

Alexandru Rotaru

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,553
citations

516710

16
h-index

361022

35
g-index

39
all docs

39
docs citations

39
times ranked

2181
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule chemical reactions on DNA origami. <i>Nature Nanotechnology</i> , 2010, 5, 200-203.	31.5	478
2	Selective dsDNA-templated Formation of Copper Nanoparticles in Solution. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5665-5667.	13.8	326
3	A Novel Coupling 1,3-Dipolar Cycloaddition Sequence as a Three-Component Approach to Highly Fluorescent Indolizines. <i>Helvetica Chimica Acta</i> , 2005, 88, 1798-1812.	1.6	111
4	Highly Selective Artificial Cholesteryl Crown Ether K ⁺ -Channels. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14473-14477.	13.8	76
5	Probing Electron-Induced Bond Cleavage at the Single-Molecule Level Using DNA Origami Templates. <i>ACS Nano</i> , 2012, 6, 4392-4399.	14.6	66
6	Single Molecule Atomic Force Microscopy Studies of Photosensitized Singlet Oxygen Behavior on a DNA Origami Template. <i>ACS Nano</i> , 2010, 4, 7475-7480.	14.6	55
7	G-Quartet hydrogels for effective cell growth applications. <i>Chemical Communications</i> , 2017, 53, 12668-12671.	4.1	47
8	Sequence dependence of electron-induced DNA strand breakage revealed by DNA nanoarrays. <i>Scientific Reports</i> , 2014, 4, 7391.	3.3	45
9	Nucleic Acid Binders Activated by Light of Selectable Wavelength. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6180-6183.	13.8	37
10	Performances of clay aerogel polymer composites for oil spill sorption: Experimental design and modeling. <i>Separation and Purification Technology</i> , 2014, 133, 260-275.	7.9	37
11	Dynamic constitutional frameworks for DNA biomimetic recognition. <i>Chemical Communications</i> , 2015, 51, 2021-2024.	4.1	35
12	A Novel Secondary DNA Binding Site in Human Topoisomerase I Unravalled by using a 2D DNA Origami Platform. <i>ACS Nano</i> , 2010, 4, 5969-5977.	14.6	33
13	Optimization of Polyplex Formation between DNA Oligonucleotide and Poly(ε-Lysine): Experimental Study and Modeling Approach. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1291.	4.1	22
14	Transfer of a protein pattern from self-assembled DNA origami to a functionalized substrate. <i>Chemical Communications</i> , 2013, 49, 1927.	4.1	21
15	Pyridyl-indolizine derivatives as DNA binders and pH-sensitive fluorescent dyes. <i>Tetrahedron</i> , 2016, 72, 8215-8222.	1.9	19
16	Red light-activated phosphorothioate oligodeoxyribonucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4336-4338.	2.2	17
17	DNA-assisted decoration of single-walled carbon nanotubes with gold nanoparticles for applications in surface-enhanced Raman scattering imaging of cells. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	14
18	Novel cyclodextrin-based pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles. <i>Polymer Chemistry</i> , 2018, 9, 968-975.	3.9	13

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19	Supramolecular rulers enabling selective detection of pure short ssDNA via chiral self-assembly. <i>Chemical Communications</i> , 2016, 52, 386-389.	4.1	11
20	Molecular structure and electronic properties of pyridylindolizine derivative containing phenyl and phenacyl groups: Comparison between semi-empirical calculations and experimental studies. <i>Journal of Molecular Structure</i> , 2013, 1034, 162-172.	3.6	10
21	Experimental design, modeling and optimization of polyplex formation between DNA oligonucleotides and branched polyethylenimine. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9445-9456.	2.8	9
22	Synthesis of novel 4,5-diazafluoren-9-one derivatives and theoretical study of 3+2 cycloaddition reactions. <i>Journal of Heterocyclic Chemistry</i> , 2004, 41, 983-986.	2.6	8
23	Steps towards automated synthesis. <i>Nature Nanotechnology</i> , 2010, 5, 760-761.	31.5	8
24	Cyclodextrin Encapsulated pH Sensitive Dyes as Fluorescent Cellular Probes: Self-Aggregation and In Vitro Assessments. <i>Molecules</i> , 2020, 25, 4397.	3.8	7
25	Zinc(II) coordination polymer on the base of 3-(1H-tetrazol-5-yl)-[1,1'-biphenyl]-4-carboxylic acid: Synthesis, crystal structure and antimicrobial properties. <i>Inorganic Chemistry Communication</i> , 2018, 92, 60-63.	3.9	6
26	Aqueous Dispersion of Single-Walled Carbon Nanotubes Using Tetra-Phenyl Bimesitylene Derivative via Noncovalent Modification and Improved Antimicrobial Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7960-7966.	0.9	6
27	Synthesis, structure, computational modeling, and biological activity of two novel bimesitylene derivatives. <i>Research on Chemical Intermediates</i> , 2019, 45, 453-469.	2.7	5
28	Single-walled carbon nanotubes-G-quadruple hydrogel nanocomposite matrixes for cell support applications. <i>Materials Science and Engineering C</i> , 2020, 111, 110800.	7.3	5
29	New conjugates of calix[4]arenes bearing dipyrindine and indolizine heterocycles. <i>Supramolecular Chemistry</i> , 2012, 24, 424-435.	1.2	3
30	Mass Spectrometry as a Complementary Approach for Noncovalently Bound Complexes Based on Cyclodextrins. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 685-701.	1.6	3
31	Synthesis and properties of fluorescent 1,3-substituted mono and biindolizines. <i>Arkivoc</i> , 2010, 2009, 287-299.	0.5	2
32	DNA-Mediated Copper Nanoparticle Formation on Dispersed Single-Walled Carbon Nanotubes. <i>Helvetica Chimica Acta</i> , 2015, 98, 1141-1146.	1.6	1
33	Injectable Thixotropic Cyclodextrin-Functionalized Hydrogels Based on Guanosine Quartet Assembly. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9179.	4.1	1
34	Solid-Phase Synthesized Copolymers for the Assembly of pH-Sensitive Micelles Suitable for Drug Delivery Applications. <i>Nanomaterials</i> , 2022, 12, 1798.	4.1	1
35	Synthesis of Novel 4,5-Diazafluoren-9-one Derivatives and Theoretical Study of [3 + 2] Cycloaddition Reactions. <i>ChemInform</i> , 2005, 36, no.	0.0	0
36	Synthesis and photophysics of conjugated azomethine polyrotaxanes. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0

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37	Red light activated phosphothioate oligodeoxyribonucleotides. , 2008, , .		0