

Matteo Castronovo

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

611
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759233

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24
docs citations

24
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating CRISPR/Cas systems with programmable DNA nanostructures for delivery and beyond. <i>IScience</i> , 2022, , 104389.	4.1	9
2	Computational Evolution of Beta-2-Microglobulin Binding Peptides for Nanopatterned Surface Sensors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 812.	4.1	8
3	A last-in first-out stack data structure implemented in DNA. <i>Nature Communications</i> , 2021, 12, 4861.	12.8	11
4	A Self-Assembled Binary Protein Model Explains High-Performance Salivary Lubrication from Macro to Nanoscale. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901549.	3.7	24
5	Aqueous Lubrication: A Self-Assembled Binary Protein Model Explains High-Performance Salivary Lubrication from Macro to Nanoscale (<i>Adv. Mater. Interfaces</i> 1/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070002.	3.7	0
6	Global and local mechanical properties control endonuclease reactivity of a DNA origami nanostructure. <i>Nucleic Acids Research</i> , 2020, 48, 4672-4680.	14.5	35
7	Binary control of enzymatic cleavage of DNA origami by structural antideterminants. <i>Nucleic Acids Research</i> , 2018, 46, 995-1006.	14.5	26
8	Spatially Resolved Peptide-DNA Nanoassemblages for Biomarker Detection: A Synergy of DNA-Directed Immobilization and Nanografting. <i>Methods in Molecular Biology</i> , 2018, 1811, 151-162.	0.9	2
9	Site accessibility tailors DNA cleavage by restriction enzymes in DNA confined monolayers. <i>Nanoscale</i> , 2017, 9, 6399-6405.	5.6	3
10	pH-Controlled Assembly of DNA Tiles. <i>Journal of the American Chemical Society</i> , 2016, 138, 12735-12738.	13.7	68
11	Spectroscopic ellipsometry meets AFM nanolithography: about hydration of bio-inert oligo(ethylene) Tj ETQq1 1 0.784314 rgBT /Over 28774-28781.	2.8	26
12	Emergent Properties and Functions of Nanoconfined Nucleic Acid Architectures. <i>RNA Technologies</i> , 2015, , 183-204.	0.3	1
13	Rational Design of pH-Controlled DNA Strand Displacement. <i>Journal of the American Chemical Society</i> , 2014, 136, 16469-16472.	13.7	110
14	Folding-Upon-Binding and Signal-On Electrochemical DNA Sensor with High Affinity and Specificity. <i>Analytical Chemistry</i> , 2014, 86, 9013-9019.	6.5	72
15	Digital Imprinting of RNA Recognition and Processing on a Self-Assembled Nucleic Acid Matrix. <i>Scientific Reports</i> , 2013, 3, 2550.	3.3	4
16	Effects of Nanoscale Confinement on the Functionality of Nucleic Acids: Implications for Nanomedicine. <i>Current Medicinal Chemistry</i> , 2013, 20, 3539-3557.	2.4	6
17	DNA as Invisible Ink for AFM Nanolithography. <i>Journal of the American Chemical Society</i> , 2012, 134, 39-42.	13.7	24
18	Two-dimensional enzyme diffusion in laterally confined DNA monolayers. <i>Nature Communications</i> , 2011, 2, 297.	12.8	23

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19	The Atomic Force Microscopy as a Lithographic Tool: Nanografting of DNA Nanostructures for Biosensing Applications. <i>Methods in Molecular Biology</i> , 2011, 749, 209-221.	0.9	5
20	Quantitative Study of the Effect of Coverage on the Hybridization Efficiency of Surface-Bound DNA Nanostructures. <i>Nano Letters</i> , 2008, 8, 4134-4139.	9.1	64
21	Electron Transfer Mediating Properties of Hydrocarbons as a Function of Chain Length: A Differential Scanning Conductive Tip Atomic Force Microscopy Investigation. <i>ACS Nano</i> , 2008, 2, 507-515.	14.6	27
22	Control of Steric Hindrance on Restriction Enzyme Reactions with Surface-Bound DNA Nanostructures. <i>Nano Letters</i> , 2008, 8, 4140-4145.	9.1	53
23	Mechanical Stabilization Effect of Water on a Membrane-like System. <i>Journal of the American Chemical Society</i> , 2007, 129, 2636-2641.	13.7	9