Alexander E Marras

List of Publications by Year
in descending order

25	1,137	623734 14	752698 20
papers	citations	h-index	g-index

35	35	35	1090
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Programmable motion of DNA origami mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 713-718.	7.1	341
2	Mechanical design of DNA nanostructures. Nanoscale, 2015, 7, 5913-5921.	5.6	120
3	DNA Origami Compliant Nanostructures with Tunable Mechanical Properties. ACS Nano, 2014, 8, 27-34.	14.6	114
4	Real-time magnetic actuation of DNA nanodevices via modular integration with stiff micro-levers. Nature Communications, 2018, 9, 1446.	12.8	105
5	Direct Design of an Energy Landscape with Bistable DNA Origami Mechanisms. Nano Letters, 2015, 15, 1815-1821.	9.1	61
6	Detection of Extracellular RNAs in Cancer and Viral Infection via Tethered Cationic Lipoplex Nanoparticles Containing Molecular Beacons. Analytical Chemistry, 2013, 85, 11265-11274.	6.5	56
7	Cation-Activated Avidity for Rapid Reconfiguration of DNA Nanodevices. ACS Nano, 2018, 12, 9484-9494.	14.6	54
8	Three-dimensional structural dynamics of DNA origami Bennett linkages using individual-particle electron tomography. Nature Communications, 2018, 9, 592.	12.8	48
9	Polyelectrolyte Complexation of Oligonucleotides by Charged Hydrophobicâ€"Neutral Hydrophilic Block Copolymers. Polymers, 2019, 11, 83.	4.5	39
10	Directing folding pathways for multi-component DNA origami nanostructures with complex topology. New Journal of Physics, 2016, 18, 055005.	2.9	33
11	Impact of wet-dry cycling on the phase behavior and compartmentalization properties of complex coacervates. Nature Communications, 2020, 11, 5423.	12.8	33
12	Paper Origamiâ€Inspired Design and Actuation of DNA Nanomachines with Complex Motions. Small, 2018, 14, e1802580.	10.0	32
13	Advances in the Structural Design of Polyelectrolyte Complex Micelles. Journal of Physical Chemistry B, 2021, 125, 7076-7089.	2.6	31
14	Physical Property Scaling Relationships for Polyelectrolyte Complex Micelles. Macromolecules, 2021, 54, 6585-6594.	4.8	20
15	Pseudorigid-Body Models of Compliant DNA Origami Mechanisms. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	13
16	Comparing Zwitterionic and PEG Exteriors of Polyelectrolyte Complex Micelles. Molecules, 2020, 25, 2553.	3.8	11
17	Projection kinematic analysis of DNA origami mechanisms based on a two-dimensional TEM image. Mechanism and Machine Theory, 2017, 109, 22-38.	4.5	6
18	The Kinematic Principle for Designing Deoxyribose Nucleic Acid Origami Mechanisms: Challenges and Opportunities1. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	6

#	Article	IF	Citations
19	Assembly and Characterization of Polyelectrolyte Complex Micelles. Journal of Visualized Experiments, 2020, , .	0.3	6
20	Design and Fabrication of DNA Origami Mechanisms and Machines. , 2012, , 487-500.		3
21	Design of DNA Origami Machines and Mechanisms. , 2012, , .		1
22	The Kinematic Principle for Designing DNA Origami Mechanisms: Challenges and Opportunities. , 2015, , .		1
23	Pseudo-Rigid-Body Models of Compliant DNA Origami Mechanisms. , 2015, , .		1
24	Translocation Behaviors of Synthetic Polyelectrolytes through Alpha-Hemolysin (Î±-HL) and Mycobacterium smegmatis Porin A (MspA) Nanopores. Journal of the Electrochemical Society, 2022, 169, 057510.	2.9	1
25	Fabricating and Actuating DNA Origami Mechanisms. Biophysical Journal, 2017, 112, 301a.	0.5	0