Barbara Sacca

List of Publications by Year in descending order

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RADRADA SACCA

#	Article	IF	CITATIONS
1	DNA origami. Nature Reviews Methods Primers, 2021, 1, .	11.8	382
2	Fluorescence-based melting assays for studying quadruplex ligands. Methods, 2007, 42, 183-195.	1.9	345
3	DNA Origami: The Art of Folding DNA. Angewandte Chemie - International Edition, 2012, 51, 58-66.	7.2	320
4	Kinetics of tetramolecular quadruplexes. Nucleic Acids Research, 2005, 33, 81-94.	6.5	275
5	Orthogonal Protein Decoration of DNA Origami. Angewandte Chemie - International Edition, 2010, 49, 9378-9383.	7.2	259
6	The effect of chemical modifications on the thermal stability of different G-quadruplex-forming oligonucleotides. Nucleic Acids Research, 2005, 33, 1182-1192.	6.5	211
7	Replication Fork Velocities at Adjacent Replication Origins Are Coordinately Modified during DNA Replication in Human Cells. Molecular Biology of the Cell, 2007, 18, 3059-3067.	0.9	194
8	Functionalization of DNA nanostructures with proteins. Chemical Society Reviews, 2011, 40, 5910.	18.7	188
9	DNA nanomachines and nanostructures involving quadruplexes. Organic and Biomolecular Chemistry, 2006, 4, 3383.	1.5	152
10	Human High Temperature Requirement Serine Protease A1 (HTRA1) Degrades Tau Protein Aggregates. Journal of Biological Chemistry, 2012, 287, 20931-20941.	1.6	103
11	Determinants of amyloid fibril degradation by the PDZ protease HTRA1. Nature Chemical Biology, 2015, 11, 862-869.	3.9	88
12	Endogenous γ-H2AX-ATM-Chk2 Checkpoint Activation in Bloom's Syndrome Helicase–Deficient Cells Is Related to DNA Replication Arrested Forks. Molecular Cancer Research, 2007, 5, 713-724.	1.5	81
13	Tailored protein encapsulation into a DNA host using geometrically organized supramolecular interactions. Nature Communications, 2017, 8, 14472.	5.8	73
14	Three-Dimensional DNA Origami as Programmable Anchoring Points for Bioreceptors in Fiber Optic Surface Plasmon Resonance Biosensing. ACS Applied Materials & Interfaces, 2018, 10, 23539-23547.	4.0	60
15	New PEGs for Peptide and Protein Modification, Suitable for Identification of the PEGylation Site. Bioconjugate Chemistry, 2001, 12, 62-70.	1.8	56
16	Structural Properties of a Collagenous Heterotrimer that Mimics the Collagenase Cleavage Site of Collagen Type I. Journal of Molecular Biology, 2002, 319, 1235-1242.	2.0	52
17	From Nano to Macro through Hierarchical Selfâ€Assembly: The DNA Paradigm. ChemBioChem, 2016, 17, 1063-1080	1.3	52
18	The Chain Register in Heterotrimeric Collagen Peptides Affects Triple Helix Stability and Folding Kinetics. Journal of Molecular Biology, 2002, 324, 309-318.	2.0	48

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19	Length-dependent energetics of (CTG)n and (CAG)n trinucleotide repeats. Nucleic Acids Research, 2005, 33, 4065-4077.	6.5	47
20	Characterizing the Effect of Multivalent Conjugates Composed of AÎ ² -Specific Ligands and Metal Nanoparticles on Neurotoxic Fibrillar Aggregation. ACS Nano, 2016, 10, 7582-7597.	7.3	46
21	A Facile Method for Preparation of Tailored Scaffolds for DNAâ€Origami. Small, 2014, 10, 73-77.	5.2	44
22	Hierarchical Assembly of DNA Filaments with Designer Elastic Properties. ACS Nano, 2018, 12, 44-55.	7.3	44
23	Dendritic DNA Building Blocks for Amplified Detection Assays and Biomaterials. Angewandte Chemie - International Edition, 2009, 48, 5996-6000.	7.2	43
24	Synthetic heterotrimeric collagen peptides as mimics of cell adhesion sites of the basement membrane. Biopolymers, 2004, 76, 34-47.	1.2	41
25	Incorporation of integrins into artificial planar lipid membranes: characterization by plasmon-enhanced fluorescence spectroscopy. Analytical Biochemistry, 2004, 333, 216-224.	1.1	41
26	Highâ€Throughput, Realâ€Time Monitoring of the Selfâ€Assembly of DNA Nanostructures by FRET Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 2135-2137.	7.2	39
27	Reversible Reconfiguration of DNA Origami Nanochambers Monitored by Singleâ€Molecule FRET. Angewandte Chemie - International Edition, 2015, 54, 3592-3597.	7.2	39
28	Binding and Docking of Synthetic Heterotrimeric Collagen Type IV Peptides with α1β1 Integrin. ChemBioChem, 2002, 3, 904-907.	1.3	36
29	Studies of the Local Conformational Properties of the Cell-Adhesion Domain of Collagen Type IV in Synthetic Heterotrimeric Peptides. Biochemistry, 2003, 42, 3429-3436.	1.2	36
30	Manipulating Enzymes Properties with DNA Nanostructures. Molecules, 2019, 24, 3694.	1.7	30
31	Temperature-dependent FRET spectroscopy for the high-throughput analysis of self-assembled DNA nanostructures in real time. Nature Protocols, 2009, 4, 271-285.	5.5	27
32	Synthesis of heterotrimeric collagen peptides containing the α1β1 integrin recognition site of collagen type IV. Journal of Peptide Science, 2002, 8, 192-204.	0.8	26
33	Sites of high local frustration in DNA origami. Nature Communications, 2019, 10, 1061.	5.8	26
34	Enzyme-functionalized DNA nanostructures as tools for organizing and controlling enzymatic reactions. MRS Bulletin, 2017, 42, 920-924.	1.7	24
35	DNA Origami Voltage Sensors for Transmembrane Potentials with Single-Molecule Sensitivity. Nano Letters, 2021, 21, 8634-8641.	4.5	22
36	DNA and RNA Quadruplex ligands. Nucleic Acids Symposium Series, 2008, 52, 7-8.	0.3	16

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37	The role of DNA nanostructures in the catalytic properties of an allosterically regulated protease. Science Advances, 2022, 8, eabk0425.	4.7	16
38	Functional Tethered Bilayer Lipid Membranes. Springer Series on Chemical Sensors and Biosensors, 2004, , 239-253.	0.5	14
39	Conformation-dependent side reactions in interstrand-disulfide bridging of trimeric collagenous peptides by regioselective cysteine chemistry. Journal of Peptide Science, 2002, 8, 205-210.	0.8	11
40	The collective behavior of spring-like motifs tethered to a DNA origami nanostructure. Nanoscale, 2017, 9, 4486-4496.	2.8	11
41	Analysis of the Selfâ€Assembly of 4×4 DNA Tiles by Temperatureâ€Dependent FRET Spectroscopy. ChemPhysChem, 2009, 10, 3239-3248.	1.0	9
42	Siteâ€Directed, Onâ€Surface Assembly of DNA Nanostructures. Angewandte Chemie - International Edition, 2015, 54, 12039-12043.	7.2	9
43	Nanolattices of Switchable DNAâ€Based Motors. Small, 2012, 8, 3000-3008.	5.2	8
44	Synthetic DNA filaments: from design to applications. Biological Chemistry, 2018, 399, 773-785.	1.2	8
45	Pumilio2 Promotes Growth of Mature Neurons. International Journal of Molecular Sciences, 2021, 22, 8998.	1.8	8
46	Selfâ€Assembled Artificial DNA Nanocompartments and Their Bioapplications. Small, 2023, 19, .	5.2	8
47	Insights into the Structure and Energy of DNA Nanoassemblies. Molecules, 2020, 25, 5466.	1.7	6
48	Covalent Tethering of Protruding Arms for Addressable DNA Nanostructures. Small, 2011, 7, 2887-2898.	5.2	5
49	Site-specific facet protection of gold nanoparticles inside a 3D DNA origami box: a tool for molecular plasmonics. Chemical Communications, 2021, 57, 3151-3153.	2.2	5
50	Irregular model DNA particles self-assemble into a regular structure. Soft Matter, 2017, 13, 8894-8902.	1.2	4
51	Nucleic Acids Nanotechnology. Methods, 2014, 67, 103-104.	1.9	0
52	The primordial life of DNA dynamic networks. Nature Catalysis, 2020, 3, 865-866.	16.1	0
53	Nanotechnology and the Unique Role of DNA. , 2017, , 1-26.		0