

# Hector H Hernandez

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

926  
citations

759233

12  
h-index

839539

18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1574  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structures of the GCaMP Calcium Sensor Reveal the Mechanism of Fluorescence Signal Change and Aid Rational Design. <i>Journal of Biological Chemistry</i> , 2009, 284, 6455-6464.	3.4	226
2	3D printed feed spacers based on triply periodic minimal surfaces for flux enhancement and biofouling mitigation in RO and UF. <i>Desalination</i> , 2018, 425, 12-21.	8.2	122
3	Substantial Energetic Improvement with Minimal Structural Perturbation in a High Affinity Mutant Antibody. <i>Journal of Molecular Biology</i> , 2004, 343, 685-701.	4.2	121
4	Microalgae cultivation and harvesting: Growth performance and use of flocculants - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109364.	16.4	101
5	Supercritical Water Desulfurization of Organic Sulfides Is Consistent with Free-Radical Kinetics. <i>Energy &amp; Fuels</i> , 2013, 27, 6108-6117.	5.1	90
6	Mass transfer analysis of ultrafiltration using spacers based on triply periodic minimal surfaces: Effects of spacer design, directionality and voidage. <i>Journal of Membrane Science</i> , 2018, 561, 89-98.	8.2	64
7	Microbial Growth under Supercritical CO <sub>2</sub> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 2881-2892.	3.1	44
8	Efficient Screening for Ternary Molecular Ionic Cocrystals Using a Complementary Mechanosynthesis and Computational Structure Prediction Approach. <i>Chemistry - A European Journal</i> , 2020, 26, 4752-4765.	3.3	27
9	Direct Electrochemical Characterization of Archaeal Thioredoxins. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4145-4147.	13.8	21
10	Thioredoxin Reductase from <i>Thermoplasma acidophilum</i> : A New Twist on Redox Regulation. <i>Biochemistry</i> , 2008, 47, 9728-9737.	2.5	21
11	Hydrophilicity of a Single DNA Molecule. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2807-2818.	3.1	20
12	Direct enrichment of perchlorate-reducing microbial community for efficient electroactive perchlorate reduction in biocathodes. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1321-1327.	3.0	15
13	Growth and Nitrate Uptake in <i>Nannochloropsis gaditana</i> and <i>Tetraselmis chuii</i> Cultures Grown in Sequential Batch Reactors. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	12
14	Synthesis and bacterial expression of a gene encoding the heme domain of assimilatory nitrate reductase. <i>Archives of Biochemistry and Biophysics</i> , 2002, 402, 38-50.	3.0	11
15	Direct Electrochemical Analyses of a Thermophilic Thioredoxin Reductase: Interplay between Conformational Change and Redox Chemistry. <i>Biochemistry</i> , 2008, 47, 9738-9746.	2.5	10
16	Comprehensive Bioenergetic Evaluation of Microbial Pathway Variants in Syntrophic Propionate Oxidation. <i>MSystems</i> , 2020, 5, .	3.8	8
17	Recent Progress and Trends in the Development of Microbial Biofuels from Solid Waste—A Review. <i>Energies</i> , 2021, 14, 6011.	3.1	7
18	Crystal Engineering of Binary Organic Eutectics: Significant Improvement in the Physicochemical Properties of Polycyclic Aromatic Hydrocarbons via the Computational and Mechanochemical Discovery of Composite Materials. <i>Crystal Growth and Design</i> , 2021, 21, 4151-4161.	3.0	6

#	ARTICLE	IF	CITATIONS
19	Crystal structures of the GCaMP calcium sensor protein reveal the mechanism of fluorescence signal change and aid rational design. FASEB Journal, 2009, 23, 517.1.	0.5	0