David A Hastman

List of Publications by Year
in descending order

17	297	933447 10	1199594 12
papers	citations	h-index	g-index

17	17	17	363
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding energy transfer with luminescent gold nanoclusters: a promising new transduction modality for biorelated applications. Journal of Materials Chemistry B, 2017, 5, 7907-7926.	5.8	56
2	Nanoparticle-Mediated Visualization and Control of Cellular Membrane Potential: Strategies, Progress, and Remaining Issues. ACS Nano, 2020, 14, 2659-2677.	14.6	35
3	Femtosecond Laser Pulse Excitation of DNA-Labeled Gold Nanoparticles: Establishing a Quantitative Local Nanothermometer for Biological Applications. ACS Nano, 2020, 14, 8570-8583.	14.6	33
4	Kinetic enhancement of the diffusion-limited enzyme beta-galactosidase when displayed with quantum dots. RSC Advances, 2015, 5, 93089-93094.	3.6	30
5	Examining the Polyproline Nanoscopic Ruler in the Context of Quantum Dots. Chemistry of Materials, 2015, 27, 6222-6237.	6.7	30
6	Direct and Efficient Conjugation of Quantum Dots to DNA Nanostructures with Peptide-PNA. ACS Nano, 2021, 15, 9101-9110.	14.6	27
7	Expanding molecular logic capabilities in DNA-scaffolded multiFRET triads. RSC Advances, 2016, 6, 97587-97598.	3.6	23
8	Gold Nanoparticle Templating Increases the Catalytic Rate of an Amylase, Maltase, and Glucokinase Multienzyme Cascade through Substrate Channeling Independent of Surface Curvature. ACS Catalysis, 2021, 11, 627-638.	11.2	19
9	Rapid DNA origami nanostructure detection and classification using the YOLOv5 deep convolutional neural network. Scientific Reports, 2022, 12, 3871.	3.3	16
10	Increased Transfer Efficiency from Molecular Photonic Wires on Solid Substrates and Cryogenic Conditions. Journal of Physical Chemistry Letters, 2018, 9, 3654-3659.	4.6	13
11	Understanding Self-Assembled Pseudoisocyanine Dye Aggregates in DNA Nanostructures and Their Exciton Relay Transfer Capabilities. Journal of Physical Chemistry B, 2022, 126, 110-122.	2.6	11
12	Mechanistic Understanding of DNA Denaturation in Nanoscale Thermal Gradients Created by Femtosecond Excitation of Gold Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 3404-3417.	8.0	4
13	Reconfigurable DNA nanostructures for detection of multiple DNA and enzymatic inputs. , 2017, , .		0
14	Improving Transfer Efficiency of Molecular Photonic Wires on DNA Scaffolds. , 2018, , .		0
15	Parameters guiding the self-assembly of quantum dots and DNA origami by peptide-PNA. , 2021, , .		0
16	Gold nanoparticles capable of templating entire enzyme cascades and improving production yield through substrate channeling. , 2021, , .		0
17	DNA based molecular logic devices: a review of some ongoing work with multifluorophore FRET systems. , 2019, , .		0