-2-Deoxyguanosine: A Hole Trap for DNA-Mediated Charge Transport. <i>ChemBioChem</i> , 2014, 15, 1171-1175.	1.3	4
45	Coherent control of the photodissociation of CH ₃ I and IBr. <i>Chemical Physics Letters</i> , 2000, 329, 461-468.	1.2	3
46	Self-assembly of DNA duplex in graphene bilayer. <i>Molecular Physics</i> , 2013, 111, 1053-1060.	0.8	3
47	Confirmation of quinolone-induced formation of gyrase-DNA conjugates using AFM. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 4622-4626.	1.0	3
48	Methylation on CpG repeats modulates hydroxymethylcytosine induced duplex destabilization. <i>RSC Advances</i> , 2016, 6, 48858-48862.	1.7	3
49	Reversible Thermal Cycling of DNA Material for Efficient Cellulose Hydrolysis. <i>ACS Applied Bio Materials</i> , 2018, 1, 1118-1123.	2.3	3
50	G-quadruplex Nanowires To Direct the Efficiency and Selectivity of Electrocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2018, 130, 12633-12637.	1.6	3
51	In-stem thiazole orange reveals the same triplex intermediate for pH and thermal unfolding of i-motifs. <i>Chemical Communications</i> , 2016, 52, 7261-7264.	2.2	1
52	Time-dependent theory of vibrational relaxation—application to time-resolved fluorescence. <i>Computational and Theoretical Chemistry</i> , 2003, 626, 19-26.	1.5	0
53	Simultaneous RNA-DNA FISH. <i>Methods in Molecular Biology</i> , 2021, 2372, 111-121.	0.4	0