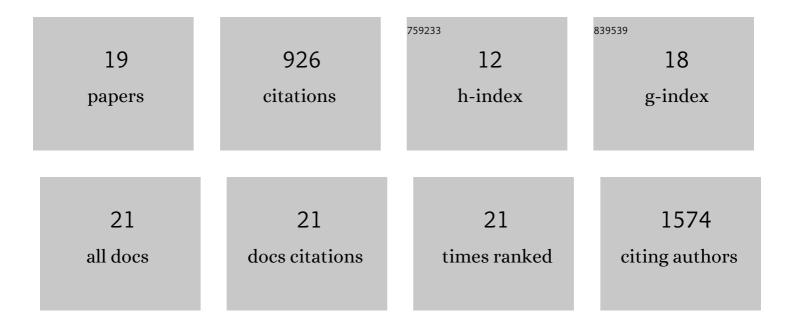
## Hector H Hernandez

List of Publications by Year in descending order

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