

# David A Hastman

## List of Publications by Year in descending order

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17  
papers

297  
citations

933447

10  
h-index

1199594

12  
g-index

17  
all docs

17  
docs citations

17  
times ranked

363  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Rapid DNA origami nanostructure detection and classification using the YOLOv5 deep convolutional neural network. Scientific Reports, 2022, 12, 3871.	3.3	16
3	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
4	Direct and Efficient Conjugation of Quantum Dots to DNA Nanostructures with Peptide-PNA. ACS Nano, 2021, 15, 9101-9110.	14.6	27
5	Parameters guiding the self-assembly of quantum dots and DNA origami by peptide-PNA. , 2021, , .		0
6	Gold nanoparticles capable of templating entire enzyme cascades and improving production yield through substrate channeling. , 2021, , .		0
7	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
8	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
9	Nanoparticle-Mediated Visualization and Control of Cellular Membrane Potential: Strategies, Progress, and Remaining Issues. ACS Nano, 2020, 14, 2659-2677.	14.6	35
10	DNA based molecular logic devices: a review of some ongoing work with multifluorophore FRET systems. , 2019, , .		0
11	Improving Transfer Efficiency of Molecular Photonic Wires on DNA Scaffolds. , 2018, , .		0
12	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
13	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
14	Reconfigurable DNA nanostructures for detection of multiple DNA and enzymatic inputs. , 2017, , .		0
15	Expanding molecular logic capabilities in DNA-scaffolded multiFRET triads. RSC Advances, 2016, 6, 97587-97598.	3.6	23
16	Kinetic enhancement of the diffusion-limited enzyme beta-galactosidase when displayed with quantum dots. RSC Advances, 2015, 5, 93089-93094.	3.6	30
17	Examining the Polyproline Nanoscopic Ruler in the Context of Quantum Dots. Chemistry of Materials, 2015, 27, 6222-6237.	6.7	30